



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 10:15 PM GMT

PDB ID : 4V7R
Title : Yeast 80S ribosome.
Authors : Ben-Shem, A.; Jenner, L.; Yusupova, G.; Yusupov, M.
Deposited on : 2010-07-23
Resolution : 4.00 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

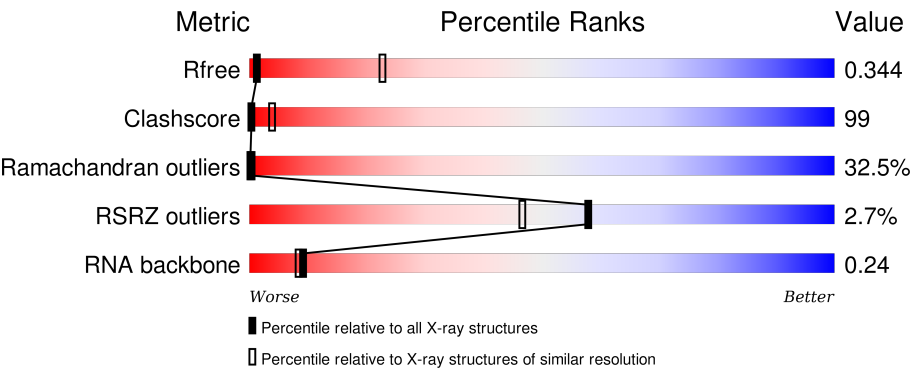
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	91344	1010 (4.42-3.56)
Clashscore	102246	1052 (4.40-3.60)
Ramachandran outliers	100387	1005 (4.40-3.60)
RSRZ outliers	91569	1013 (4.42-3.56)
RNA backbone	2183	1079 (5.04-2.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A1	1800	<div><div>3%</div><div><div></div><div></div><div></div><div></div></div><div>36%52%9%</div></div>
1	C1	1800	<div><div>4%</div><div><div></div><div></div><div></div><div></div></div><div>36%52%10%</div></div>
2	AA	252	<div><div>2%</div><div><div></div><div></div><div></div><div></div></div><div>27%41%16%13%</div></div>
2	CA	252	<div><div>%</div><div><div></div><div></div><div></div><div></div></div><div>27%40%17%13%</div></div>
3	AB	254	<div><div>%</div><div><div></div><div></div><div></div><div></div></div><div>29%35%20%14%</div></div>

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Mol	Chain	Length	Quality of chain
3	CB	254	
4	AC	240	
4	CC	240	
5	AD	225	
5	CD	225	
6	AE	197	
6	CE	197	
7	AF	156	
7	CF	156	
8	AG	151	
8	CG	151	
9	AH	137	
9	CH	137	
10	AI	142	
10	CI	142	
11	AJ	143	
11	CJ	143	
12	AK	136	
12	CK	136	
13	AL	146	
13	CL	146	
14	AM	144	
14	CM	144	
15	AN	121	
15	CN	121	

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Mol	Chain	Length	Quality of chain
16	AO	130	
16	CO	130	
17	AP	145	
17	CP	145	
18	AQ	108	
18	CQ	108	
19	AR	67	
19	CR	67	
20	AS	56	
20	CS	56	
21	AT	319	
21	CT	319	
22	Aa	20	
22	Bo	20	
22	Ca	20	
23	Ab	105	
23	Cb	105	
24	Ac	93	
24	Cc	93	
25	Ad	35	
25	Cd	35	
26	Ae	21	
26	Bj	21	
26	Dj	21	
27	Af	11	


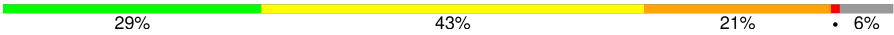
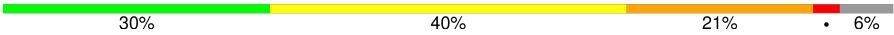
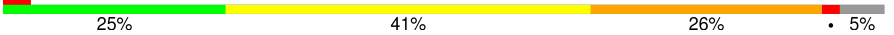
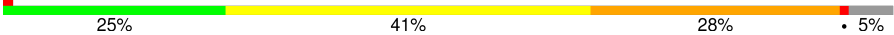
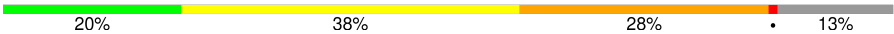
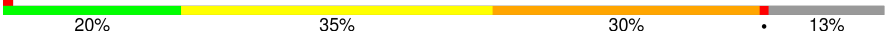
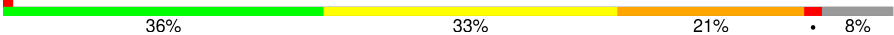
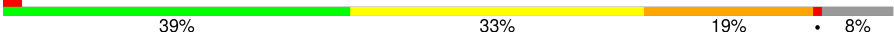
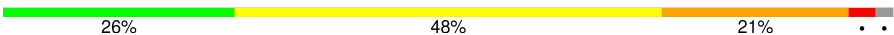
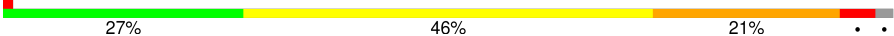

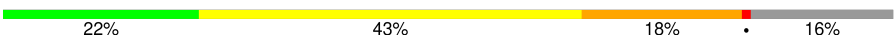
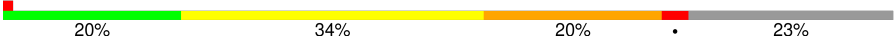











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Mol	Chain	Length	Quality of chain
28	Ah	41	100%
28	Ch	41	100%
29	B1	3396	3% 28% 45% 19% 6%
29	D1	3396	3% 30% 44% 17% 6%
30	B2	121	2% 35% 45% 21%
30	D2	121	% 33% 44% 22%
31	B3	158	4% 39% 47% 11%
31	D3	158	2% 41% 50% 6%
32	BA	217	15% 53% 36% 8% . .
32	DA	217	21% 59% 32% 7% .
33	BB	254	% 31% 39% 20% . 8%
33	DB	254	2% 33% 39% 19% . 8%
34	BC	387	22% 42% 28% . 6%
34	DC	387	21% 42% 30% . 6%
35	BD	362	26% 33% 14% . 26%
35	DD	362	% 26% 33% 14% . 26%
36	BE	297	% 25% 48% 22% . .
36	DE	297	2% 26% 47% 22% . .
37	BF	176	% 23% 48% 27% .
37	DF	176	% 20% 53% 24% .
38	BG	244	31% 36% 19% . 12%
38	DG	244	31% 35% 20% . 12%
39	BH	256	2% 26% 29% 13% 32%
39	DH	256	2% 30% 25% 12% 32%
40	BI	191	% 38% 40% 21% .

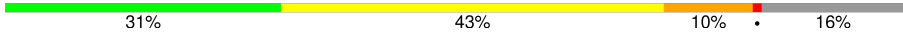
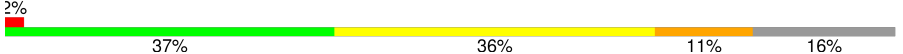
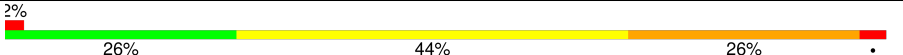
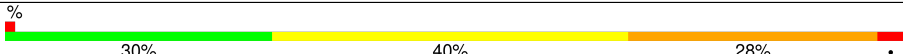
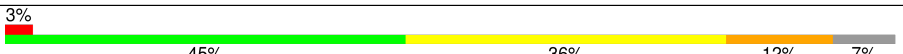
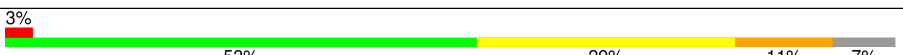
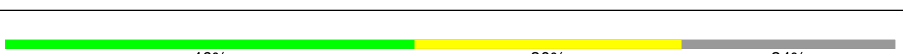
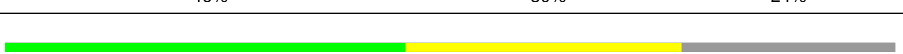

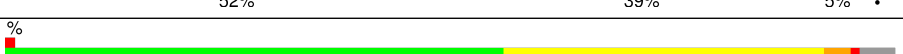
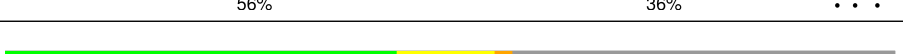
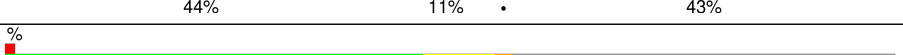
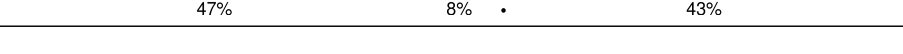






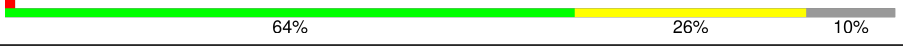

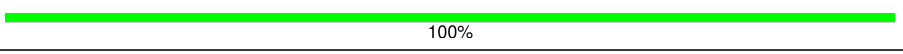
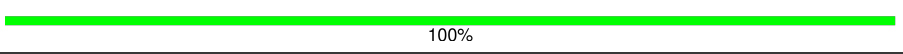
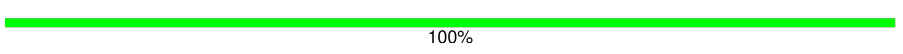

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Mol	Chain	Length	Quality of chain
40	DI	191	
41	BJ	221	
41	DJ	221	
42	BK	174	
42	DK	174	
43	BN	138	
43	DN	138	
44	BO	204	
44	DO	204	
45	BP	199	
45	DP	199	
46	BQ	184	
46	DQ	184	
47	BR	186	
47	DR	186	
48	BS	189	
48	DS	189	
49	BT	160	
49	DT	160	
50	BU	137	
50	DU	137	
51	BV	155	
51	DV	155	
52	BW	142	
52	DW	142	

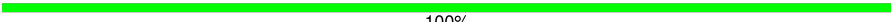
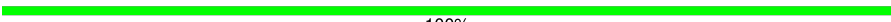





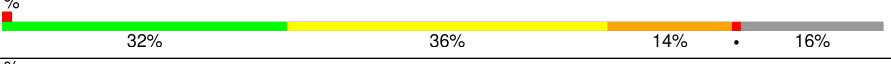

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Mol	Chain	Length	Quality of chain
53	BX	127	
53	DX	127	
54	BY	149	
54	DY	149	
55	BZ	105	
55	DZ	105	
56	Ba	113	
56	Da	113	
57	Bb	130	
57	Db	130	
58	Bc	120	
58	Dc	120	
59	Bd	88	
59	Dd	88	
60	Be	51	
60	De	51	
61	Bf	106	
61	Df	106	
62	Bg	92	
62	Dg	92	
63	Bh	44	
63	Dh	44	
64	Bi	12	
64	Di	12	
65	Bk	16	

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Mol	Chain	Length	Quality of chain
65	Dk	16	 100%
66	Bl	19	 100%
67	Bm	9	 100%
68	Bn	27	 100%
69	Bp	8	 100%
70	Bq	17	 100%
71	Br	23	 100%
72	DL	165	 % 32% 36% 14% 16%
73	DM	312	 % 14% 18% 9% 58%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
74	OHX	A1	1901	-	-	X	-
74	OHX	A1	1904	-	-	-	X
74	OHX	A1	1905	-	-	-	X
74	OHX	A1	1907	-	-	-	X
74	OHX	A1	1910	-	-	X	-
74	OHX	A1	1913	-	-	X	-
74	OHX	A1	1914	-	-	-	X
74	OHX	A1	1915	-	-	X	-
74	OHX	A1	1916	-	-	X	-
74	OHX	A1	1917	-	-	X	-
74	OHX	A1	1923	-	-	-	X
74	OHX	A1	1925	-	-	-	X
74	OHX	A1	1929	-	-	X	-
74	OHX	A1	1930	-	-	-	X
74	OHX	A1	1931	-	-	X	-
74	OHX	A1	1932	-	-	-	X
74	OHX	A1	1934	-	-	-	X
74	OHX	A1	1935	-	-	X	-
74	OHX	A1	1938	-	-	-	X
74	OHX	A1	1940	-	-	-	X
74	OHX	A1	1943	-	-	X	-
74	OHX	A1	1949	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
74	OHX	A1	1951	-	-	X	X
74	OHX	A1	1952	-	-	-	X
74	OHX	A1	1958	-	-	-	X
74	OHX	A1	1959	-	-	X	X
74	OHX	A1	1965	-	-	-	X
74	OHX	A1	1966	-	-	-	X
74	OHX	A1	1967	-	-	-	X
74	OHX	A1	1969	-	-	-	X
74	OHX	A1	1970	-	-	-	X
74	OHX	A1	1972	-	-	-	X
74	OHX	A1	1975	-	-	X	-
74	OHX	A1	1976	-	-	X	-
74	OHX	A1	1977	-	-	-	X
74	OHX	A1	1978	-	-	-	X
74	OHX	A1	1979	-	-	X	-
74	OHX	A1	1986	-	-	X	-
74	OHX	A1	1988	-	-	-	X
74	OHX	A1	1991	-	-	X	X
74	OHX	A1	1993	-	-	-	X
74	OHX	A1	1999	-	-	-	X
74	OHX	A1	2002	-	-	-	X
74	OHX	AS	101	-	-	X	-
74	OHX	AT	401	-	-	-	X
74	OHX	B1	3401	-	-	-	X
74	OHX	B1	3402	-	-	-	X
74	OHX	B1	3403	-	-	-	X
74	OHX	B1	3423	-	-	-	X
74	OHX	B1	3428	-	-	X	-
74	OHX	B1	3435	-	-	-	X
74	OHX	B1	3438	-	-	X	-
74	OHX	B1	3441	-	-	-	X
74	OHX	B1	3449	-	-	X	-
74	OHX	B1	3450	-	-	X	-
74	OHX	B1	3453	-	-	-	X
74	OHX	B1	3456	-	-	-	X
74	OHX	B1	3459	-	-	X	-
74	OHX	B1	3461	-	-	-	X
74	OHX	B1	3468	-	-	-	X
74	OHX	B1	3469	-	-	-	X
74	OHX	B1	3476	-	-	-	X
74	OHX	B1	3479	-	-	X	X
74	OHX	B1	3484	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
74	OHX	B1	3486	-	-	-	X
74	OHX	B1	3492	-	-	X	-
74	OHX	B1	3495	-	-	-	X
74	OHX	B1	3496	-	-	X	-
74	OHX	B1	3498	-	-	-	X
74	OHX	B1	3501	-	-	-	X
74	OHX	B1	3504	-	-	-	X
74	OHX	B1	3505	-	-	X	-
74	OHX	B1	3506	-	-	-	X
74	OHX	B1	3512	-	-	-	X
74	OHX	B1	3519	-	-	X	-
74	OHX	B1	3520	-	-	-	X
74	OHX	B1	3521	-	-	-	X
74	OHX	B1	3524	-	-	X	X
74	OHX	B1	3525	-	-	-	X
74	OHX	B1	3528	-	-	-	X
74	OHX	B1	3529	-	-	X	-
74	OHX	B1	3530	-	-	-	X
74	OHX	B1	3534	-	-	-	X
74	OHX	B1	3536	-	-	X	X
74	OHX	B1	3537	-	-	X	X
74	OHX	B1	3539	-	-	-	X
74	OHX	B1	3542	-	-	-	X
74	OHX	B1	3544	-	-	X	X
74	OHX	B1	3549	-	-	-	X
74	OHX	B1	3551	-	-	-	X
74	OHX	B1	3556	-	-	-	X
74	OHX	B1	3558	-	-	X	-
74	OHX	B1	3560	-	-	-	X
74	OHX	B1	3562	-	-	-	X
74	OHX	B1	3563	-	-	X	X
74	OHX	B1	3566	-	-	-	X
74	OHX	B1	3567	-	-	X	-
74	OHX	B1	3568	-	-	-	X
74	OHX	B1	3571	-	-	-	X
74	OHX	B1	3572	-	-	-	X
74	OHX	B1	3575	-	-	-	X
74	OHX	B1	3577	-	-	-	X
74	OHX	B1	3579	-	-	-	X
74	OHX	B1	3580	-	-	-	X
74	OHX	B1	3581	-	-	X	X
74	OHX	B1	3582	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
74	OHX	B1	3583	-	-	-	X
74	OHX	B1	3587	-	-	X	-
74	OHX	B1	3589	-	-	-	X
74	OHX	B1	3594	-	-	-	X
74	OHX	B1	3595	-	-	-	X
74	OHX	B1	3599	-	-	X	X
74	OHX	B1	3604	-	-	-	X
74	OHX	B1	3605	-	-	X	-
74	OHX	B1	3608	-	-	-	X
74	OHX	B1	3611	-	-	-	X
74	OHX	B1	3615	-	-	-	X
74	OHX	B1	3616	-	-	X	X
74	OHX	B1	3617	-	-	X	-
74	OHX	B1	3619	-	-	X	-
74	OHX	B1	3620	-	-	X	-
74	OHX	B2	201	-	-	X	-
74	OHX	B2	203	-	-	-	X
74	OHX	B3	206	-	-	X	-
74	OHX	B3	209	-	-	-	X
74	OHX	B3	210	-	-	-	X
74	OHX	C1	1903	-	-	-	X
74	OHX	C1	1912	-	-	X	-
74	OHX	C1	1916	-	-	X	-
74	OHX	C1	1917	-	-	X	-
74	OHX	C1	1919	-	-	-	X
74	OHX	C1	1924	-	-	X	-
74	OHX	C1	1928	-	-	X	-
74	OHX	C1	1929	-	-	-	X
74	OHX	C1	1930	-	-	X	-
74	OHX	C1	1933	-	-	X	-
74	OHX	C1	1940	-	-	-	X
74	OHX	C1	1947	-	-	-	X
74	OHX	C1	1955	-	-	X	-
74	OHX	C1	1958	-	-	-	X
74	OHX	C1	1963	-	-	-	X
74	OHX	C1	1964	-	-	X	-
74	OHX	C1	1967	-	-	-	X
74	OHX	C1	1970	-	-	X	-
74	OHX	C1	1972	-	-	-	X
74	OHX	C1	1973	-	-	-	X
74	OHX	C1	1974	-	-	-	X
74	OHX	C1	1975	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
74	OHX	C1	1979	-	-	-	X
74	OHX	C1	1983	-	-	X	-
74	OHX	C1	1986	-	-	-	X
74	OHX	C1	1992	-	-	-	X
74	OHX	C1	1993	-	-	-	X
74	OHX	C1	1995	-	-	-	X
74	OHX	C1	1997	-	-	-	X
74	OHX	C1	1998	-	-	-	X
74	OHX	C1	2000	-	-	-	X
74	OHX	C1	2001	-	-	X	-
74	OHX	CS	101	-	-	X	-
74	OHX	D1	3401	-	-	-	X
74	OHX	D1	3402	-	-	-	X
74	OHX	D1	3405	-	-	-	X
74	OHX	D1	3408	-	-	X	-
74	OHX	D1	3409	-	-	-	X
74	OHX	D1	3410	-	-	-	X
74	OHX	D1	3413	-	-	-	X
74	OHX	D1	3415	-	-	X	-
74	OHX	D1	3430	-	-	X	-
74	OHX	D1	3431	-	-	X	-
74	OHX	D1	3435	-	-	-	X
74	OHX	D1	3437	-	-	-	X
74	OHX	D1	3439	-	-	-	X
74	OHX	D1	3442	-	-	X	-
74	OHX	D1	3446	-	-	X	-
74	OHX	D1	3452	-	-	X	-
74	OHX	D1	3459	-	-	-	X
74	OHX	D1	3463	-	-	X	-
74	OHX	D1	3471	-	-	X	-
74	OHX	D1	3473	-	-	X	-
74	OHX	D1	3475	-	-	-	X
74	OHX	D1	3476	-	-	-	X
74	OHX	D1	3477	-	-	X	-
74	OHX	D1	3479	-	-	-	X
74	OHX	D1	3480	-	-	X	-
74	OHX	D1	3485	-	-	-	X
74	OHX	D1	3489	-	-	-	X
74	OHX	D1	3490	-	-	-	X
74	OHX	D1	3496	-	-	-	X
74	OHX	D1	3502	-	-	X	-
74	OHX	D1	3507	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
74	OHX	D1	3508	-	-	-	X
74	OHX	D1	3510	-	-	-	X
74	OHX	D1	3514	-	-	-	X
74	OHX	D1	3516	-	-	-	X
74	OHX	D1	3517	-	-	-	X
74	OHX	D1	3522	-	-	-	X
74	OHX	D1	3524	-	-	-	X
74	OHX	D1	3525	-	-	-	X
74	OHX	D1	3527	-	-	-	X
74	OHX	D1	3532	-	-	-	X
74	OHX	D1	3535	-	-	-	X
74	OHX	D1	3538	-	-	-	X
74	OHX	D1	3543	-	-	X	-
74	OHX	D1	3544	-	-	-	X
74	OHX	D1	3545	-	-	-	X
74	OHX	D1	3546	-	-	-	X
74	OHX	D1	3550	-	-	-	X
74	OHX	D1	3551	-	-	-	X
74	OHX	D1	3552	-	-	-	X
74	OHX	D1	3554	-	-	-	X
74	OHX	D1	3555	-	-	X	-
74	OHX	D1	3558	-	-	-	X
74	OHX	D1	3563	-	-	-	X
74	OHX	D1	3564	-	-	-	X
74	OHX	D1	3567	-	-	X	-
74	OHX	D1	3568	-	-	X	X
74	OHX	D1	3574	-	-	X	-
74	OHX	D1	3579	-	-	-	X
74	OHX	D1	3581	-	-	-	X
74	OHX	D1	3582	-	-	X	-
74	OHX	D1	3583	-	-	X	-
74	OHX	D1	3584	-	-	-	X
74	OHX	D1	3585	-	-	X	-
74	OHX	D1	3586	-	-	-	X
74	OHX	D1	3587	-	-	-	X
74	OHX	D1	3588	-	-	X	-
74	OHX	D1	3589	-	-	X	X
74	OHX	D1	3592	-	-	X	-
74	OHX	D1	3593	-	-	-	X
74	OHX	D1	3594	-	-	-	X
74	OHX	D1	3597	-	-	-	X
74	OHX	D1	3602	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
74	OHX	D1	3603	-	-	-	X
74	OHX	D1	3607	-	-	X	-
74	OHX	D1	3613	-	-	-	X
74	OHX	D1	3615	-	-	-	X
74	OHX	D1	3617	-	-	-	X
74	OHX	D1	3618	-	-	-	X
74	OHX	D1	3620	-	-	-	X
74	OHX	D1	3623	-	-	-	X
74	OHX	D1	3624	-	-	-	X
74	OHX	D1	3625	-	-	X	-
74	OHX	D2	201	-	-	X	-
74	OHX	D2	202	-	-	-	X
74	OHX	D2	207	-	-	X	-
74	OHX	D3	202	-	-	X	-
74	OHX	D3	204	-	-	X	-
74	OHX	D3	205	-	-	X	-
74	OHX	D3	208	-	-	-	X
74	OHX	D3	209	-	-	X	-
74	OHX	D3	210	-	-	-	X
74	OHX	D3	211	-	-	-	X
74	OHX	D3	212	-	-	X	X
74	OHX	DO	301	-	-	X	-

2 Entry composition

There are 74 unique types of molecules in this entry. The entry contains 309610 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A1	1789	Total	C	N	O	P	0	0	0
			38107	17037	6732	12549	1789			
1	C1	1789	Total	C	N	O	P	0	0	0
			38107	17037	6732	12549	1789			

- Molecule 2 is a protein called 40S ribosomal protein S0-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	AA	220	Total	C	N	O	0	0	0
			1090	650	220	220			
2	CA	220	Total	C	N	O	0	0	0
			1090	650	220	220			

- Molecule 3 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	AB	219	Total	C	N	O	0	0	0
			1074	636	219	219			
3	CB	219	Total	C	N	O	0	0	0
			1074	636	219	219			

- Molecule 4 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	AC	189	Total	C	N	O	0	0	0
			928	550	189	189			
4	CC	189	Total	C	N	O	0	0	0
			928	550	189	189			

- Molecule 5 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	AD	169	Total	C	N	O	0	0	0
			836	498	169	169			
5	CD	169	Total	C	N	O	0	0	0
			836	498	169	169			

- Molecule 6 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
6	AE	157	Total	C	N	O	0	0	0
			777	463	157	157			
6	CE	157	Total	C	N	O	0	0	0
			777	463	157	157			

- Molecule 7 is a protein called 40S ribosomal protein S11.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
7	AF	77	Total	C	N	O	0	0	0
			382	228	77	77			
7	CF	77	Total	C	N	O	0	0	0
			382	228	77	77			

- Molecule 8 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
8	AG	117	Total	C	N	O	0	0	0
			580	346	117	117			
8	CG	117	Total	C	N	O	0	0	0
			580	346	117	117			

- Molecule 9 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AH	128	Total	C	N	O	0	0	0
			627	371	128	128			
9	CH	128	Total	C	N	O	0	0	0
			627	371	128	128			

- Molecule 10 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	AI	121	Total	C	N	O	0	0	0
			596	354	121	121			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	CI	121	Total	C	N	O	0	0	0
			596	354	121	121			

- Molecule 11 is a protein called 40S ribosomal protein S16.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
11	AJ	134	Total	C	N	O	0	0	0
			658	390	134	134			
11	CJ	134	Total	C	N	O	0	0	0
			658	390	134	134			

- Molecule 12 is a protein called 40S ribosomal protein S17-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
12	AK	67	Total	C	N	O	0	0	0
			332	198	67	67			
12	CK	67	Total	C	N	O	0	0	0
			332	198	67	67			

- Molecule 13 is a protein called 40S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
13	AL	120	Total	C	N	O	0	0	0
			591	351	120	120			
13	CL	120	Total	C	N	O	0	0	0
			591	351	120	120			

- Molecule 14 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	AM	106	Total	C	N	O	0	0	0
			521	309	106	106			
14	CM	106	Total	C	N	O	0	0	0
			521	309	106	106			

- Molecule 15 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
15	AN	111	Total	C	N	O	0	0	0
			551	329	111	111			
15	CN	111	Total	C	N	O	0	0	0
			551	329	111	111			

- Molecule 16 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
16	AO	127	Total	C	N	O	0	0	0
			622	368	127	127			
16	CO	127	Total	C	N	O	0	0	0
			622	368	127	127			

- Molecule 17 is a protein called 40S ribosomal protein S23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
17	AP	116	Total	C	N	O	0	0	0
			566	334	116	116			
17	CP	116	Total	C	N	O	0	0	0
			566	334	116	116			

- Molecule 18 is a protein called 40S ribosomal protein S25-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AQ	67	Total	C	N	O	0	0	0
			332	198	67	67			
18	CQ	63	Total	C	N	O	0	0	0
			312	186	63	63			

- Molecule 19 is a protein called 40S ribosomal protein S28-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
19	AR	47	Total	C	N	O	0	0	0
			230	136	47	47			
19	CR	47	Total	C	N	O	0	0	0
			230	136	47	47			

- Molecule 20 is a protein called 40S ribosomal protein S29-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
20	AS	39	Total	C	N	O	0	0	0
			190	112	39	39			
20	CS	39	Total	C	N	O	0	0	0
			190	112	39	39			

- Molecule 21 is a protein called Guanine nucleotide-binding protein subunit beta-like protein; RACK-1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AT	313	Total	C	N	O	0	0	0
			1543	917	313	313			
21	CT	313	Total	C	N	O	0	0	0
			1543	917	313	313			

- Molecule 22 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
22	Aa	20	Total	C	N	O	0	0	0
			100	60	20	20			
22	Bo	20	Total	C	N	O	0	0	0
			100	60	20	20			
22	Ca	20	Total	C	N	O	0	0	0
			100	60	20	20			

- Molecule 23 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
23	Ab	105	Total	C	N	O	0	0	0
			525	315	105	105			
23	Cb	105	Total	C	N	O	0	0	0
			525	315	105	105			

- Molecule 24 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
24	Ac	93	Total	C	N	O	0	0	0
			465	279	93	93			
24	Cc	93	Total	C	N	O	0	0	0
			465	279	93	93			

- Molecule 25 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
25	Ad	35	Total	C	N	O	0	0	0
			175	105	35	35			
25	Cd	35	Total	C	N	O	0	0	0
			175	105	35	35			

- Molecule 26 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	Ae	21	Total	C	N	O	0	0	0
			105	63	21	21			
26	Bj	21	Total	C	N	O	0	0	0
			105	63	21	21			
26	Dj	21	Total	C	N	O	0	0	0
			105	63	21	21			

- Molecule 27 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
27	Af	11	Total	C	N	O	0	0	0
			55	33	11	11			

- Molecule 28 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
28	Ah	41	Total	C	N	O	0	0	0
			205	123	41	41			
28	Ch	41	Total	C	N	O	0	0	0
			205	123	41	41			

- Molecule 29 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B1	3206	Total	C	N	O	P	0	0	0
			68577	30632	12365	22374	3206			
29	D1	3206	Total	C	N	O	P	0	0	0
			68577	30632	12365	22374	3206			

- Molecule 30 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B2	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
30	D2	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

- Molecule 31 is a RNA chain called 5.8S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B3	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D3	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

- Molecule 32 is a protein called 60S ribosomal protein L1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
32	BA	213	Total	C	N	O	0	0	0
			1055	629	213	213			
32	DA	213	Total	C	N	O	0	0	0
			1055	629	213	213			

- Molecule 33 is a protein called 60S ribosomal protein L2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
33	BB	234	Total	C	N	O	0	0	0
			1106	638	234	234			
33	DB	234	Total	C	N	O	0	0	0
			1106	638	234	234			

- Molecule 34 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
34	BC	364	Total	C	N	O	0	0	0
			1791	1063	364	364			
34	DC	364	Total	C	N	O	0	0	0
			1791	1063	364	364			

- Molecule 35 is a protein called 60S ribosomal protein L4-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
35	BD	268	Total	C	N	O	0	0	0
			1312	776	268	268			
35	DD	268	Total	C	N	O	0	0	0
			1312	776	268	268			

- Molecule 36 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
36	BE	287	Total	C	N	O	0	0	0
			1412	838	287	287			
36	DE	287	Total	C	N	O	0	0	0
			1412	838	287	287			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BE	112	ARG	LYS	CONFLICT	UNP P26321
DE	112	ARG	LYS	CONFLICT	UNP P26321

- Molecule 37 is a protein called 60S ribosomal protein L6-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
37	BF	176	Total	C	N	O	0	0	0
			873	521	176	176			
37	DF	176	Total	C	N	O	0	0	0
			873	521	176	176			

- Molecule 38 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
38	BG	215	Total	C	N	O	0	0	0
			1061	631	215	215			
38	DG	215	Total	C	N	O	0	0	0
			1061	631	215	215			

- Molecule 39 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	BH	173	Total	C	N	O	0	0	0
			856	510	173	173			
39	DH	173	Total	C	N	O	0	0	0
			856	510	173	173			

- Molecule 40 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	BI	191	Total	C	N	O	0	0	0
			942	560	191	191			
40	DI	191	Total	C	N	O	0	0	0
			942	560	191	191			

- Molecule 41 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	BJ	208	Total	C	N	O	0	0	0
			1027	611	208	208			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	DJ	208	Total	C	N	O	0	0	0
			1027	611	208	208			

- Molecule 42 is a protein called 60S ribosomal protein L11-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
42	BK	165	Total	C	N	O	0	0	0
			810	480	165	165			
42	DK	165	Total	C	N	O	0	0	0
			810	480	165	165			

- Molecule 43 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
43	BN	120	Total	C	N	O	0	0	0
			593	353	120	120			
43	DN	120	Total	C	N	O	0	0	0
			593	353	120	120			

- Molecule 44 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BO	187	Total	C	N	O	0	0	0
			923	549	187	187			
44	DO	187	Total	C	N	O	0	0	0
			923	549	187	187			

- Molecule 45 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	BP	196	Total	C	N	O	0	0	0
			967	575	196	196			
45	DP	196	Total	C	N	O	0	0	0
			967	575	196	196			

- Molecule 46 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
46	BQ	154	Total	C	N	O	0	0	0
			761	453	154	154			
46	DQ	154	Total	C	N	O	0	0	0
			761	453	154	154			

- Molecule 47 is a protein called 60S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
47	BR	143	Total	C	N	O	0	0	0
			706	420	143	143			
47	DR	143	Total	C	N	O	0	0	0
			706	420	143	143			

- Molecule 48 is a protein called 60S ribosomal protein L19.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
48	BS	188	Total	C	N	O	0	0	0
			931	555	188	188			
48	DS	188	Total	C	N	O	0	0	0
			931	555	188	188			

- Molecule 49 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	BT	119	Total	C	N	O	0	0	0
			586	348	119	119			
49	DT	119	Total	C	N	O	0	0	0
			586	348	119	119			

- Molecule 50 is a protein called 60S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
50	BU	129	Total	C	N	O	0	0	0
			631	373	129	129			
50	DU	129	Total	C	N	O	0	0	0
			631	373	129	129			

- Molecule 51 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
51	BV	59	Total	C	N	O	0	0	0
			291	173	59	59			
51	DV	59	Total	C	N	O	0	0	0
			291	173	59	59			

- Molecule 52 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
52	BW	94	Total	C	N	O	0	0	0
			468	280	94	94			
52	DW	94	Total	C	N	O	0	0	0
			468	280	94	94			

- Molecule 53 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
53	BX	107	Total	C	N	O	0	0	0
			530	316	107	107			
53	DX	107	Total	C	N	O	0	0	0
			530	316	107	107			

- Molecule 54 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
54	BY	149	Total	C	N	O	0	0	0
			727	429	149	149			
54	DY	149	Total	C	N	O	0	0	0
			727	429	149	149			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BY	38	GLU	GLN	CONFLICT	UNP P02406
DY	38	GLU	GLN	CONFLICT	UNP P02406

- Molecule 55 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
55	BZ	98	Total	C	N	O	0	0	0
			481	285	98	98			
55	DZ	98	Total	C	N	O	0	0	0
			481	285	98	98			

- Molecule 56 is a protein called 60S ribosomal protein L31-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
56	Ba	86	Total	C	N	O	0	0	0
			425	253	86	86			
56	Da	86	Total	C	N	O	0	0	0
			425	253	86	86			

- Molecule 57 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
57	Bb	125	Total	C	N	O	0	0	0
			618	368	125	125			
57	Db	125	Total	C	N	O	0	0	0
			618	368	125	125			

- Molecule 58 is a protein called 60S ribosomal protein L35.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
58	Bc	68	Total	C	N	O	0	0	0
			339	203	68	68			
58	Dc	68	Total	C	N	O	0	0	0
			339	203	68	68			

- Molecule 59 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
59	Bd	72	Total	C	N	O	0	0	0
			352	208	72	72			
59	Dd	72	Total	C	N	O	0	0	0
			352	208	72	72			

- Molecule 60 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
60	Be	48	Total	C	N	O	0	0	0
			240	144	48	48			
60	De	48	Total	C	N	O	0	0	0
			240	144	48	48			

- Molecule 61 is a protein called 60S ribosomal protein L42.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
61	Bf	95	Total	C	N	O	0	0	0
			467	277	95	95			
61	Df	95	Total	C	N	O	0	0	0
			467	277	95	95			

- Molecule 62 is a protein called 60S ribosomal protein L43.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
62	Bg	83	Total	C	N	O	0	0	0
			407	241	83	83			
62	Dg	83	Total	C	N	O	0	0	0
			407	241	83	83			

- Molecule 63 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
63	Bh	44	Total	C	N	O	0	0	0
			220	132	44	44			
63	Dh	44	Total	C	N	O	0	0	0
			220	132	44	44			

- Molecule 64 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
64	Bi	12	Total	C	N	O	0	0	0
			60	36	12	12			
64	Di	12	Total	C	N	O	0	0	0
			60	36	12	12			

- Molecule 65 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
65	Bk	16	Total	C	N	O	0	0	0
			80	48	16	16			
65	Dk	16	Total	C	N	O	0	0	0
			80	48	16	16			

- Molecule 66 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
66	Bl	19	Total	C	N	O	0	0	0
			95	57	19	19			

- Molecule 67 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
67	Bm	9	Total	C	N	O	0	0	0
			45	27	9	9			

- Molecule 68 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
68	Bn	27	Total	C	N	O	0	0	0
			135	81	27	27			

- Molecule 69 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
69	Bp	8	Total	C	N	O	0	0	0
			40	24	8	8			

- Molecule 70 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
70	Bq	17	Total	C	N	O	0	0	0
			85	51	17	17			

- Molecule 71 is a protein called Unassigned secondary structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
71	Br	23	Total	C	N	O	0	0	0
			115	69	23	23			

- Molecule 72 is a protein called 60S ribosomal protein L12.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
72	DL	138	Total	C	N	O	0	0	0
			679	403	138	138			

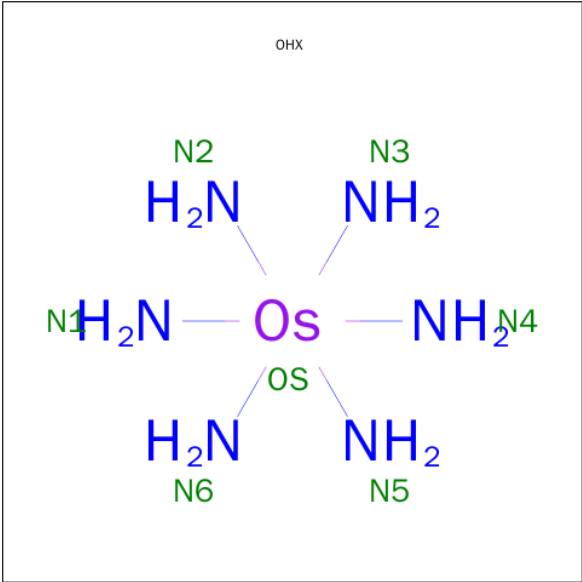
- Molecule 73 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
73	DM	130	Total	C	N	O	0	0	0
			641	381	130	130			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
DM	83	TYR	ASN	CONFLICT	UNP P05317

- Molecule 74 is osmium (III) hexamine (three-letter code: OHX) (formula: H₁₂N₆Os).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
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74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
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			7	6	1		
74	A1	1	Total	N	Os	0	0
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74	A1	1	Total	N	Os	0	0
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74	A1	1	Total	N	Os	0	0
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74	A1	1	Total	N	Os	0	0
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74	A1	1	Total	N	Os	0	0
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			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
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74	A1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	A1	1	Total	N	Os	0	0
			7	6	1		
74	AL	1	Total	N	Os	0	0
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74	AS	1	Total	N	Os	0	0
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			7	6	1		
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
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74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B1	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B2	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	B3	1	Total	N	Os	0	0
			7	6	1		
74	BC	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	BO	1	Total	N	Os	0	0
			7	6	1		
74	BT	1	Total	N	Os	0	0
			7	6	1		
74	Bd	1	Total	N	Os	0	0
			7	6	1		
74	Bd	1	Total	N	Os	0	0
			7	6	1		
74	Bg	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	C1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	C1	1	Total	N	Os	0	0
			7	6	1		
74	CI	1	Total	N	Os	0	0
			7	6	1		
74	CS	1	Total	N	Os	0	0
			7	6	1		
74	CS	1	Total	N	Os	0	0
			7	6	1		
74	CT	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D1	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D2	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	D3	1	Total	N	Os	0	0
			7	6	1		
74	DC	1	Total	N	Os	0	0
			7	6	1		

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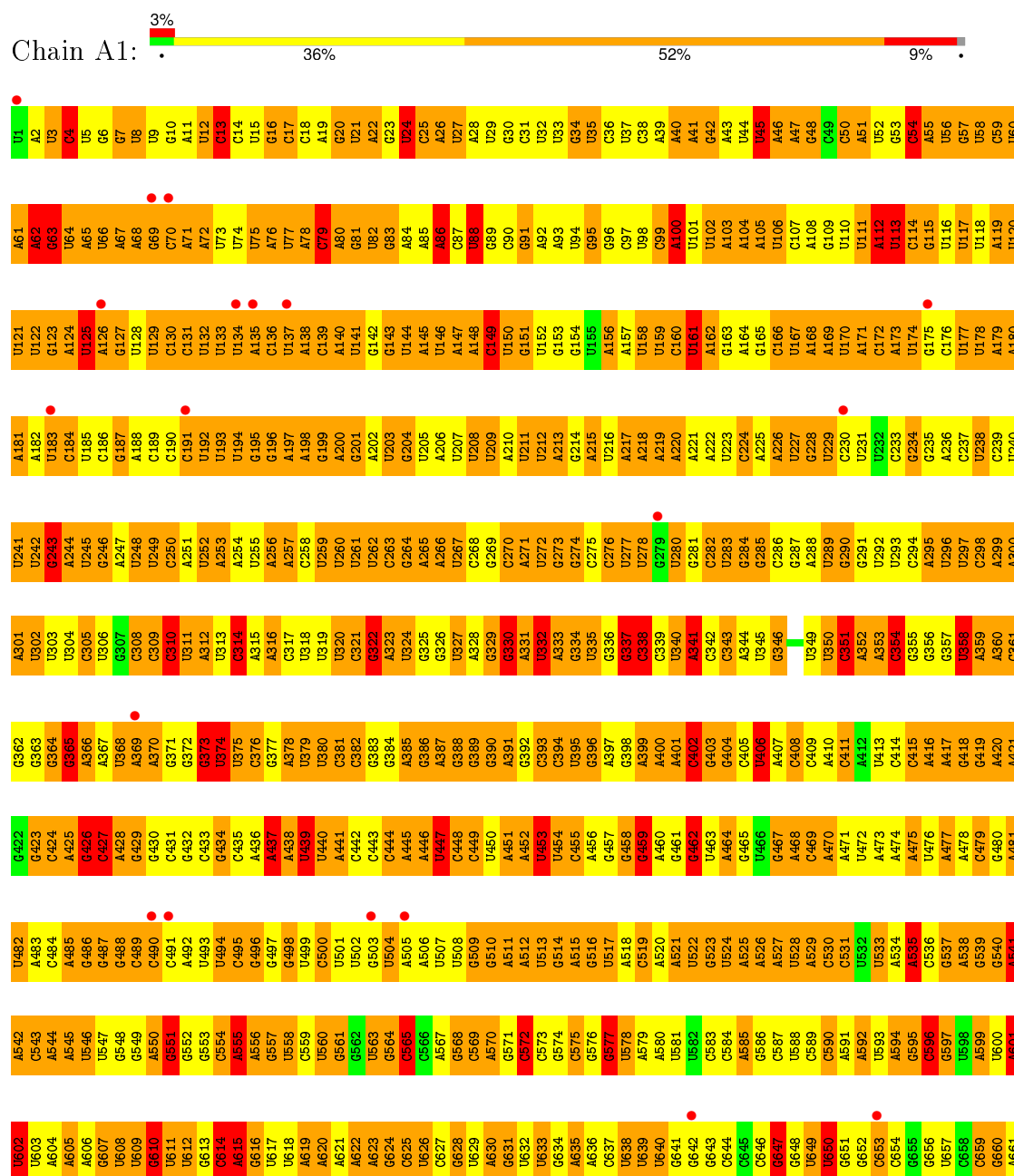
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
74	DE	1	Total	N	Os	0	0
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74	DJ	1	Total	N	Os	0	0
			7	6	1		
74	DO	1	Total	N	Os	0	0
			7	6	1		
74	DO	1	Total	N	Os	0	0
			7	6	1		
74	DT	1	Total	N	Os	0	0
			7	6	1		
74	Dd	1	Total	N	Os	0	0
			7	6	1		
74	Dd	1	Total	N	Os	0	0
			7	6	1		
74	Dg	1	Total	N	Os	0	0
			7	6	1		

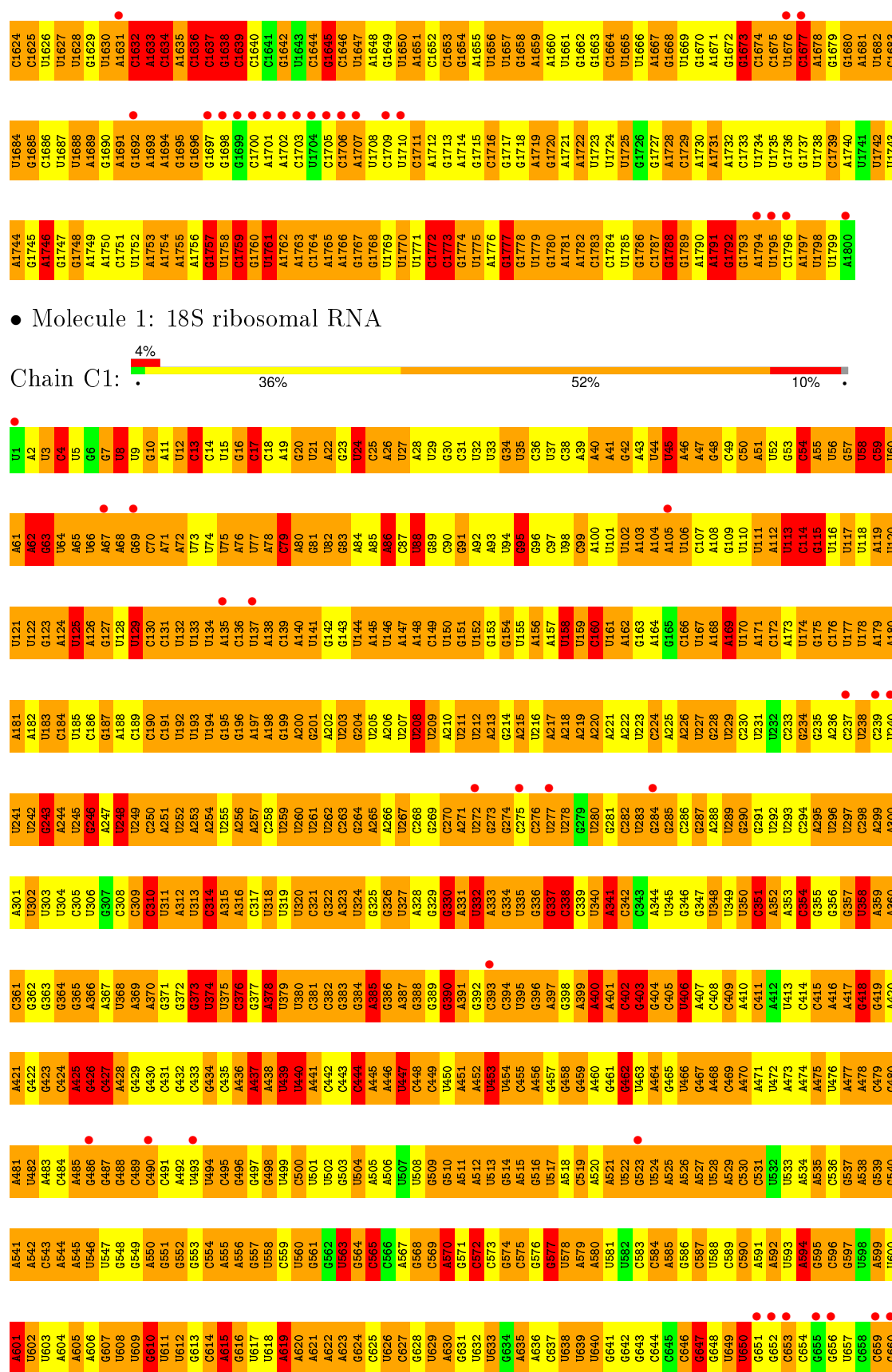
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

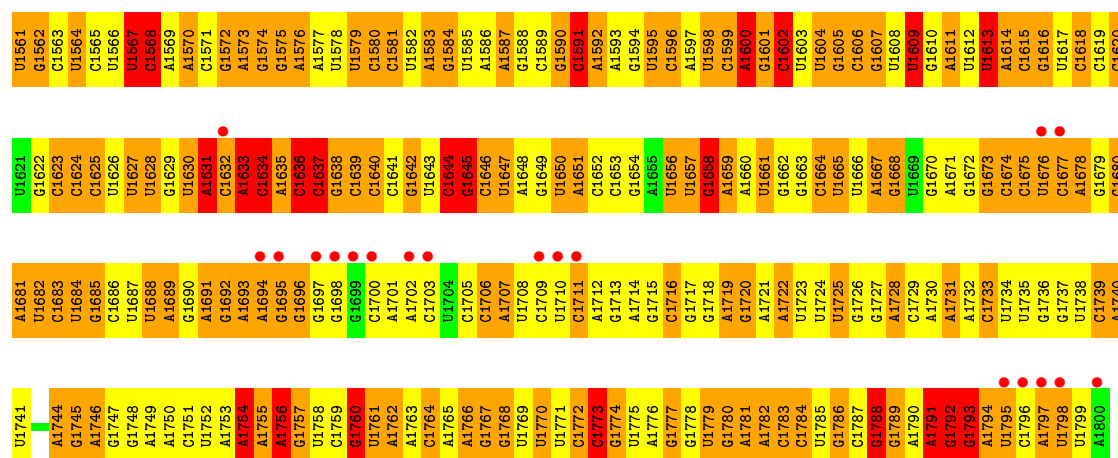
• Molecule 1: 18S ribosomal RNA



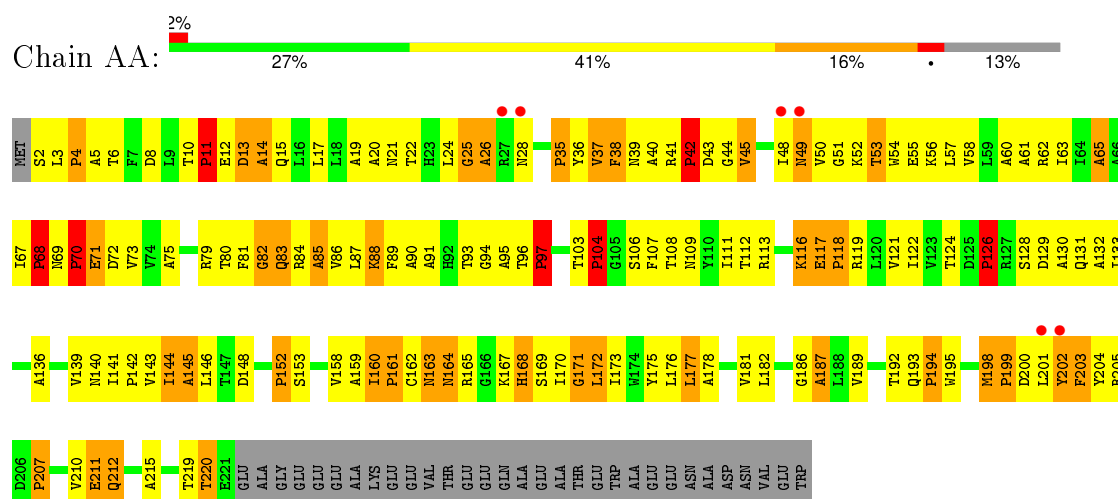
U1564	C1565	U1566	U1567	C1568	A1569	U1570	C1571	U1572	U1573	U1574	C1575	A1576	C1577	U1578	U1579	C1580	C1581	U1582	A1583	U1584	U1585	U1586	A1587	U1588	C1589	U1590	C1591	A1592	C1593	U1594	U1595	C1596	U1597	U1598	C1599	A1600	U1601	C1602	U1603	U1604	C1605	U1606	U1607	U1608	U1609	U1610	A1611	U1612	U1613	A1614	C1615	U1616	U1617	C1618	U1619	U1620	U1621	C1622	C1623	
G1504	A1505	G1506	G1507	U1508	C1509	U1510	U1511	G1512	G1513	C1514	A1515	C1516	U1517	C1518	U1519	U1520	C1521	U1522	G1523	A1524	U1525	A1526	C1527	U1528	C1529	U1530	C1531	U1532	C1533	U1534	U1535	U1536	C1537	U1538	U1539	G1540	G1541	G1542	A1543	U1544	A1545	U1546	U1547	U1548	U1549	U1550	U1551	U1552	U1553	U1554	A1555	U1556	U1557	U1558	U1559	U1560	U1561	U1562	C1563	
A1384	G1385	G1386	U1387	A1388	C1389	U1390	A1391	C1392	C1393	G1394	U1395	C1396	U1397	U1398	C1399	U1400	A1401	C1402	C1403	A1404	U1405	A1406	U1407	A1408	U1409	U1410	A1411	U1412	U1413	U1414	U1415	U1416	U1417	U1418	U1419	C1420	A1421	A1422	U1423	A1424	A1425	C1426	U1427	U1428	U1429	U1430	U1431	C1432	U1433	U1434	U1435	U1436	U1437	U1438	U1439	C1440	U1441	U1442	U1443	
A1444	G1445	A1446	G1447	U1448	U1449	U1450	C1451	U1452	G1453	C1454	U1455	C1456	U1457	G1458	C1459	A1460	C1461	G1462	C1463	A1464	U1465	C1466	C1467	U1468	U1469	U1470	A1471	C1472	U1473	U1474	U1475	U1476	U1477	U1478	U1479	U1480	U1481	C1482	C1483	U1484	C1485	C1486	U1487	U1488	U1489	U1490	U1491	A1492	U1493	U1494	C1495	U1496	U1497	U1498	U1499	C1500	U1501	U1502	C1503	
G1324	A1325	A1326	C1327	U1328	A1329	G1330	A1331	C1332	C1333	U1334	U1335	C1336	A1337	C1338	C1339	U1340	A1341	C1342	U1343	A1344	U1345	A1346	U1347	A1348	U1349	U1350	G1351	C1352	U1353	G1354	C1355	U1356	U1357	U1358	C1359	A1360	U1361	U1362	U1363	C1364	C1365	U1366	U1367	U1368	C1369	U1370	U1371	C1372	C1373	U1374	C1375	U1376	U1377	U1378	U1379	U1380	U1381	A1382	C1383	
G1264	C1265	G1266	G1267	U1268	C1269	G1270	C1271	C1272	G1273	C1274	C1275	U1276	C1277	G1278	C1279	U1280	G1281	U1282	U1283	C1284	U1285	U1286	U1287	C1288	U1289	U1290	G1291	C1292	U1293	C1294	U1295	U1296	C1297	U1298	U1299	A1300	U1301	U1302	U1303	G1304	U1305	C1306	U1307	U1308	C1309	U1310	U1311	A1312	U1313	U1314	U1315	U1316	C1317	U1318	U1319	U1320	A1321	C1322	C1323	
A1204	C1205	U1206	C1207	U1208	C1209	G1210	A1211	C1212	G1213	U1214	C1215	C1216	A1217	G1218	U1219	C1220	A1221	C1222	A1223	C1224	U1225	A1226	A1227	C1228	U1229	A1230	U1231	U1232	C1233	A1234	C1235	A1236	C1237	U1238	U1239	U1240	U1241	A1242	C1243	A1244	C1245	U1246	U1247	C1248	U1249	U1250	U1251	C1252	U1253	U1254	C1255	U1256	U1257	U1258	U1259	U1260	C1261	U1262	C1263	
U1144	U1145	G1146	A1147	U1148	U1149	U1150	A1151	A1152	G1153	C1154	U1155	C1156	A1157	C1158	U1159	A1160	C1161	G1162	A1163	G1164	C1165	A1166	G1167	U1168	C1169	G1170	A1171	C1172	C1173	C1174	U1175	U1176	C1177	G1178	U1179	C1180	C1181	U1182	A1183	A1184	U1185	U1186	U1187	G1188	A1189	C1190	U1191	C1192	A1193	A1194	C1195	U1196	C1197	G1198	U1199	U1200	G1201	A1202	A1203	
A1084	G1085	A1086	U1087	U1088	C1089	C1090	A1091	U1091	A1092	C1093	G1094	U1095	U1096	U1097	U1098	U1099	G1100	G1101	G1102	U1103	U1104	C1105	U1106	G1107	C1108	C1109	G1110	C1111	C1112	C1113	G1114	U1115	A1116	U1117	G1118	U1119	U1120	C1121	G1122	C1123	A1124	A1125	G1126	C1127	C1128	U1129	U1130	A1131	A1132	A1133	C1134	U1135	U1136	C1137	U1138	U1139	U1140	U1141	A1142	A1143
U1024	A1025	A1026	A1027	C1028	U1029	A1030	U1031	C1032	C1033	C1034	U1035	A1036	C1037	U1038	A1039	U1040	G1041	C1042	A1043	U1044	C1045	C1046	G1047	U1048	U1049	U1050	G1051	C1052	U1053	C1054	U1055	U1056	U1057	U1058	U1059	U1060	A1061	A1062	U1063	C1064	A1065	C1066	C1067	C1068	A1069	C1070	U1071	C1072	U1073	C1074	C1075	A1076	C1077	U1078	U1079	U1080	A1081	C1082	C1083	
A963	U964	U965	A966	U967	U968	C969	A970	U971	C972	G973	U974	C975	A976	U977	U978	A979	U980	U981	U982	A983	U984	G985	C986	U987	U988	U989	C990	G991	A992	A993	U994	A995	U996	G997	U998	U999	C1000	A1001	G1002	A1003	U1004	A1005	C1006	C1007	G1008	U1009	U1010	C1011	U1012	A1013	U1014	G1015	U1016	C1016	U1017	U1018	A1019	C1022	A1023	
U833	U834	U835	G836	U837	U838	A789	U790	U791	C792	A793	U794	U795	A796	U797	C798	U799	U800	G801	U802	A803	U804	U805	A806	U807	U808	U809	U810	C811	A812	U813	C814	U815	G816	U817	U818	C819	U820	U821	U822	C823	U824	U825	U826	C827	U828	U829	U830	U831	U832	U833	U834	U835	U836	U837	U838	U839	U840	U841	C842	
G723	C724	U725	C726	U727	U728	C729	G730	C731	U732	C733	A734	C735	U736	A737	C738	U739	A740	C741	U742	U743	U744	U745	A746	C747	U748	U749	U750	C751	A752	C753	A754	U755	A756	U757	U758	U759	A760	U761	A762	C763	U764	U765	U766	U767	C768	U769	A770	A771	C772	C773	A774	U775	U776	U777	U778	U779	U780	U781	U782	
U662	U663	U664	U665	U666	U667	C	G	U	G	U	A	U679	U680	U681	U682	U683	U684	U685	A686	C687	U688	U689	C690	U691	U692	U693	U694	U695	U696	U697	U698	U699	U700	U701	C702	U703	U704	U705	A706	C707	U708	C709	U710	U711	C712	A713	U714	U715	U716	U717	U718	U719	U720	U721	U722					



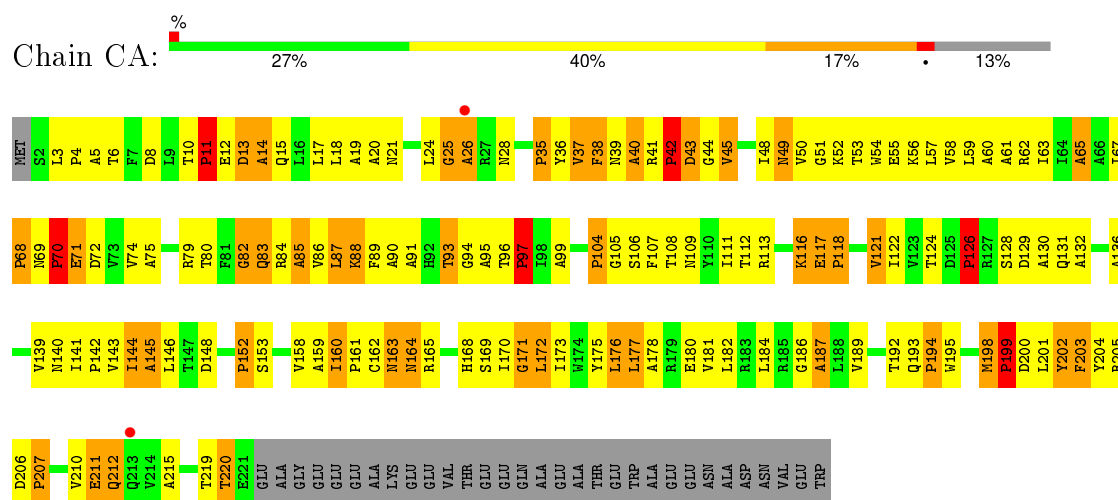
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A1503	G1383	G1323	A1323	G1263	A1203	G1083	A1023	A963	U903	U843	U783	G723	U663
G1504	A1444	A1384	G1324	G1264	A1204	U1084	U1024	U964	G904	U844	C784	G724	U664
A1505	G1445	G1385	A1325	U1265	C1205	G1085	A1025	U965	A905	U845	U785	G725	U665
G1506	A1446	G1386	A1326	U1266	C1206	A1086	A1026	A966	A906	G846	C786	G726	U666
G1507	C1447	G1387	C1327	G1267	C1207	A1087	A1027	A967	A907	A847	G787	U727	U667
U1508	A1448	A1388	G1328	G1268	C1208	A1088	C1028	U968	U908	C848	A788	U728	C
C1509	U1449	A1389	A1329	U1269	C1209	U1089	U1029	C969	U909	C849	A789	G729	G
U1510	A1450	G1390	G1330	U1270	A1210	C1090	A1030	A970	U910	A850	U790	G730	U
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G1512	U1452	U1392	C1332	U1272	G1212	A1092	G1032	G972	U912	C852	U792	G732	U
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A1515	G1455	U1395	U1335	A1275	C1215	U1095	G1035	C975	A915	A855	U795	A735	U
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A1526	G1466	U1406	A1346	U1286	A1226	U1106	G1046	G986	A926	G866	A806	A746	C686
C1527	C1467	A1407	U1347	U1287	A1227	G1107	G1047	G987	C927	G867	A807	C747	G687
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C1529	A1469	A1409	G1349	U1289	G1229	G1109	U1049	U989	A929	A869	A809	U749	G689
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G1531	A1471	A1411	G1351	G1291	U1231	G1111	U1051	G991	C931	C871	A811	G751	C691
U1532	C1472	G1412	G1352	G1292	U1232	G1112	U1052	A992	U932	G872	A812	A752	C692
C1533	U1473	A1413	U1353	U1293	G1233	G1113	G1053	A993	A933	U873	U813	A753	C693
G1534	G1474	U1414	G1354	G1294	A1234	G1114	U1054	G994	C934	C874	A814	A754	U694
U1535	A1475	U1415	C1355	C1295	C1235	U1115	U1055	A995	U935	C875	A815	A755	U695
G1536	G1476	G1416	U1356	A1296	A1236	A1116	U1056	U996	G936	G876	G816	A756	C696
C1537	G1477	A1417	A1357	G1297	G1237	U1117	U1057	G997	C937	G877	A817	A757	C697
U1538	G1478	U1418	G1358	U1298	A1238	G1118	U1058	A998	G938	C878	C818	U758	U698
G1539	A1479	G1419	C1359	G1299	U1239	G1119	U1059	U999	A939	G879	G819	U759	U699
G1540	G1480	C1420	A1360	U1240	U1240	U1120	U1060	C1000	A940	C880	U820	A760	C700
C1541	C1481	A1421	U1361	G1241	G1241	C1121	A1061	A1001	A941	A881	U821	G761	U701
G1542	A1482	A1422	U1362	A1242	A1242	G1122	A1062	G1002	G942	U882	U822	A762	G702
A1543	A1483	U1423	U1363	U1302	G1243	C1123	G1063	A1003	G943	C883	G823	G763	G703
U1544	G1484	A1424	G1364	G1304	A1244	A1124	U1064	U1004	A944	A884	G824	U764	C704
A1545	C1485	A1425	C1365	U1305	G1245	A1125	A1065	A1005	U945	G885	U825	G765	U705
G1546	G1486	A1426	U1366	C1306	C1246	G1126	C1066	C1006	U946	U886	U826	U766	A706
A1547	A1487	A1427	G1367	U1307	U1247	U1127	C1067	C1007	U947	A887	C827	U767	A707
G1548	G1488	G1428	G1368	G1308	C1248	C1128	C1068	G1008	G948	U888	U828	C768	C708
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G1552	A1492	U1432	U1372	A1312	C1252	A1132	C1072	A952	A952	A892	U832	G772	G712
G1553	A1493	G1433	C1373	A1313	U1253	A1133	G1073	G953	G953	U893	U833	C773	A713
U1554	C1494	U1434	C1374	U1314	A1254	C1134	G1074	G954	G954	U894	A714	A774	G714
A1555	C1495	A1435	A1375	U1315	G1255	U1135	C1075	U1015	A955	G895	U835	G775	U715
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U1557	U1497	U1437	U1377	G1317	U1257	A1137	C1077	U1017	G957	C897	G837	C777	C717
U1558	G1498	G1438	C1378	G1318	U1258	A1138	C1078	U1018	U958	A898	G838	G778	C718
A1559	G1499	A1319	U1379	G1319	U1259	A1139	U1079	A1019	U959	A899	U779	U719	C720
U1560	C1500	C1440	U1380	U1320	U1260	G1140	U1080	A1020	U960	A900	U840	A780	G720



- Molecule 2: 40S ribosomal protein S0-A

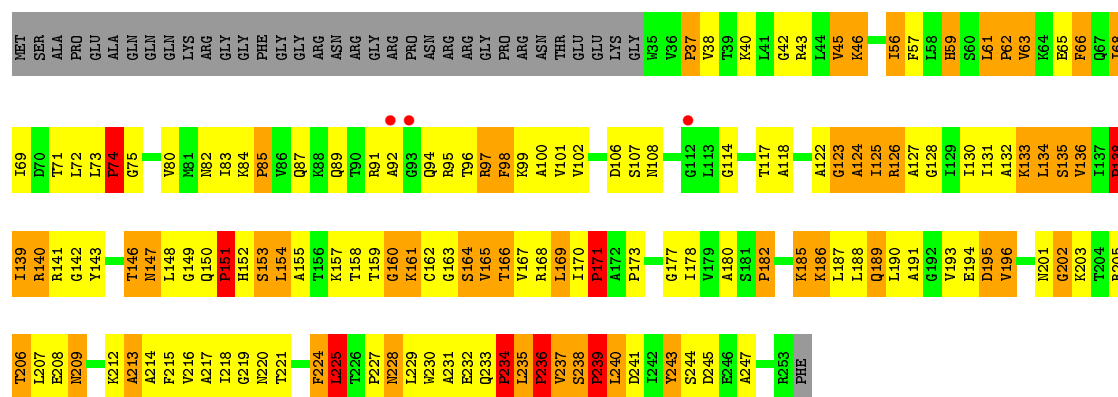


- Molecule 2: 40S ribosomal protein S0-A

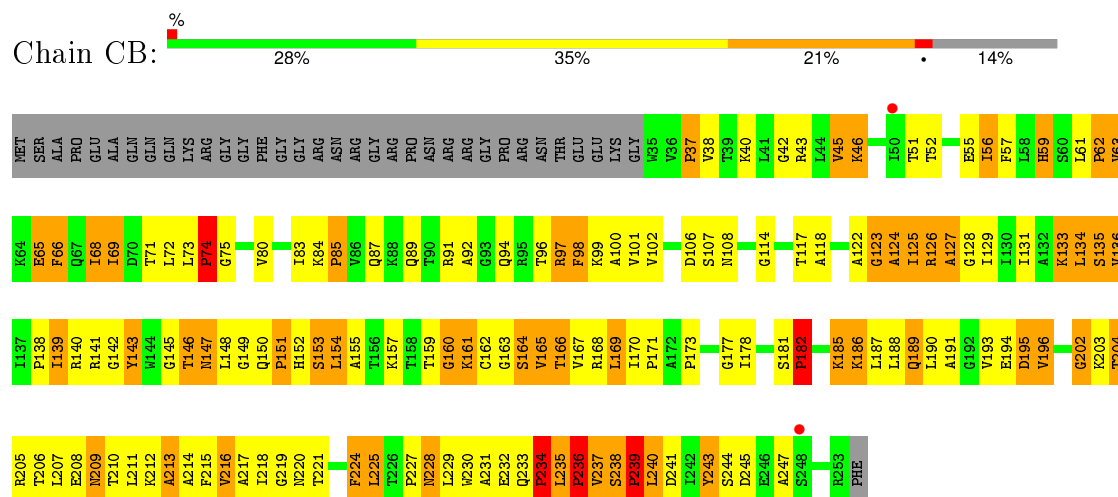


- Molecule 3: 40S ribosomal protein S2

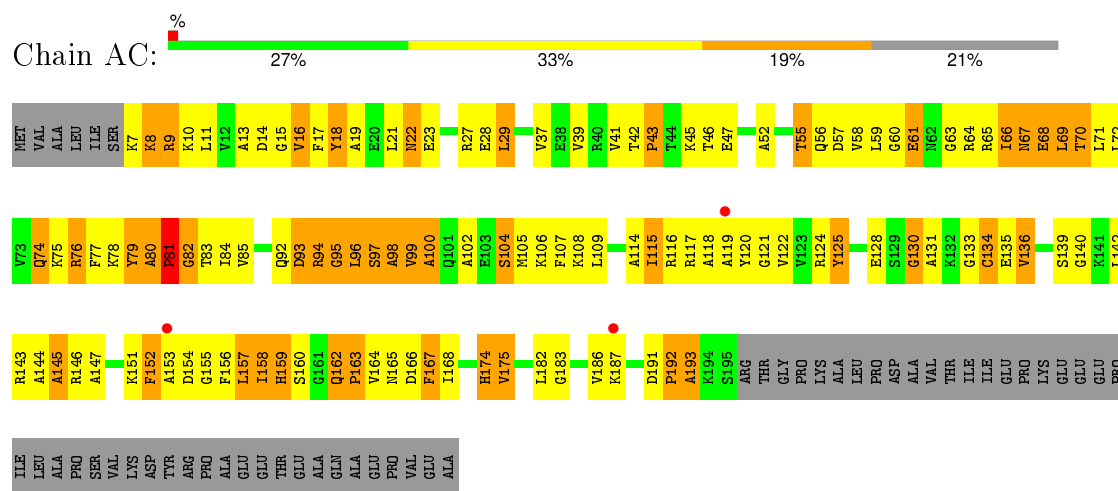




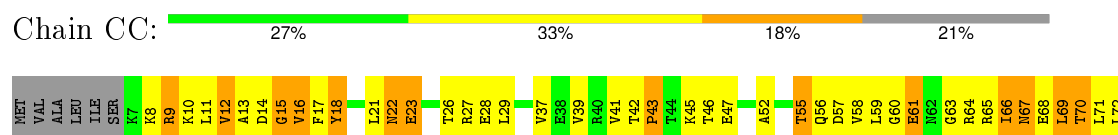
• Molecule 3: 40S ribosomal protein S2

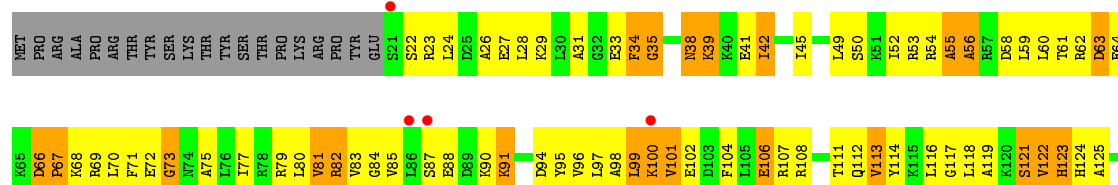


• Molecule 4: 40S ribosomal protein S3



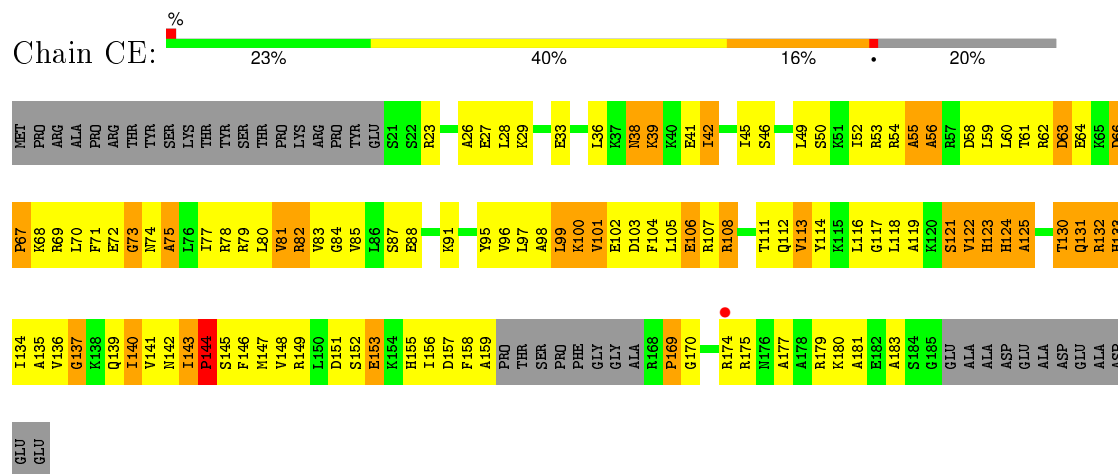
• Molecule 4: 40S ribosomal protein S3



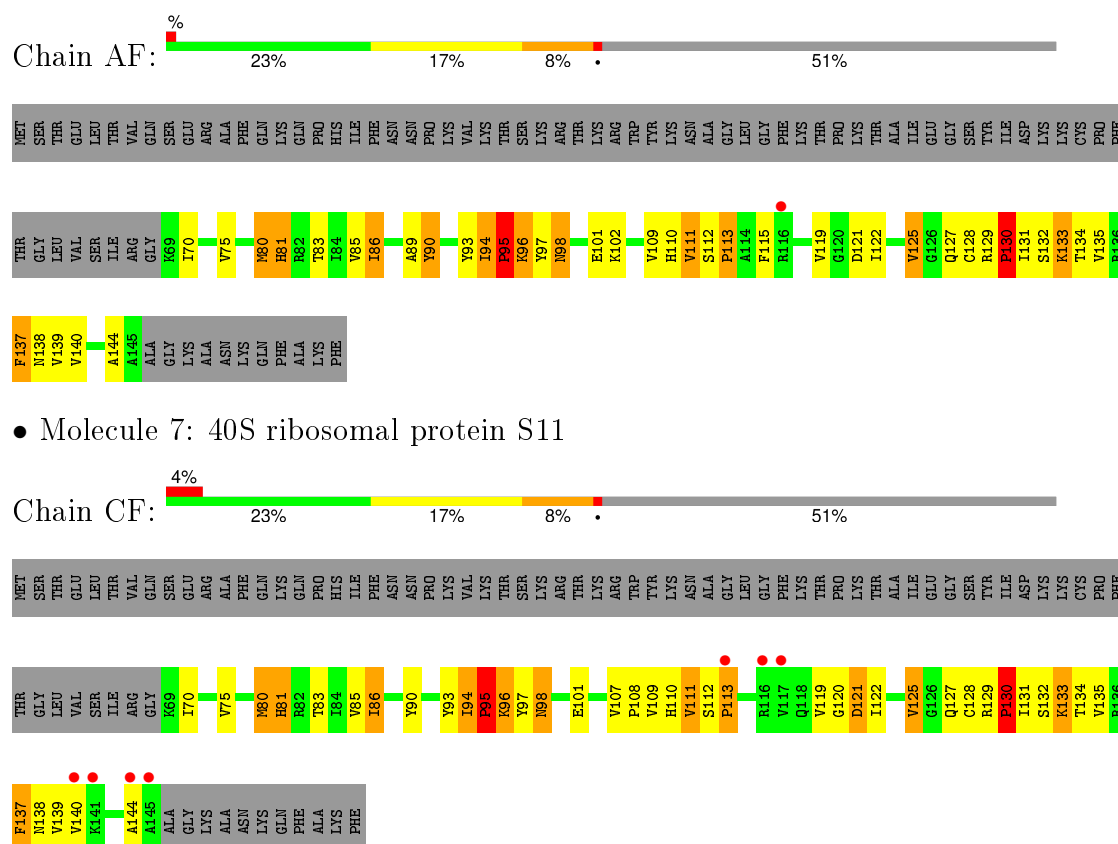




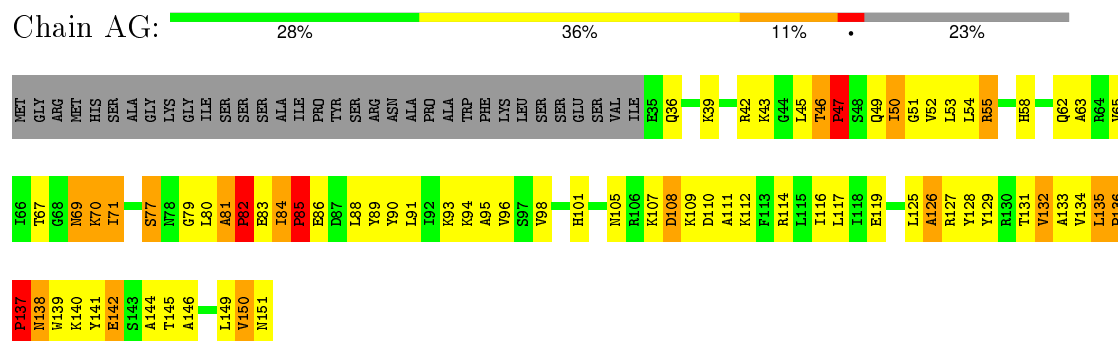
- Molecule 6: 40S ribosomal protein S9-A



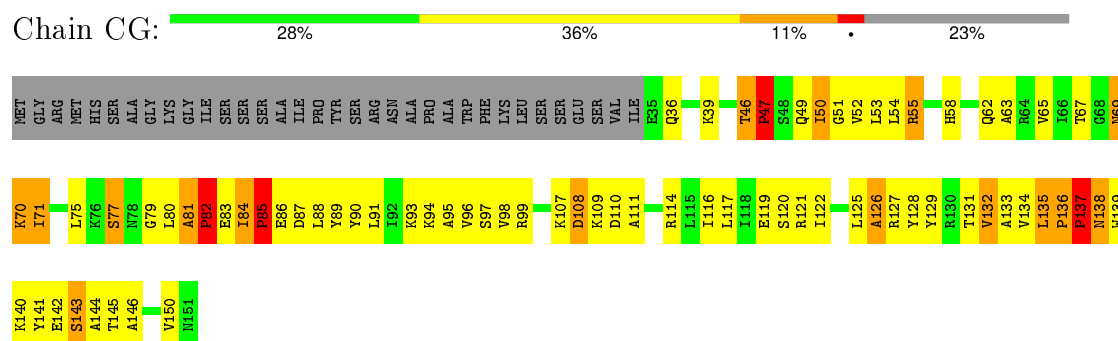
- Molecule 7: 40S ribosomal protein S11



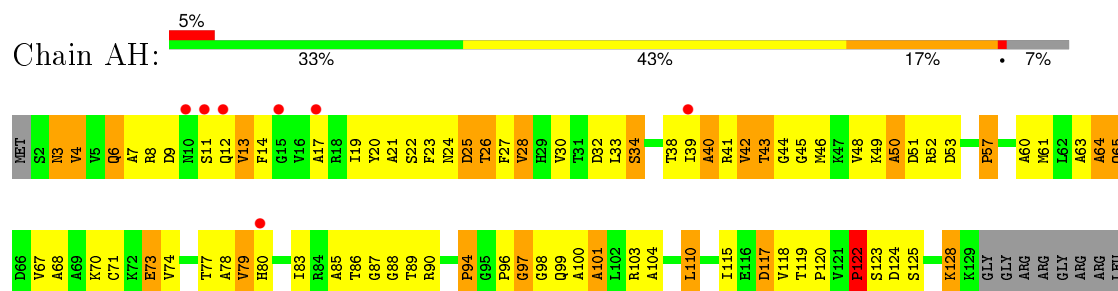
- Molecule 8: 40S ribosomal protein S13



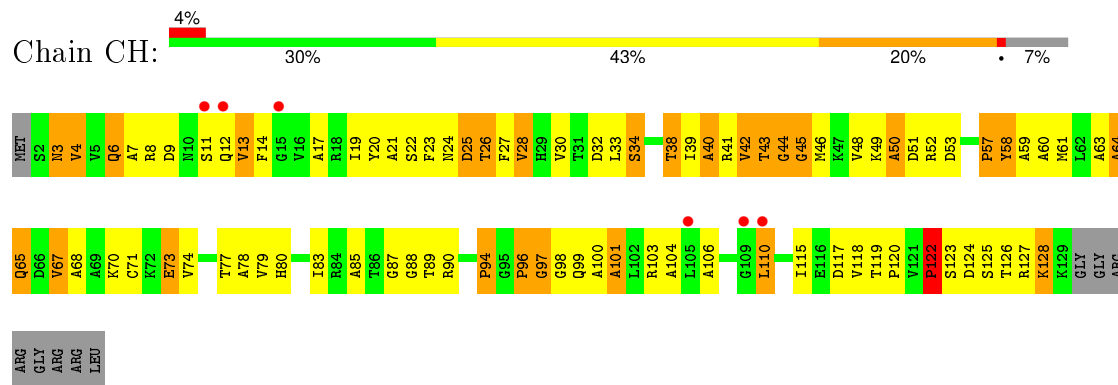
- Molecule 8: 40S ribosomal protein S13



- Molecule 9: 40S ribosomal protein S14-A

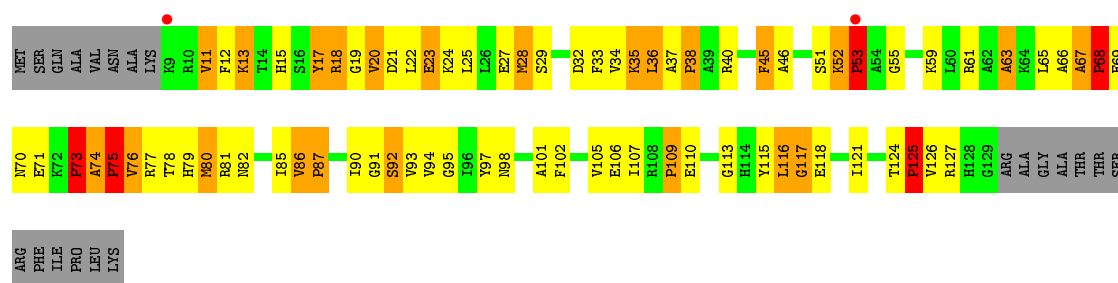


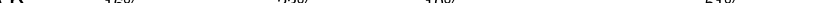
- Molecule 9: 40S ribosomal protein S14-A

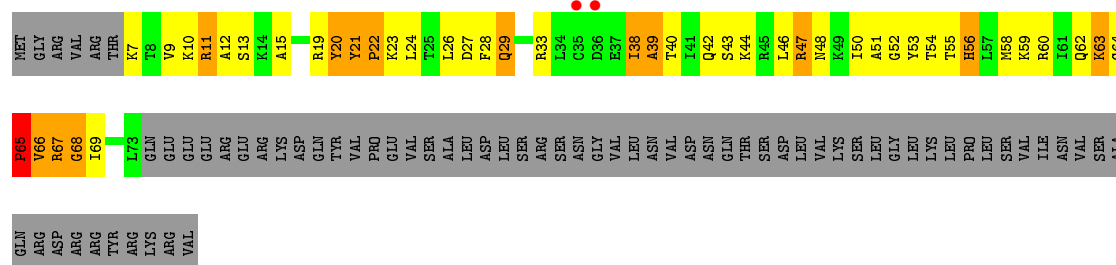


- Molecule 10: 40S ribosomal protein S15

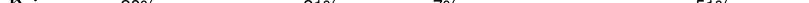


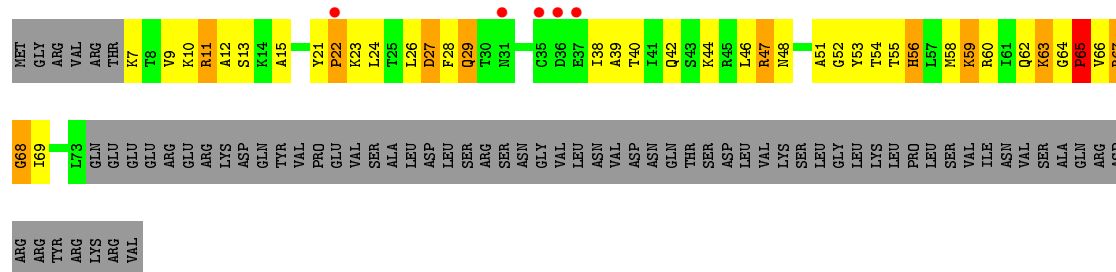


Chain AK:  16% 23% 10% 51%



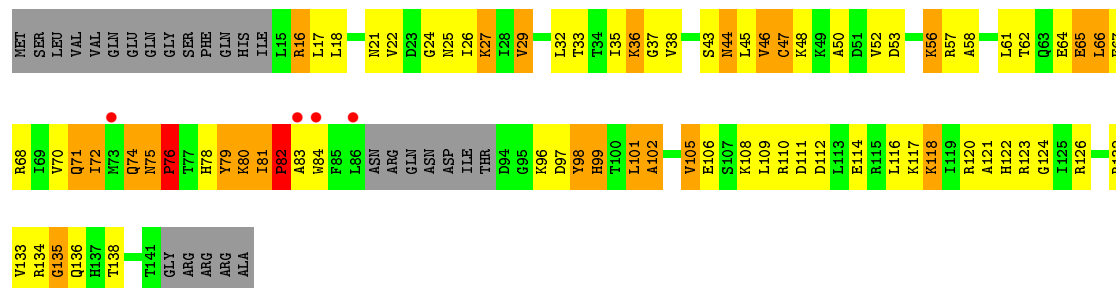
- Molecule 12: 40S ribosomal protein S17-A

Chain CK: 



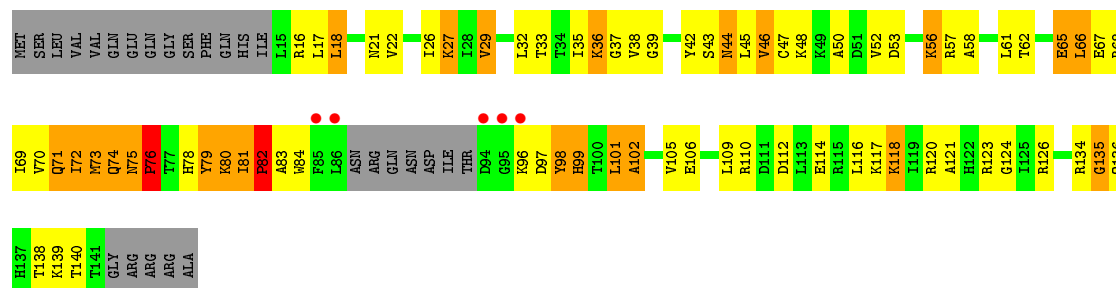
- Molecule 13: 40S ribosomal protein S18

Chain AL: 

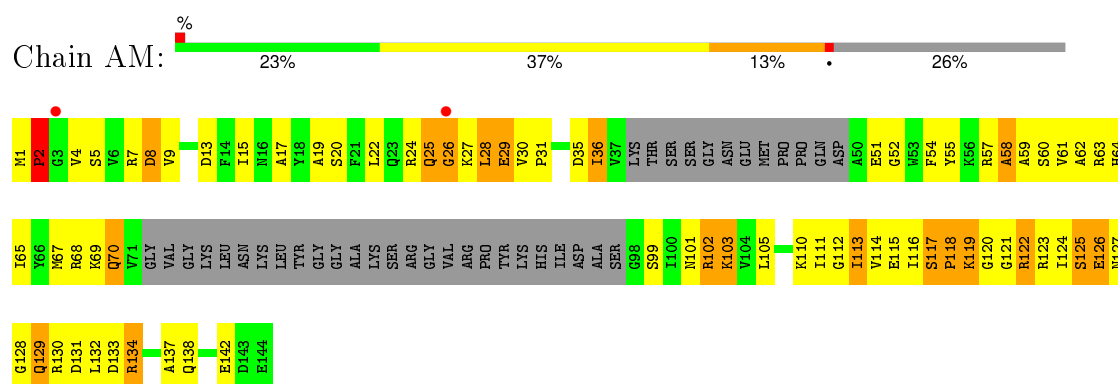


- Molecule 13: 40S ribosomal protein S18

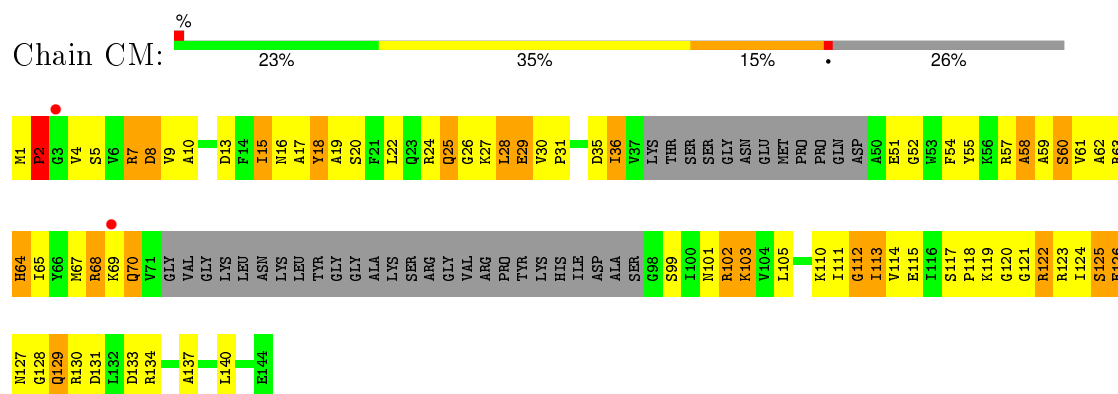
Chain CL: 



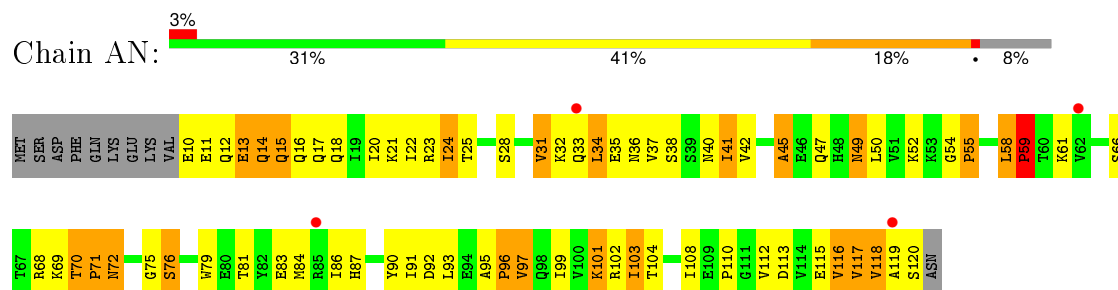
- Molecule 14: 40S ribosomal protein S19-A



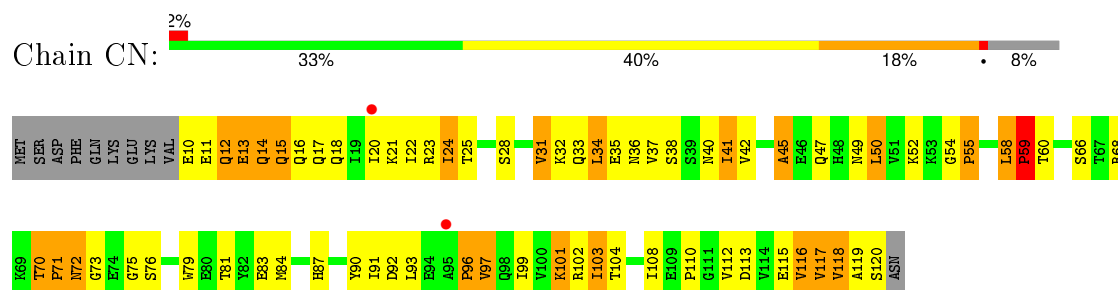
• Molecule 14: 40S ribosomal protein S19-A



• Molecule 15: 40S ribosomal protein S20

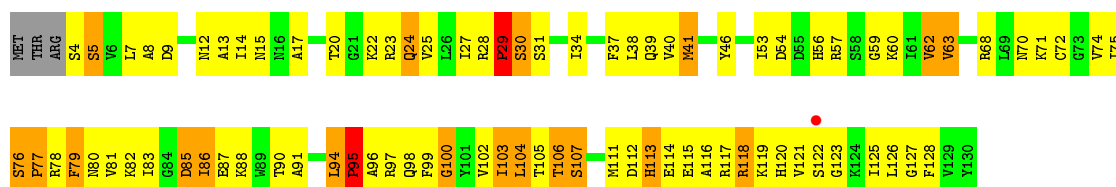


• Molecule 15: 40S ribosomal protein S20

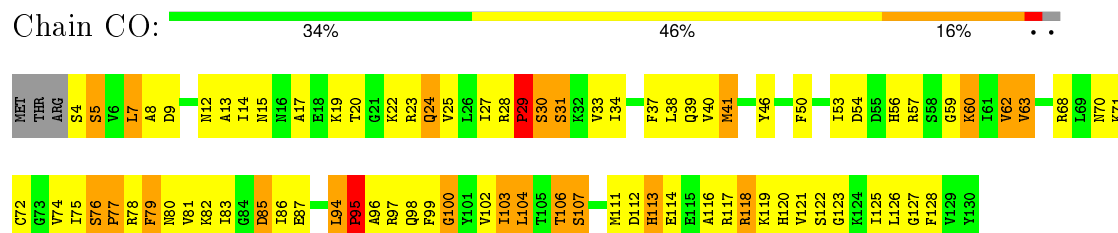


• Molecule 16: 40S ribosomal protein S22-A

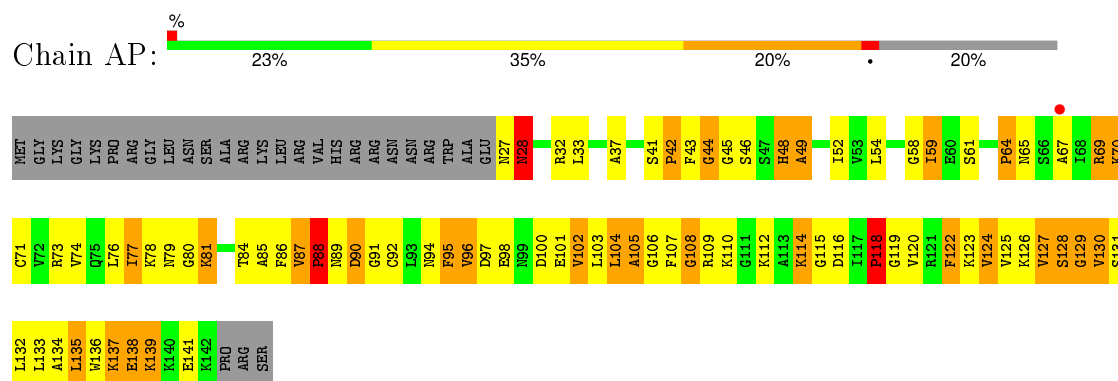




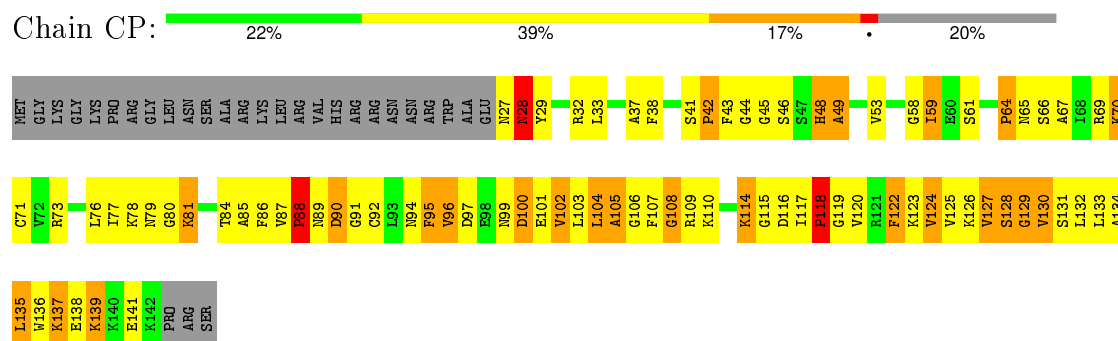
• Molecule 16: 40S ribosomal protein S22-A



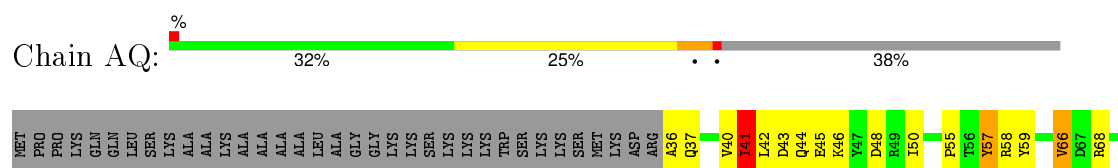
• Molecule 17: 40S ribosomal protein S23

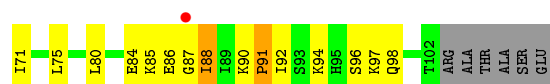


• Molecule 17: 40S ribosomal protein S23

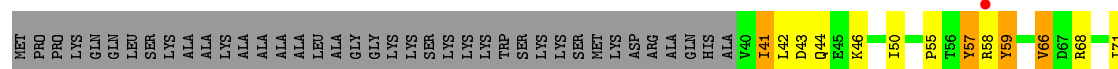
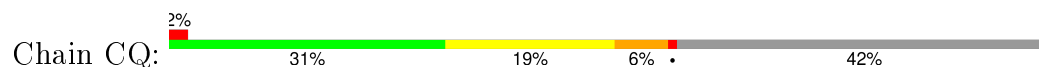


• Molecule 18: 40S ribosomal protein S25-A

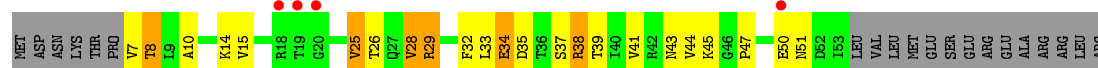




- Molecule 18: 40S ribosomal protein S25-A



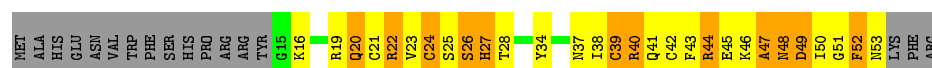
- Molecule 19: 40S ribosomal protein S28-A



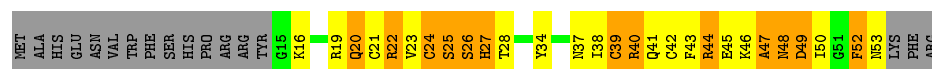
- Molecule 19: 40S ribosomal protein S28-A



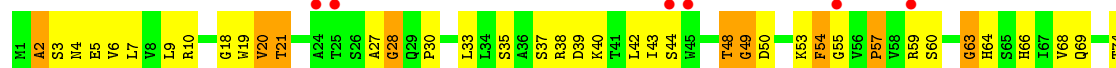
- Molecule 20: 40S ribosomal protein S29-A

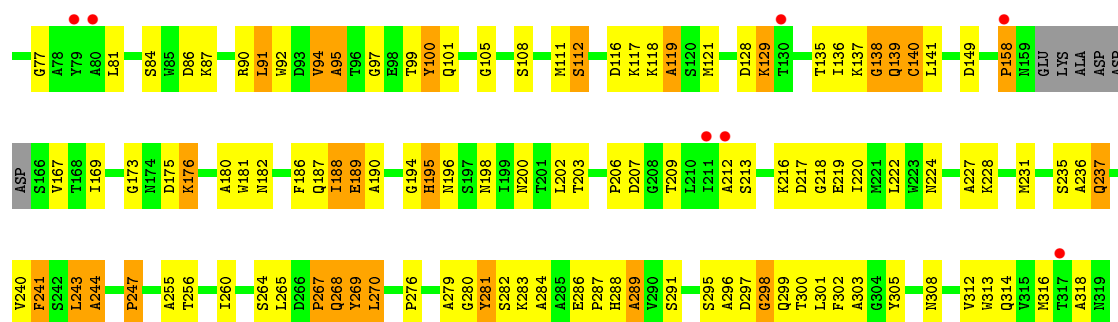


- Molecule 20: 40S ribosomal protein S29-A

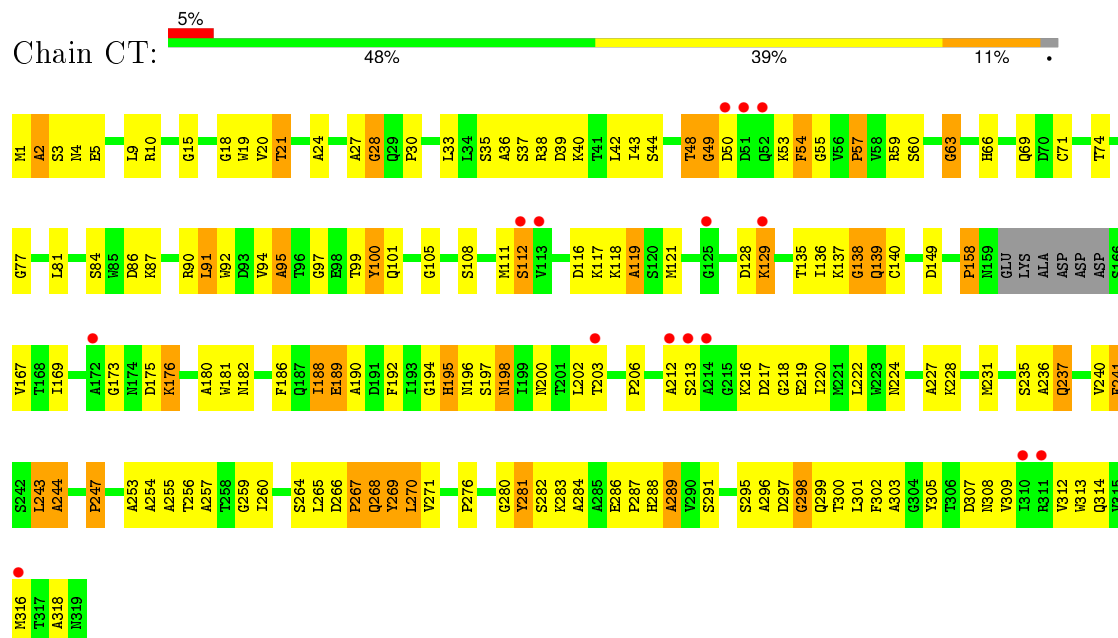


- Molecule 21: Guanine nucleotide-binding protein subunit beta-like protein; RACK-1





- Molecule 21: Guanine nucleotide-binding protein subunit beta-like protein; RACK-1



- Molecule 22: Unassigned secondary structure

Chain Aa: 100%

There are no outlier residues recorded for this chain.

- Molecule 22: Unassigned secondary structure

Chain Bo: 95% 5%



- Molecule 22: Unassigned secondary structure

Chain Ca: 100%

There are no outlier residues recorded for this chain.

- Molecule 23: Unassigned secondary structure

Chain Ab:  99%



- Molecule 23: Unassigned secondary structure

Chain Cb:  99%



- Molecule 24: Unassigned secondary structure

Chain Ac:  99%



- Molecule 24: Unassigned secondary structure

Chain Cc:  100%

There are no outlier residues recorded for this chain.

- Molecule 25: Unassigned secondary structure

Chain Ad:  100%

There are no outlier residues recorded for this chain.

- Molecule 25: Unassigned secondary structure

Chain Cd:  100%

There are no outlier residues recorded for this chain.

- Molecule 26: Unassigned secondary structure

Chain Ae:  100%

There are no outlier residues recorded for this chain.

- Molecule 26: Unassigned secondary structure

Chain Bj:  100%

There are no outlier residues recorded for this chain.

- Molecule 26: Unassigned secondary structure

Chain Dj:  100%

There are no outlier residues recorded for this chain.

- Molecule 27: Unassigned secondary structure

Chain Af: 100%

There are no outlier residues recorded for this chain.

- Molecule 28: Unassigned secondary structure

Chain Ah:  100%

There are no outlier residues recorded for this chain.

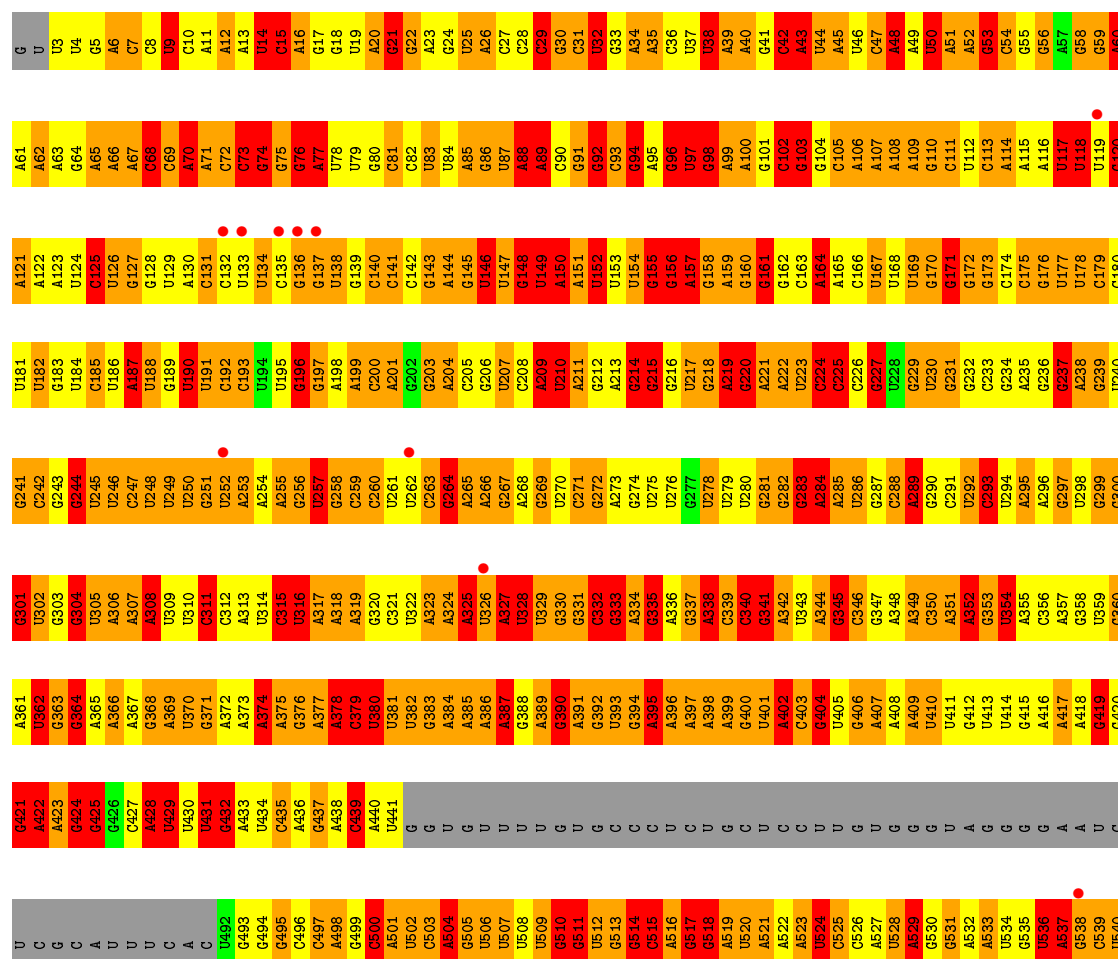
- Molecule 28: Unassigned secondary structure

Chain Ch:  100%

There are no outlier residues recorded for this chain.

- Molecule 29: 25S ribosomal RNA

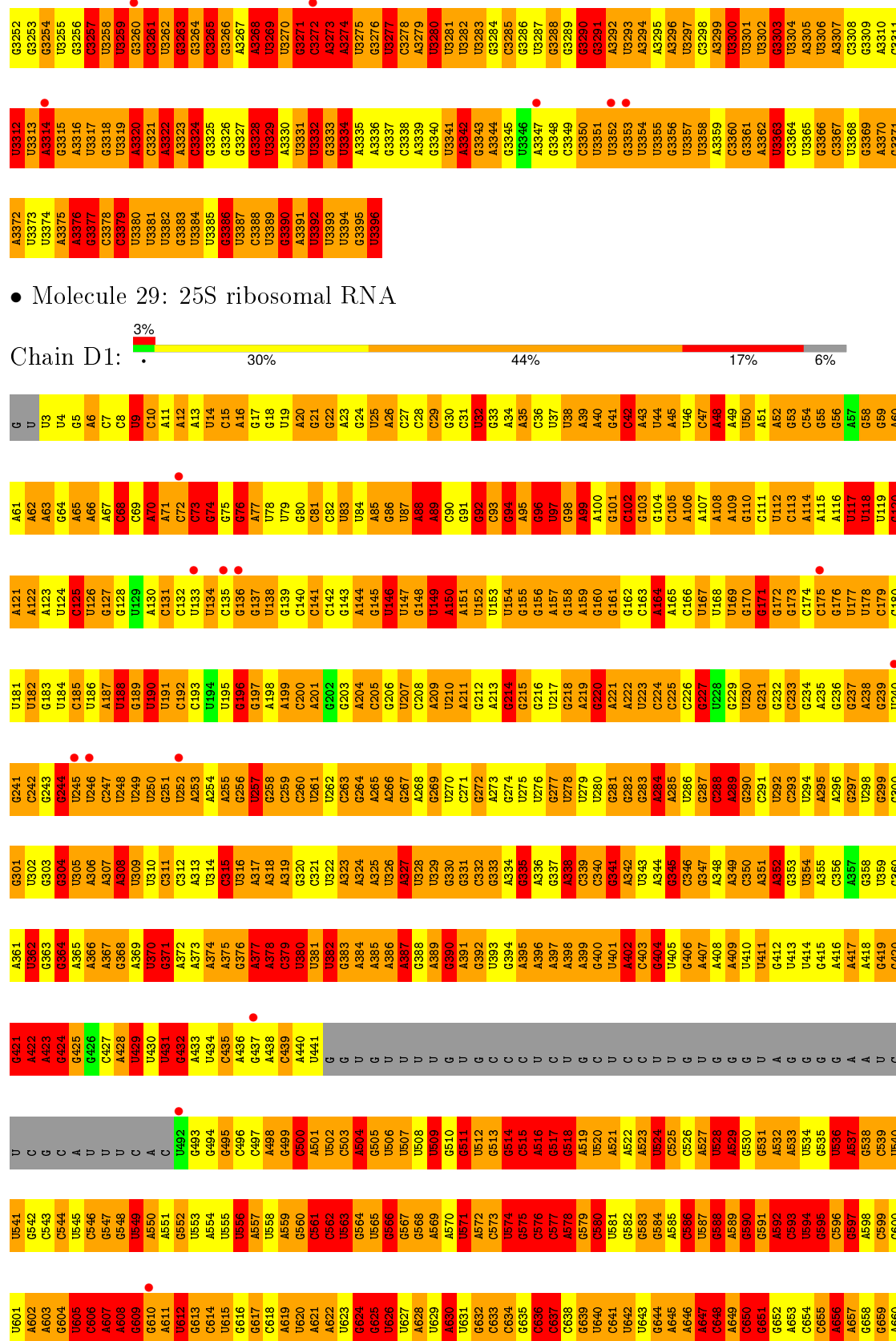
Chain B1: 



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C1385	G1263	A1263	G1083	U1022	G902	G842	U782	U662	A602	G642
A1386	U1264	G1264	A1084	C1023	U903	A843	A783	C863	A603	C543
G1387	U1265	A1265	A1085	G1024	A904	A844	U724	U664	G604	C544
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C1394	A1212	G1212	C1092	C1031	C911	U851	U731	U671	A611	A551
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G1396	U1214	U1214	U1094	U1033	A913	U853	G733	U673	G613	U553
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U1398	C1216	G1216	U1096	G1035	A915	U855	A735	C875	U615	U555
A1399	A1217	G1217	G1097	A1036	G916	G856	A736	C876	G616	U556
G1400	U1218	A1218	A1098	C1037	U917	G857	A737	A677	G617	A557
A1401	C1219	G1219	A1099	U1038	C918	A858	A738	G678	C618	U558
G1402	U1220	U1220	U1100	U1039	U919	G859	G739	U679	A619	A559
C1403	G1281	A1281	G1101	A1040	A920	G860	G740	G680	U620	G560
U1404	U1282	C1282	A1102	U1041	A921	C861	U741	U681	A621	C561
A1405	A1283	G1283	A1103	U1042	U922	U862	G742	U682	C622	C562
U1406	C1284	G1164	G1104	C1043	C923	C863	C743	U683	U623	U563
A1407	G1285	A1165	A1105	G1044	G924	G864	A744	G684	G624	A564
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C1411	G1229	A1169	U1109	A1048	U928	C868	U748	A688	A628	C568
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U1419	C1297	G1177	G1117	U1056	A936	A876	U756	C896	C636	C576
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G1438	U1255	U1196	A1136	U1075	U955	A895	A775	A715	C655	A595
U1439	G1256	C1196	C1137	U1076	U956	A896	U776	A716	A656	C596
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G1441	U1258	C1198	U1138	U1078	C958	U898	U778	G718	G658	A598
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C1443	G1320	A1200	G1140	U1080	U960	G900	C840	A720	A660	G600
			C1141	U1081						

WORLDWIDE
PDB
PROTEIN DATA BANK

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G3200	G3140	G3080	U3020	C2960	C2890	C2840	A2780	G2720	G2660	C2600	A2540	G2475	G2355
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C3229	U3169	G3109	A3049	U2989	C2929	U2869	C2809	G2749	A2689	U2629	A2569	A2444	A2384
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C3232	C3172	G3112	G3052	U2992	U2932	A2872	C2812	U2752	C2692	G2632	C2572	U2508	U2387
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G3249	G3189	A3129	G3069	G3009	U2949	C2889	U2829	A2769	C2709	G2649	G2589	U2466	A2404
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A1503	G1443	G1383	G1323	A1263	A1203	A1143	G1083	C1023	G843	A783	G723	C663
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A1515	U1455	G1395	C1335	U1275	U1215	C1155	U1095	G1035	U855	G795	A735	C675
A1516	A1456	C1396	U1336	U1276	C1216	G1156	U1096	A1036	G856	U796	A736	G676
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U1523	U1463	C1403	A1343	C1283	A1223	A1163	A1103	C1043	C863	C803	C743	U683
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U1533	G1473	G1413	U1353	U1293	G1233	U1173	G1113	A1053	C873	C753	A693	A693
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G1543	G1483	C1423	A1363	A1303	G1243	G1183	U1123	G1063	A883	C823	G763	G703
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A1545	G1485	U1425	G1365	U1305	A1245	C1185	U1125	A1065	U885	U825	C765	A705
A1546	G1486	C1426	A1366	G1306	G1246	G1186	G1126	G1066	C886	G826	U766	A706
G1547	U1427	U1427	G1367	G1307	U1247	C1187	G1127	U1067	G887	A827	U767	U707
C1548	G1488	A1428	U1368	A1308	C1248	U1188	U1128	C1068	A888	A828	C768	G708
U1549	A1489	G1429	A1369	U1309	G1249	A1189	A1129	G1069	U889	U829	G769	A709
C1550	A1490	U1430	G1370	G1310	G1250	A1190	A1130	U1070	C890	A830	G770	A710
C1551	A1491	G1431	C1371	G1311	A1251	U1191	A1131	U1071	C891	G831	A771	A711
G1552	G1492	C1432	C1372	C1312	A1252	C1192	C1132	G1072	U892	G832	U772	G712
U1553	G1493	A1433	A1373	G1313	U1253	A1193	A1133	U1073	C893	G833	G773	U713
G1554	U1494	G1434	G1374	C1314	C1254	G1194	G1134	U1074	G894	U834	G774	G714
U1555	U1495	A1435	G1375	U1315	C1255	A1195	A1135	A1075	A895	G835	A775	A715
C1556	G1496	U1436	C1376	C1316	G1256	G1196	U1136	C1076	A896	A836	U776	A716
A1557	C1497	C1437	G1377	A1317	C1257	A1197	C1137	U1077	U897	A837	U777	C717
A1558	U1498	U1438	G1378	A1318	U1258	C1198	U1138	U1078	G898	G838	U778	G718
C1559	C1499	G1439	U1379	A1319	A1259	C1199	G1139	U1079	U899	G839	G779	U719
G1560	G1500	G1440	G1380	C1320	A1260	A1200	G1140	A1080	G900	C840	A780	A720

A2402	U1561	A1821	U1681	U1741	U1801	U1862	A1922	G	G	U1001	U1061	U1121	U1181	U1241	U1301	U1361	U1421	U1481	U1541	U1601	U1661	U1721	U1781	U1841	U1901	U1961	U2021	U2081	U2141	U2201	U2261	U2321	U2381	U2441	U2501	U2561	U2621	U2681	U2741	U2801	U2861	U2921	U2981	U3041	U3101	U3161	U3221	U3281	U3341	U3401	U3461	U3521	U3581	U3641	U3701	U3761	U3821	U3881	U3941	U4001	U4061	U4121	U4181	U4241	U4301	U4361	U4421	U4481	U4541	U4601	U4661	U4721	U4781	U4841	U4901	U4961	U5021	U5081	U5141	U5201	U5261	U5321	U5381	U5441	U5501	U5561	U5621	U5681	U5741	U5801	U5861	U5921	U5981	U6041	U6101	U6161	U6221	U6281	U6341	U6401	U6461	U6521	U6581	U6641	U6701	U6761	U6821	U6881	U6941	U7001	U7061	U7121	U7181	U7241	U7301	U7361	U7421	U7481	U7541	U7601	U7661	U7721	U7781	U7841	U7901	U7961	U8021	U8081	U8141	U8201	U8261	U8321	U8381	U8441	U8501	U8561	U8621	U8681	U8741	U8801	U8861	U8921	U8981	U9041	U9101	U9161	U9221	U9281	U9341	U9401	U9461	U9521	U9581	U9641	U9701	U9761	U9821	U9881	U9941	U10001	U10061	U10121	U10181	U10241	U10301	U10361	U10421	U10481	U10541	U10601	U10661	U10721	U10781	U10841	U10901	U10961	U11021	U11081	U11141	U11201	U11261	U11321	U11381	U11441	U11501	U11561	U11621	U11681	U11741	U11801	U11861	U11921	U11981	U12041	U12101	U12161	U12221	U12281	U12341	U12401	U12461	U12521	U12581	U12641	U12701	U12761	U12821	U12881	U12941	U13001	U13061	U13121	U13181	U13241	U13301	U13361	U13421	U13481	U13541	U13601	U13661	U13721	U13781	U13841	U13901	U13961	U14021	U14081	U14141	U14201	U14261	U14321	U14381	U14441	U14501	U14561	U14621	U14681	U14741	U14801	U14861	U14921	U14981	U15041	U15101	U15161	U15221	U15281	U15341	U15401	U15461	U15521	U15581	U15641	U15701	U15761	U15821	U15881	U15941	U16001	U16061	U16121	U16181	U16241	U16301	U16361	U16421	U16481	U16541	U16601	U16661	U16721	U16781	U16841	U16901	U16961	U17021	U17081	U17141	U17201	U17261	U17321	U17381	U17441	U17501	U17561	U17621	U17681	U17741	U17801	U17861	U17921	U17981	U18041	U18101	U18161	U18221	U18281	U18341	U18401	U18461	U18521	U18581	U18641	U18701	U18761	U18821	U18881	U18941	U19001	U19061	U19121	U19181	U19241	U19301	U19361	U19421	U19481	U19541	U19601	U19661	U19721	U19781	U19841	U19901	U19961	U20021	U20081	U20141	U20201	U20261	U20321	U20381	U20441	U20501	U20561	U20621	U20681	U20741	U20801	U20861	U20921	U20981	U21041	U21101	U21161	U21221	U21281	U21341	U21401	U21461	U21521	U21581	U21641	U21701	U21761	U21821	U21881	U21941	U22001	U22061	U22121	U22181	U22241	U22301	U22361	U22421	U22481	U22541	U22601	U22661	U22721	U22781	U22841	U22901	U22961	U23021	U23081	U23141	U23201	U23261	U23321	U23381	U23441	U23501	U23561	U23621	U23681	U23741	U23801	U23861	U23921	U23981	U24041	U24101	U24161	U24221	U24281	U24341	U24401	U24461	U24521	U24581	U24641	U24701	U24761	U24821	U24881	U24941	U25001	U25061	U25121	U25181	U25241	U25301	U25361	U25421	U25481	U25541	U25601	U25661	U25721	U25781	U25841	U25901	U25961	U26021	U26081	U26141	U26201	U26261	U26321	U26381	U26441	U26501	U26561	U26621	U26681	U26741	U26801	U26861	U26921	U26981	U27041	U27101	U27161	U27221	U27281	U27341	U27401	U27461	U27521	U27581	U27641	U27701	U27761	U27821	U27881	U27941	U28001	U28061	U28121	U28181	U28241	U28301	U28361	U28421	U28481	U28541	U28601	U28661	U28721	U28781	U28841	U28901	U28961	U29021	U29081	U29141	U29201	U29261	U29321	U29381	U29441	U29501	U29561	U29621	U29681	U29741	U29801	U29861	U29921	U29981	U30041	U30101	U30161	U30221	U30281	U30341	U30401	U30461	U30521	U30581	U30641	U30701	U30761	U30821	U30881	U30941	U31001	U31061	U31121	U31181	U31241	U31301	U31361	U31421	U31481	U31541	U31601	U31661	U31721	U31781	U31841	U31901	U31961	U32021	U32081	U32141	U32201	U32261	U32321	U32381	U32441	U32501	U32561	U32621	U32681	U32741	U32801	U32861	U32921	U32981	U33041	U33101	U33161	U33221	U33281	U33341	U33401	U33461	U33521	U33581	U33641	U33701	U33761	U33821	U33881	U33941	U34001	U34061	U34121	U34181	U34241	U34301	U34361	U34421	U34481	U34541	U34601	U34661	U34721	U34781	U34841	U34901	U34961	U35021	U35081	U35141	U35201	U35261	U35321	U35381	U35441	U35501	U35561	U35621	U35681	U35741	U35801	U35861	U35921	U35981	U36041	U36101	U36161	U36221	U36281	U36341	U36401	U36461	U36521	U36581	U36641	U36701	U36761	U36821	U36881	U36941	U37001	U37061	U37121	U37181	U37241	U37301	U37361	U37421	U37481	U37541	U37601	U37661	U37721	U37781	U37841	U37901	U37961	U38021	U38081	U38141	U38201	U38261	U38321	U38381	U38441	U38501	U38561	U38621	U38681	U38741	U38801	U38861	U38921	U38981	U39041	U39101	U39161	U39221	U39281	U39341	U39401	U39461	U39521	U39581	U39641	U39701	U39761	U39821	U39881	U39941	U40001	U40061	U40121	U40181	U40241	U40301	U40361	U40421	U40481	U40541	U40601	U40661	U40721	U40781	U40841	U40901	U40961	U41021	U41081	U41141	U41201	U41261	U41321	U41381	U41441	U41501	U41561	U41621	U41681	U41741	U41801	U41861	U41921	U41981	U42041	U42101	U42161	U42221	U42281	U42341	U42401	U42461	U42521	U42581	U42641	U42701	U42761	U42821	U42881	U42941	U43001	U43061	U43121	U43181	U43241	U43301	U43361	U43421	U43481	U43541	U43601	U43661	U43721	U43781	U43841	U43901	U43961	U44021	U44081	U44141	U44201	U44261	U44321	U44381	U44441	U44501	U44561	U44621	U4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U3304	A3244	G3124	U3064	C3004	U2944	C2884	G2824	C2764	A2704	C2644	G2584	A2523	A2462
A3305	A3245	U3125	G3065	A3005	G2945	C2885	C2825	C2765	A2705	G2645	G2585	A2524	G2463
U3306	G3246	C3126	U3066	A3006	A2946	U2886	U2826	U2766	G2706	C2646	G2586	A2525	U2464
A3307	A3247	A3127	U3067	U3007	G2947	U2887	U2827	U2767	C2707	C2647	U2587	G2526	G2465
C3308	C3248	G3128	U3068	A3008	G2948	U2888	G2828	U2768	C2708	G2648	U2588	G2527	G2466
G3309	C3249	A3129	G3069	G3009	U2949	U2889	U2829	A2769	G2709	A2649	U2589	G2528	G2467
A3310	U3250	A3130	A3070	U3010	G2950	A2890	G2830	G2770	C2710	U2650	A2590	A2468	
U3311	U3251	U3131	U3071	A3011	G2951	U2891	G2831	U2771	C2711	G2651	A2591	G2469	
C3312	U3192	C3132	C3072	A3012	G2952	A2892	C2832	U2772	U2712	U2652	G2592	G2470	
A3313	C3193	C3133	A3073	U3013	U2953	C2893	A2833	C2773	U2713	C2653	C2593	U2471	
G3314	C3194	A3134	G3074	U3014	U2954	C2894	G2834	C2774	G2714	C2654	C2594	U2472	
U3315	U3195	U3135	G3075	G3015	U2955	G2895	U2835	U2775	U2715	U2655	A2595	G2473	
A3316	G3256	A3136	G3076	A3016	U2956	A2896	C2836	G2776	U2716	A2656	U2596	G2474	
U3317	C3257	C3137	A3077	A3017	G2957	A2897	A2837	G2777	U2717	A2657	U2597	G2475	
G3318	U3198	U3138	U3078	C3018	A2958	U2898	A2838	G2778	U2718	G2658	U2598	G2476	
U3319	U3199	U3139	U3079	U3019	C2959	U2899	G2839	A2779	U2719	C2659	U2599	C2477	
A3320	G3260	G3140	G3080	U3020	C2960	A2900	U2840	A2780	G2720	G2660	C2600	C2478	
C3321	C3261	C3141	C3081	U3021	G2961	A2901	G2841	U2781	A2721	G2661	C2601	A2484	
U3322	U3262	A3142	C3082	G3022	U2962	A2902	U2842	U2782	U2722	G2662	G2602	A2480	
A3323	G3263	G3143	G3083	U3023	C2963	A2903	U2843	U2783	U2723	C2663	G2603	G2481	
C3324	G3264	A3144	A3084	A3024	G2964	U2904	C2844	G2784	U2724	C2664	G2604	G2482	
G3325	C3265	C3145	G3085	G3025	U2965	U2905	A2845	A2785	U2725	G2665	G2605	G2483	
C3326	G3266	G3146	A3086	G3026	G2966	C2906	U2846	G2786	C2726	C2666	G2606	G2484	
U3327	A3267	G3147	A3087	A3027	A2967	G2907	A2847	G2787	A2727	A2667	G2607	A2485	
G3328	A3268	U3148	G3088	G3028	G2968	G2908	G2848	C2788	G2728	U2668	C2608	A2486	
U3329	U2669	G3149	C3089	A3029	A2969	U2909	C2849	U2789	U2729	G2669	A2609	U2487	
A3330	U3270	A3150	U3090	G3030	C2970	A2910	G2850	A2790	U2730	G2670	G2610	U2550	
U3331	C3271	U3151	A3091	A3031	A2971	A2911	A2851	G2791	U2731	A2671	U2611	U2551	
C3332	C3272	U3152	C3092	A3032	G2972	G2912	C2852	A2792	G2732	G2672	U2612	C2490	
G3333	A3273	U3153	G3093	A3033	G2973	C2913	A2853	G2793	A2733	A2673	U2613	U2553	
U3334	A3274	C3154	A3094	G3034	U2974	G2914	U2854	G2794	A2734	A2674	G2614	C2492	
A3335	U3275	U3155	U3095	A3035	U2975	U2915	U2855	U2795	U2735	C2675	G2615	U2493	
G3336	G3276	U3156	C3096	G3036	A2976	U2916	G2856	G2796	A2736	C2676	C2616	A2494	
U3337	U3277	U3157	U3097	U3037	G2977	G2917	C2857	C2797	G2737	G2677	U2617	C2495	
C3338	C3278	A3158	G3098	U3038	U2978	G2918	U2858	C2798	A2738	A2678	U2618	U2497	
A3339	U3279	C3159	C3099	A3039	U2979	U2919	U2859	A2799	A2739	A2679	G2619	U2498	
G3340	G3280	U3160	U3100	A3040	U2980	U2920	U2860	G2800	A2740	A2680	G2620	C2560	
U3341	U3281	C3161	G3101	U3041	U2981	U2921	U2861	A2801	C2741	U2681	G2621	A2561	
A3342	U3282	C3162	G3102	U3042	A2982	G2922	U2862	A2802	C2742	C2682	G2622	A2562	
C3343	C3283	A3163	A3103	C3043	C2983	U2923	G2863	A2803	A2743	U2683	G2623	G2563	
G3344	G3284	C3164	U3104	G3044	C2984	U2924	A2864	A2804	U2744	C2684	G2624	U2564	
A3345	C3285	A3165	U3105	G3045	C2985	C2925	U2865	G2805	G2745	C2685	C2625	G2565	
U3346	G3286	G3166	A3106	A3046	U2986	A2926	U2866	U2806	A2746	A2686	A2626	C2566	
A3347	U3287	A3167	U3107	U3047	A2987	C2927	C2867	U2807	A2747	G2687	C2627	C2567	
G3348	G3288	A3168	G3108	A3048	C2988	C2928	U2868	A2808	A2748	U2688	A2628	C2568	
C3349	C3289	U3169	G3109	A3049	U2989	C2929	U2869	C2809	G2749	A2689	U2629	A2569	
U3350	G3290	A3170	C3110	U3050	G2990	A2930	C2870	A2810	U2750	G2690	C2630	U2570	
C3351	C3291	U3171	U3111	U3051	A2991	C2931	G2871	A2811	G2751	A2691	U2631	U2571	
U3352	A3292	A3172	G3112	G3052	U2992	U2932	A2872	C2812	U2752	A2692	G2632	G2572	
G3353	U3293	G3173	A3113	G3053	C2993	A2933	U2873	A2813	G2753	C2693	U2633	G2573	
U3354	A3294	A3174	A3114	U3054	A2994	A2934	G2874	C2814	G2754	A2694	U2634	G2574	
C3355	C3295	U3175	C3115	U3055	A2995	U2935	U2875	G2815	C2755	A2695	A2635	C2575	
G3356	U3296	G3176	G3116	U3056	U2996	A2936	C2876	G2816	C2756	A2696	G2636	G2576	
U3357	U3297	C3177	C3117	U3057	G2997	G2937	G2877	A2817	U2757	A2697	A2637	C2577	
C3358	G3298	A3178	G3118	U3058	U2998	G2938	G2878	U2818	A2758	G2698	C2638	U2578	
A3359	U3299	U3179	U3119	G3059	U2999	G2939	C2879	A2819	U2759	G2699	G2639	G2579	
G3360	C3300	A3180	C3120	C3060	A3000	A2940	U2880	A2820	C2760	G2700	A2640	A2580	
U3361	U3301	G3181	A3121	G3061	C3001	A2941	C2881	C2821	G2761	U2701	U2641	U2581	
C3362	C3242	C3182	A3122	C3062	C3002	C2942	U2882	U2822	A2762	A2702	A2642	U2521	
U3363	G3303	A3183	A3123	C3063	G3003	G2943	U2883	G2823	U2763	A2703	A2643	G2522	

C3364
U3365
G3366
C3367
U3368
G3369
A3370
G3371
A3372
U3373
U3374
A3375
A3376
G3377
C3378
C3379
U3380
U3381
U3382
G3383
U3384
U3385
G3386
U3387
C3388
U3389
G3390
A3391
U3392
U3393
U3394
G3395
U3396

• Molecule 30: 5S ribosomal RNA

Chain B2: 2% 35% 45% 21%

G1 G2 U3 U4 G5 C6 G7 G8 C9 C10 A11 U12 A13 A14 U15 U16 A17 A18 C19 A20 A21 G22 A23 A24 G25 C26 A27 C28 C29 G30 U31 U32 U33 C34 C35 C36 G37 U38 C39 C40 G41 A42 A43 U44 C45 A46 C47 U48 G49 U50 A51 G52 U53 U54 A55 A56 G57 C58 U59 G60

U121

• Molecule 30: 5S ribosomal RNA

Chain D2: 33% 44% 22%

G1 G2 U3 U4 G5 C6 G7 G8 C9 C10 A11 U12 A13 A14 U15 U16 A17 A18 C19 A20 A21 G22 A23 A24 G25 C26 A27 C28 C29 G30 U31 U32 U33 C34 C35 C36 G37 U38 C39 C40 G41 A42 A43 U44 C45 A46 C47 U48 G49 U50 A51 G52 U53 U54 A55 A56 G57 C58 U59 G60

U121

• Molecule 31: 5.8S ribosomal RNA

Chain B3: 4% 39% 47% 11%

A1 A2 C3 A4 U5 U6 U7 C8 A9 A10 A11 A12 A13 C14 G15 G16 A17 A18 U19 C20 U21 C22 U23 U24 G25 G26 U27 C28 A29 U30 C31 G32 C33 A34 C35 G36 A37 U38 C39 G40 A41 A42 G43 A44 C45 G46 C47 A48 G49 C50 G51 A52 A53 A54 U55 U56 C57 G58 C59 U60

U121 U122 G123 G124 U125 U126 A127 U128 C129 G130 A131 A132 G133 G134 G135 G136 C137 A138 U139 G140 C141 C142 U143 U144 G145 U146 G147 G148 A149 C150 G151 G152 C153 U154 A155 U156 U157 U158

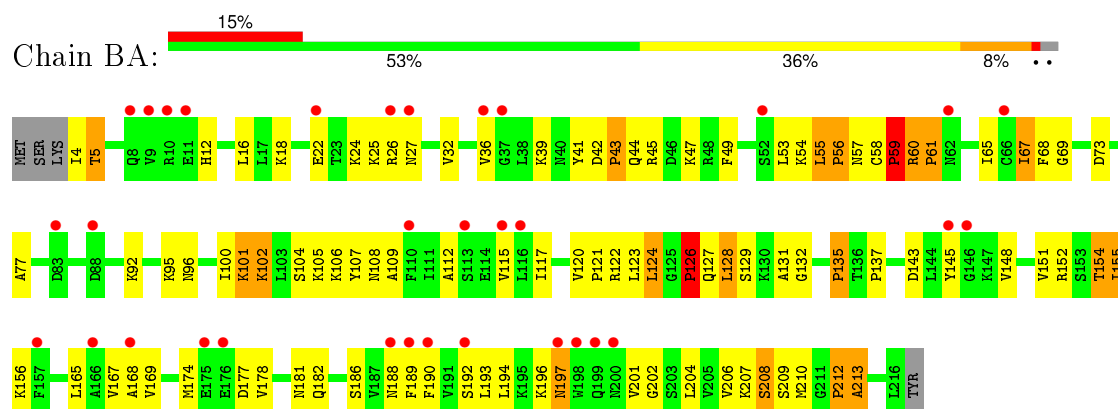
• Molecule 31: 5.8S ribosomal RNA

Chain D3: 2% 41% 50% 6%

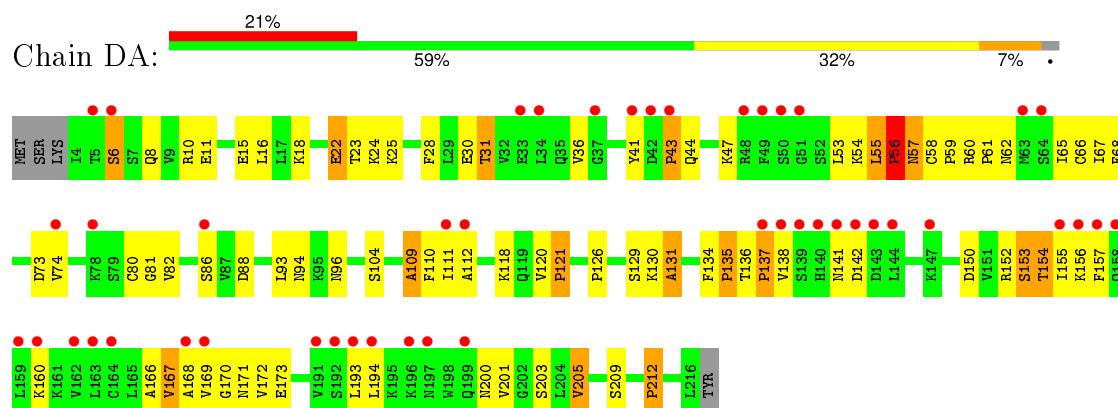
A1 A2 C3 A4 U5 U6 U7 C8 A9 A10 A11 A12 A13 C14 G15 G16 A17 A18 U19 C20 U21 C22 U23 U24 G25 G26 U27 C28 A29 U30 C31 G32 C33 A34 C35 G36 A37 U38 C39 G40 A41 A42 G43 A44 C45 G46 C47 A48 G49 C50 G51 A52 A53 A54 U55 U56 C57 G58 C59 U60



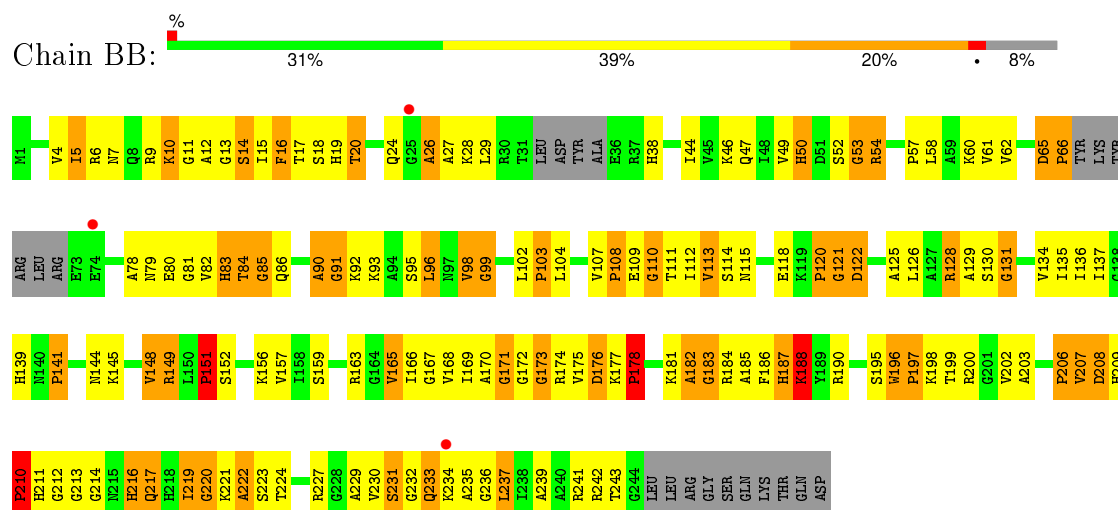
• Molecule 32: 60S ribosomal protein L1



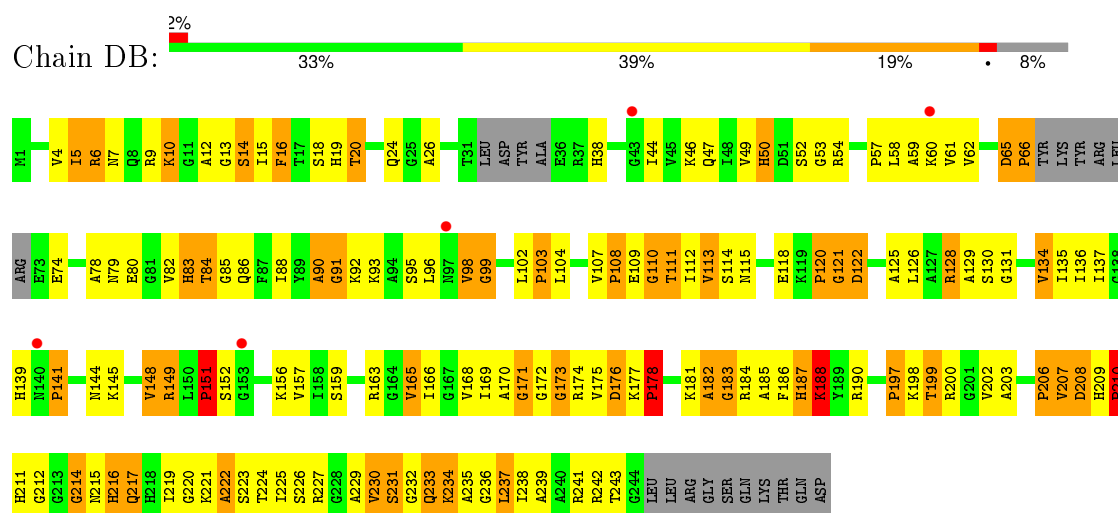
• Molecule 32: 60S ribosomal protein L1



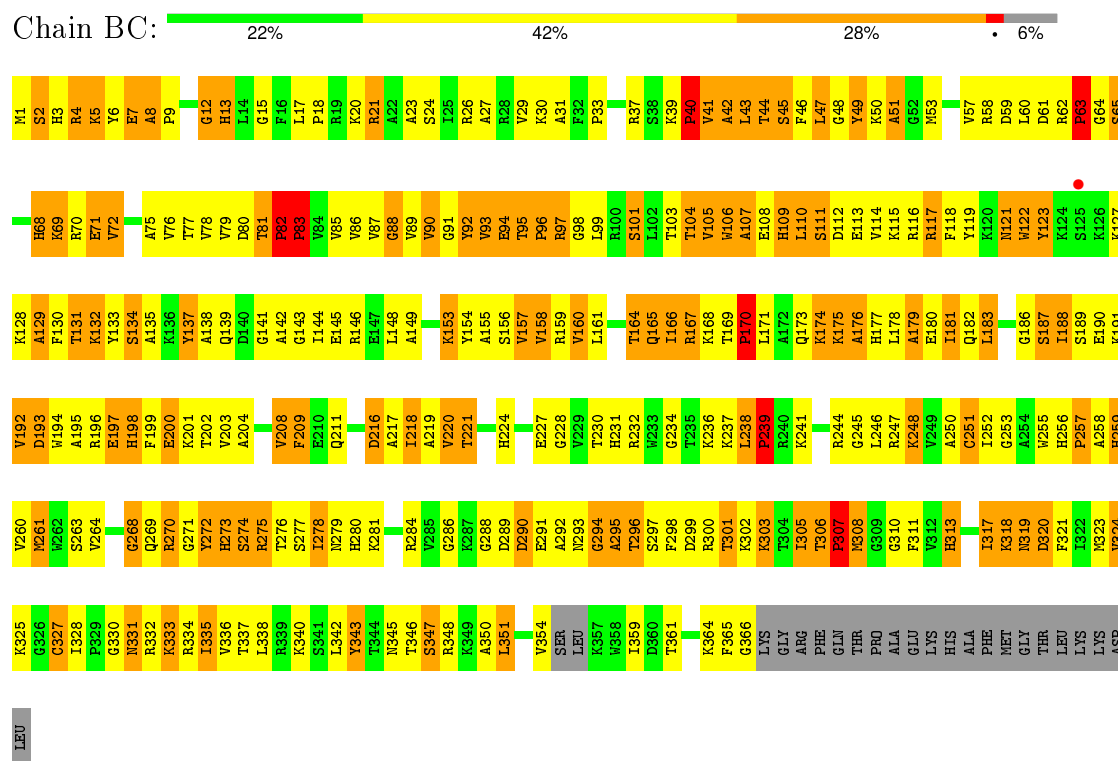
• Molecule 33: 60S ribosomal protein L2



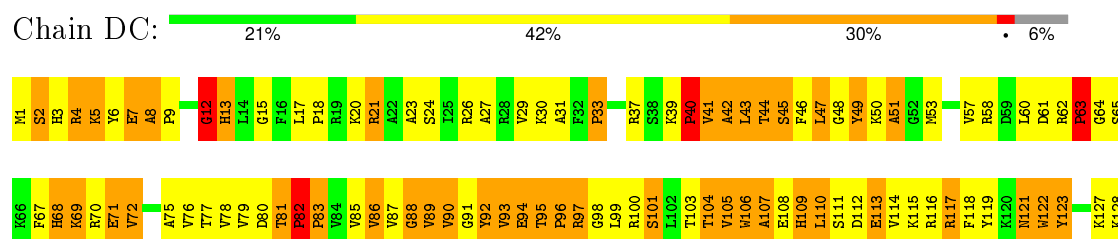
• Molecule 33: 60S ribosomal protein L2

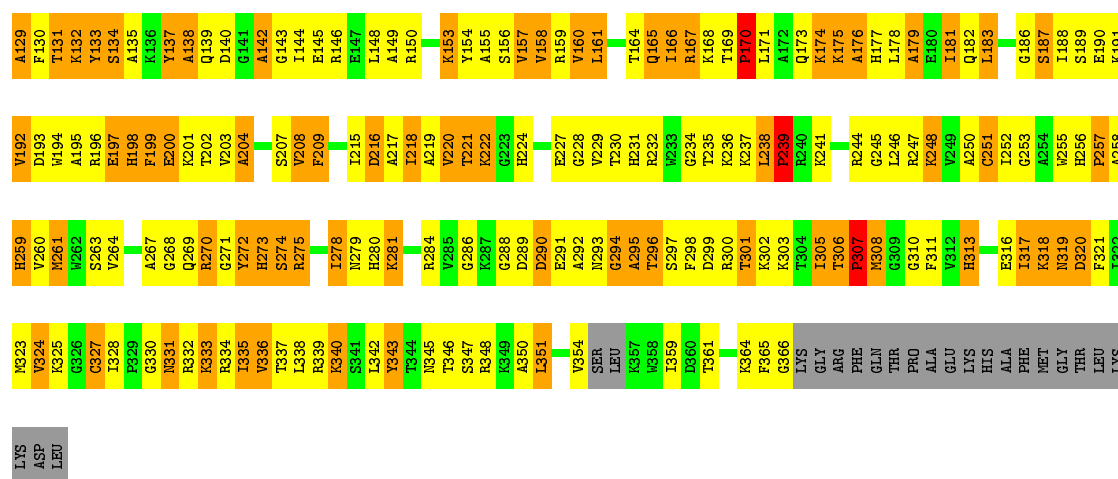


• Molecule 34: 60S ribosomal protein L3

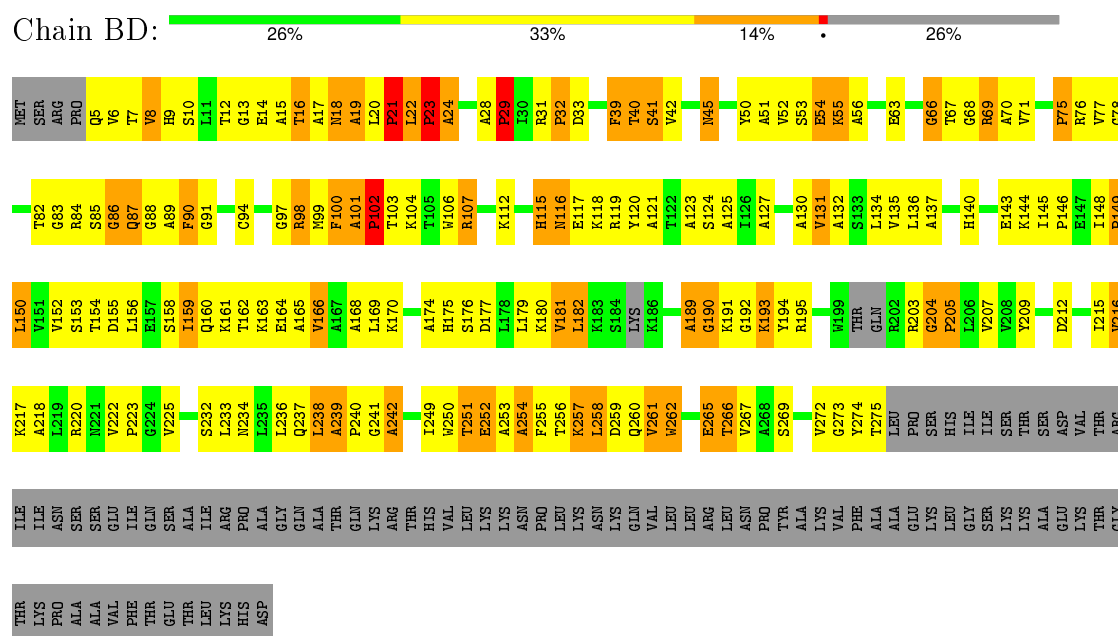


• Molecule 34: 60S ribosomal protein L3

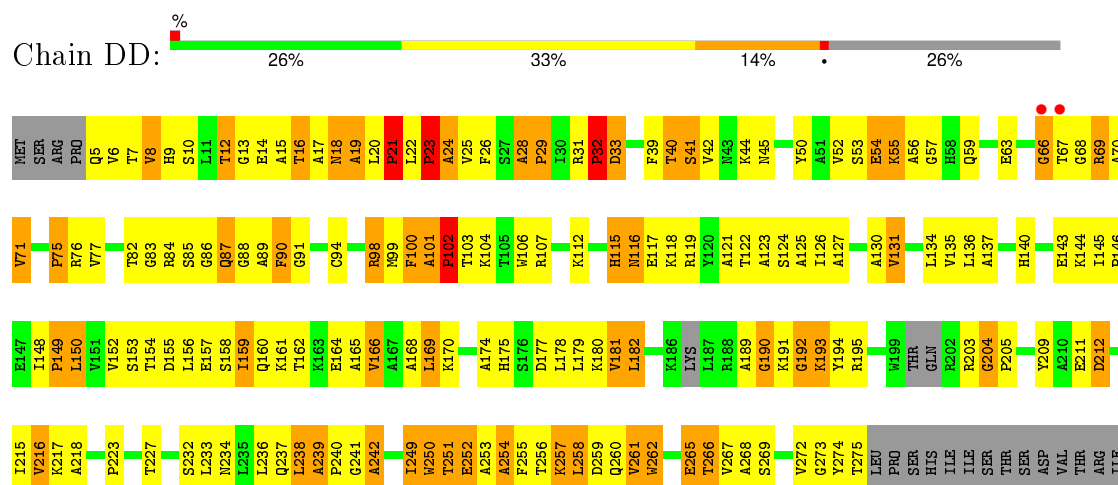




• Molecule 35: 60S ribosomal protein L4-A



• Molecule 35: 60S ribosomal protein L4-A

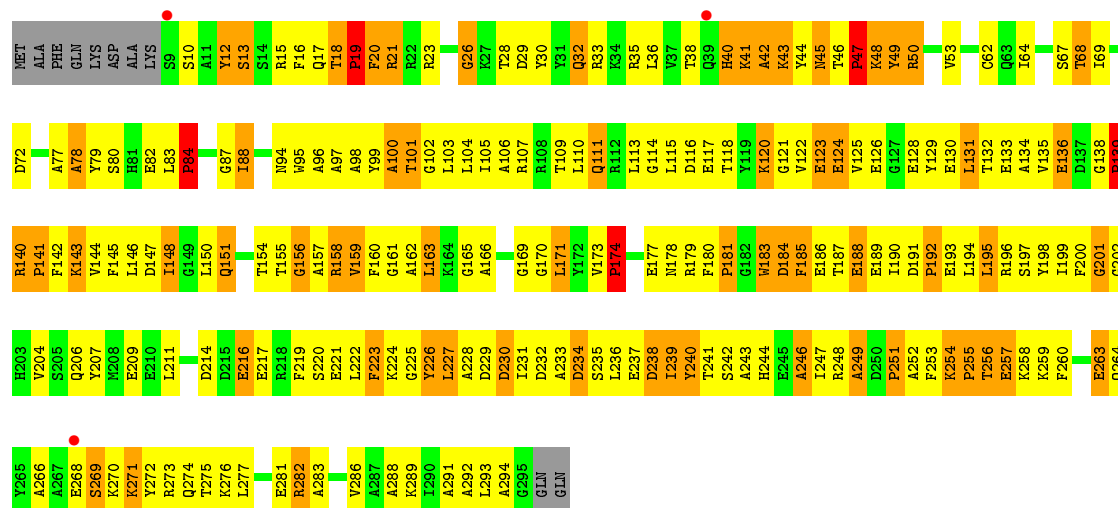


ILE ASN SER SER GLU ILE GLN SER ALA ILE ARG PRO ALA GLY GLN ALA THR THR LYS ARG THR VAL VAL LEU LYS LYS ASN VAL LEU LEU ARG LEU ASN LYS LYS VAL LEU LEU ARG LEU ASN PRO TYR ALA LYS VAL PHE ALA ALA GLU LYS LEU GLY SER GLY SER LYS LYS ALA GLU LYS THR GLY THR

LYS PRO ALA VAL PHE THR THR LEU HIS ASP

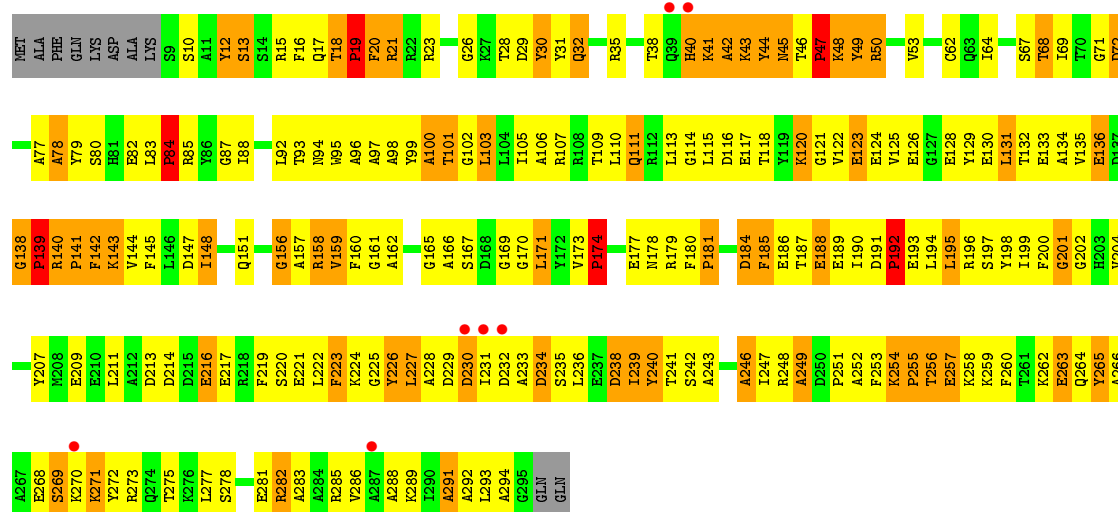
• Molecule 36: 60S ribosomal protein L5

Chain BE: 



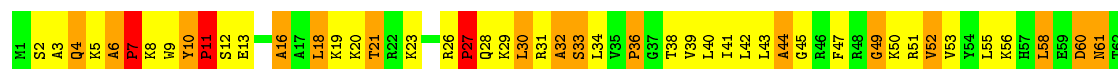
• Molecule 36: 60S ribosomal protein L5

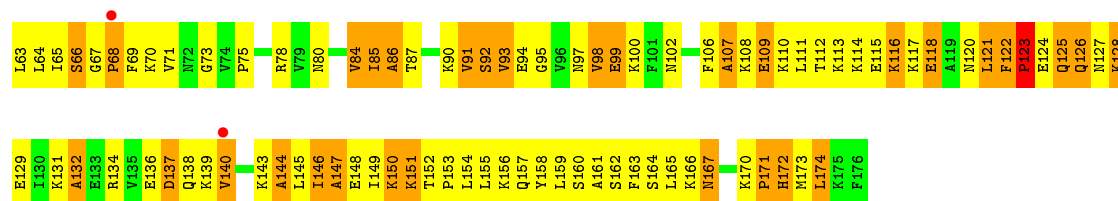
Chain DE: 



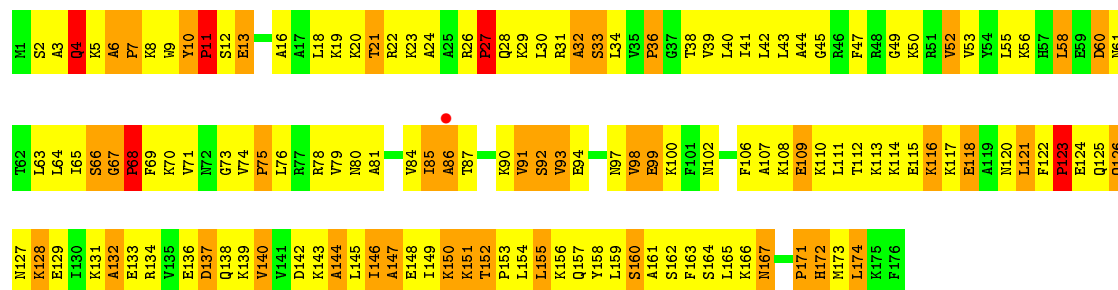
• Molecule 37: 60S ribosomal protein L6-A

Chain BF: 

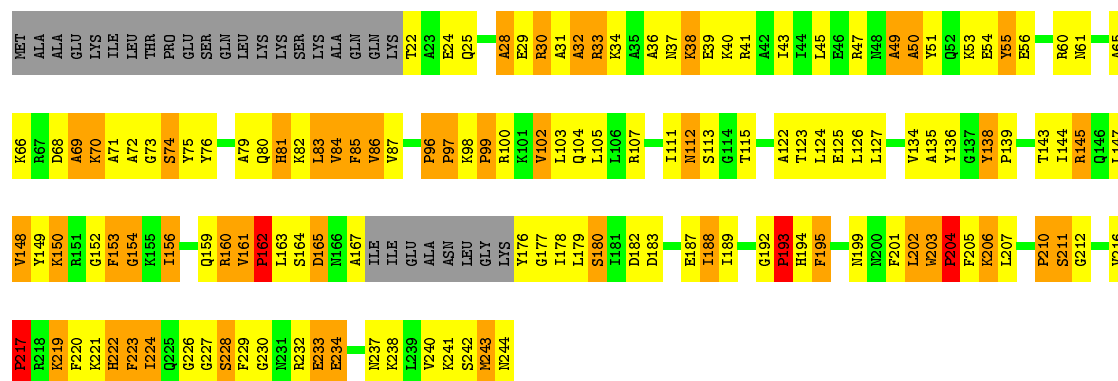




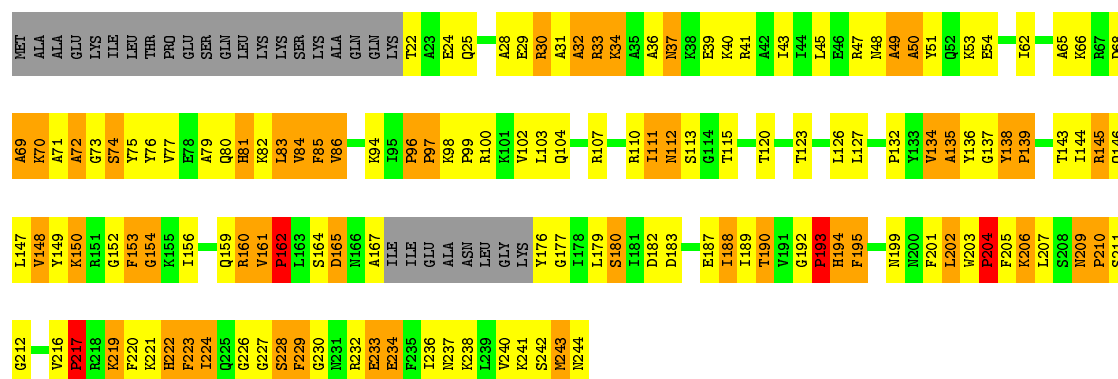
• Molecule 37: 60S ribosomal protein L6-A



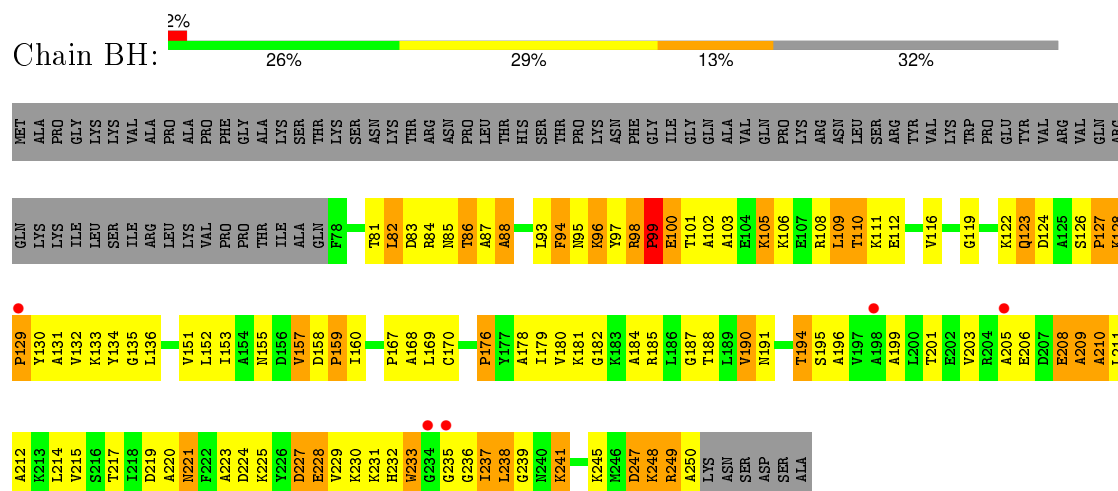
• Molecule 38: 60S ribosomal protein L7-A



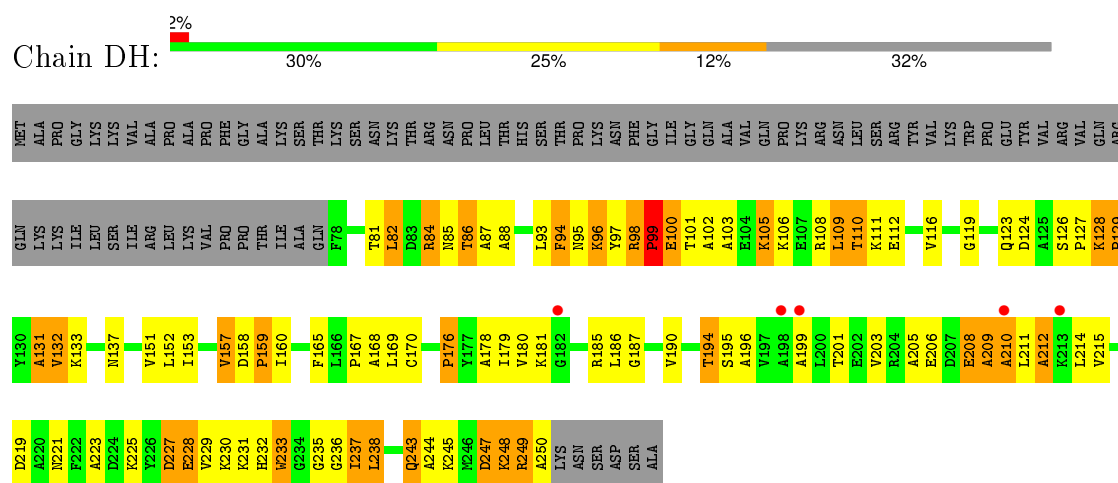
• Molecule 38: 60S ribosomal protein L7-A



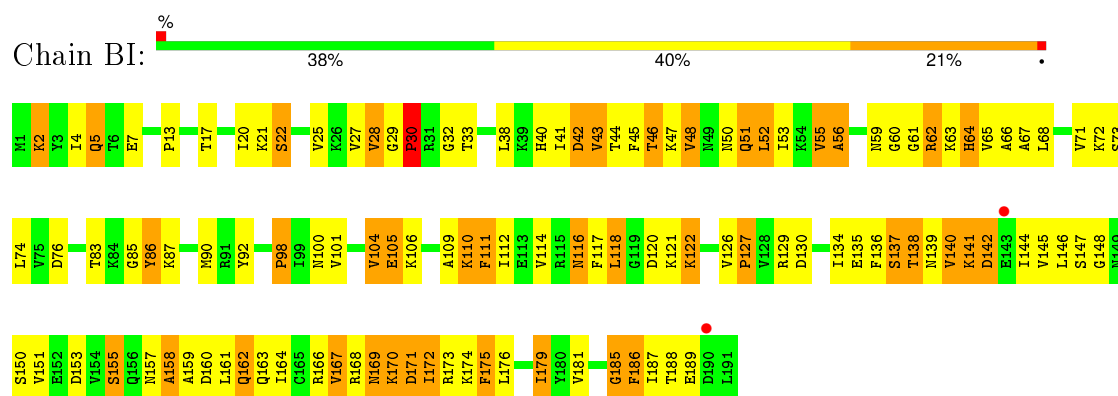
- Molecule 39: 60S ribosomal protein L8-A



- Molecule 39: 60S ribosomal protein L8-A

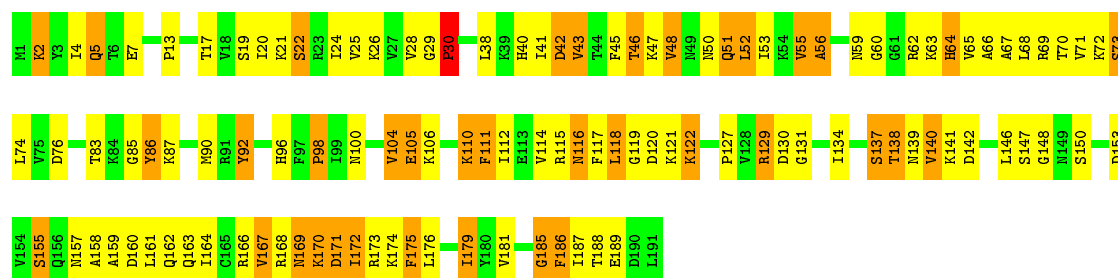


- Molecule 40: 60S ribosomal protein L9-A

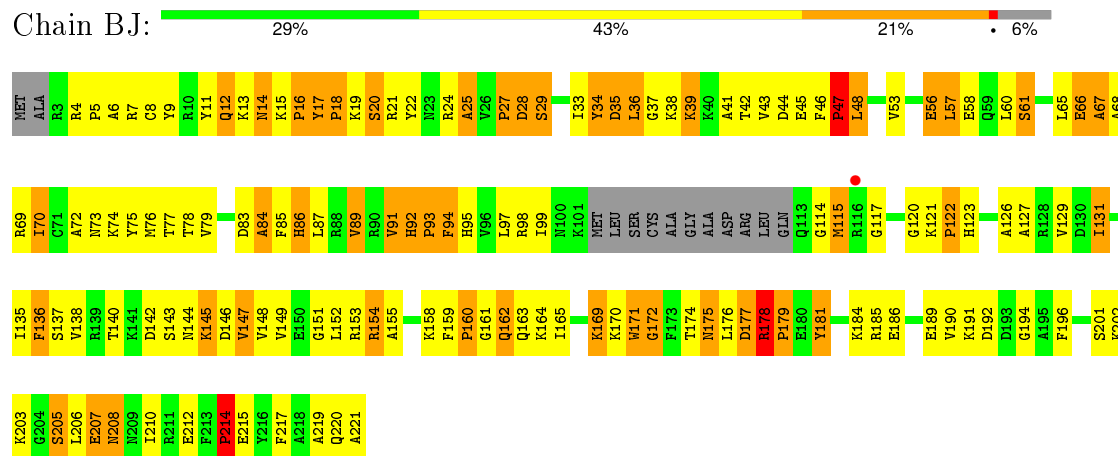


- Molecule 40: 60S ribosomal protein L9-A

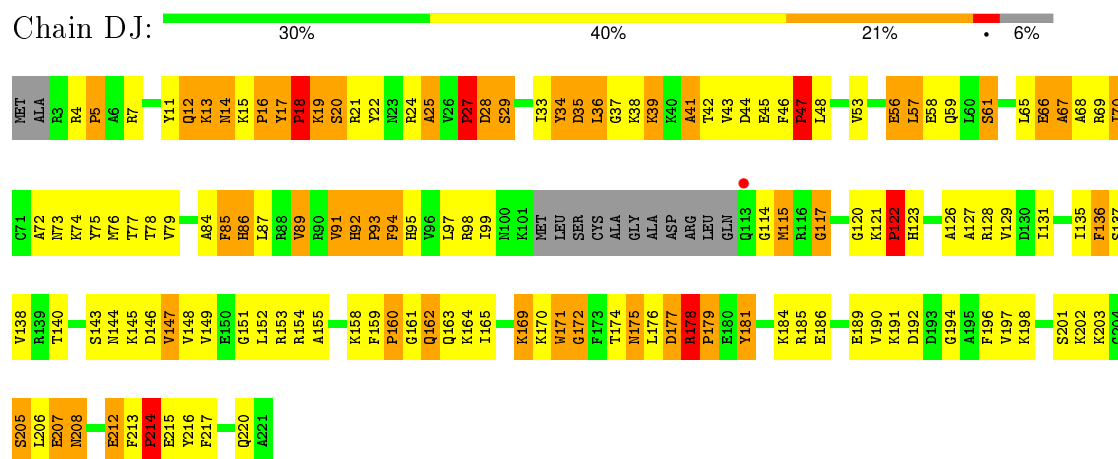




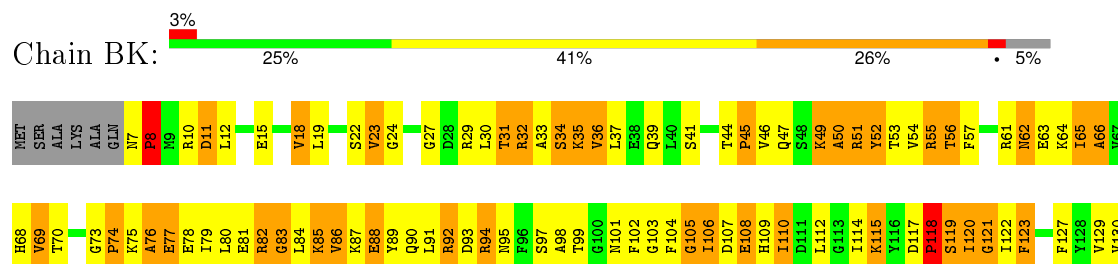
- Molecule 41: 60S ribosomal protein L10



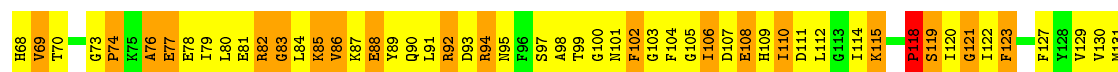
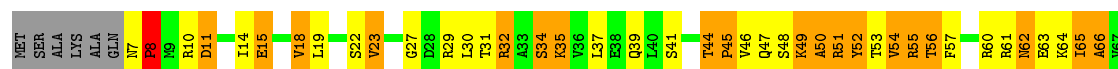
- Molecule 41: 60S ribosomal protein L10



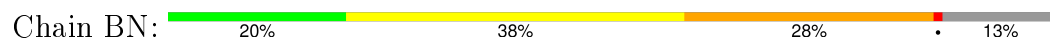
- Molecule 42: 60S ribosomal protein L11-A



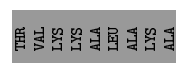
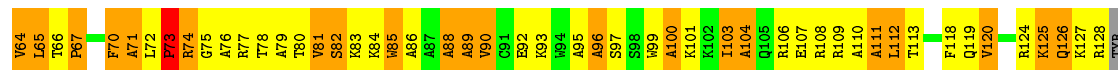
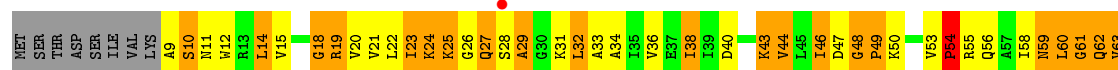
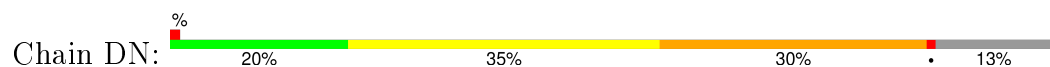
- Molecule 42: 60S ribosomal protein L11-A



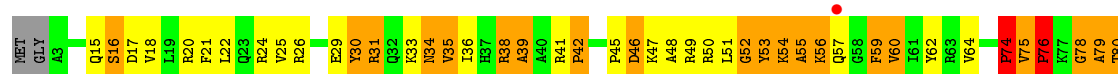
- Molecule 43: 60S ribosomal protein L14-A

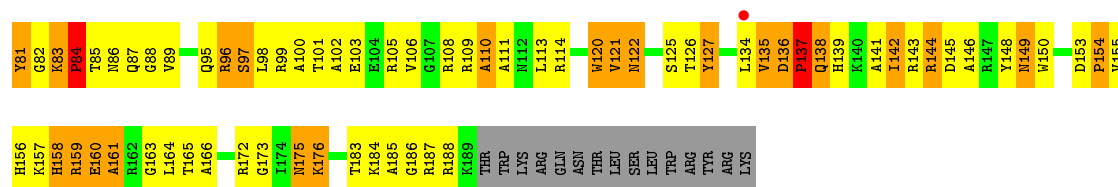


- Molecule 43: 60S ribosomal protein L14-A

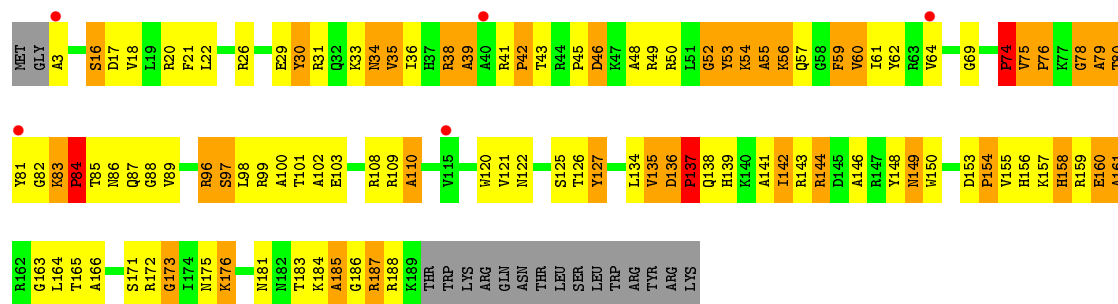


- Molecule 44: 60S ribosomal protein L15-A

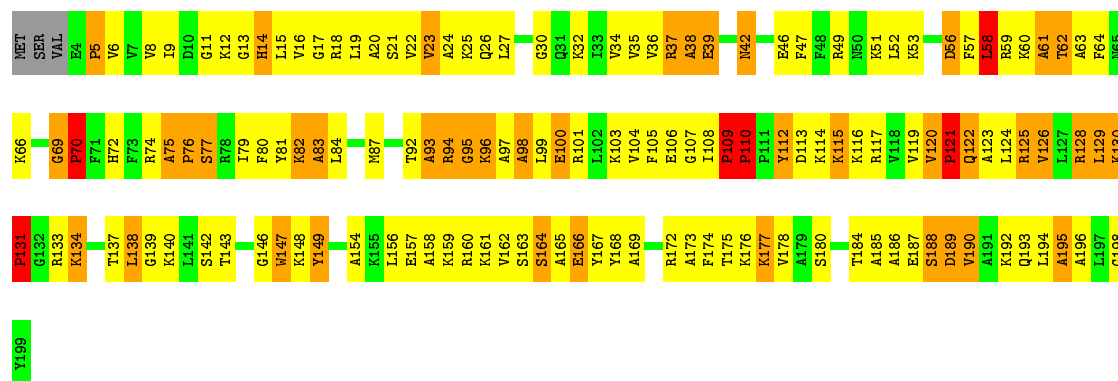




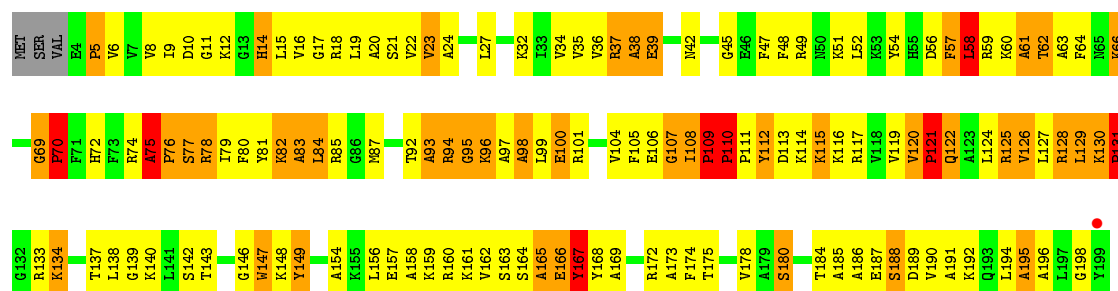
• Molecule 44: 60S ribosomal protein L15-A



• Molecule 45: 60S ribosomal protein L16-A

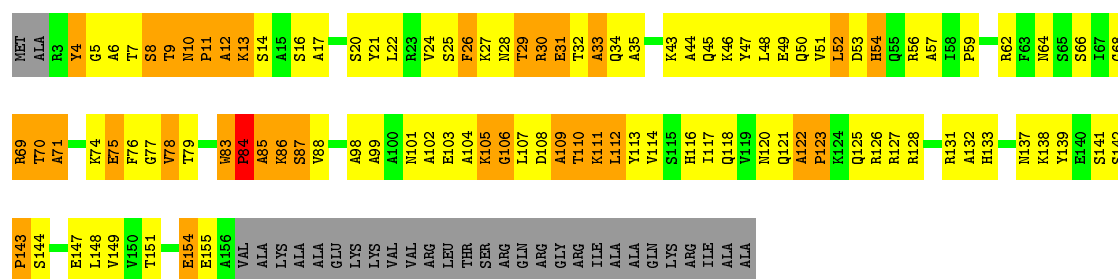


• Molecule 46: 60S ribosomal protein L17-A

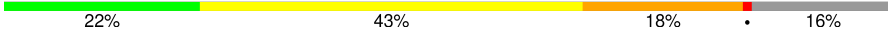


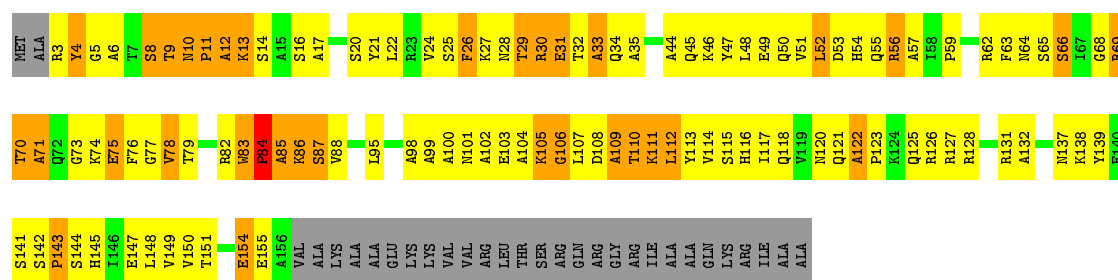
• Molecule 47: 60S ribosomal protein L18-A

Chain BQ: 




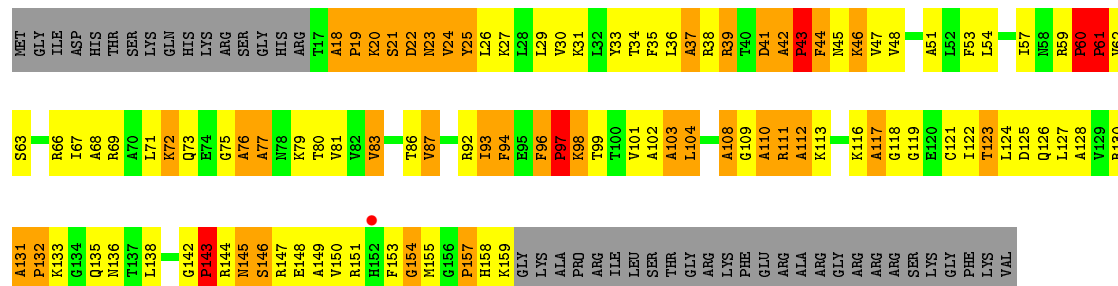
• Molecule 46: 60S ribosomal protein L17-A

Chain DQ: 




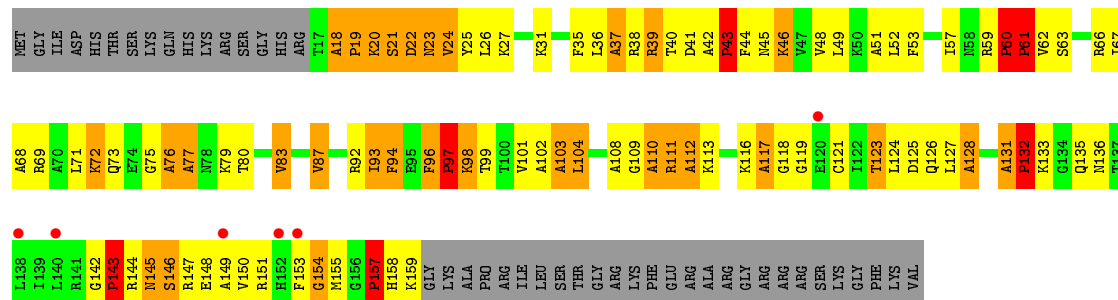
• Molecule 47: 60S ribosomal protein L18

Chain BR: 

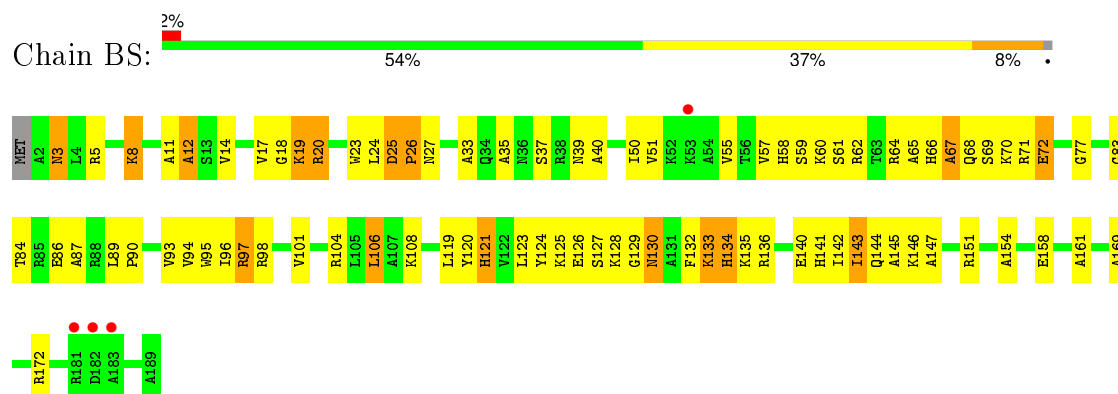


• Molecule 47: 60S ribosomal protein L18

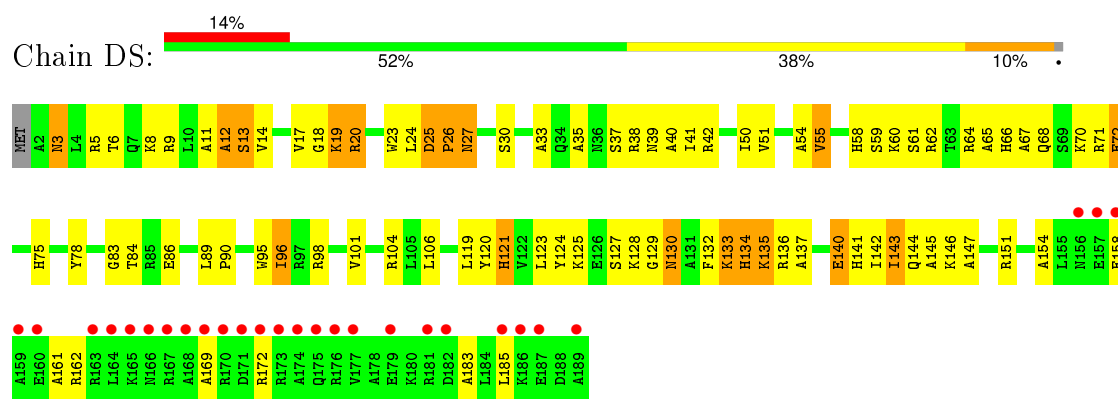
Chain DR: 



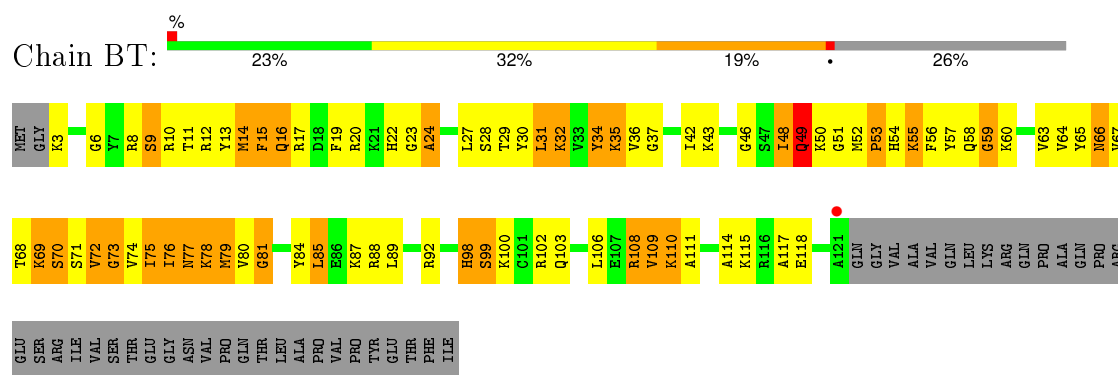
- Molecule 48: 60S ribosomal protein L19



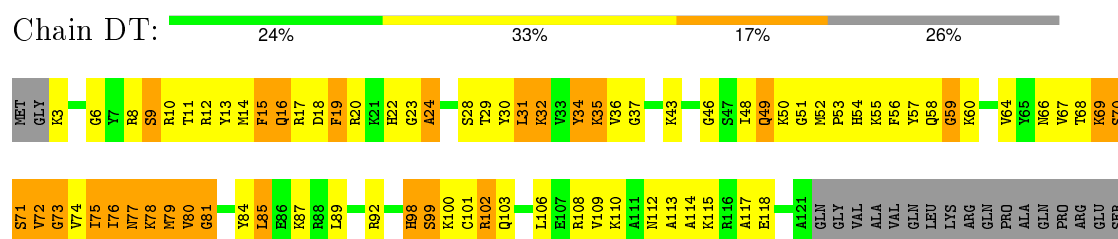
- Molecule 48: 60S ribosomal protein L19

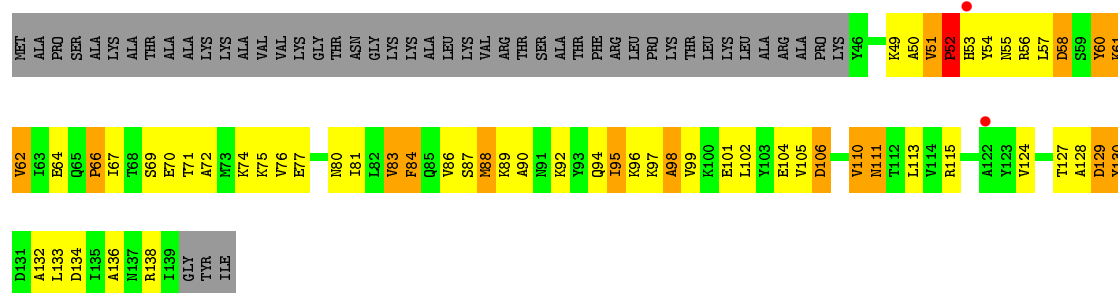


- Molecule 49: 60S ribosomal protein L21-A

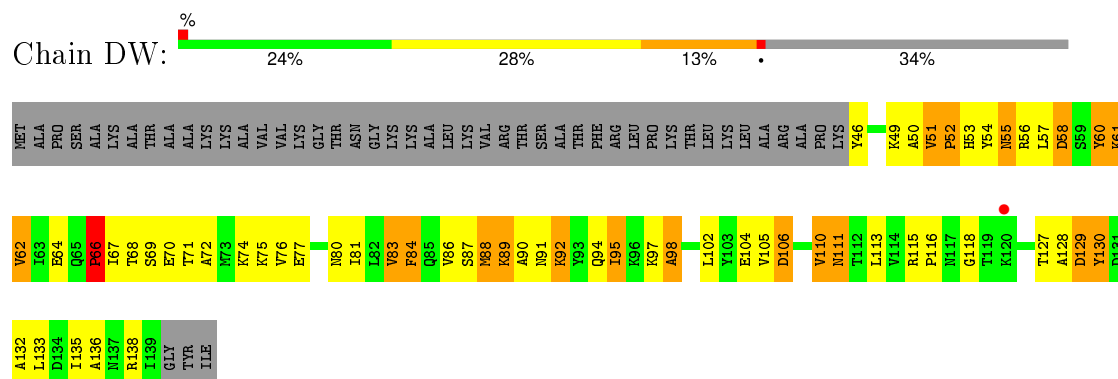


- Molecule 49: 60S ribosomal protein L21-A

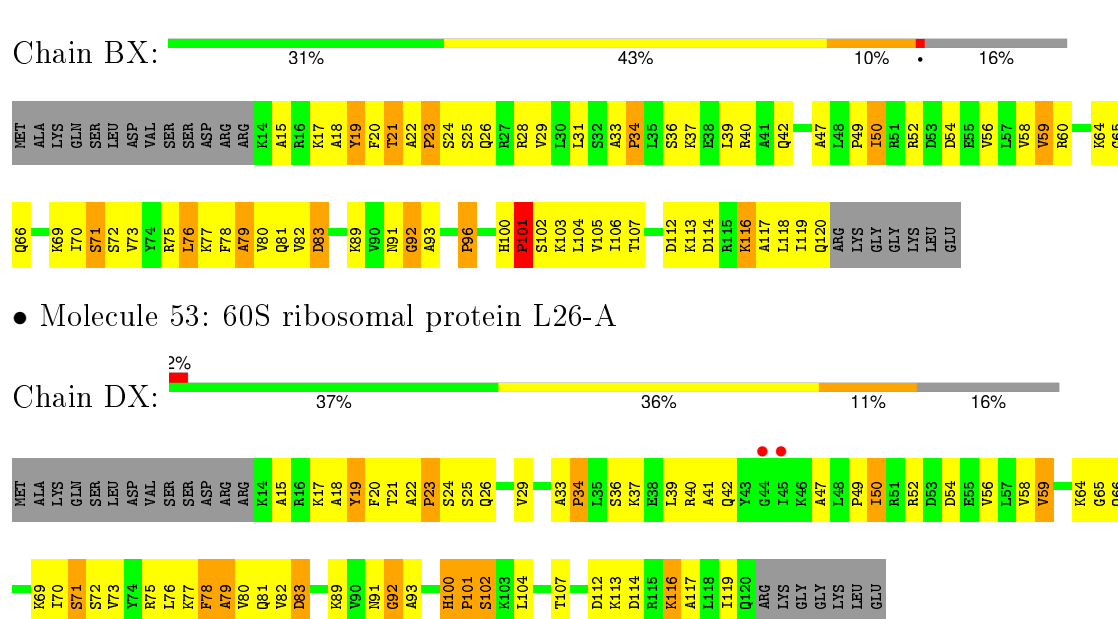




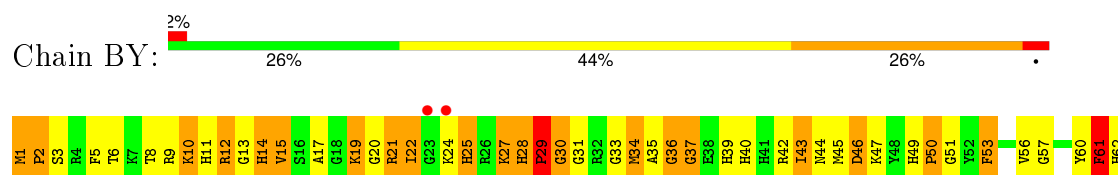
- Molecule 52: 60S ribosomal protein L25

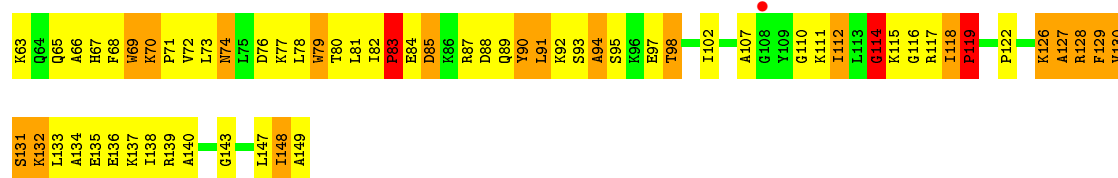


- Molecule 53: 60S ribosomal protein L26-A

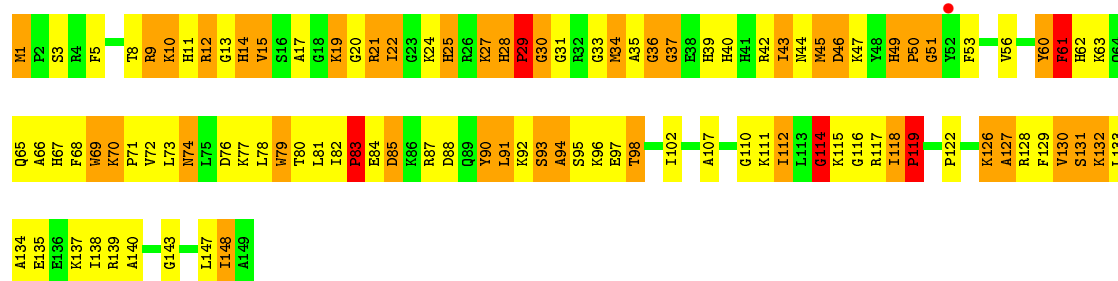


- Molecule 54: 60S ribosomal protein L28





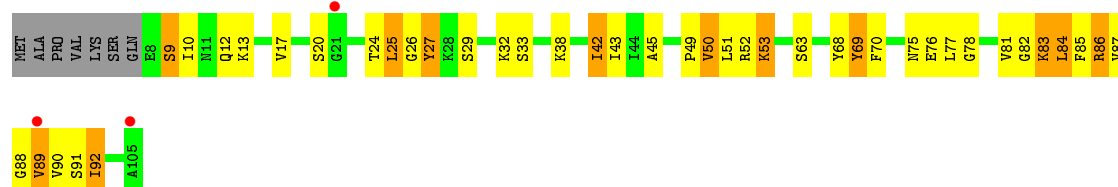
- Molecule 54: 60S ribosomal protein L28



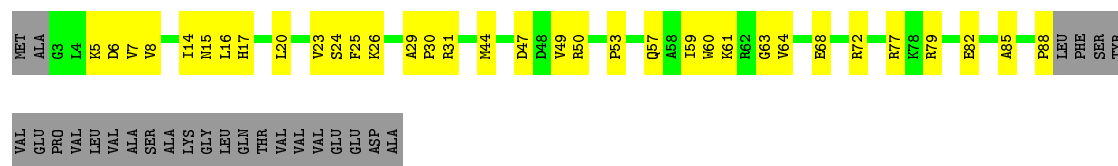
- Molecule 55: 60S ribosomal protein L30



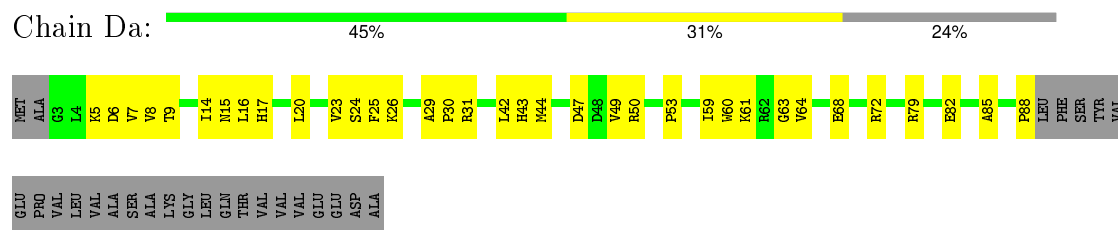
- Molecule 55: 60S ribosomal protein L30



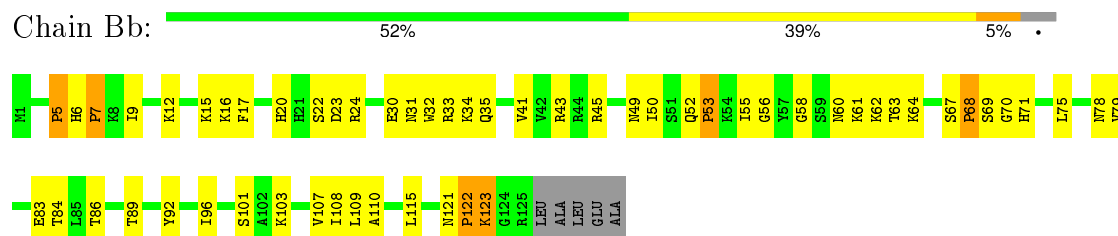
- Molecule 56: 60S ribosomal protein L31-A



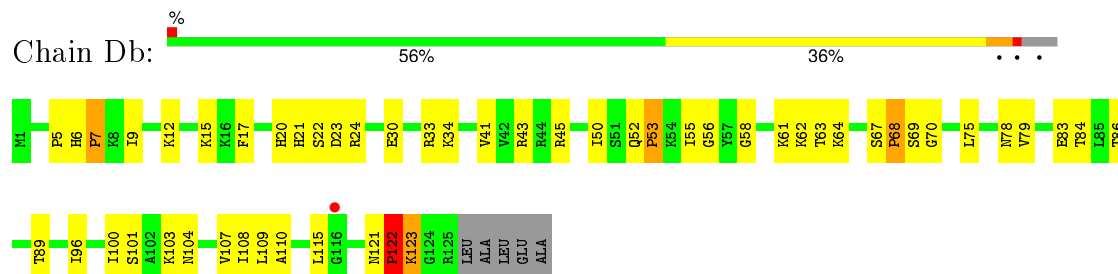
- Molecule 56: 60S ribosomal protein L31-A



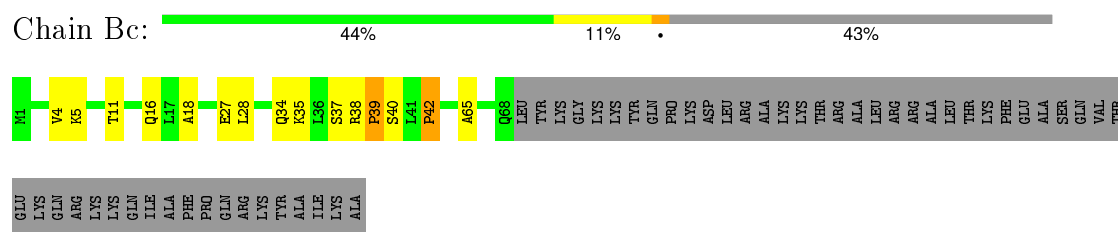
- Molecule 57: 60S ribosomal protein L32



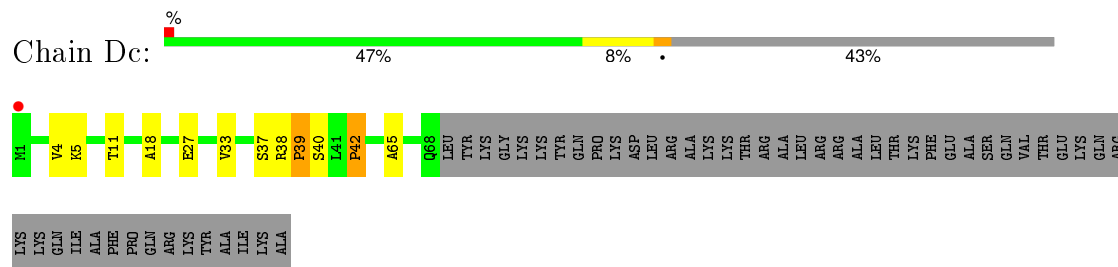
- Molecule 57: 60S ribosomal protein L32



- Molecule 58: 60S ribosomal protein L35

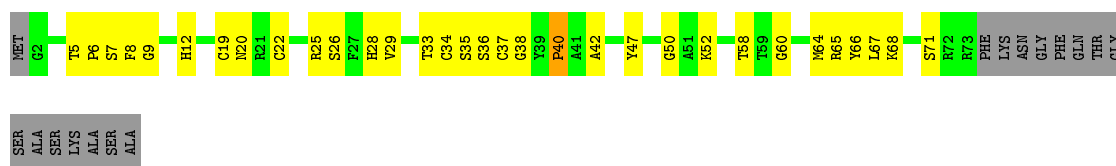


- Molecule 58: 60S ribosomal protein L35



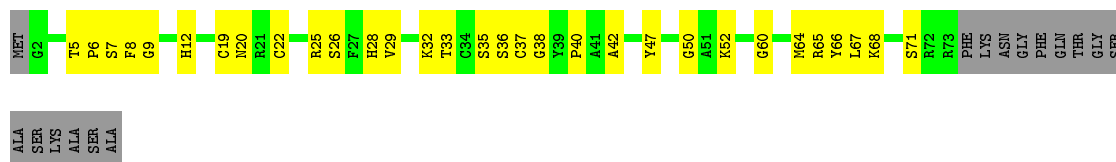
- Molecule 59: 60S ribosomal protein L37-A





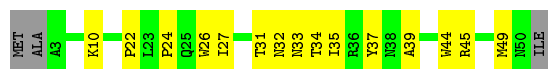
- Molecule 59: 60S ribosomal protein L37-A

Chain Dd: 47% 35% 18%



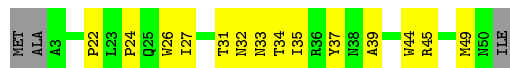
- Molecule 60: 60S ribosomal protein L39

Chain Be: 65% 29% 6%



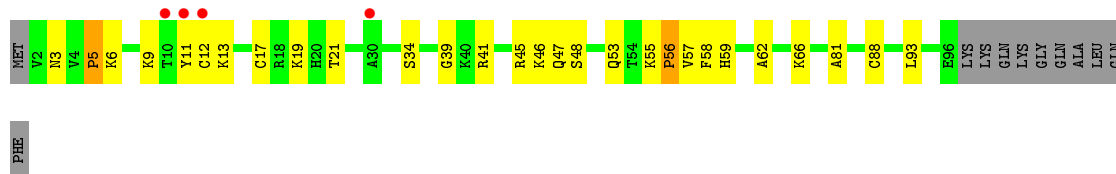
- Molecule 60: 60S ribosomal protein L39

Chain De: 67% 27% 6%



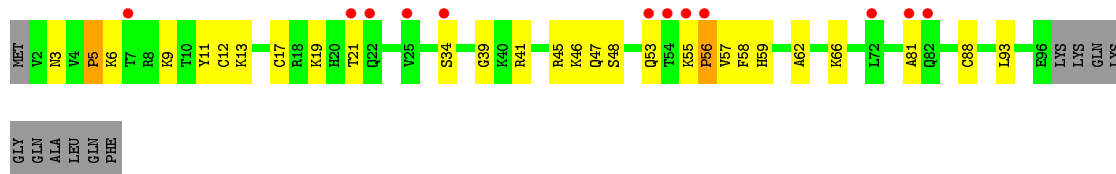
- Molecule 61: 60S ribosomal protein L42

Chain Bf: 63% 25% 4% 10%



- Molecule 61: 60S ribosomal protein L42

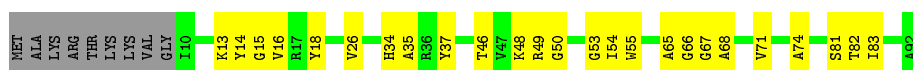
Chain Df: 63% 25% 11% 10%



- Molecule 62: 60S ribosomal protein L43



- Molecule 62: 60S ribosomal protein L43



- Molecule 63: Unassigned secondary structure



There are no outlier residues recorded for this chain.

- Molecule 63: Unassigned secondary structure



There are no outlier residues recorded for this chain.

- Molecule 64: Unassigned secondary structure



There are no outlier residues recorded for this chain.

- Molecule 64: Unassigned secondary structure



There are no outlier residues recorded for this chain.

- Molecule 65: Unassigned secondary structure



There are no outlier residues recorded for this chain.

- Molecule 65: Unassigned secondary structure



There are no outlier residues recorded for this chain.

- Molecule 66: Unassigned secondary structure



There are no outlier residues recorded for this chain.

- Molecule 67: Unassigned secondary structure

Chain Bm:  100%

There are no outlier residues recorded for this chain.

- Molecule 68: Unassigned secondary structure

Chain Bn:  100%

There are no outlier residues recorded for this chain.

- Molecule 69: Unassigned secondary structure

Chain Bp:  100%

There are no outlier residues recorded for this chain.

- Molecule 70: Unassigned secondary structure

Chain Bq:  100%

There are no outlier residues recorded for this chain.

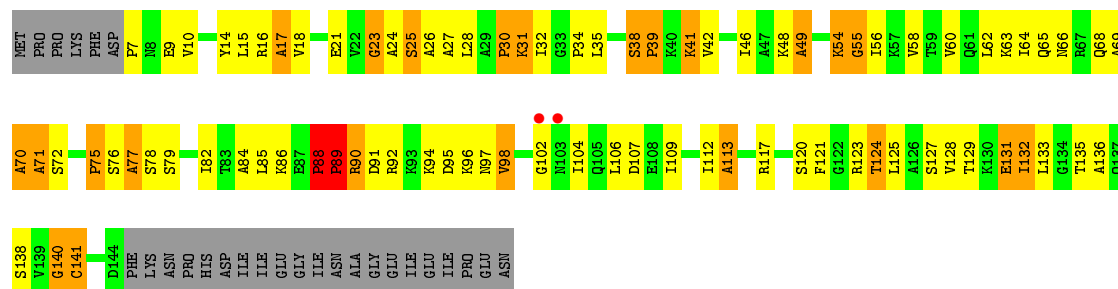
- Molecule 71: Unassigned secondary structure

Chain Br:  100%


There are no outlier residues recorded for this chain.

- Molecule 72: 60S ribosomal protein L12

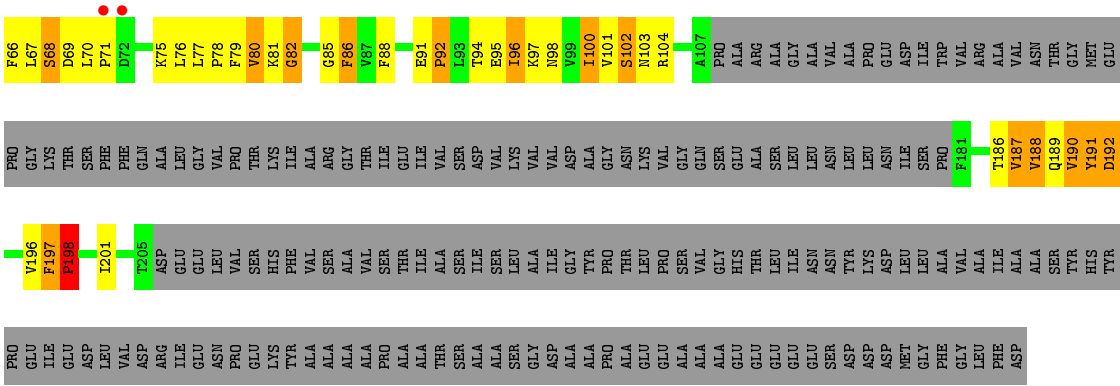
Chain DL:  %



- Molecule 73: 60S acidic ribosomal protein P0

Chain DM:  %





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	437.11Å 288.38Å 306.56Å 90.00° 99.13° 90.00°	Depositor
Resolution (Å)	268.00 – 4.00 268.66 – 4.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (268.00-4.00) 97.9 (268.66-4.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.57 (at 4.02Å)	Xtriage
Refinement program	Phenix	Depositor
R, R_{free}	0.278 , 0.341 0.284 , 0.344	Depositor DCC
R_{free} test set	12353 reflections (2.04%)	DCC
Wilson B-factor (Å ²)	147.1	Xtriage
Anisotropy	0.257	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.16 , 259.9	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.25$	Xtriage
Outliers	0 of 617642 reflections	Xtriage
F_o, F_c correlation	0.87	EDS
Total number of atoms	309610	wwPDB-VP
Average B, all atoms (Å ²)	139.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.68% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: OHX

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A1	0.77	20/42619 (0.0%)	1.32	552/66408 (0.8%)
1	C1	0.83	25/42619 (0.1%)	1.37	627/66408 (0.9%)
2	AA	0.45	0/1089	0.86	16/1517 (1.1%)
2	CA	0.50	0/1089	0.87	15/1517 (1.0%)
3	AB	0.54	0/1073	0.91	13/1488 (0.9%)
3	CB	0.56	0/1073	0.91	10/1488 (0.7%)
4	AC	0.50	0/927	0.68	4/1286 (0.3%)
4	CC	0.47	0/927	0.67	4/1286 (0.3%)
5	AD	0.45	0/834	0.71	5/1159 (0.4%)
5	CD	0.50	0/834	0.79	5/1159 (0.4%)
6	AE	0.49	0/775	0.70	3/1077 (0.3%)
6	CE	0.53	0/775	0.73	3/1077 (0.3%)
7	AF	0.60	0/381	0.88	3/530 (0.6%)
7	CF	0.59	0/381	0.90	4/530 (0.8%)
8	AG	0.51	0/579	0.78	5/806 (0.6%)
8	CG	0.52	0/579	0.79	5/806 (0.6%)
9	AH	0.43	0/626	0.71	4/867 (0.5%)
9	CH	0.44	0/626	0.72	4/867 (0.5%)
10	AI	0.45	0/595	0.90	8/826 (1.0%)
10	CI	0.52	0/595	0.91	7/826 (0.8%)
11	AJ	0.49	0/657	0.78	5/911 (0.5%)
11	CJ	0.55	0/657	0.81	5/911 (0.5%)
12	AK	0.44	0/331	0.74	2/460 (0.4%)
12	CK	0.41	0/331	0.70	2/460 (0.4%)
13	AL	0.47	0/589	0.70	2/816 (0.2%)
13	CL	0.50	0/589	0.72	2/816 (0.2%)
14	AM	0.54	0/518	0.83	3/715 (0.4%)
14	CM	0.68	1/518 (0.2%)	0.89	3/715 (0.4%)
15	AN	0.51	0/550	0.84	5/766 (0.7%)
15	CN	0.52	0/550	0.86	5/766 (0.7%)
16	AO	0.53	0/621	0.83	3/860 (0.3%)
16	CO	0.56	0/621	0.85	3/860 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AP	0.61	0/565	0.92	4/781 (0.5%)
17	CP	0.68	0/565	0.97	5/781 (0.6%)
18	AQ	0.41	0/331	0.68	2/460 (0.4%)
18	CQ	0.44	0/311	0.74	2/432 (0.5%)
19	AR	0.40	0/229	0.63	1/316 (0.3%)
19	CR	0.42	0/229	0.68	1/316 (0.3%)
20	AS	0.54	0/189	0.70	0/260
20	CS	0.58	0/189	0.73	0/260
21	AT	0.43	0/1541	0.61	8/2141 (0.4%)
21	CT	0.45	0/1541	0.61	8/2141 (0.4%)
29	B1	1.11	229/76764 (0.3%)	1.79	2866/119684 (2.4%)
29	D1	1.08	218/76764 (0.3%)	1.75	2607/119684 (2.2%)
30	B2	1.06	8/2883 (0.3%)	1.70	90/4491 (2.0%)
30	D2	1.17	10/2883 (0.3%)	1.84	112/4491 (2.5%)
31	B3	0.91	6/3746 (0.2%)	1.41	64/5832 (1.1%)
31	D3	0.79	1/3746 (0.0%)	1.28	40/5832 (0.7%)
32	BA	0.34	0/1054	0.63	9/1468 (0.6%)
32	DA	0.33	0/1054	0.61	9/1468 (0.6%)
33	BB	0.62	0/1103	0.92	11/1501 (0.7%)
33	DB	0.53	0/1103	0.87	11/1501 (0.7%)
34	BC	0.70	0/1790	1.05	9/2487 (0.4%)
34	DC	0.76	0/1790	1.08	12/2487 (0.5%)
35	BD	0.67	0/1311	0.95	9/1817 (0.5%)
35	DD	0.55	0/1311	0.90	12/1817 (0.7%)
36	BE	0.53	0/1411	0.93	9/1960 (0.5%)
36	DE	0.59	0/1411	0.97	9/1960 (0.5%)
37	BF	0.76	0/872	1.20	10/1215 (0.8%)
37	DF	0.85	0/872	1.21	12/1215 (1.0%)
38	BG	0.73	0/1059	1.06	8/1471 (0.5%)
38	DG	0.75	0/1059	1.05	9/1471 (0.6%)
39	BH	0.48	0/855	0.79	6/1190 (0.5%)
39	DH	0.45	0/855	0.76	6/1190 (0.5%)
40	BI	0.64	0/941	0.86	4/1308 (0.3%)
40	DI	0.73	0/941	0.92	5/1308 (0.4%)
41	BJ	0.66	0/1025	0.89	8/1424 (0.6%)
41	DJ	0.71	0/1025	0.91	9/1424 (0.6%)
42	BK	0.56	0/809	0.86	5/1122 (0.4%)
42	DK	0.61	0/809	0.87	4/1122 (0.4%)
43	BN	0.71	0/592	1.05	6/823 (0.7%)
43	DN	0.82	0/592	1.14	6/823 (0.7%)
44	BO	0.59	0/922	0.88	7/1282 (0.5%)
44	DO	0.51	0/922	0.86	7/1282 (0.5%)
45	BP	0.80	0/966	1.12	10/1343 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
45	DP	0.84	1/966 (0.1%)	1.14	12/1343 (0.9%)
46	BQ	0.72	0/760	0.94	5/1057 (0.5%)
46	DQ	0.65	0/760	0.87	4/1057 (0.4%)
47	BR	0.70	0/705	1.00	6/980 (0.6%)
47	DR	0.60	0/705	0.94	7/980 (0.7%)
48	BS	0.52	0/930	0.63	2/1295 (0.2%)
48	DS	0.48	0/930	0.58	2/1295 (0.2%)
49	BT	0.68	0/585	0.85	0/812
49	DT	0.70	0/585	0.87	0/812
50	BU	0.63	0/630	0.86	5/872 (0.6%)
50	DU	0.75	0/630	0.93	5/872 (0.6%)
51	BV	0.54	0/290	0.84	2/402 (0.5%)
51	DV	0.58	0/290	0.85	2/402 (0.5%)
52	BW	0.55	0/467	0.84	2/651 (0.3%)
52	DW	0.49	0/467	0.81	3/651 (0.5%)
53	BX	0.55	0/529	0.78	4/736 (0.5%)
53	DX	0.49	0/529	0.74	3/736 (0.4%)
54	BY	0.70	0/726	1.10	9/1004 (0.9%)
54	DY	0.62	0/726	1.03	8/1004 (0.8%)
55	BZ	0.49	0/480	0.62	1/665 (0.2%)
55	DZ	0.46	0/480	0.62	1/665 (0.2%)
56	Ba	0.62	0/424	0.94	3/589 (0.5%)
56	Da	0.59	0/424	0.92	3/589 (0.5%)
57	Bb	0.72	0/617	1.13	6/858 (0.7%)
57	Db	0.61	0/617	1.07	6/858 (0.7%)
58	Bc	0.53	0/338	0.82	2/471 (0.4%)
58	Dc	0.45	0/338	0.74	2/471 (0.4%)
59	Bd	0.63	0/351	0.97	2/485 (0.4%)
59	Dd	0.54	0/351	0.89	2/485 (0.4%)
60	Be	0.59	0/239	0.85	2/333 (0.6%)
60	De	0.46	0/239	0.79	2/333 (0.6%)
61	Bf	0.47	0/466	0.68	2/646 (0.3%)
61	Df	0.39	0/466	0.66	2/646 (0.3%)
62	Bg	0.53	0/406	0.74	1/562 (0.2%)
62	Dg	0.49	0/406	0.67	0/562
72	DL	0.42	0/678	0.75	7/941 (0.7%)
73	DM	0.48	0/639	0.76	4/886 (0.5%)
All	All	0.92	519/326627 (0.2%)	1.50	7498/496371 (1.5%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
3	AB	0	2
3	CB	0	2
17	AP	0	1
17	CP	0	1
18	AQ	0	1
18	CQ	0	1
22	Bo	0	1
23	Ab	0	1
23	Cb	0	1
24	Ac	0	1
29	B1	0	3
29	D1	0	3
34	BC	0	5
34	DC	0	6
35	BD	0	1
35	DD	0	2
36	BE	0	1
36	DE	0	1
37	BF	0	4
37	DF	0	4
38	BG	0	1
38	DG	0	1
42	BK	0	1
42	DK	0	1
44	DO	0	1
45	BP	0	4
45	DP	0	5
49	BT	0	1
49	DT	0	1
51	BV	0	1
51	DV	0	1
54	BY	0	2
54	DY	0	2
56	Ba	0	1
56	Da	0	1
57	Bb	0	1
57	Db	0	1
All	All	0	68

All (519) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D1	3243	A	N9-C4	13.96	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D1	308	A	C6-N1	-13.36	1.26	1.35
29	B1	3184	A	C6-N1	-12.55	1.26	1.35
29	B1	308	A	C6-N1	-11.80	1.27	1.35
29	D1	2845	A	C6-N1	-11.64	1.27	1.35
29	B1	1951	C	C4-N4	-11.40	1.23	1.33
29	D1	3184	A	C6-N1	-11.23	1.27	1.35
29	D1	1951	C	C4-N4	-11.22	1.23	1.33
29	B1	2845	A	C6-N1	-11.09	1.27	1.35
29	D1	607	A	N9-C4	10.74	1.44	1.37
1	A1	1421	A	N9-C4	10.64	1.44	1.37
29	D1	1884	A	C6-N1	-10.64	1.28	1.35
29	D1	3176	G	N9-C4	-10.62	1.29	1.38
30	D2	13	A	N9-C4	-10.46	1.31	1.37
29	B1	2663	G	C6-N1	-10.41	1.32	1.39
29	B1	3176	G	N9-C4	-10.33	1.29	1.38
29	B1	505	G	N9-C4	-10.28	1.29	1.38
29	B1	1884	A	C6-N1	-10.08	1.28	1.35
29	B1	3243	A	N9-C4	10.08	1.43	1.37
29	B1	2520	A	C6-N1	-10.00	1.28	1.35
29	D1	505	G	N9-C4	-9.88	1.30	1.38
1	A1	825	U	C2-O2	-9.58	1.13	1.22
29	B1	588	G	C6-N1	-9.46	1.32	1.39
1	C1	825	U	C2-O2	-9.38	1.14	1.22
29	B1	45	A	N9-C4	-9.27	1.32	1.37
29	B1	607	A	N9-C4	9.24	1.43	1.37
29	D1	505	G	N3-C4	-9.20	1.29	1.35
30	D2	46	A	N9-C4	9.07	1.43	1.37
29	B1	2358	A	N9-C4	-8.98	1.32	1.37
1	C1	1421	A	N9-C4	8.97	1.43	1.37
29	D1	2362	C	N3-C4	-8.96	1.27	1.33
29	B1	505	G	N3-C4	-8.92	1.29	1.35
29	D1	3243	A	N3-C4	8.90	1.40	1.34
30	B2	13	A	N9-C4	-8.89	1.32	1.37
29	D1	2643	A	N9-C4	-8.74	1.32	1.37
29	D1	2377	G	N9-C4	-8.73	1.30	1.38
29	B1	2662	G	C6-N1	-8.72	1.33	1.39
29	D1	518	G	N9-C4	-8.66	1.31	1.38
29	D1	1317	A	C5-C6	-8.64	1.33	1.41
29	D1	2520	A	C6-N1	-8.60	1.29	1.35
29	B1	1887	A	N9-C4	-8.57	1.32	1.37
29	D1	513	G	N9-C4	-8.54	1.31	1.38
29	D1	647	A	N9-C4	-8.43	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	588	G	N3-C4	-8.37	1.29	1.35
29	B1	2636	A	N3-C4	-8.29	1.29	1.34
29	B1	2377	G	N3-C4	-8.21	1.29	1.35
29	B1	1158	A	N9-C4	-8.07	1.33	1.37
29	D1	1099	A	N9-C4	-8.06	1.33	1.37
29	B1	2601	A	N9-C4	-8.00	1.33	1.37
29	D1	1363	A	N9-C4	-7.98	1.33	1.37
29	D1	1381	A	N9-C4	-7.97	1.33	1.37
29	D1	94	G	N9-C4	-7.96	1.31	1.38
29	B1	2362	C	N3-C4	-7.88	1.28	1.33
29	B1	1381	A	N9-C4	-7.85	1.33	1.37
29	D1	45	A	N9-C4	-7.83	1.33	1.37
29	B1	1363	A	N9-C4	-7.83	1.33	1.37
29	D1	3370	A	N9-C4	-7.82	1.33	1.37
29	B1	1319	G	N9-C4	-7.75	1.31	1.38
29	D1	422	A	C5-C4	-7.72	1.33	1.38
29	B1	1482	A	N9-C4	7.64	1.42	1.37
29	D1	424	G	N7-C5	-7.56	1.34	1.39
29	B1	2377	G	N9-C4	-7.53	1.31	1.38
29	D1	1006	A	N3-C4	-7.51	1.30	1.34
29	D1	746	A	N9-C4	7.50	1.42	1.37
29	B1	3139	A	N9-C4	-7.42	1.33	1.37
29	D1	1915	A	N9-C4	-7.42	1.33	1.37
29	B1	652	G	C6-N1	-7.38	1.34	1.39
29	B1	1148	G	N7-C5	-7.37	1.34	1.39
29	D1	1317	A	N9-C4	-7.37	1.33	1.37
29	B1	3000	A	N9-C4	-7.33	1.33	1.37
29	B1	2969	A	N9-C4	-7.26	1.33	1.37
29	B1	1507	G	N9-C4	-7.25	1.32	1.38
29	B1	3323	A	N9-C4	-7.24	1.33	1.37
29	D1	3376	A	N9-C4	7.21	1.42	1.37
29	D1	3024	A	N9-C4	-7.20	1.33	1.37
29	B1	965	A	N9-C4	-7.19	1.33	1.37
29	B1	26	A	N9-C4	7.18	1.42	1.37
29	B1	1303	A	N9-C4	-7.16	1.33	1.37
29	D1	3139	A	N9-C4	-7.15	1.33	1.37
29	B1	513	G	N1-C2	-7.14	1.32	1.37
29	D1	3323	A	N9-C4	-7.14	1.33	1.37
30	B2	13	A	C2-N3	-7.11	1.27	1.33
29	B1	3273	A	N9-C4	7.11	1.42	1.37
30	B2	46	A	N9-C4	7.06	1.42	1.37
29	D1	3141	A	N9-C4	7.03	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D1	537	A	C6-N1	-7.02	1.30	1.35
29	B1	3396	U	N1-C2	7.01	1.44	1.38
29	D1	1148	G	N7-C5	-7.00	1.35	1.39
29	B1	70	A	N9-C4	7.00	1.42	1.37
29	D1	422	A	N3-C4	-7.00	1.30	1.34
29	D1	3176	G	N3-C4	-7.00	1.30	1.35
29	D1	513	G	C2-N2	-6.97	1.27	1.34
29	B1	537	A	C6-N1	-6.95	1.30	1.35
29	D1	589	A	N9-C4	6.94	1.42	1.37
29	D1	1041	U	N1-C2	-6.93	1.32	1.38
29	B1	1434	G	C6-N1	6.93	1.44	1.39
29	D1	2362	C	C2-N3	-6.92	1.30	1.35
29	D1	1329	U	N1-C2	-6.92	1.32	1.38
29	D1	1006	A	N9-C4	-6.91	1.33	1.37
29	B1	220	G	N9-C4	-6.88	1.32	1.38
29	D1	1006	A	N7-C5	-6.85	1.35	1.39
29	B1	1371	G	C6-N1	-6.83	1.34	1.39
29	D1	1887	A	N9-C4	-6.81	1.33	1.37
29	B1	3176	G	N3-C4	-6.81	1.30	1.35
29	D1	424	G	C5-C6	-6.81	1.35	1.42
29	B1	657	A	N9-C4	-6.80	1.33	1.37
29	B1	638	C	N1-C6	-6.79	1.33	1.37
29	B1	513	G	N9-C4	-6.77	1.32	1.38
30	D2	66	A	N9-C4	-6.76	1.33	1.37
29	B1	1190	A	N9-C4	6.74	1.41	1.37
29	D1	514	G	N9-C4	-6.74	1.32	1.38
29	D1	2377	G	N3-C4	-6.70	1.30	1.35
29	B1	882	A	C6-N1	-6.69	1.30	1.35
29	D1	1507	G	N9-C4	-6.69	1.32	1.38
29	B1	3243	A	N3-C4	6.68	1.38	1.34
29	B1	3008	A	N9-C4	-6.66	1.33	1.37
29	B1	2362	C	C2-N3	-6.64	1.30	1.35
29	D1	513	G	N1-C2	-6.64	1.32	1.37
1	A1	391	A	N9-C4	-6.63	1.33	1.37
29	D1	904	A	N9-C4	-6.61	1.33	1.37
29	D1	1143	A	N9-C4	-6.60	1.33	1.37
29	D1	2667	A	N9-C4	6.59	1.41	1.37
29	B1	417	A	N9-C4	-6.58	1.33	1.37
29	D1	3005	A	N3-C4	-6.58	1.30	1.34
29	D1	3180	A	N9-C4	6.56	1.41	1.37
29	D1	513	G	C2-N3	-6.56	1.27	1.32
1	A1	243	G	C1'-N9	-6.55	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	1148	G	C5-C6	-6.55	1.35	1.42
29	D1	2887	A	N9-C4	-6.55	1.33	1.37
29	B1	89	A	C5-C6	-6.54	1.35	1.41
29	D1	941	G	N1-C2	-6.53	1.32	1.37
29	D1	1303	A	N9-C4	-6.52	1.33	1.37
30	B2	96	U	C2-N3	-6.52	1.33	1.37
29	D1	2296	A	N3-C4	-6.49	1.30	1.34
29	B1	1410	U	C2-N3	-6.48	1.33	1.37
29	D1	417	A	N9-C4	-6.48	1.33	1.37
29	B1	421	G	N3-C4	-6.44	1.30	1.35
1	C1	939	A	N9-C4	6.44	1.41	1.37
29	B1	513	G	C2-N2	-6.42	1.28	1.34
29	B1	3176	G	C2-N3	-6.40	1.27	1.32
29	D1	518	G	N3-C4	-6.40	1.30	1.35
29	D1	422	A	N9-C4	-6.39	1.34	1.37
29	B1	2642	A	N3-C4	-6.36	1.31	1.34
29	B1	715	A	N9-C4	6.36	1.41	1.37
29	D1	1150	A	N9-C4	-6.36	1.34	1.37
29	D1	1147	G	C5-C6	-6.34	1.36	1.42
29	D1	3137	C	N3-C4	-6.34	1.29	1.33
29	D1	70	A	N9-C4	6.34	1.41	1.37
29	B1	2360	C	N1-C6	-6.30	1.33	1.37
29	B1	1503	A	N9-C4	-6.30	1.34	1.37
29	B1	357	A	N9-C4	-6.29	1.34	1.37
29	D1	509	U	N1-C2	6.28	1.44	1.38
29	D1	2296	A	N9-C4	-6.28	1.34	1.37
29	B1	2961	G	N9-C4	6.28	1.43	1.38
29	D1	505	G	C2-N3	-6.27	1.27	1.32
29	D1	2835	U	C4-C5	-6.26	1.38	1.43
29	B1	1148	G	N9-C4	-6.26	1.32	1.38
29	D1	3212	C	N3-C4	-6.26	1.29	1.33
1	C1	243	G	C1'-N9	-6.25	1.38	1.46
29	B1	34	A	N3-C4	-6.23	1.31	1.34
29	D1	1951	C	N3-C4	6.22	1.38	1.33
29	D1	3376	A	N7-C5	6.22	1.43	1.39
29	B1	899	U	C2-N3	-6.22	1.33	1.37
29	B1	3177	G	N3-C4	-6.21	1.31	1.35
29	B1	1097	G	C5-C6	6.21	1.48	1.42
29	D1	3322	A	N9-C4	-6.21	1.34	1.37
31	B3	34	U	N1-C2	6.20	1.44	1.38
29	B1	3210	A	N9-C4	-6.19	1.34	1.37
29	D1	3210	A	N9-C4	-6.19	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	718	G	N9-C4	6.19	1.43	1.38
29	D1	3176	G	C6-N1	-6.18	1.35	1.39
29	B1	1061	A	N9-C4	-6.18	1.34	1.37
29	B1	513	G	C2-N3	-6.17	1.27	1.32
29	D1	3177	G	N3-C4	-6.16	1.31	1.35
29	B1	3173	G	N9-C4	-6.16	1.33	1.38
29	D1	746	A	O3'-P	6.16	1.68	1.61
29	D1	3113	A	N9-C4	-6.16	1.34	1.37
30	D2	113	C	N1-C6	-6.15	1.33	1.37
29	D1	2358	A	N9-C4	-6.15	1.34	1.37
29	D1	706	A	N9-C4	-6.14	1.34	1.37
29	B1	1951	C	N3-C4	6.13	1.38	1.33
29	B1	2662	G	C6-O6	-6.12	1.18	1.24
29	D1	1317	A	N7-C5	-6.11	1.35	1.39
29	B1	2939	G	C6-N1	-6.11	1.35	1.39
29	B1	505	G	C2-N3	-6.11	1.27	1.32
29	B1	2283	G	N9-C8	6.11	1.42	1.37
29	D1	39	A	N9-C4	-6.10	1.34	1.37
29	D1	389	A	C6-N1	-6.10	1.31	1.35
29	B1	590	G	N9-C4	-6.10	1.33	1.38
29	B1	1506	A	C5-C6	-6.10	1.35	1.41
29	D1	189	G	C6-N1	-6.09	1.35	1.39
29	B1	3391	A	C6-N1	6.08	1.39	1.35
29	D1	3178	A	N9-C4	-6.07	1.34	1.37
29	D1	1174	G	N1-C2	-6.07	1.32	1.37
29	D1	2296	A	N7-C5	-6.06	1.35	1.39
29	D1	965	A	N9-C4	-6.05	1.34	1.37
29	D1	1911	A	N9-C4	-6.05	1.34	1.37
29	B1	60	A	N9-C4	-6.05	1.34	1.37
29	B1	94	G	N9-C4	-6.05	1.33	1.38
31	D3	3	A	N9-C4	-6.04	1.34	1.37
29	B1	3141	A	N9-C4	6.04	1.41	1.37
29	D1	1371	G	C6-N1	-6.02	1.35	1.39
29	B1	1610	G	C5-C6	-6.02	1.36	1.42
1	C1	1132	A	N9-C4	-6.00	1.34	1.37
29	D1	3035	A	N9-C4	6.00	1.41	1.37
29	D1	2601	A	N9-C4	-5.99	1.34	1.37
29	D1	1126	G	C6-N1	-5.98	1.35	1.39
29	D1	3168	A	C6-N1	-5.98	1.31	1.35
29	D1	2951	G	N9-C4	-5.97	1.33	1.38
29	D1	3219	G	C5-C6	-5.97	1.36	1.42
29	D1	1006	A	C6-N1	-5.97	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	826	G	C5-C4	-5.96	1.34	1.38
29	B1	1410	U	C4-O4	-5.96	1.18	1.23
29	B1	428	A	N7-C5	-5.95	1.35	1.39
1	C1	1137	A	N9-C4	-5.95	1.34	1.37
29	D1	646	A	N9-C4	-5.94	1.34	1.37
1	A1	1030	A	N9-C4	-5.94	1.34	1.37
29	D1	2302	G	N9-C4	-5.94	1.33	1.38
29	B1	3266	G	N3-C4	5.93	1.39	1.35
29	D1	2831	G	C5-C4	-5.93	1.34	1.38
29	D1	1172	G	N9-C8	-5.92	1.33	1.37
29	D1	666	A	N9-C4	-5.92	1.34	1.37
29	B1	1157	G	N3-C4	-5.92	1.31	1.35
31	B3	33	A	N9-C4	-5.92	1.34	1.37
29	D1	3137	C	C2-N3	-5.92	1.31	1.35
29	B1	666	A	N9-C4	-5.91	1.34	1.37
29	B1	746	A	O3'-P	5.90	1.68	1.61
29	B1	628	A	N9-C4	-5.90	1.34	1.37
29	B1	3230	G	C6-N1	-5.89	1.35	1.39
29	B1	2642	A	N9-C4	-5.89	1.34	1.37
29	B1	2956	A	N7-C5	-5.89	1.35	1.39
29	D1	3386	G	N7-C5	-5.89	1.35	1.39
29	D1	3297	U	N1-C2	5.88	1.43	1.38
1	A1	337	G	C5-C6	-5.88	1.36	1.42
29	B1	421	G	N7-C5	-5.88	1.35	1.39
29	B1	2663	G	C6-O6	-5.88	1.18	1.24
1	C1	129	U	C1'-N1	5.88	1.57	1.48
29	B1	2737	C	N1-C6	-5.87	1.33	1.37
29	B1	746	A	N9-C4	5.86	1.41	1.37
29	B1	3177	G	N9-C4	-5.85	1.33	1.38
29	D1	1433	A	N3-C4	-5.85	1.31	1.34
29	D1	2670	G	C6-N1	-5.85	1.35	1.39
29	D1	2918	G	N1-C2	-5.85	1.33	1.37
29	B1	272	G	C6-N1	-5.84	1.35	1.39
29	D1	994	G	N9-C8	-5.84	1.33	1.37
29	D1	1179	A	N7-C5	-5.83	1.35	1.39
29	B1	3074	G	C6-N1	-5.83	1.35	1.39
29	B1	219	A	N9-C4	-5.81	1.34	1.37
29	B1	3297	U	N1-C2	5.80	1.43	1.38
29	B1	3322	A	N9-C4	-5.80	1.34	1.37
1	C1	1030	A	N9-C4	-5.80	1.34	1.37
29	B1	589	A	N9-C4	5.80	1.41	1.37
29	B1	875	G	C6-N1	-5.80	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	3218	A	N9-C4	5.79	1.41	1.37
29	D1	513	G	C6-N1	-5.79	1.35	1.39
29	D1	99	A	N3-C4	-5.79	1.31	1.34
29	D1	3244	A	N7-C5	5.79	1.42	1.39
29	D1	1174	G	N3-C4	-5.78	1.31	1.35
1	C1	635	A	N9-C4	-5.78	1.34	1.37
30	B2	66	A	N9-C4	-5.77	1.34	1.37
29	D1	1320	C	N1-C6	-5.77	1.33	1.37
1	C1	62	A	P-OP2	-5.76	1.39	1.49
29	D1	1318	A	C5-C4	-5.76	1.34	1.38
29	B1	103	G	C6-N1	5.75	1.43	1.39
29	B1	916	G	N7-C5	-5.75	1.35	1.39
29	B1	841	A	N9-C4	5.74	1.41	1.37
29	B1	2172	A	N9-C4	-5.74	1.34	1.37
30	D2	108	A	N9-C4	-5.73	1.34	1.37
29	D1	2670	G	N3-C4	-5.73	1.31	1.35
29	D1	2706	G	C6-N1	-5.72	1.35	1.39
29	B1	3009	G	N3-C4	-5.72	1.31	1.35
1	A1	572	C	N1-C2	5.72	1.45	1.40
1	C1	326	G	C6-N1	-5.72	1.35	1.39
29	B1	1150	A	N9-C4	-5.71	1.34	1.37
29	B1	2396	G	N7-C5	-5.71	1.35	1.39
31	B3	97	A	N9-C4	-5.70	1.34	1.37
29	D1	1156	C	N1-C6	-5.70	1.33	1.37
1	A1	1455	G	C5-C6	5.70	1.48	1.42
29	D1	1928	G	N9-C4	-5.70	1.33	1.38
29	D1	996	A	N9-C4	-5.69	1.34	1.37
30	B2	5	G	N9-C4	-5.68	1.33	1.38
1	C1	621	A	C5-C4	-5.68	1.34	1.38
29	D1	2317	A	N3-C4	-5.68	1.31	1.34
29	D1	3391	A	C6-N1	5.68	1.39	1.35
29	D1	1892	G	N3-C4	-5.67	1.31	1.35
29	D1	1188	U	C2-N3	-5.67	1.33	1.37
29	B1	425	G	C6-N1	-5.67	1.35	1.39
1	C1	373	G	N9-C4	-5.66	1.33	1.38
29	B1	630	A	C5-C6	-5.66	1.35	1.41
29	D1	507	U	C2-N3	-5.66	1.33	1.37
1	C1	1602	C	N1-C6	-5.65	1.33	1.37
29	D1	1150	A	N3-C4	-5.65	1.31	1.34
29	D1	2150	G	C6-N1	-5.64	1.35	1.39
29	B1	357	A	N3-C4	-5.64	1.31	1.34
31	B3	3	A	N9-C4	-5.64	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	D1	590	G	N9-C4	-5.63	1.33	1.38
29	B1	644	G	N3-C4	-5.62	1.31	1.35
29	D1	3272	C	N3-C4	5.62	1.37	1.33
29	D1	2380	U	N1-C2	-5.62	1.33	1.38
1	A1	337	G	N7-C5	-5.62	1.35	1.39
29	B1	1059	G	N9-C4	-5.62	1.33	1.38
29	B1	517	G	N3-C4	-5.61	1.31	1.35
29	D1	1174	G	C5-C4	-5.60	1.34	1.38
30	D2	103	A	N9-C4	-5.59	1.34	1.37
1	C1	592	A	N9-C4	-5.59	1.34	1.37
29	B1	341	G	N7-C5	-5.59	1.35	1.39
29	B1	1156	C	N1-C6	-5.59	1.33	1.37
29	B1	1377	G	C6-N1	-5.59	1.35	1.39
30	D2	13	A	C2-N3	-5.59	1.28	1.33
29	B1	2357	A	N3-C4	-5.58	1.31	1.34
29	B1	2123	G	C6-N1	-5.58	1.35	1.39
29	D1	941	G	N3-C4	-5.58	1.31	1.35
30	D2	113	C	N3-C4	-5.57	1.30	1.33
29	B1	1175	C	C2-N3	-5.57	1.31	1.35
29	B1	2958	A	N9-C4	-5.56	1.34	1.37
29	B1	2990	G	C5-C6	-5.56	1.36	1.42
29	D1	1380	G	N3-C4	-5.55	1.31	1.35
29	B1	39	A	N9-C4	-5.55	1.34	1.37
29	B1	3103	A	N9-C4	5.55	1.41	1.37
29	D1	94	G	N3-C4	-5.54	1.31	1.35
29	B1	2951	G	N9-C4	-5.54	1.33	1.38
29	D1	512	U	C4-O4	5.53	1.28	1.23
29	B1	996	A	N9-C4	-5.53	1.34	1.37
31	B3	131	A	N9-C4	-5.53	1.34	1.37
1	C1	1550	A	N9-C4	-5.53	1.34	1.37
29	D1	647	A	N3-C4	-5.53	1.31	1.34
29	B1	2327	U	C2-N3	-5.53	1.33	1.37
29	B1	941	G	N1-C2	-5.52	1.33	1.37
29	D1	2689	A	N9-C4	5.52	1.41	1.37
29	B1	660	A	N9-C4	-5.51	1.34	1.37
29	D1	3342	A	C6-N6	-5.50	1.29	1.33
29	B1	685	G	C6-N1	-5.49	1.35	1.39
29	D1	2333	C	N1-C6	-5.47	1.33	1.37
29	B1	783	A	P-O5'	5.46	1.65	1.59
29	B1	3035	A	N9-C4	5.46	1.41	1.37
29	B1	588	G	N1-C2	-5.45	1.33	1.37
29	B1	1901	A	N3-C4	-5.45	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	662	U	C2-N3	-5.45	1.33	1.37
29	D1	1151	U	C2-N3	5.44	1.41	1.37
29	D1	1152	G	N9-C4	-5.44	1.33	1.38
29	B1	103	G	N9-C4	-5.44	1.33	1.38
29	B1	1401	A	N9-C4	-5.44	1.34	1.37
29	D1	2294	U	C2-N3	-5.44	1.33	1.37
29	B1	2991	A	N9-C4	-5.43	1.34	1.37
29	B1	2663	G	C5-C4	-5.43	1.34	1.38
29	D1	3124	G	N7-C5	-5.43	1.35	1.39
29	B1	904	A	N9-C4	-5.43	1.34	1.37
29	D1	1188	U	N3-C4	-5.43	1.33	1.38
1	A1	1421	A	N3-C4	5.42	1.38	1.34
29	B1	2147	A	N9-C4	-5.42	1.34	1.37
29	B1	2902	A	N9-C4	-5.42	1.34	1.37
29	B1	1891	A	C5-C6	-5.42	1.36	1.41
29	D1	2919	A	N7-C5	-5.41	1.36	1.39
29	D1	88	A	N9-C4	-5.41	1.34	1.37
30	B2	55	A	N9-C4	5.41	1.41	1.37
29	B1	48	A	N9-C4	-5.40	1.34	1.37
29	D1	595	G	C5-C6	-5.40	1.36	1.42
29	D1	3017	A	C6-N1	-5.40	1.31	1.35
29	D1	3040	A	N3-C4	-5.40	1.31	1.34
1	A1	45	U	C5-C6	-5.40	1.29	1.34
29	D1	994	G	C5-C4	-5.40	1.34	1.38
29	D1	2892	A	N9-C4	-5.40	1.34	1.37
29	D1	747	A	O3'-P	5.39	1.67	1.61
29	D1	370	U	N1-C2	-5.39	1.33	1.38
29	B1	3307	A	N9-C4	-5.38	1.34	1.37
29	D1	1381	A	N3-C4	-5.38	1.31	1.34
29	B1	389	A	C6-N1	-5.38	1.31	1.35
29	B1	1401	A	C6-N1	-5.38	1.31	1.35
29	B1	1151	U	C4-O4	5.38	1.27	1.23
29	B1	1915	A	N3-C4	-5.38	1.31	1.34
29	B1	390	G	N9-C4	-5.37	1.33	1.38
29	B1	651	G	N3-C4	-5.37	1.31	1.35
29	D1	1322	U	C4-O4	5.37	1.27	1.23
29	D1	95	A	N9-C4	-5.37	1.34	1.37
29	B1	2341	A	N9-C4	-5.37	1.34	1.37
29	B1	2320	A	N9-C4	-5.36	1.34	1.37
29	B1	654	C	N1-C6	-5.36	1.33	1.37
29	D1	3295	A	N9-C4	-5.36	1.34	1.37
29	B1	2358	A	N3-C4	-5.36	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A1	610	G	N7-C5	-5.36	1.36	1.39
29	D1	3173	G	N9-C4	-5.36	1.33	1.38
1	C1	45	U	C2-N3	5.35	1.41	1.37
29	B1	2968	G	C6-N1	-5.35	1.35	1.39
29	D1	2879	C	N1-C2	-5.34	1.34	1.40
29	D1	2895	G	N3-C4	-5.34	1.31	1.35
29	B1	1371	G	C6-O6	-5.34	1.19	1.24
29	B1	505	G	C5-C4	-5.33	1.34	1.38
1	A1	426	G	C6-N1	-5.33	1.35	1.39
29	B1	3266	G	C5-C6	5.33	1.47	1.42
29	B1	1333	C	N1-C6	-5.33	1.33	1.37
29	D1	2916	U	C2-N3	5.33	1.41	1.37
29	B1	1205	A	N3-C4	-5.32	1.31	1.34
29	D1	2667	A	P-O5'	5.32	1.65	1.59
29	B1	2520	A	N1-C2	-5.32	1.29	1.34
1	A1	127	G	C1'-N9	-5.31	1.39	1.46
29	D1	1327	C	N3-C4	-5.31	1.30	1.33
29	D1	746	A	N3-C4	5.31	1.38	1.34
29	D1	417	A	N3-C4	-5.30	1.31	1.34
29	D1	2757	U	N1-C2	-5.30	1.33	1.38
1	A1	1746	A	N9-C4	-5.29	1.34	1.37
29	B1	2932	U	C2-N3	-5.28	1.34	1.37
29	B1	2357	A	C6-N1	-5.28	1.31	1.35
30	D2	64	A	N9-C4	5.27	1.41	1.37
29	B1	3122	A	N9-C4	-5.26	1.34	1.37
29	B1	514	G	N9-C4	-5.26	1.33	1.38
29	B1	1319	G	C5-C4	-5.26	1.34	1.38
29	B1	500	C	C2-O2	-5.26	1.19	1.24
29	B1	3168	A	C6-N1	-5.26	1.31	1.35
29	B1	1157	G	C6-N1	-5.25	1.35	1.39
29	B1	1444	G	N7-C5	-5.25	1.36	1.39
29	D1	2957	G	N9-C4	-5.25	1.33	1.38
29	B1	374	A	N9-C4	-5.24	1.34	1.37
29	B1	1751	G	N9-C4	5.23	1.42	1.38
29	B1	2279	A	N7-C5	-5.23	1.36	1.39
29	D1	2665	U	C2-N3	-5.23	1.34	1.37
29	B1	209	A	N3-C4	-5.23	1.31	1.34
29	D1	2876	C	N1-C6	-5.23	1.34	1.37
29	D1	512	U	N3-C4	5.22	1.43	1.38
1	A1	555	A	N9-C4	5.22	1.41	1.37
29	B1	357	A	C6-N1	-5.22	1.31	1.35
29	B1	2643	A	N9-C4	-5.22	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A1	615	A	N9-C4	5.21	1.41	1.37
29	B1	714	G	N9-C4	-5.21	1.33	1.38
29	B1	985	U	P-O5'	-5.21	1.54	1.59
29	B1	1891	A	N7-C5	-5.21	1.36	1.39
1	A1	453	U	P-OP1	-5.21	1.40	1.49
29	D1	3218	A	N9-C4	5.21	1.41	1.37
29	B1	1148	G	N3-C4	-5.19	1.31	1.35
29	D1	423	A	P-O5'	5.19	1.65	1.59
29	D1	1302	A	C5-C4	-5.19	1.35	1.38
29	D1	3266	G	N3-C4	5.19	1.39	1.35
29	D1	1174	G	C6-N1	-5.18	1.35	1.39
29	D1	2914	G	C6-N1	-5.18	1.35	1.39
31	B3	37	A	N9-C4	-5.18	1.34	1.37
29	D1	1099	A	N3-C4	-5.18	1.31	1.34
1	C1	127	G	C1'-N9	-5.17	1.39	1.46
29	B1	1898	G	N3-C4	-5.17	1.31	1.35
29	B1	900	G	N9-C8	-5.16	1.34	1.37
14	CM	60	SER	CA-CB	-5.16	1.45	1.52
29	B1	2302	G	C6-N1	-5.15	1.35	1.39
29	B1	2369	G	N7-C5	-5.15	1.36	1.39
29	D1	3366	G	N9-C4	-5.15	1.33	1.38
1	C1	453	U	P-OP2	-5.15	1.40	1.49
30	D2	117	A	N9-C4	-5.14	1.34	1.37
29	D1	1434	G	N9-C4	-5.14	1.33	1.38
29	D1	2300	G	N9-C8	-5.14	1.34	1.37
29	B1	651	G	N1-C2	-5.13	1.33	1.37
29	B1	3314	A	N9-C4	5.13	1.41	1.37
29	D1	1212	A	C6-N1	-5.13	1.31	1.35
29	D1	2913	C	N1-C2	-5.13	1.35	1.40
29	D1	3303	G	N9-C4	5.13	1.42	1.38
29	D1	3053	G	N3-C4	-5.13	1.31	1.35
29	D1	3024	A	N3-C4	-5.13	1.31	1.34
1	C1	1110	G	C6-N1	-5.13	1.35	1.39
29	D1	3266	G	C2-N3	5.13	1.36	1.32
1	C1	342	C	N1-C6	-5.13	1.34	1.37
1	A1	95	G	N9-C4	-5.12	1.33	1.38
29	B1	513	G	N3-C4	-5.12	1.31	1.35
29	D1	3036	G	C6-N1	-5.12	1.35	1.39
29	D1	3266	G	C5-C6	5.12	1.47	1.42
29	B1	651	G	N9-C4	-5.11	1.33	1.38
29	B1	949	C	N3-C4	-5.11	1.30	1.33
29	B1	1915	A	N9-C4	-5.11	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	DP	167	TYR	CA-CB	-5.11	1.42	1.53
29	B1	2910	A	C5-C4	-5.11	1.35	1.38
29	B1	3029	A	N9-C4	-5.11	1.34	1.37
1	C1	336	G	C6-N1	-5.11	1.35	1.39
29	B1	3009	G	N9-C4	-5.10	1.33	1.38
29	D1	2856	G	C5-C6	-5.10	1.37	1.42
29	B1	3032	A	N9-C4	-5.10	1.34	1.37
29	B1	1429	G	N1-C2	-5.10	1.33	1.37
29	B1	1318	A	C5-C4	-5.09	1.35	1.38
29	D1	1312	C	C2-O2	-5.08	1.19	1.24
29	D1	2390	A	N3-C4	-5.08	1.31	1.34
29	D1	1156	C	C4-C5	-5.08	1.38	1.43
29	D1	783	A	P-O5'	5.08	1.64	1.59
29	D1	2913	C	C2-N3	-5.08	1.31	1.35
29	B1	3342	A	C6-N6	-5.07	1.29	1.33
29	D1	1318	A	N3-C4	-5.07	1.31	1.34
29	B1	1330	A	N9-C4	-5.07	1.34	1.37
29	B1	750	G	C5-C6	5.07	1.47	1.42
29	D1	1179	A	C5-C6	-5.07	1.36	1.41
29	D1	390	G	N9-C4	-5.07	1.33	1.38
29	D1	2338	C	N3-C4	-5.06	1.30	1.33
29	D1	2377	G	C5-C4	-5.06	1.34	1.38
29	B1	512	U	C4-O4	5.06	1.27	1.23
1	A1	1421	A	C5-C6	5.06	1.45	1.41
29	B1	2830	G	N3-C4	-5.06	1.31	1.35
29	D1	1319	G	N9-C4	-5.06	1.33	1.38
29	B1	3212	C	N1-C2	-5.06	1.35	1.40
29	B1	1506	A	C6-N1	-5.05	1.32	1.35
29	D1	529	A	N9-C4	-5.05	1.34	1.37
29	D1	2986	U	N1-C6	-5.05	1.33	1.38
29	B1	511	G	N9-C4	-5.05	1.33	1.38
29	B1	609	G	C5-C4	5.05	1.41	1.38
29	D1	1380	G	N9-C4	-5.05	1.33	1.38
29	B1	2131	A	N7-C5	-5.04	1.36	1.39
29	D1	1047	A	N3-C4	-5.04	1.31	1.34
29	B1	1197	A	N3-C4	5.04	1.37	1.34
29	B1	3272	C	N3-C4	5.04	1.37	1.33
30	B2	13	A	N1-C2	-5.04	1.29	1.34
29	B1	366	A	N9-C4	-5.03	1.34	1.37
29	D1	2939	G	N1-C2	-5.03	1.33	1.37
29	D1	2389	C	N1-C6	-5.03	1.34	1.37
29	D1	1330	A	N9-C4	-5.03	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	B1	863	C	N1-C6	-5.03	1.34	1.37
1	C1	373	G	N3-C4	-5.03	1.31	1.35
29	D1	1067	U	C2-N3	5.02	1.41	1.37
29	B1	1419	A	C6-N1	-5.02	1.32	1.35
1	C1	911	U	P-OP2	-5.02	1.40	1.49
1	C1	869	A	N9-C4	5.02	1.40	1.37
29	D1	3177	G	C6-N1	-5.02	1.36	1.39
29	B1	1410	U	N3-C4	-5.01	1.33	1.38
29	B1	1048	A	N9-C4	-5.01	1.34	1.37
29	B1	1434	G	N1-C2	5.01	1.41	1.37
29	D1	3245	A	C5-C6	-5.01	1.36	1.41
29	D1	2895	G	C6-N1	-5.01	1.36	1.39
29	B1	1098	A	N9-C4	-5.00	1.34	1.37
29	D1	3185	U	C2-N3	-5.00	1.34	1.37

All (7498) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	244	G	N1-C6-O6	43.40	145.94	119.90
29	B1	244	G	N1-C6-O6	41.87	145.02	119.90
29	D1	2845	A	N1-C6-N6	40.75	143.05	118.60
29	D1	2845	A	C6-N1-C2	39.78	142.47	118.60
29	B1	2845	A	N1-C6-N6	39.33	142.20	118.60
29	B1	2845	A	C6-N1-C2	38.60	141.76	118.60
29	D1	2845	A	C5-C6-N1	-36.02	99.69	117.70
29	B1	2845	A	C5-C6-N1	-33.95	100.72	117.70
29	D1	244	G	C5-C6-O6	-33.52	108.49	128.60
29	B1	244	G	C5-C6-O6	-32.38	109.17	128.60
29	B1	3184	A	C5-C6-N1	-31.90	101.75	117.70
1	C1	1455	G	N1-C6-O6	31.77	138.96	119.90
29	B1	2520	A	N1-C6-N6	31.72	137.63	118.60
29	B1	3184	A	N1-C6-N6	31.42	137.45	118.60
29	D1	3184	A	N1-C6-N6	30.18	136.71	118.60
29	D1	2520	A	N1-C6-N6	29.90	136.54	118.60
29	B1	308	A	C5-C6-N1	-29.85	102.78	117.70
29	B1	3184	A	C6-N1-C2	29.39	136.24	118.60
29	B1	1884	A	C5-C6-N1	-28.91	103.25	117.70
29	B1	1884	A	C6-N1-C2	28.79	135.87	118.60
29	D1	3184	A	C5-C6-N1	-28.75	103.32	117.70
1	A1	1455	G	N3-C2-N2	-28.67	99.83	119.90
29	B1	2520	A	C6-N1-C2	28.55	135.73	118.60
1	C1	1455	G	N3-C2-N2	-28.46	99.98	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1455	G	N1-C6-O6	28.06	136.74	119.90
29	D1	3184	A	C6-N1-C2	27.52	135.11	118.60
29	D1	2520	A	C6-N1-C2	26.71	134.62	118.60
29	B1	1884	A	N1-C6-N6	26.19	134.32	118.60
29	B1	308	A	C6-N1-C2	26.12	134.28	118.60
29	D1	1884	A	C6-N1-C2	25.89	134.13	118.60
29	D1	308	A	C5-C6-N1	-25.70	104.85	117.70
1	C1	1455	G	N1-C2-N2	25.68	139.31	116.20
29	D1	1884	A	C5-C6-N1	-25.59	104.90	117.70
29	D1	308	A	C6-N1-C2	25.24	133.74	118.60
29	D1	3212	C	N1-C2-O2	-25.07	103.86	118.90
29	B1	308	A	N1-C6-N6	24.99	133.60	118.60
1	A1	1455	G	N1-C2-N2	23.87	137.69	116.20
29	D1	1884	A	N1-C6-N6	23.83	132.90	118.60
29	D1	308	A	N1-C6-N6	23.49	132.69	118.60
29	D1	2520	A	C5-C6-N1	-22.93	106.23	117.70
29	B1	2845	A	N1-C2-N3	-22.84	117.88	129.30
29	B1	2520	A	C5-C6-N1	-22.45	106.47	117.70
1	C1	1455	G	C5-C6-O6	-22.26	115.24	128.60
29	B1	3212	C	N1-C2-O2	-21.82	105.81	118.90
1	C1	1455	G	C5-C6-N1	-21.57	100.71	111.50
29	D1	2845	A	N1-C2-N3	-21.57	118.52	129.30
29	D1	3176	G	N3-C4-N9	-21.18	113.29	126.00
29	B1	2520	A	N1-C2-N3	-21.05	118.78	129.30
29	B1	3179	U	N3-C4-O4	20.74	133.91	119.40
29	D1	505	G	N3-C2-N2	-20.40	105.62	119.90
29	D1	505	G	N3-C4-N9	-20.21	113.88	126.00
29	D1	272	G	N1-C6-O6	20.16	132.00	119.90
29	B1	2362	C	N1-C2-O2	-19.90	106.96	118.90
29	D1	2520	A	N1-C2-N3	-19.83	119.39	129.30
1	A1	1455	G	C5-C6-O6	-19.72	116.77	128.60
1	A1	1455	G	C5-C6-N1	-19.63	101.69	111.50
29	B1	272	G	N1-C6-O6	19.57	131.64	119.90
29	D1	1884	A	N1-C2-N3	-19.52	119.54	129.30
29	B1	505	G	N3-C2-N2	-19.43	106.30	119.90
29	B1	607	A	C8-N9-C4	-19.38	98.05	105.80
29	B1	505	G	N3-C4-N9	-19.22	114.47	126.00
29	D1	1951	C	N3-C4-C5	-19.21	114.22	121.90
29	D1	3179	U	N3-C4-O4	19.12	132.78	119.40
29	B1	3212	C	C2-N1-C1'	-19.08	97.81	118.80
29	B1	3176	G	N3-C4-N9	-18.90	114.66	126.00
29	B1	1951	C	N3-C4-C5	-18.48	114.51	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1434	G	N1-C6-O6	18.25	130.85	119.90
29	D1	3184	A	N1-C2-N3	-17.93	120.34	129.30
29	B1	3184	A	N1-C2-N3	-17.82	120.39	129.30
29	D1	2362	C	N1-C2-O2	-17.75	108.25	118.90
29	B1	3212	C	C6-N1-C1'	17.66	142.00	120.80
29	D1	308	A	N1-C2-N3	-17.66	120.47	129.30
29	D1	3212	C	C2-N1-C1'	-17.65	99.38	118.80
29	D1	518	G	N3-C4-C5	17.65	137.42	128.60
29	B1	1884	A	N1-C2-N3	-17.17	120.72	129.30
29	D1	1342	C	C6-N1-C2	17.14	127.16	120.30
29	B1	3179	U	N3-C2-O2	17.01	134.11	122.20
29	B1	2362	C	N3-C2-O2	17.00	133.80	121.90
29	B1	3176	G	N3-C4-C5	16.99	137.09	128.60
29	D1	3212	C	C6-N1-C1'	16.91	141.10	120.80
29	D1	1317	A	N1-C6-N6	16.74	128.65	118.60
29	D1	3176	G	N3-C4-C5	16.57	136.88	128.60
29	D1	3243	A	C2-N3-C4	16.55	118.88	110.60
1	C1	1455	G	C6-N1-C2	16.49	135.00	125.10
29	D1	2906	C	N1-C2-O2	-16.39	109.07	118.90
29	B1	3179	U	N1-C2-O2	-16.32	111.38	122.80
1	C1	825	U	N1-C2-N3	16.29	124.68	114.90
29	D1	607	A	C8-N9-C4	-16.27	99.29	105.80
1	C1	45	U	C2-N1-C1'	16.13	137.06	117.70
29	D1	518	G	C2-N3-C4	-16.11	103.85	111.90
29	D1	3025	C	C6-N1-C2	16.05	126.72	120.30
1	A1	825	U	N1-C2-N3	16.02	124.51	114.90
29	B1	3179	U	C5-C4-O4	-15.97	116.32	125.90
29	D1	3168	A	C6-N1-C2	15.88	128.13	118.60
29	B1	503	C	N1-C2-O2	-15.81	109.41	118.90
29	B1	308	A	N1-C2-N3	-15.78	121.41	129.30
29	D1	3179	U	C5-C4-O4	-15.77	116.44	125.90
29	B1	3168	A	C6-N1-C2	15.66	128.00	118.60
29	B1	3168	A	N1-C6-N6	15.61	127.96	118.60
29	D1	3168	A	N1-C6-N6	15.34	127.80	118.60
29	D1	513	G	N3-C4-N9	-15.31	116.81	126.00
29	B1	3257	C	C2-N1-C1'	-15.19	102.09	118.80
1	A1	45	U	C2-N1-C1'	15.19	135.92	117.70
29	D1	244	G	C5-C6-N1	-15.10	103.95	111.50
29	D1	3179	U	N1-C2-O2	-15.02	112.29	122.80
29	D1	505	G	N1-C2-N2	14.86	129.58	116.20
29	B1	606	C	C2-N1-C1'	14.84	135.12	118.80
1	C1	517	U	C2-N1-C1'	-14.80	99.93	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3179	U	N3-C2-O2	14.77	132.54	122.20
29	D1	2681	U	C2-N1-C1'	14.74	135.39	117.70
29	B1	244	G	C5-C6-N1	-14.66	104.17	111.50
29	D1	518	G	N3-C4-N9	-14.64	117.21	126.00
1	A1	1647	U	N3-C2-O2	14.64	132.45	122.20
29	B1	513	G	N3-C4-N9	-14.62	117.23	126.00
29	B1	505	G	N1-C2-N2	14.60	129.34	116.20
29	B1	2681	U	C2-N1-C1'	14.49	135.09	117.70
29	D1	513	G	N3-C4-C5	14.37	135.79	128.60
29	B1	1367	G	C5-C6-N1	-14.33	104.34	111.50
29	B1	102	C	C2-N1-C1'	14.32	134.55	118.80
29	D1	1450	G	N1-C6-O6	14.21	128.42	119.90
29	D1	505	G	N9-C4-C5	14.13	111.05	105.40
29	D1	1187	C	C6-N1-C2	14.11	125.95	120.30
1	A1	517	U	C2-N1-C1'	-14.08	100.80	117.70
29	D1	3219	G	C4-C5-N7	14.04	116.42	110.80
29	D1	1951	C	C2-N3-C4	14.01	126.91	119.90
29	D1	2689	A	C8-N9-C4	-14.00	100.20	105.80
29	B1	1951	C	C2-N3-C4	13.99	126.90	119.90
29	B1	32	U	C2-N1-C1'	-13.96	100.95	117.70
29	B1	577	C	N3-C2-O2	13.93	131.65	121.90
1	C1	1455	G	N1-C2-N3	-13.93	115.54	123.90
29	B1	3219	G	C4-C5-N7	13.83	116.33	110.80
29	D1	32	U	C2-N1-C1'	-13.79	101.16	117.70
1	A1	572	C	N1-C2-O2	13.75	127.15	118.90
29	B1	2689	A	C8-N9-C4	-13.74	100.30	105.80
29	D1	513	G	C2-N3-C4	-13.72	105.04	111.90
29	D1	2879	C	N3-C2-O2	13.69	131.49	121.90
29	B1	3219	G	N1-C6-O6	13.60	128.06	119.90
29	D1	3219	G	N1-C6-O6	13.55	128.03	119.90
1	A1	1437	U	C2-N1-C1'	-13.38	101.64	117.70
1	A1	1455	G	C6-N1-C2	13.37	133.12	125.10
29	D1	1317	A	C4-C5-N7	13.31	117.35	110.70
1	A1	610	G	C6-C5-N7	-13.30	122.42	130.40
29	D1	3176	G	N3-C2-N2	-13.31	110.59	119.90
29	B1	2990	G	N1-C6-O6	13.29	127.88	119.90
29	D1	2362	C	N3-C2-O2	13.29	131.21	121.90
1	C1	1647	U	N3-C2-O2	13.27	131.49	122.20
29	B1	1434	G	C5-C6-N1	-13.27	104.87	111.50
29	B1	32	U	C5-C6-N1	-13.25	116.07	122.70
1	A1	572	C	C2-N1-C1'	13.20	133.31	118.80
29	D1	2681	U	C6-N1-C1'	-13.13	102.81	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2681	U	C6-N1-C1'	-13.12	102.83	121.20
29	D1	3272	C	C6-N1-C2	-13.11	115.06	120.30
29	D1	514	G	N3-C4-N9	-12.98	118.21	126.00
29	B1	505	G	N3-C4-C5	12.94	135.07	128.60
29	D1	1434	G	N1-C6-O6	12.93	127.66	119.90
29	B1	3168	A	N1-C2-N3	-12.93	122.84	129.30
29	D1	2835	U	C5-C4-O4	-12.90	118.16	125.90
29	D1	606	C	C2-N1-C1'	12.90	132.99	118.80
29	B1	607	A	N7-C8-N9	12.89	120.25	113.80
29	D1	607	A	N7-C8-N9	12.89	120.25	113.80
30	D2	66	A	C6-N1-C2	12.89	126.33	118.60
29	B1	1507	G	N3-C4-C5	12.88	135.04	128.60
29	D1	505	G	N3-C4-C5	12.88	135.04	128.60
1	C1	1647	U	N3-C4-O4	12.87	128.41	119.40
29	B1	3001	C	C6-N1-C2	12.86	125.45	120.30
29	D1	3296	A	N1-C6-N6	12.84	126.30	118.60
1	A1	1647	U	C5-C4-O4	-12.83	118.20	125.90
29	D1	505	G	C5-C6-N1	-12.82	105.09	111.50
29	B1	3296	A	N1-C6-N6	12.81	126.29	118.60
29	B1	102	C	N1-C2-O2	12.79	126.58	118.90
1	A1	1234	A	N1-C6-N6	12.79	126.28	118.60
29	D1	3168	A	C5-C6-N1	-12.79	111.31	117.70
29	B1	1507	G	N3-C4-N9	-12.78	118.33	126.00
29	B1	3243	A	C2-N3-C4	12.77	116.99	110.60
29	B1	2520	A	C5-C6-N6	-12.74	113.50	123.70
1	C1	1647	U	C5-C4-O4	-12.74	118.26	125.90
29	B1	2845	A	C5-C6-N6	-12.71	113.53	123.70
29	D1	556	U	C5-C4-O4	12.66	133.50	125.90
29	D1	1192	C	C2-N1-C1'	12.65	132.72	118.80
29	B1	3297	U	N3-C2-O2	-12.64	113.35	122.20
29	D1	102	C	C2-N1-C1'	12.64	132.70	118.80
29	D1	424	G	C6-C5-N7	-12.60	122.84	130.40
29	B1	505	G	N9-C4-C5	12.60	110.44	105.40
29	D1	2667	A	C2-N3-C4	12.58	116.89	110.60
29	D1	3205	G	N1-C6-O6	-12.56	112.36	119.90
29	B1	3025	C	C6-N1-C2	12.56	125.32	120.30
1	A1	45	U	C5-C4-O4	-12.52	118.39	125.90
29	B1	335	G	N1-C6-O6	12.50	127.40	119.90
30	B2	13	A	C4-C5-C6	-12.50	110.75	117.00
1	A1	1647	U	N3-C4-O4	12.49	128.14	119.40
29	D1	94	G	N3-C4-N9	-12.48	118.51	126.00
29	D1	272	G	C5-C6-N1	-12.46	105.27	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1507	G	N3-C4-N9	-12.44	118.53	126.00
29	D1	3257	C	C2-N1-C1'	-12.44	105.12	118.80
1	C1	1234	A	N1-C6-N6	12.41	126.05	118.60
29	B1	577	C	N1-C2-O2	-12.39	111.46	118.90
30	B2	96	U	C5-C6-N1	-12.36	116.52	122.70
29	B1	2906	C	N1-C2-O2	-12.34	111.49	118.90
29	B1	556	U	C5-C4-O4	12.33	133.30	125.90
29	B1	723	U	C5-C4-O4	-12.30	118.52	125.90
29	B1	3192	U	N1-C2-O2	-12.27	114.21	122.80
29	B1	1751	G	N1-C6-O6	-12.26	112.54	119.90
29	B1	2663	G	N1-C6-O6	-12.26	112.54	119.90
29	D1	1190	A	C5-C6-N1	12.26	123.83	117.70
29	D1	3392	U	C2-N3-C4	-12.26	119.65	127.00
29	B1	272	G	C5-C6-N1	-12.25	105.38	111.50
29	B1	3296	A	C5-C6-N6	-12.23	113.92	123.70
29	B1	577	C	N3-C4-N4	12.19	126.53	118.00
29	B1	1097	G	C4-C5-N7	-12.17	105.93	110.80
29	D1	2916	U	C5-C4-O4	-12.17	118.60	125.90
29	D1	1367	G	C5-C6-N1	-12.15	105.43	111.50
1	A1	45	U	C6-N1-C1'	-12.13	104.22	121.20
29	D1	507	U	N3-C2-O2	-12.12	113.72	122.20
29	B1	3176	G	N3-C2-N2	-12.11	111.42	119.90
29	D1	2879	C	N1-C2-O2	-12.10	111.64	118.90
29	D1	3212	C	C2-N3-C4	-12.06	113.87	119.90
29	B1	2958	A	C8-N9-C4	12.02	110.61	105.80
30	D2	112	G	N1-C6-O6	-12.02	112.69	119.90
29	D1	2845	A	C5-C6-N6	-11.99	114.11	123.70
29	D1	3192	U	N1-C2-O2	-11.99	114.41	122.80
29	B1	3392	U	C2-N3-C4	-11.98	119.81	127.00
29	D1	3212	C	N1-C2-N3	11.95	127.57	119.20
29	D1	518	G	C5-C6-N1	-11.94	105.53	111.50
29	D1	3184	A	C5-C6-N6	-11.93	114.15	123.70
29	B1	969	C	C6-N1-C2	11.91	125.06	120.30
29	D1	2358	A	C8-N9-C4	11.90	110.56	105.80
1	A1	610	G	C4-N9-C1'	11.90	141.97	126.50
29	D1	1317	A	N9-C4-C5	-11.89	101.04	105.80
29	D1	963	G	C6-C5-N7	-11.88	123.27	130.40
29	D1	3176	G	C2-N3-C4	-11.84	105.98	111.90
29	B1	1887	A	C2-N3-C4	-11.83	104.69	110.60
1	C1	45	U	C6-N1-C1'	-11.79	104.70	121.20
1	C1	62	A	N1-C6-N6	-11.78	111.53	118.60
29	D1	3297	U	N3-C2-O2	-11.75	113.97	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	517	U	C6-N1-C1'	11.75	137.65	121.20
29	D1	3303	G	C4-C5-N7	-11.73	106.11	110.80
29	B1	3168	A	C5-C6-N1	-11.73	111.83	117.70
29	D1	389	A	C5-C6-N6	11.72	133.08	123.70
29	B1	588	G	C4-C5-N7	-11.71	106.11	110.80
31	B3	34	U	N3-C2-O2	-11.71	114.00	122.20
1	C1	1437	U	C2-N1-C1'	-11.67	103.69	117.70
29	B1	500	C	C2-N1-C1'	11.67	131.63	118.80
30	B2	66	A	C6-N1-C2	11.66	125.59	118.60
29	D1	1146	C	C6-N1-C2	11.65	124.96	120.30
29	B1	421	G	C6-C5-N7	-11.65	123.41	130.40
1	A1	1455	G	N1-C2-N3	-11.64	116.92	123.90
29	B1	1402	C	C6-N1-C2	11.64	124.95	120.30
29	B1	1151	U	N3-C4-C5	-11.63	107.62	114.60
29	D1	1450	G	C4-C5-N7	11.63	115.45	110.80
29	B1	606	C	N3-C4-N4	11.62	126.14	118.00
29	B1	557	A	C5-C6-N1	-11.61	111.89	117.70
29	D1	3219	G	C5-C6-O6	-11.61	121.64	128.60
29	B1	668	G	C8-N9-C4	11.61	111.04	106.40
29	B1	644	G	C5-C6-N1	-11.60	105.70	111.50
1	A1	62	A	N1-C6-N6	-11.59	111.65	118.60
29	D1	2330	C	C6-N1-C2	11.59	124.94	120.30
29	B1	2395	G	C8-N9-C4	-11.59	101.77	106.40
29	B1	718	G	N3-C4-C5	-11.58	122.81	128.60
29	B1	606	C	C6-N1-C1'	-11.57	106.92	120.80
29	D1	3363	U	N1-C2-O2	11.56	130.90	122.80
29	B1	3257	C	C6-N1-C1'	11.56	134.67	120.80
29	D1	3297	U	C2-N1-C1'	11.55	131.56	117.70
1	A1	437	A	C5-C6-N6	-11.54	114.47	123.70
29	D1	424	G	N1-C6-O6	11.52	126.81	119.90
29	B1	1192	C	C2-N1-C1'	11.51	131.46	118.80
29	B1	2358	A	C8-N9-C4	11.51	110.41	105.80
29	B1	3176	G	C4-N9-C1'	-11.51	111.54	126.50
1	C1	45	U	C5-C4-O4	-11.49	119.01	125.90
29	B1	3177	G	N3-C4-N9	-11.48	119.11	126.00
29	D1	606	C	C6-N1-C1'	-11.48	107.02	120.80
29	D1	1190	A	C2-N3-C4	11.47	116.33	110.60
29	B1	514	G	N3-C4-N9	-11.44	119.14	126.00
29	B1	2667	A	C2-N3-C4	11.44	116.32	110.60
29	D1	3272	C	C5-C6-N1	11.42	126.71	121.00
29	D1	1192	C	C6-N1-C2	-11.41	115.74	120.30
29	D1	3243	A	C5-C6-N6	-11.40	114.58	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	509	U	N3-C2-O2	-11.40	114.22	122.20
29	D1	2520	A	C5-C6-N6	-11.37	114.60	123.70
29	D1	2906	C	N3-C2-O2	11.36	129.85	121.90
29	D1	1323	G	C8-N9-C4	-11.35	101.86	106.40
29	D1	577	C	N3-C4-N4	11.26	125.88	118.00
29	B1	1148	G	C6-C5-N7	-11.23	123.66	130.40
29	D1	45	A	C8-N9-C4	11.21	110.28	105.80
29	D1	2377	G	N3-C4-N9	-11.21	119.27	126.00
29	B1	389	A	C5-C6-N6	11.20	132.66	123.70
29	D1	3177	G	N9-C4-C5	11.19	109.88	105.40
29	B1	586	C	N1-C2-O2	-11.18	112.19	118.90
29	D1	2682	C	C6-N1-C2	11.17	124.77	120.30
1	A1	1455	G	C4-C5-N7	-11.15	106.34	110.80
29	B1	3268	A	C8-N9-C4	11.14	110.26	105.80
29	D1	2278	C	N1-C2-O2	11.14	125.59	118.90
29	B1	589	A	C8-N9-C4	-11.14	101.34	105.80
29	B1	1506	A	C8-N9-C4	-11.14	101.34	105.80
30	D2	66	A	C5-C6-N1	-11.12	112.14	117.70
29	D1	1175	C	N3-C4-C5	11.12	126.35	121.90
1	C1	572	C	N1-C2-O2	11.10	125.56	118.90
1	A1	337	G	C4-C5-N7	11.10	115.24	110.80
29	B1	32	U	C2-N3-C4	-11.09	120.35	127.00
29	B1	963	G	C6-C5-N7	-11.08	123.75	130.40
29	D1	1147	G	N1-C6-O6	11.06	126.54	119.90
29	B1	338	A	C8-N9-C4	-11.06	101.38	105.80
29	D1	3176	G	N9-C4-C5	11.06	109.82	105.40
29	D1	390	G	N3-C4-N9	-11.05	119.37	126.00
29	D1	3168	A	N1-C2-N3	-11.03	123.79	129.30
30	D2	113	C	C2-N3-C4	-11.03	114.39	119.90
30	D2	112	G	N9-C4-C5	11.02	109.81	105.40
29	D1	1450	G	C6-C5-N7	-11.02	123.79	130.40
30	D2	111	U	C2-N1-C1'	11.02	130.92	117.70
1	A1	437	A	C6-N1-C2	-11.01	111.99	118.60
29	B1	656	A	C5-C6-N1	11.01	123.21	117.70
29	B1	3297	U	C2-N1-C1'	10.99	130.89	117.70
29	B1	644	G	C2-N3-C4	-10.99	106.41	111.90
1	C1	650	U	C5-C4-O4	-10.99	119.31	125.90
29	B1	513	G	C2-N3-C4	-10.97	106.41	111.90
29	D1	3266	G	C2-N3-C4	10.97	117.38	111.90
29	D1	389	A	N1-C6-N6	-10.96	112.02	118.60
29	B1	3184	A	C5-C6-N6	-10.96	114.93	123.70
1	C1	610	G	C4-N9-C1'	10.96	140.75	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	503	C	N1-C2-O2	-10.95	112.33	118.90
29	B1	390	G	N3-C4-N9	-10.94	119.44	126.00
29	B1	886	C	C6-N1-C2	10.93	124.67	120.30
29	D1	3177	G	N3-C4-N9	-10.93	119.44	126.00
29	D1	2362	C	C5-C6-N1	-10.93	115.53	121.00
29	B1	1148	G	N1-C6-O6	10.93	126.46	119.90
1	C1	572	C	C2-N1-C1'	10.93	130.82	118.80
29	D1	3176	G	N1-C2-N2	10.91	126.02	116.20
29	B1	1097	G	N9-C4-C5	10.89	109.76	105.40
29	B1	513	G	N3-C4-C5	10.87	134.04	128.60
29	D1	3176	G	C5-C6-N1	-10.87	106.07	111.50
29	D1	2667	A	C5-C6-N1	10.86	123.13	117.70
29	B1	2916	U	C5-C4-O4	-10.86	119.39	125.90
29	D1	2993	G	C5-C6-O6	10.86	135.11	128.60
1	C1	1639	C	C6-N1-C2	10.84	124.64	120.30
29	D1	556	U	N3-C4-O4	-10.84	111.81	119.40
29	D1	847	A	N1-C2-N3	10.84	134.72	129.30
29	D1	3212	C	C5-C6-N1	-10.82	115.59	121.00
30	D2	13	A	C4-C5-C6	-10.82	111.59	117.00
1	A1	1639	C	C6-N1-C2	10.82	124.63	120.30
29	D1	2993	G	C4-C5-N7	-10.81	106.47	110.80
29	B1	612	U	C5-C4-O4	-10.81	119.41	125.90
1	A1	517	U	C6-N1-C1'	10.79	136.31	121.20
1	A1	650	U	C5-C4-O4	-10.79	119.42	125.90
29	B1	3219	G	C6-C5-N7	-10.79	123.93	130.40
30	D2	13	A	N1-C6-N6	-10.78	112.13	118.60
29	B1	3077	A	C8-N9-C4	-10.77	101.49	105.80
29	B1	3090	U	C5-C6-N1	10.77	128.08	122.70
29	D1	3296	A	C5-C6-N6	-10.74	115.10	123.70
29	D1	1507	G	N3-C4-C5	10.74	133.97	128.60
29	B1	3322	A	C6-N1-C2	10.73	125.04	118.60
29	D1	3303	G	N3-C4-C5	-10.73	123.23	128.60
29	B1	3143	C	C5-C6-N1	10.71	126.36	121.00
29	B1	606	C	C5-C4-N4	-10.70	112.71	120.20
29	D1	272	G	C5-C6-O6	-10.68	122.19	128.60
29	B1	638	C	C2-N3-C4	-10.67	114.57	119.90
29	B1	504	A	N1-C6-N6	10.65	124.99	118.60
30	D2	113	C	C5-C6-N1	-10.65	115.68	121.00
1	C1	437	A	C5-C6-N6	-10.64	115.19	123.70
29	D1	2835	U	C5-C6-N1	10.64	128.02	122.70
29	B1	556	U	N3-C4-O4	-10.63	111.96	119.40
31	B3	92	A	C6-N1-C2	10.63	124.98	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2377	G	N3-C4-N9	-10.62	119.63	126.00
29	B1	3266	G	C2-N3-C4	10.62	117.21	111.90
29	B1	640	U	N1-C2-O2	-10.62	115.37	122.80
29	B1	505	G	N1-C6-O6	10.61	126.27	119.90
29	D1	1317	A	C6-C5-N7	-10.61	124.87	132.30
29	D1	3272	C	N3-C4-N4	10.61	125.43	118.00
29	B1	1067	U	C5-C4-O4	-10.60	119.54	125.90
29	B1	94	G	N3-C4-N9	-10.60	119.64	126.00
29	D1	2667	A	N1-C6-N6	-10.60	112.24	118.60
29	B1	588	G	N1-C2-N3	10.60	130.26	123.90
29	D1	577	C	N3-C2-O2	10.58	129.31	121.90
29	B1	3179	U	N3-C4-C5	-10.57	108.26	114.60
1	A1	610	G	C8-N9-C1'	-10.56	113.27	127.00
29	D1	518	G	N1-C6-O6	10.56	126.24	119.90
29	B1	518	G	N3-C4-C5	10.56	133.88	128.60
29	D1	1147	G	C4-C5-N7	10.56	115.02	110.80
31	D3	92	A	C6-N1-C2	10.55	124.93	118.60
29	B1	1190	A	C2-N3-C4	10.54	115.87	110.60
29	B1	500	C	C6-N1-C2	-10.54	116.08	120.30
29	B1	2939	G	C5-C6-O6	10.53	134.92	128.60
29	B1	2331	C	N1-C2-O2	-10.53	112.58	118.90
1	A1	358	U	N3-C2-O2	-10.52	114.84	122.20
1	A1	572	C	C5-C6-N1	10.51	126.25	121.00
29	B1	1917	C	C6-N1-C2	10.50	124.50	120.30
30	B2	13	A	N1-C6-N6	-10.50	112.30	118.60
29	D1	3243	A	N1-C2-N3	-10.50	124.05	129.30
29	D1	3132	C	C6-N1-C2	10.50	124.50	120.30
29	B1	3303	G	N3-C4-C5	-10.49	123.36	128.60
29	B1	3176	G	N1-C2-N2	10.48	125.64	116.20
29	B1	1508	C	C6-N1-C2	-10.48	116.11	120.30
29	D1	1320	C	N3-C4-N4	10.46	125.33	118.00
29	D1	3025	C	C5-C6-N1	-10.46	115.77	121.00
29	D1	2681	U	C5-C4-O4	-10.45	119.63	125.90
29	B1	2993	G	N1-C6-O6	-10.44	113.64	119.90
29	B1	3392	U	C2-N1-C1'	10.44	130.23	117.70
29	B1	963	G	N3-C4-N9	10.43	132.26	126.00
29	B1	1362	G	C8-N9-C4	10.43	110.57	106.40
29	D1	1169	A	N1-C6-N6	-10.43	112.34	118.60
30	B2	15	C	C6-N1-C1'	-10.42	108.29	120.80
29	B1	272	G	C5-C6-O6	-10.41	122.35	128.60
29	D1	2993	G	N9-C4-C5	10.40	109.56	105.40
29	D1	3176	G	C4-N9-C1'	-10.40	112.97	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2365	C	C6-N1-C2	10.40	124.46	120.30
29	D1	1317	A	C5-N7-C8	-10.40	98.70	103.90
1	A1	686	C	C2-N3-C4	-10.38	114.71	119.90
29	B1	1525	G	C8-N9-C1'	-10.39	113.50	127.00
29	D1	3137	C	C5-C6-N1	-10.38	115.81	121.00
29	B1	2391	G	C8-N9-C4	10.37	110.55	106.40
29	D1	963	G	C4-C5-N7	10.36	114.94	110.80
29	D1	3257	C	C6-N1-C1'	10.34	133.21	120.80
1	C1	1073	G	N3-C4-N9	10.34	132.20	126.00
29	B1	2195	C	N3-C4-C5	10.33	126.03	121.90
29	B1	421	G	C2-N3-C4	-10.32	106.74	111.90
29	D1	2333	C	C6-N1-C2	10.31	124.43	120.30
1	C1	686	C	C2-N3-C4	-10.31	114.74	119.90
29	D1	2876	C	C5-C6-N1	-10.30	115.85	121.00
29	B1	2990	G	C5-C6-O6	-10.29	122.43	128.60
29	B1	3176	G	C8-N9-C1'	10.28	140.37	127.00
29	B1	3257	C	N1-C2-O2	-10.28	112.73	118.90
29	D1	2913	C	C2-N1-C1'	-10.28	107.50	118.80
29	B1	3223	A	N1-C2-N3	-10.27	124.16	129.30
29	D1	726	G	N3-C4-C5	-10.27	123.46	128.60
29	B1	389	A	N1-C6-N6	-10.27	112.44	118.60
29	B1	1507	G	C8-N9-C1'	10.27	140.35	127.00
29	D1	2664	C	N3-C4-C5	10.25	126.00	121.90
1	A1	437	A	N1-C6-N6	10.25	124.75	118.60
29	B1	3130	A	N1-C6-N6	10.25	124.75	118.60
29	B1	3272	C	C6-N1-C2	-10.24	116.20	120.30
31	D3	34	U	N3-C2-O2	-10.24	115.03	122.20
1	C1	1653	C	C6-N1-C2	10.23	124.39	120.30
29	D1	1507	G	C8-N9-C1'	10.23	140.31	127.00
29	D1	3243	A	N3-C4-N9	10.22	135.58	127.40
29	B1	1148	G	C4-C5-N7	10.21	114.88	110.80
30	B2	112	G	N1-C6-O6	-10.20	113.78	119.90
29	B1	2993	G	N9-C4-C5	10.20	109.48	105.40
1	C1	437	A	C6-N1-C2	-10.20	112.48	118.60
29	B1	379	C	N3-C4-N4	10.19	125.13	118.00
29	D1	500	C	C2-N1-C1'	10.18	130.00	118.80
29	D1	1188	U	N3-C4-O4	-10.17	112.28	119.40
1	C1	869	A	C6-N1-C2	-10.16	112.50	118.60
29	B1	1317	A	N1-C6-N6	10.16	124.69	118.60
29	B1	102	C	C6-N1-C1'	-10.15	108.61	120.80
29	B1	1610	G	C4-C5-N7	10.15	114.86	110.80
29	B1	586	C	N3-C2-O2	10.15	129.01	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2378	C	C6-N1-C2	-10.15	116.24	120.30
29	B1	2879	C	N1-C2-O2	-10.13	112.82	118.90
29	D1	1067	U	C5-C4-O4	-10.13	119.82	125.90
29	D1	3176	G	C5-C6-O6	10.12	134.67	128.60
1	A1	1647	U	N1-C2-O2	-10.10	115.73	122.80
30	B2	96	U	C2-N3-C4	-10.10	120.94	127.00
29	B1	588	G	N9-C4-C5	10.10	109.44	105.40
29	D1	3244	A	C8-N9-C4	10.10	109.84	105.80
29	D1	1302	A	C2-N3-C4	10.09	115.64	110.60
29	B1	1434	G	N9-C4-C5	-10.09	101.37	105.40
29	B1	1434	G	C2-N3-C4	-10.08	106.86	111.90
1	C1	647	G	C6-N1-C2	-10.08	119.05	125.10
1	C1	610	G	C8-N9-C1'	-10.07	113.91	127.00
30	D2	15	C	C2-N1-C1'	10.07	129.88	118.80
34	DC	96	PRO	N-CA-CB	10.07	115.38	103.30
29	B1	3363	U	N1-C2-O2	10.06	129.84	122.80
29	D1	3243	A	N3-C4-C5	-10.06	119.76	126.80
30	D2	66	A	C5-C6-N6	10.05	131.74	123.70
29	B1	589	A	C2-N3-C4	10.05	115.62	110.60
29	B1	428	A	N1-C6-N6	10.05	124.63	118.60
29	D1	272	G	C6-N1-C2	10.04	131.12	125.10
29	B1	2681	U	C5-C4-O4	-10.03	119.88	125.90
29	B1	2289	U	C2-N3-C4	-10.03	120.98	127.00
29	D1	577	C	N1-C2-O2	-10.03	112.89	118.90
29	B1	515	C	N1-C2-O2	-10.02	112.89	118.90
29	B1	3219	G	C5-N7-C8	-10.02	99.29	104.30
29	B1	2993	G	C4-C5-N7	-9.99	106.80	110.80
29	D1	1434	G	C5-C6-N1	-9.99	106.50	111.50
29	B1	2892	A	N1-C6-N6	9.99	124.59	118.60
29	B1	2245	C	C6-N1-C2	-9.99	116.30	120.30
29	B1	1363	A	C8-N9-C4	9.98	109.79	105.80
29	B1	2115	G	C4-C5-N7	9.98	114.79	110.80
1	C1	437	A	N1-C6-N6	9.97	124.58	118.60
29	D1	3322	A	C6-N1-C2	9.97	124.58	118.60
1	A1	647	G	C6-N1-C2	-9.97	119.12	125.10
29	B1	513	G	C5-C6-O6	9.96	134.57	128.60
29	D1	402	A	N1-C6-N6	9.96	124.57	118.60
29	B1	3272	C	C5-C6-N1	9.95	125.98	121.00
29	D1	886	C	C6-N1-C2	9.95	124.28	120.30
29	B1	2689	A	N7-C8-N9	9.95	118.77	113.80
30	D2	15	C	C6-N1-C1'	-9.95	108.86	120.80
29	B1	192	C	N1-C2-O2	-9.95	112.93	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	D2	112	G	C4-C5-N7	-9.95	106.82	110.80
29	B1	3244	A	C8-N9-C4	9.94	109.78	105.80
29	B1	1367	G	N1-C6-O6	9.94	125.86	119.90
29	D1	3324	C	N3-C2-O2	-9.94	114.94	121.90
29	D1	515	C	N1-C2-O2	-9.93	112.94	118.90
1	A1	869	A	C6-N1-C2	-9.93	112.64	118.60
1	A1	610	G	N1-C6-O6	9.92	125.85	119.90
29	D1	3298	C	N3-C4-C5	9.91	125.86	121.90
29	D1	505	G	N1-C6-O6	9.90	125.84	119.90
29	D1	379	C	N3-C4-N4	9.90	124.93	118.00
29	D1	593	C	N1-C2-O2	9.89	124.84	118.90
29	B1	676	G	N3-C4-C5	-9.89	123.66	128.60
29	D1	2339	C	N3-C2-O2	-9.89	114.98	121.90
1	C1	825	U	C5-C4-O4	9.89	131.83	125.90
30	D2	13	A	C6-C5-N7	9.88	139.21	132.30
1	C1	825	U	C4-C5-C6	9.86	125.62	119.70
29	B1	370	U	N1-C2-O2	-9.85	115.90	122.80
29	B1	588	G	N1-C6-O6	-9.85	113.99	119.90
29	D1	1151	U	C6-N1-C2	-9.85	115.09	121.00
29	D1	3219	G	N9-C4-C5	-9.85	101.46	105.40
29	D1	3386	G	C6-C5-N7	-9.85	124.49	130.40
29	B1	1175	C	C2-N3-C4	-9.85	114.98	119.90
29	B1	3181	C	C4-C5-C6	-9.84	112.48	117.40
29	B1	73	C	C6-N1-C2	-9.83	116.37	120.30
29	B1	421	G	N1-C6-O6	9.83	125.80	119.90
29	D1	1147	G	C2-N3-C4	-9.83	106.98	111.90
29	D1	2929	C	C5-C4-N4	-9.83	113.32	120.20
29	D1	507	U	N1-C2-O2	9.82	129.68	122.80
29	B1	2391	G	N9-C4-C5	-9.82	101.47	105.40
29	B1	2398	A	N1-C6-N6	9.82	124.49	118.60
29	D1	3198	U	C2-N1-C1'	9.81	129.48	117.70
29	B1	656	A	C6-N1-C2	-9.81	112.72	118.60
29	D1	596	C	C6-N1-C2	-9.81	116.38	120.30
29	B1	1339	C	C6-N1-C2	-9.80	116.38	120.30
1	C1	1463	C	C6-N1-C2	9.80	124.22	120.30
29	B1	853	G	N1-C6-O6	-9.80	114.02	119.90
1	C1	939	A	C8-N9-C4	-9.79	101.89	105.80
29	B1	1056	U	C2-N1-C1'	9.78	129.44	117.70
29	B1	3095	U	N3-C2-O2	9.78	129.04	122.20
29	B1	832	G	N1-C6-O6	9.76	125.76	119.90
29	B1	1877	U	C2-N1-C1'	9.76	129.41	117.70
29	B1	832	G	C5-C6-O6	-9.75	122.75	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1884	A	C5-C6-N6	-9.75	115.90	123.70
30	D2	47	C	C2-N1-C1'	9.75	129.53	118.80
29	D1	513	G	C5-C6-O6	9.75	134.45	128.60
29	B1	1507	G	C4-N9-C1'	-9.75	113.83	126.50
29	D1	3176	G	C8-N9-C1'	9.74	139.66	127.00
29	B1	2283	G	C8-N9-C4	-9.73	102.51	106.40
29	B1	638	C	C5-C6-N1	-9.73	116.13	121.00
29	D1	2671	A	C5-C6-N6	-9.73	115.92	123.70
29	D1	503	C	C2-N3-C4	-9.73	115.04	119.90
29	B1	630	A	N1-C6-N6	9.71	124.43	118.60
29	B1	2377	G	N3-C2-N2	-9.71	113.10	119.90
30	B2	13	A	C6-C5-N7	9.71	139.10	132.30
29	D1	1548	C	C6-N1-C2	9.71	124.18	120.30
29	D1	1047	A	N1-C6-N6	-9.70	112.78	118.60
29	D1	2993	G	N1-C6-O6	-9.69	114.09	119.90
29	D1	1877	U	C2-N1-C1'	9.69	129.33	117.70
29	D1	3227	A	C6-N1-C2	9.69	124.41	118.60
29	D1	1434	G	C2-N3-C4	-9.69	107.06	111.90
29	D1	3137	C	C2-N3-C4	-9.68	115.06	119.90
29	B1	3303	G	C4-C5-N7	-9.68	106.93	110.80
29	B1	3390	G	N3-C4-N9	9.68	131.81	126.00
29	D1	424	G	C4-C5-N7	9.67	114.67	110.80
1	C1	572	C	C6-N1-C1'	-9.66	109.21	120.80
29	B1	1525	G	C4-N9-C1'	9.66	139.05	126.50
1	C1	1045	C	N1-C2-O2	9.66	124.69	118.90
29	D1	2689	A	N7-C8-N9	9.66	118.63	113.80
45	BP	131	PRO	N-CA-CB	9.65	114.89	103.30
29	B1	723	U	C2-N1-C1'	9.65	129.28	117.70
29	B1	3226	A	C5-C6-N6	9.65	131.42	123.70
29	B1	640	U	N3-C4-O4	9.64	126.15	119.40
29	D1	676	G	N3-C4-C5	-9.64	123.78	128.60
1	A1	1045	C	N1-C2-O2	9.64	124.68	118.90
29	D1	424	G	C5-C6-O6	-9.64	122.82	128.60
29	D1	3212	C	N3-C4-N4	-9.63	111.26	118.00
1	A1	1455	G	N9-C4-C5	9.63	109.25	105.40
29	B1	2186	U	C5-C4-O4	9.63	131.68	125.90
30	D2	46	A	C8-N9-C4	-9.62	101.95	105.80
1	A1	1090	C	C6-N1-C2	-9.62	116.45	120.30
29	D1	1329	U	N1-C2-O2	-9.62	116.07	122.80
29	B1	1047	A	N1-C6-N6	-9.62	112.83	118.60
30	B2	66	A	C5-C6-N6	9.61	131.39	123.70
29	D1	3181	C	N3-C4-C5	9.62	125.75	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1450	G	C5-C6-O6	-9.61	122.83	128.60
1	A1	647	G	C5-C6-O6	-9.60	122.84	128.60
29	B1	3243	A	C5-C6-N6	-9.60	116.02	123.70
1	A1	1437	U	C6-N1-C1'	9.58	134.61	121.20
29	B1	389	A	C6-N1-C2	9.57	124.34	118.60
29	D1	3223	A	C6-N1-C2	9.57	124.34	118.60
29	B1	1333	C	C6-N1-C2	9.57	124.13	120.30
30	D2	13	A	N3-C4-N9	-9.56	119.75	127.40
29	B1	3193	C	N1-C2-O2	-9.55	113.17	118.90
29	B1	505	G	C8-N9-C1'	9.54	139.40	127.00
29	D1	3200	G	C5-C6-O6	9.54	134.32	128.60
29	D1	1320	C	C2-N1-C1'	9.54	129.29	118.80
29	D1	3390	G	N3-C4-N9	9.53	131.72	126.00
29	B1	92	G	C4-N9-C1'	9.53	138.88	126.50
29	D1	1295	G	C8-N9-C4	9.52	110.21	106.40
29	D1	2809	C	C6-N1-C2	9.52	124.11	120.30
1	C1	1234	A	C6-N1-C2	9.52	124.31	118.60
29	B1	501	A	C8-N9-C4	9.51	109.61	105.80
29	D1	3176	G	C4-C5-N7	-9.51	106.99	110.80
29	B1	963	G	C4-N9-C1'	9.51	138.87	126.50
29	D1	1220	U	C3'-C2'-C1'	-9.51	93.89	101.50
1	C1	865	A	C8-N9-C4	9.51	109.60	105.80
29	D1	561	C	N1-C2-O2	-9.51	113.20	118.90
30	D2	13	A	C4-N9-C1'	-9.50	109.20	126.30
29	D1	2990	G	C5-C6-O6	-9.50	122.90	128.60
29	B1	744	A	N1-C6-N6	-9.50	112.90	118.60
29	B1	517	G	N9-C4-C5	9.50	109.20	105.40
29	D1	32	U	C5-C6-N1	-9.49	117.95	122.70
29	B1	3219	G	C5-C6-O6	-9.48	122.91	128.60
29	D1	503	C	N1-C2-N3	9.48	125.84	119.20
29	D1	1342	C	N3-C4-C5	9.48	125.69	121.90
29	B1	3392	U	N3-C2-O2	-9.47	115.57	122.20
29	B1	3227	A	C6-N1-C2	9.47	124.28	118.60
29	B1	3198	U	C2-N1-C1'	9.46	129.05	117.70
29	B1	2993	G	C5-C6-O6	9.46	134.27	128.60
29	B1	3272	C	N3-C4-N4	9.46	124.62	118.00
29	B1	3243	A	N1-C2-N3	-9.45	124.57	129.30
29	D1	1327	C	C2-N3-C4	-9.45	115.17	119.90
29	B1	661	G	C5-C6-N1	-9.45	106.78	111.50
29	D1	2916	U	N3-C4-O4	9.45	126.01	119.40
29	D1	886	C	C5-C6-N1	-9.44	116.28	121.00
29	D1	3001	C	C6-N1-C2	9.44	124.08	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	B2	46	A	C8-N9-C4	-9.44	102.02	105.80
29	B1	102	C	N3-C2-O2	-9.44	115.29	121.90
29	B1	589	A	N3-C4-C5	-9.44	120.19	126.80
29	D1	514	G	N9-C4-C5	9.43	109.17	105.40
30	B2	15	C	C2-N1-C1'	9.43	129.17	118.80
29	B1	3200	G	C5-C6-O6	9.43	134.26	128.60
29	B1	2708	C	N3-C4-C5	9.43	125.67	121.90
30	B2	47	C	C2-N1-C1'	9.42	129.17	118.80
1	A1	1073	G	N3-C4-N9	9.40	131.64	126.00
29	D1	687	U	C2-N1-C1'	-9.40	106.42	117.70
1	A1	1620	C	C6-N1-C2	-9.40	116.54	120.30
29	D1	3257	C	N1-C2-O2	-9.40	113.26	118.90
29	B1	2671	A	C5-C6-N6	-9.40	116.18	123.70
29	D1	3266	G	N3-C4-C5	-9.39	123.90	128.60
29	B1	3266	G	N3-C4-C5	-9.39	123.91	128.60
29	B1	1317	A	N9-C4-C5	-9.39	102.04	105.80
29	B1	1506	A	C5-N7-C8	-9.39	99.21	103.90
29	B1	1056	U	C5-C4-O4	-9.38	120.27	125.90
1	C1	388	G	C8-N9-C4	-9.38	102.65	106.40
29	B1	1097	G	C5-C6-O6	9.37	134.22	128.60
29	B1	1434	G	C6-C5-N7	-9.36	124.79	130.40
29	B1	2278	C	N1-C2-O2	9.36	124.51	118.90
29	B1	3243	A	N3-C4-N9	9.35	134.88	127.40
29	B1	927	C	N1-C2-O2	-9.35	113.29	118.90
29	B1	1506	A	N7-C8-N9	9.34	118.47	113.80
29	B1	2331	C	C6-N1-C2	9.34	124.04	120.30
29	D1	890	C	N3-C4-C5	9.34	125.64	121.90
29	D1	2683	U	C5-C4-O4	-9.34	120.30	125.90
29	B1	227	G	C8-N9-C4	9.34	110.13	106.40
29	B1	503	C	N1-C2-N3	9.33	125.73	119.20
29	D1	3268	A	C8-N9-C4	9.33	109.53	105.80
29	B1	3177	G	N9-C4-C5	9.32	109.13	105.40
29	B1	3212	C	C5-C6-N1	-9.32	116.34	121.00
1	A1	1620	C	C2-N1-C1'	9.30	129.03	118.80
29	B1	503	C	C2-N3-C4	-9.30	115.25	119.90
29	D1	3177	G	C8-N9-C4	-9.29	102.68	106.40
29	B1	606	C	C5-C6-N1	9.29	125.64	121.00
29	B1	2894	C	C6-N1-C2	9.29	124.01	120.30
29	B1	1450	G	N1-C6-O6	9.28	125.47	119.90
29	B1	2362	C	N3-C4-N4	9.28	124.50	118.00
29	D1	1317	A	C5-C6-N6	-9.28	116.28	123.70
29	B1	687	U	C2-N1-C1'	-9.27	106.57	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1364	C	C6-N1-C2	9.27	124.01	120.30
29	D1	1589	A	N7-C8-N9	9.27	118.44	113.80
29	D1	3213	A	N1-C6-N6	9.27	124.16	118.60
1	A1	572	C	C6-N1-C2	-9.26	116.59	120.30
1	C1	1109	G	C5-C6-O6	-9.26	123.04	128.60
29	D1	723	U	C5-C4-O4	-9.26	120.34	125.90
29	B1	3184	A	C4-C5-C6	9.25	121.62	117.00
29	B1	338	A	N9-C4-C5	9.24	109.50	105.80
29	B1	3391	A	C5-C6-N6	-9.24	116.31	123.70
29	B1	2906	C	N3-C2-O2	9.24	128.37	121.90
1	C1	825	U	C6-N1-C2	-9.24	115.46	121.00
29	D1	29	C	N1-C2-O2	-9.24	113.36	118.90
29	D1	2380	U	N1-C2-O2	-9.24	116.33	122.80
1	A1	1045	C	N3-C2-O2	-9.23	115.44	121.90
30	B2	112	G	N9-C4-C5	9.23	109.09	105.40
29	B1	3106	A	N1-C6-N6	9.23	124.14	118.60
1	C1	1132	A	C2-N3-C4	-9.23	105.98	110.60
29	D1	308	A	C5-C6-N6	-9.23	116.32	123.70
1	A1	364	G	C5-C6-O6	9.22	134.13	128.60
29	D1	1212	A	C8-N9-C4	-9.21	102.11	105.80
29	D1	345	G	C5-C6-N1	-9.21	106.90	111.50
29	D1	575	G	N3-C2-N2	-9.21	113.46	119.90
29	D1	2879	C	C6-N1-C2	9.20	123.98	120.30
29	B1	640	U	C5-C6-N1	9.20	127.30	122.70
29	B1	103	G	N1-C6-O6	9.19	125.42	119.90
29	D1	3212	C	N3-C2-O2	9.19	128.33	121.90
29	D1	963	G	N3-C4-N9	9.19	131.51	126.00
29	D1	2339	C	N1-C2-O2	9.19	124.41	118.90
29	D1	3181	C	C6-N1-C1'	-9.19	109.78	120.80
29	B1	1317	A	C5-C6-N6	-9.18	116.35	123.70
1	A1	846	G	C5-C6-O6	9.18	134.11	128.60
29	B1	607	A	N9-C4-C5	9.18	109.47	105.80
29	B1	3212	C	N1-C2-N3	9.18	125.63	119.20
29	B1	1395	G	N1-C6-O6	-9.18	114.39	119.90
30	D2	112	G	C8-N9-C4	-9.18	102.73	106.40
29	D1	32	U	C6-N1-C1'	9.17	134.04	121.20
29	D1	1661	G	N3-C4-N9	9.17	131.50	126.00
29	D1	1288	U	C5-C4-O4	-9.17	120.40	125.90
1	C1	62	A	C5-C6-N6	9.16	131.03	123.70
29	D1	1507	G	C4-N9-C1'	-9.16	114.59	126.50
1	C1	1073	G	N3-C4-C5	-9.16	124.02	128.60
29	D1	3245	A	N1-C6-N6	9.16	124.09	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	825	U	C5-C4-O4	9.15	131.39	125.90
29	B1	410	U	N3-C4-C5	-9.15	109.11	114.60
29	B1	2398	A	C5-C6-N6	-9.15	116.38	123.70
29	B1	2961	G	N3-C4-C5	-9.14	124.03	128.60
29	B1	3212	C	N3-C4-N4	-9.14	111.60	118.00
29	D1	3181	C	C4-C5-C6	-9.13	112.83	117.40
29	B1	1175	C	C5-C6-N1	-9.13	116.44	121.00
29	B1	3212	C	N3-C2-O2	9.12	128.28	121.90
1	C1	1541	G	C4-N9-C1'	9.12	138.35	126.50
1	A1	1234	A	C6-N1-C2	9.11	124.07	118.60
29	B1	640	U	N3-C2-O2	9.11	128.58	122.20
29	D1	514	G	C6-C5-N7	9.09	135.86	130.40
29	D1	2687	G	C2-N3-C4	9.09	116.44	111.90
29	D1	94	G	N3-C4-C5	9.08	133.14	128.60
29	B1	630	A	N9-C4-C5	-9.07	102.17	105.80
29	D1	514	G	C4-N9-C1'	-9.07	114.70	126.50
29	B1	75	G	N1-C6-O6	9.07	125.34	119.90
29	D1	1165	A	C5-C6-N1	-9.07	113.17	117.70
29	D1	1056	U	C2-N1-C1'	9.05	128.56	117.70
29	D1	102	C	C6-N1-C1'	-9.05	109.94	120.80
29	B1	3221	C	C6-N1-C2	-9.05	116.68	120.30
29	B1	3219	G	N9-C4-C5	-9.04	101.78	105.40
29	D1	1166	G	C8-N9-C4	9.04	110.02	106.40
1	A1	610	G	C4-C5-N7	9.04	114.42	110.80
29	B1	577	C	C5-C4-N4	-9.04	113.88	120.20
29	B1	272	G	C6-N1-C2	9.03	130.52	125.10
34	BC	96	PRO	N-CA-CB	9.03	114.14	103.30
29	B1	1501	U	C2-N3-C4	-9.03	121.58	127.00
1	A1	62	A	C5-C6-N6	9.02	130.92	123.70
29	B1	70	A	C8-N9-C4	-9.02	102.19	105.80
29	D1	514	G	C8-N9-C1'	9.02	138.72	127.00
29	D1	421	G	C2-N3-C4	-9.02	107.39	111.90
29	B1	1148	G	C5-C6-O6	-9.01	123.19	128.60
29	B1	1425	U	C5-C6-N1	-9.01	118.20	122.70
29	B1	588	G	C5-C6-O6	9.01	134.00	128.60
30	D2	112	G	N3-C4-C5	-9.01	124.10	128.60
29	B1	2277	C	C5-C6-N1	-9.00	116.50	121.00
29	D1	3205	G	N3-C4-C5	-9.00	124.10	128.60
30	D2	15	C	N1-C2-O2	8.99	124.30	118.90
29	D1	505	G	C4-C5-N7	-8.99	107.20	110.80
1	A1	686	C	N1-C2-O2	-8.99	113.51	118.90
29	D1	2919	A	C8-N9-C4	-8.99	102.20	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2828	G	C5-C6-O6	-8.97	123.22	128.60
29	B1	3176	G	C2-N3-C4	-8.97	107.42	111.90
29	B1	3001	C	C5-C6-N1	-8.96	116.52	121.00
29	D1	2935	U	C5-C6-N1	-8.96	118.22	122.70
29	D1	379	C	C5-C4-N4	-8.96	113.93	120.20
29	D1	1056	U	C5-C4-O4	-8.95	120.53	125.90
1	A1	846	G	N1-C6-O6	-8.95	114.53	119.90
29	B1	1320	C	C2-N1-C1'	8.95	128.64	118.80
29	D1	1187	C	C5-C6-N1	-8.95	116.53	121.00
29	D1	1152	G	N1-C6-O6	8.94	125.27	119.90
29	D1	2262	A	C8-N9-C4	-8.94	102.22	105.80
29	D1	1190	A	C6-N1-C2	-8.94	113.24	118.60
29	B1	750	G	N1-C6-O6	-8.93	114.54	119.90
29	B1	1429	G	N3-C4-N9	8.93	131.36	126.00
29	D1	1124	U	N3-C2-O2	-8.93	115.95	122.20
30	D2	47	C	N3-C4-C5	8.93	125.47	121.90
1	A1	572	C	C6-N1-C1'	-8.93	110.09	120.80
29	B1	2312	A	C8-N9-C4	-8.92	102.23	105.80
29	B1	2835	U	C2-N1-C1'	8.92	128.40	117.70
29	D1	92	G	C4-N9-C1'	8.92	138.09	126.50
29	D1	2671	A	C6-N1-C2	-8.92	113.25	118.60
29	D1	2830	G	C5-C6-N1	-8.91	107.04	111.50
29	B1	1387	G	C5-N7-C8	-8.91	99.85	104.30
29	D1	1457	U	C5-C6-N1	-8.91	118.25	122.70
1	A1	825	U	C4-C5-C6	8.90	125.04	119.70
29	D1	746	A	C2-N3-C4	8.90	115.05	110.60
29	D1	1333	C	C5-C4-N4	-8.89	113.97	120.20
29	B1	1589	A	C8-N9-C4	-8.89	102.25	105.80
29	B1	966	U	C5-C4-O4	-8.88	120.57	125.90
29	D1	1147	G	C6-C5-N7	-8.88	125.07	130.40
29	D1	504	A	N1-C6-N6	8.88	123.93	118.60
29	B1	1192	C	C6-N1-C1'	-8.88	110.15	120.80
29	B1	1884	A	C5-C6-N6	-8.87	116.60	123.70
29	D1	676	G	N3-C4-N9	8.87	131.32	126.00
29	B1	118	U	N1-C2-O2	8.87	129.01	122.80
29	B1	3212	C	C5-C4-N4	8.87	126.41	120.20
29	D1	2278	C	C5-C6-N1	8.86	125.43	121.00
29	B1	669	U	C2-N1-C1'	8.86	128.33	117.70
29	D1	969	C	C6-N1-C2	8.85	123.84	120.30
29	B1	3303	G	N9-C4-C5	8.85	108.94	105.40
30	B2	13	A	N3-C4-N9	-8.85	120.32	127.40
1	C1	45	U	N3-C4-O4	8.85	125.59	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	92	G	C8-N9-C1'	-8.85	115.50	127.00
29	B1	26	A	C8-N9-C4	-8.84	102.26	105.80
29	B1	2889	C	C6-N1-C2	8.84	123.84	120.30
29	D1	1147	G	N3-C4-C5	8.84	133.02	128.60
29	D1	1362	G	C8-N9-C4	8.84	109.94	106.40
29	D1	927	C	N1-C2-O2	-8.84	113.60	118.90
29	B1	2247	G	C5-C6-O6	-8.83	123.30	128.60
29	D1	1589	A	C8-N9-C4	-8.82	102.27	105.80
29	D1	3291	G	N3-C4-N9	8.82	131.29	126.00
29	B1	94	G	N3-C4-C5	8.82	133.01	128.60
29	D1	1897	G	C5-C6-O6	-8.82	123.31	128.60
29	B1	102	C	C6-N1-C2	-8.81	116.77	120.30
29	D1	3219	G	C6-C5-N7	-8.81	125.11	130.40
29	B1	1196	C	N3-C2-O2	-8.81	115.73	121.90
29	B1	1589	A	N7-C8-N9	8.81	118.20	113.80
1	C1	1028	C	C6-N1-C1'	-8.81	110.23	120.80
29	D1	513	G	C4-N9-C1'	-8.81	115.05	126.50
29	D1	92	G	C4-C5-N7	8.81	114.32	110.80
29	B1	588	G	N3-C4-C5	-8.80	124.20	128.60
29	D1	3244	A	N7-C8-N9	-8.80	109.40	113.80
29	B1	2890	A	C8-N9-C4	-8.80	102.28	105.80
29	B1	1097	G	N1-C6-O6	-8.79	114.62	119.90
29	D1	1902	G	C8-N9-C1'	-8.79	115.57	127.00
29	D1	1420	C	C6-N1-C2	8.79	123.82	120.30
1	A1	572	C	N3-C2-O2	-8.79	115.75	121.90
29	B1	67	A	N1-C6-N6	-8.78	113.33	118.60
29	D1	92	G	C5-C6-O6	-8.78	123.33	128.60
29	D1	513	G	C6-C5-N7	8.78	135.67	130.40
29	B1	2331	C	N3-C2-O2	8.77	128.04	121.90
29	D1	2378	C	N1-C2-O2	-8.77	113.64	118.90
29	B1	978	G	C4-N9-C1'	8.77	137.90	126.50
30	B2	111	U	C2-N1-C1'	8.77	128.22	117.70
1	A1	391	A	C8-N9-C4	8.76	109.31	105.80
29	B1	655	C	C5-C6-N1	-8.76	116.62	121.00
29	B1	3170	A	C6-N1-C2	8.76	123.85	118.60
29	D1	73	C	C6-N1-C2	-8.76	116.80	120.30
29	B1	853	G	C5-C6-N1	8.75	115.87	111.50
29	B1	1434	G	N3-C4-C5	8.75	132.97	128.60
29	B1	1951	C	C5-C4-N4	8.74	126.32	120.20
29	D1	3243	A	N1-C6-N6	8.74	123.84	118.60
1	C1	1046	G	N3-C4-N9	8.74	131.24	126.00
29	B1	1380	G	C2-N3-C4	-8.73	107.53	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2701	U	C5-C4-O4	-8.73	120.66	125.90
29	B1	2302	G	N1-C6-O6	-8.73	114.66	119.90
29	D1	640	U	N1-C2-O2	-8.73	116.69	122.80
29	B1	1387	G	C4-C5-N7	8.73	114.29	110.80
29	D1	505	G	C8-N9-C1'	8.73	138.34	127.00
1	C1	650	U	N3-C4-O4	8.72	125.51	119.40
29	D1	1124	U	N1-C2-O2	8.72	128.91	122.80
29	D1	390	G	N3-C4-C5	8.72	132.96	128.60
29	D1	3179	U	N3-C4-C5	-8.72	109.37	114.60
29	B1	1402	C	N3-C4-C5	8.71	125.39	121.90
1	A1	337	G	C6-C5-N7	-8.71	125.17	130.40
29	B1	2961	G	N3-C4-N9	8.71	131.23	126.00
29	D1	3211	C	N1-C2-O2	-8.70	113.68	118.90
29	B1	125	C	C2-N1-C1'	8.70	128.37	118.80
29	B1	1439	U	C2-N3-C4	-8.70	121.78	127.00
29	B1	630	A	C5-C6-N6	-8.70	116.74	123.70
29	B1	422	A	N1-C2-N3	-8.69	124.95	129.30
29	D1	434	U	N1-C2-O2	-8.69	116.71	122.80
29	D1	2527	G	N3-C4-N9	-8.69	120.79	126.00
29	B1	2331	C	C2-N1-C1'	-8.68	109.25	118.80
29	D1	1047	A	N9-C4-C5	8.68	109.27	105.80
29	D1	2331	C	N1-C2-O2	-8.68	113.69	118.90
1	A1	1198	G	C8-N9-C4	-8.67	102.93	106.40
29	D1	3176	G	C6-N1-C2	8.67	130.30	125.10
31	D3	92	A	C5-C6-N1	-8.67	113.37	117.70
29	B1	3391	A	C6-N1-C2	-8.66	113.40	118.60
29	D1	557	A	C5-C6-N1	-8.66	113.37	117.70
1	A1	1135	U	N1-C2-O2	-8.66	116.74	122.80
29	B1	718	G	N3-C4-N9	8.65	131.19	126.00
29	B1	514	G	C4-N9-C1'	-8.65	115.25	126.50
29	B1	514	G	N3-C4-C5	8.65	132.93	128.60
29	D1	3219	G	C5-N7-C8	-8.65	99.97	104.30
1	C1	1437	U	C6-N1-C1'	8.65	133.31	121.20
29	B1	505	G	C4-N9-C1'	-8.65	115.26	126.50
29	D1	1330	A	C2-N3-C4	-8.64	106.28	110.60
29	D1	3272	C	N3-C4-C5	-8.64	118.44	121.90
1	C1	409	C	C6-N1-C2	-8.64	116.84	120.30
29	D1	583	G	C5-C6-O6	8.64	133.78	128.60
29	D1	1850	A	C2-N3-C4	-8.64	106.28	110.60
30	D2	47	C	C5-C6-N1	8.64	125.32	121.00
29	B1	556	U	N1-C2-O2	8.64	128.85	122.80
29	D1	2835	U	C2-N1-C1'	8.64	128.06	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	337	G	C5-C6-O6	-8.63	123.42	128.60
29	B1	514	G	C8-N9-C1'	8.63	138.22	127.00
29	B1	557	A	C6-N1-C2	8.63	123.78	118.60
29	D1	517	G	N3-C2-N2	-8.63	113.86	119.90
29	D1	1951	C	C5-C4-N4	8.63	126.24	120.20
31	B3	34	U	C6-N1-C2	-8.63	115.82	121.00
30	D2	29	C	C6-N1-C2	8.63	123.75	120.30
29	D1	3220	G	C4-N9-C1'	8.62	137.71	126.50
29	B1	3099	C	C5-C6-N1	8.62	125.31	121.00
29	B1	1387	G	N1-C6-O6	8.62	125.07	119.90
29	B1	3243	A	N1-C6-N6	8.62	123.77	118.60
29	B1	3392	U	C5-C4-O4	-8.62	120.73	125.90
29	B1	284	A	N1-C6-N6	-8.61	113.43	118.60
1	C1	1377	U	C5-C4-O4	-8.61	120.73	125.90
1	A1	1651	A	N1-C6-N6	8.61	123.77	118.60
1	C1	517	U	N1-C2-O2	-8.61	116.78	122.80
29	B1	150	A	C5-C6-N1	8.60	122.00	117.70
30	B2	112	G	C4-C5-N7	-8.60	107.36	110.80
1	C1	427	C	C6-N1-C2	8.60	123.74	120.30
30	D2	66	A	C2-N3-C4	-8.60	106.30	110.60
29	B1	3220	G	C8-N9-C4	-8.60	102.96	106.40
29	B1	1330	A	C2-N3-C4	-8.59	106.31	110.60
29	B1	32	U	C6-N1-C2	8.59	126.15	121.00
29	B1	2913	C	C2-N1-C1'	-8.59	109.35	118.80
29	D1	517	G	N3-C4-N9	-8.59	120.85	126.00
29	D1	586	C	N1-C2-O2	-8.59	113.75	118.90
29	D1	1300	G	C8-N9-C4	-8.59	102.97	106.40
29	B1	576	C	N1-C2-O2	-8.58	113.75	118.90
29	D1	963	G	N9-C4-C5	-8.58	101.97	105.40
1	C1	1560	U	N3-C4-O4	-8.58	113.39	119.40
29	B1	518	G	C2-N3-C4	-8.58	107.61	111.90
29	B1	1100	U	C5-C6-N1	-8.58	118.41	122.70
1	C1	1303	U	N1-C2-O2	-8.58	116.80	122.80
29	D1	2929	C	N3-C4-N4	8.58	124.00	118.00
45	DP	131	PRO	N-CA-CB	8.57	113.59	103.30
30	B2	66	A	C5-C6-N1	-8.57	113.42	117.70
29	D1	3176	G	C6-C5-N7	8.57	135.54	130.40
1	A1	825	U	C6-N1-C2	-8.57	115.86	121.00
29	B1	3035	A	C6-N1-C2	-8.57	113.46	118.60
29	D1	1175	C	C2-N3-C4	-8.57	115.62	119.90
29	B1	2605	G	N1-C6-O6	8.56	125.04	119.90
29	D1	2882	U	C5-C4-O4	-8.56	120.76	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2899	C	C6-N1-C2	-8.55	116.88	120.30
29	B1	1054	A	C8-N9-C4	8.55	109.22	105.80
31	B3	34	U	C3'-C2'-C1'	-8.55	94.66	101.50
29	D1	94	G	C5-C6-O6	8.54	133.73	128.60
29	B1	2377	G	N9-C4-C5	8.54	108.82	105.40
29	B1	3266	G	N1-C6-O6	-8.54	114.77	119.90
29	D1	244	G	C6-N1-C2	8.54	130.22	125.10
29	D1	1175	C	C6-N1-C2	8.54	123.72	120.30
29	B1	2683	U	C5-C4-O4	-8.54	120.78	125.90
29	B1	3143	C	N3-C2-O2	8.54	127.88	121.90
1	C1	1541	G	C4-C5-C6	8.54	123.92	118.80
29	B1	655	C	C2-N3-C4	-8.54	115.63	119.90
29	D1	2398	A	N1-C6-N6	8.54	123.72	118.60
29	B1	2391	G	C5-C6-O6	-8.54	123.48	128.60
29	B1	1792	C	N1-C2-O2	-8.53	113.78	118.90
29	D1	1887	A	C8-N9-C4	8.53	109.21	105.80
1	A1	1033	C	C6-N1-C2	8.53	123.71	120.30
29	D1	1292	C	C6-N1-C2	8.53	123.71	120.30
29	B1	2391	G	C2-N3-C4	-8.53	107.64	111.90
29	B1	3211	C	N1-C2-O2	-8.52	113.79	118.90
29	D1	590	G	C8-N9-C4	8.52	109.81	106.40
29	D1	3303	G	N9-C4-C5	8.52	108.81	105.40
29	B1	517	G	C8-N9-C4	-8.52	102.99	106.40
30	B2	13	A	C4-N9-C1'	-8.52	110.97	126.30
29	B1	1111	U	C2-N1-C1'	-8.51	107.49	117.70
29	D1	1370	G	C5-C6-O6	-8.51	123.50	128.60
29	B1	39	A	C5-N7-C8	-8.50	99.65	103.90
29	B1	1887	A	C5-C6-N1	-8.50	113.45	117.70
29	B1	402	A	N1-C6-N6	8.50	123.70	118.60
1	C1	517	U	C5-C4-O4	8.50	131.00	125.90
29	B1	3176	G	C6-C5-N7	8.50	135.50	130.40
29	D1	1450	G	C5-N7-C8	-8.50	100.05	104.30
29	B1	358	G	N1-C6-O6	8.49	125.00	119.90
29	D1	965	A	C8-N9-C4	8.48	109.19	105.80
29	D1	2990	G	N1-C6-O6	8.48	124.99	119.90
29	B1	52	A	C4-C5-C6	8.48	121.24	117.00
29	D1	1525	G	C8-N9-C1'	-8.48	115.98	127.00
29	D1	729	C	C6-N1-C1'	-8.48	110.63	120.80
29	B1	1317	A	C4-C5-N7	8.47	114.94	110.70
29	B1	612	U	N3-C4-O4	8.47	125.33	119.40
29	B1	2362	C	C2-N1-C1'	-8.47	109.48	118.80
29	B1	640	U	C6-N1-C2	-8.47	115.92	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2835	U	N3-C4-O4	8.47	125.33	119.40
29	B1	505	G	C5-C6-O6	-8.46	123.52	128.60
29	B1	630	A	C4-C5-N7	8.47	114.93	110.70
29	D1	630	A	N1-C6-N6	8.47	123.68	118.60
29	D1	729	C	N1-C2-O2	8.46	123.98	118.90
29	D1	1902	G	C8-N9-C4	8.46	109.79	106.40
1	A1	1244	A	N1-C6-N6	-8.46	113.53	118.60
29	B1	504	A	C6-C5-N7	-8.46	126.38	132.30
29	B1	3108	G	N3-C4-C5	8.46	132.83	128.60
29	B1	677	A	N1-C6-N6	8.45	123.67	118.60
29	D1	2665	U	C2-N3-C4	-8.45	121.93	127.00
29	B1	1175	C	N3-C4-C5	8.45	125.28	121.90
29	B1	2828	G	N1-C6-O6	8.45	124.97	119.90
31	B3	104	A	C8-N9-C4	8.45	109.18	105.80
29	D1	606	C	C5-C4-N4	-8.45	114.29	120.20
29	B1	3396	U	N3-C2-O2	-8.44	116.29	122.20
29	B1	2867	C	N1-C2-O2	-8.44	113.84	118.90
29	B1	364	G	N3-C4-N9	8.44	131.06	126.00
30	D2	13	A	C8-N9-C1'	8.44	142.89	127.70
29	B1	2183	A	C8-N9-C4	-8.44	102.42	105.80
29	D1	118	U	N1-C2-O2	8.44	128.71	122.80
29	B1	2602	G	C8-N9-C4	8.44	109.77	106.40
29	D1	729	C	C2-N1-C1'	8.44	128.08	118.80
29	D1	3392	U	C2-N1-C1'	8.44	127.82	117.70
29	B1	864	G	C8-N9-C4	8.43	109.77	106.40
29	D1	102	C	C5-C6-N1	8.43	125.21	121.00
29	D1	518	G	N3-C2-N2	-8.43	114.00	119.90
30	D2	13	A	C5-C6-N6	8.43	130.44	123.70
29	B1	2879	C	N3-C2-O2	8.43	127.80	121.90
29	B1	380	U	C2-N1-C1'	-8.42	107.59	117.70
29	B1	588	G	C6-N1-C2	-8.42	120.05	125.10
29	B1	2906	C	C2-N1-C1'	-8.42	109.54	118.80
30	D2	9	C	C6-N1-C2	-8.42	116.93	120.30
29	D1	2147	A	N1-C6-N6	8.42	123.65	118.60
29	B1	421	G	N7-C8-N9	8.41	117.31	113.10
29	B1	609	G	C5-C6-O6	8.41	133.65	128.60
29	B1	3173	G	N3-C4-C5	8.41	132.81	128.60
29	B1	2247	G	C4-C5-N7	8.41	114.17	110.80
1	A1	1421	A	C8-N9-C4	-8.41	102.44	105.80
29	D1	1434	G	N3-C4-C5	8.41	132.81	128.60
29	D1	2290	C	N1-C2-O2	-8.41	113.86	118.90
1	A1	1109	G	C5-C6-O6	-8.40	123.56	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	645	A	C8-N9-C4	-8.40	102.44	105.80
29	B1	2828	G	C5-C6-O6	-8.40	123.56	128.60
29	D1	931	C	C6-N1-C2	-8.40	116.94	120.30
29	B1	102	C	C5-C6-N1	8.40	125.20	121.00
29	B1	965	A	C8-N9-C4	8.40	109.16	105.80
29	B1	3386	G	C6-C5-N7	-8.40	125.36	130.40
29	D1	1324	U	C2-N1-C1'	8.40	127.78	117.70
29	B1	2337	C	N1-C2-O2	-8.39	113.86	118.90
29	B1	2988	C	C6-N1-C1'	-8.39	110.73	120.80
29	B1	3220	G	C4-N9-C1'	8.39	137.41	126.50
30	D2	13	A	N3-C4-C5	8.39	132.68	126.80
29	B1	421	G	C5-C6-N1	-8.39	107.31	111.50
29	D1	500	C	C6-N1-C1'	-8.39	110.73	120.80
29	B1	2147	A	N9-C4-C5	-8.38	102.45	105.80
29	D1	2906	C	C2-N1-C1'	-8.38	109.58	118.80
29	B1	421	G	C4-C5-C6	8.38	123.83	118.80
29	D1	1058	U	C5-C6-N1	-8.38	118.51	122.70
29	D1	1320	C	C6-N1-C1'	-8.38	110.75	120.80
29	B1	379	C	C5-C4-N4	-8.37	114.34	120.20
29	B1	716	A	C8-N9-C4	-8.37	102.45	105.80
1	C1	847	A	C6-N1-C2	-8.37	113.58	118.60
1	C1	337	G	C4-C5-N7	8.36	114.14	110.80
29	D1	3266	G	N1-C6-O6	-8.36	114.89	119.90
29	D1	3392	U	C6-N1-C1'	-8.36	109.50	121.20
29	B1	1362	G	N7-C8-N9	-8.36	108.92	113.10
29	B1	3132	C	N1-C2-O2	-8.36	113.89	118.90
30	B2	13	A	N3-C4-C5	8.35	132.65	126.80
29	D1	92	G	N3-C4-N9	8.35	131.01	126.00
1	A1	1109	G	N1-C6-O6	8.35	124.91	119.90
1	C1	1135	U	N1-C2-O2	-8.34	116.96	122.80
29	B1	2283	G	N3-C2-N2	-8.34	114.06	119.90
29	B1	2369	G	N1-C6-O6	8.34	124.90	119.90
29	D1	2889	C	C6-N1-C2	8.34	123.64	120.30
29	B1	513	G	N9-C4-C5	8.34	108.73	105.40
29	B1	1146	C	C6-N1-C2	8.33	123.63	120.30
29	B1	1387	G	N7-C8-N9	8.33	117.26	113.10
29	D1	557	A	C6-N1-C2	8.33	123.60	118.60
29	D1	747	A	N1-C6-N6	8.33	123.60	118.60
29	B1	517	G	N3-C4-N9	-8.32	121.00	126.00
29	D1	1928	G	C8-N9-C4	8.32	109.73	106.40
1	A1	517	U	N1-C2-O2	-8.32	116.98	122.80
1	C1	364	G	C5-C6-O6	8.32	133.59	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3143	C	C5-C6-N1	8.32	125.16	121.00
29	B1	1550	C	C6-N1-C2	8.31	123.62	120.30
1	C1	426	G	N9-C4-C5	-8.31	102.08	105.40
29	D1	2664	C	C6-N1-C2	8.31	123.62	120.30
29	D1	2278	C	C4-C5-C6	-8.31	113.25	117.40
29	B1	2663	G	C5-C6-N1	8.30	115.65	111.50
1	C1	647	G	C5-C6-O6	-8.30	123.62	128.60
29	D1	746	A	C5-C6-N1	8.30	121.85	117.70
29	B1	1292	C	C6-N1-C2	8.30	123.62	120.30
1	C1	610	G	C6-C5-N7	-8.30	125.42	130.40
1	A1	1377	U	C5-C4-O4	-8.30	120.92	125.90
29	B1	3181	C	C6-N1-C1'	-8.30	110.84	120.80
29	B1	1450	G	C6-C5-N7	-8.30	125.42	130.40
29	D1	963	G	C4-N9-C1'	8.30	137.29	126.50
29	D1	2669	G	C4-C5-N7	8.30	114.12	110.80
29	B1	3244	A	N7-C8-N9	-8.30	109.65	113.80
29	B1	92	G	C5-C6-O6	-8.29	123.63	128.60
29	B1	777	U	C5-C4-O4	-8.29	120.93	125.90
29	D1	1525	G	C4-N9-C1'	8.29	137.28	126.50
29	B1	978	G	C8-N9-C1'	-8.29	116.23	127.00
29	B1	3223	A	C6-N1-C2	8.29	123.57	118.60
29	B1	2689	A	N9-C4-C5	8.28	109.11	105.80
1	C1	958	U	C2-N3-C4	-8.28	122.03	127.00
29	B1	2643	A	C2-N3-C4	-8.27	106.46	110.60
29	B1	2958	A	N7-C8-N9	-8.27	109.66	113.80
29	B1	814	U	N3-C2-O2	8.27	127.99	122.20
29	D1	2377	G	N3-C4-C5	8.27	132.74	128.60
29	D1	2707	C	C6-N1-C2	8.27	123.61	120.30
29	B1	3181	C	C5-C6-N1	8.27	125.14	121.00
29	D1	125	C	C2-N1-C1'	8.27	127.89	118.80
29	B1	2611	U	C6-N1-C2	-8.27	116.04	121.00
29	D1	1111	U	C5-C6-N1	-8.27	118.57	122.70
29	B1	335	G	C6-C5-N7	-8.26	125.44	130.40
29	D1	2687	G	N3-C4-C5	-8.26	124.47	128.60
29	D1	695	C	C6-N1-C2	8.26	123.60	120.30
29	B1	1115	G	C6-C5-N7	-8.26	125.44	130.40
29	D1	3124	G	C8-N9-C4	-8.26	103.10	106.40
29	D1	2362	C	N3-C4-N4	8.26	123.78	118.00
29	D1	2846	U	N1-C2-N3	8.25	119.85	114.90
29	B1	685	G	C8-N9-C1'	-8.25	116.28	127.00
29	B1	3019	U	C2-N3-C4	-8.25	122.05	127.00
1	A1	337	G	C5-N7-C8	-8.24	100.18	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	978	G	N3-C4-C5	-8.24	124.48	128.60
29	D1	92	G	C6-C5-N7	-8.24	125.45	130.40
29	D1	685	G	C8-N9-C1'	-8.24	116.29	127.00
29	D1	1097	G	N9-C4-C5	8.24	108.70	105.40
29	D1	576	C	N1-C2-O2	-8.24	113.96	118.90
29	B1	1501	U	N3-C4-C5	8.24	119.54	114.60
30	D2	93	C	C5-C4-N4	-8.24	114.44	120.20
29	D1	3303	G	C5-N7-C8	8.23	108.42	104.30
29	B1	1661	G	N3-C4-N9	8.23	130.94	126.00
29	D1	1661	G	C8-N9-C1'	-8.23	116.30	127.00
29	D1	2337	C	N1-C2-O2	-8.23	113.96	118.90
30	D2	46	A	N3-C4-C5	-8.23	121.04	126.80
29	B1	1506	A	C4-C5-N7	8.22	114.81	110.70
29	B1	2667	A	C5-C6-N1	8.22	121.81	117.70
1	C1	1647	U	N1-C2-O2	-8.22	117.04	122.80
1	A1	650	U	N3-C4-O4	8.22	125.16	119.40
29	B1	866	A	C8-N9-C4	-8.22	102.51	105.80
29	D1	994	G	N3-C4-N9	8.22	130.93	126.00
29	D1	1146	C	C5-C6-N1	-8.22	116.89	121.00
29	B1	1424	C	C6-N1-C2	8.22	123.59	120.30
29	D1	1097	G	C4-C5-N7	-8.22	107.51	110.80
29	D1	3391	A	C6-N1-C2	-8.22	113.67	118.60
29	B1	513	G	C6-C5-N7	8.22	135.33	130.40
29	B1	1187	C	C6-N1-C2	8.22	123.59	120.30
1	C1	1177	C	C6-N1-C2	8.21	123.58	120.30
1	A1	847	A	C6-N1-C2	-8.21	113.67	118.60
29	B1	505	G	C5-C6-N1	-8.21	107.39	111.50
29	D1	648	C	C4-C5-C6	8.21	121.51	117.40
29	D1	3205	G	C5-C6-N1	8.21	115.61	111.50
29	B1	726	G	C4-N9-C1'	8.21	137.17	126.50
1	C1	1455	G	N9-C4-C5	8.21	108.68	105.40
29	D1	1111	U	C6-N1-C2	8.20	125.92	121.00
29	B1	32	U	C6-N1-C1'	8.20	132.69	121.20
29	D1	1320	C	C5-C4-N4	-8.20	114.46	120.20
29	B1	2303	A	C8-N9-C4	8.20	109.08	105.80
29	D1	1147	G	N9-C4-C5	-8.20	102.12	105.40
29	B1	661	G	N3-C4-C5	8.20	132.70	128.60
29	B1	3215	A	C8-N9-C4	-8.20	102.52	105.80
29	B1	3390	G	C4-N9-C1'	8.20	137.15	126.50
29	D1	3170	A	C6-N1-C2	8.20	123.52	118.60
29	B1	343	U	N3-C2-O2	-8.19	116.47	122.20
29	D1	1191	U	N1-C2-N3	-8.19	109.98	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1609	C	C6-N1-C2	8.19	123.58	120.30
29	B1	2988	C	C2-N1-C1'	8.19	127.81	118.80
29	B1	1196	C	N1-C2-O2	8.19	123.81	118.90
1	A1	1481	C	C6-N1-C2	-8.18	117.03	120.30
1	A1	1187	U	C5-C4-O4	-8.18	120.99	125.90
1	A1	1421	A	C2-N3-C4	8.18	114.69	110.60
29	D1	370	U	N1-C2-O2	-8.18	117.07	122.80
29	B1	38	U	C6-N1-C2	8.18	125.91	121.00
29	B1	421	G	N1-C2-N3	8.18	128.81	123.90
29	B1	2391	G	N1-C6-O6	8.18	124.81	119.90
29	D1	89	A	N9-C4-C5	-8.18	102.53	105.80
29	D1	1288	U	N3-C4-O4	8.17	125.12	119.40
29	B1	2990	G	C4-C5-N7	8.17	114.07	110.80
29	B1	3303	G	N1-C6-O6	-8.17	115.00	119.90
29	D1	726	G	C4-N9-C1'	8.17	137.12	126.50
29	B1	1148	G	C5-N7-C8	-8.16	100.22	104.30
29	B1	2807	U	N3-C2-O2	8.16	127.92	122.20
1	C1	54	C	C5-C4-N4	-8.16	114.49	120.20
29	D1	505	G	C6-C5-N7	8.16	135.30	130.40
29	B1	1320	C	C5-C4-N4	-8.16	114.49	120.20
1	C1	1564	U	N3-C2-O2	8.16	127.91	122.20
29	D1	3376	A	C5-N7-C8	8.16	107.98	103.90
29	B1	3099	C	C4-C5-C6	-8.15	113.32	117.40
29	D1	52	A	C4-C5-C6	8.15	121.08	117.00
29	D1	327	A	C5-C6-N1	-8.14	113.63	117.70
29	D1	1315	U	N1-C2-N3	-8.14	110.02	114.90
29	B1	1003	A	C8-N9-C4	-8.14	102.54	105.80
29	B1	1207	G	C5-C6-O6	-8.14	123.72	128.60
29	B1	1111	U	C6-N1-C2	8.14	125.88	121.00
30	B2	113	C	C2-N3-C4	-8.14	115.83	119.90
29	B1	590	G	N3-C4-C5	8.13	132.67	128.60
29	B1	718	G	C2-N3-C4	8.13	115.97	111.90
29	D1	504	A	N9-C4-C5	-8.13	102.55	105.80
29	D1	654	C	C5-C6-N1	-8.13	116.93	121.00
1	A1	1174	C	C6-N1-C2	8.13	123.55	120.30
29	B1	387	A	C6-N1-C2	8.13	123.48	118.60
29	B1	410	U	C6-N1-C2	-8.13	116.12	121.00
29	B1	676	G	C4-N9-C1'	8.13	137.07	126.50
29	B1	729	C	C2-N1-C1'	8.13	127.74	118.80
29	B1	963	G	N3-C4-C5	-8.13	124.54	128.60
29	D1	435	C	C5-C6-N1	-8.13	116.94	121.00
29	D1	2957	G	N3-C4-N9	-8.13	121.12	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1063	G	N3-C4-C5	8.13	132.66	128.60
29	B1	3268	A	N7-C8-N9	-8.12	109.74	113.80
1	A1	1046	G	N3-C4-N9	8.12	130.87	126.00
1	C1	846	G	N1-C6-O6	-8.12	115.03	119.90
1	C1	1345	A	C5-C6-N1	-8.11	113.64	117.70
29	D1	606	C	N3-C4-N4	8.11	123.68	118.00
30	D2	14	U	C2-N3-C4	8.11	131.87	127.00
29	D1	1313	G	N1-C6-O6	-8.11	115.03	119.90
29	D1	2882	U	C2-N1-C1'	8.11	127.43	117.70
29	B1	1148	G	C2-N3-C4	-8.10	107.85	111.90
1	C1	1134	C	C6-N1-C2	8.10	123.54	120.30
29	D1	2671	A	C5-C6-N1	8.10	121.75	117.70
29	D1	2933	A	N1-C6-N6	-8.10	113.74	118.60
29	B1	3297	U	C6-N1-C2	-8.10	116.14	121.00
29	D1	92	G	N9-C4-C5	-8.10	102.16	105.40
44	DO	84	PRO	N-CA-CB	8.10	113.02	103.30
29	D1	102	C	N1-C2-O2	8.09	123.76	118.90
1	C1	1028	C	C2-N1-C1'	8.09	127.70	118.80
29	D1	1420	C	N3-C4-C5	8.09	125.14	121.90
29	B1	2390	A	N1-C6-N6	-8.09	113.75	118.60
29	B1	2837	A	N1-C6-N6	-8.09	113.75	118.60
29	D1	2913	C	C6-N1-C1'	8.09	130.50	120.80
1	C1	590	C	C6-N1-C2	-8.08	117.07	120.30
29	D1	3226	A	C2-N3-C4	-8.08	106.56	110.60
43	DN	49	PRO	N-CA-CB	8.08	113.00	103.30
29	B1	747	A	N1-C6-N6	8.08	123.45	118.60
29	D1	3215	A	C8-N9-C4	-8.08	102.57	105.80
29	B1	1458	U	C5-C6-N1	-8.08	118.66	122.70
29	B1	1887	A	N3-C4-C5	8.08	132.46	126.80
29	B1	257	U	C5-C4-O4	-8.08	121.05	125.90
29	B1	1296	C	C6-N1-C2	-8.07	117.07	120.30
29	B1	2982	A	N1-C6-N6	-8.07	113.75	118.60
30	B2	14	U	C2-N3-C4	8.07	131.84	127.00
29	D1	654	C	C6-N1-C2	8.07	123.53	120.30
29	B1	1431	G	C4-C5-N7	-8.07	107.57	110.80
29	D1	3324	C	N1-C2-O2	8.07	123.74	118.90
29	B1	1192	C	N1-C2-O2	8.07	123.74	118.90
29	D1	2879	C	C2-N1-C1'	-8.06	109.93	118.80
1	C1	426	G	C4-C5-N7	8.06	114.03	110.80
29	B1	607	A	N3-C4-C5	-8.06	121.16	126.80
38	DG	97	PRO	N-CA-CB	8.06	112.97	103.30
29	B1	1490	A	C8-N9-C4	8.06	109.02	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3376	A	N1-C6-N6	-8.06	113.77	118.60
29	D1	2391	G	C5-C6-O6	-8.05	123.77	128.60
29	D1	1899	G	C8-N9-C4	8.05	109.62	106.40
29	B1	963	G	C8-N9-C1'	-8.05	116.54	127.00
29	D1	597	G	C5-C6-O6	-8.05	123.77	128.60
29	D1	726	G	N3-C4-N9	8.04	130.83	126.00
29	B1	2906	C	C6-N1-C2	8.04	123.52	120.30
29	B1	752	C	C2-N1-C1'	8.04	127.64	118.80
1	A1	1498	G	N3-C4-N9	8.03	130.82	126.00
1	A1	423	G	C8-N9-C4	-8.03	103.19	106.40
29	B1	744	A	C5-N7-C8	8.03	107.92	103.90
30	B2	96	U	N1-C2-N3	8.03	119.72	114.90
29	D1	2377	G	N3-C2-N2	-8.03	114.28	119.90
29	B1	518	G	N3-C2-N2	-8.03	114.28	119.90
29	B1	3108	G	N3-C4-N9	-8.02	121.19	126.00
1	C1	374	U	C5-C4-O4	-8.02	121.09	125.90
29	B1	840	C	C6-N1-C2	8.02	123.51	120.30
29	B1	3242	G	C2-N3-C4	8.02	115.91	111.90
1	C1	310	C	C5-C4-N4	-8.02	114.59	120.20
29	D1	723	U	C2-N1-C1'	8.02	127.32	117.70
29	D1	1297	C	C5-C4-N4	-8.02	114.59	120.20
29	D1	1141	C	C6-N1-C2	8.02	123.51	120.30
29	D1	1151	U	N3-C4-C5	-8.02	109.79	114.60
29	D1	514	G	N3-C4-C5	8.01	132.61	128.60
29	D1	575	G	N9-C4-C5	8.01	108.60	105.40
1	C1	1745	G	N1-C6-O6	-8.01	115.10	119.90
29	D1	2913	C	N1-C2-O2	-8.01	114.10	118.90
29	B1	2708	C	C5-C4-N4	-8.00	114.60	120.20
29	D1	1312	C	C2-N3-C4	-8.00	115.90	119.90
1	A1	1234	A	C5-C6-N1	-8.00	113.70	117.70
30	D2	96	U	C5-C6-N1	-8.00	118.70	122.70
1	A1	869	A	C5-C6-N1	7.99	121.69	117.70
29	D1	1294	A	C2-N3-C4	7.99	114.59	110.60
29	B1	244	G	C6-N1-C2	7.99	129.89	125.10
1	C1	62	A	N9-C4-C5	7.99	109.00	105.80
29	D1	1166	G	N9-C4-C5	-7.99	102.20	105.40
29	B1	2912	G	C8-N9-C4	-7.99	103.21	106.40
29	B1	1377	G	N1-C6-O6	-7.98	115.11	119.90
29	D1	987	U	C5-C6-N1	-7.98	118.71	122.70
29	B1	92	G	C8-N9-C1'	-7.98	116.63	127.00
29	B1	3025	C	C5-C6-N1	-7.98	117.01	121.00
29	D1	2705	A	C4-C5-C6	-7.98	113.01	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	341	G	N1-C6-O6	7.98	124.69	119.90
29	B1	1419	A	C8-N9-C4	-7.98	102.61	105.80
1	C1	1220	C	C2-N1-C1'	7.98	127.58	118.80
29	B1	1168	U	C5-C6-N1	-7.97	118.71	122.70
43	DN	73	PRO	N-CA-CB	7.97	112.87	103.30
29	B1	2989	U	C5-C6-N1	-7.97	118.72	122.70
1	A1	1173	C	C6-N1-C2	7.97	123.49	120.30
29	B1	2362	C	C5-C6-N1	-7.97	117.02	121.00
29	B1	3323	A	C6-N1-C2	7.97	123.38	118.60
29	B1	608	A	N1-C6-N6	7.97	123.38	118.60
29	D1	2289	U	C5-C6-N1	-7.96	118.72	122.70
29	D1	3390	G	C4-N9-C1'	7.96	136.85	126.50
29	D1	3300	U	C5-C4-O4	7.96	130.68	125.90
29	D1	3314	A	C6-N1-C2	-7.96	113.83	118.60
1	A1	1486	G	N1-C6-O6	7.96	124.67	119.90
1	C1	1024	U	C5-C6-N1	-7.96	118.72	122.70
29	B1	882	A	N1-C6-N6	-7.95	113.83	118.60
29	B1	1387	G	C6-C5-N7	-7.95	125.63	130.40
29	B1	395	A	N1-C6-N6	-7.95	113.83	118.60
1	A1	1453	G	C8-N9-C4	7.95	109.58	106.40
29	B1	503	C	C6-N1-C1'	7.95	130.34	120.80
29	B1	3143	C	C2-N3-C4	7.95	123.87	119.90
29	B1	2913	C	N1-C2-O2	-7.95	114.13	118.90
16	CO	95	PRO	N-CA-CB	7.95	112.83	103.30
29	D1	3328	G	C8-N9-C4	7.95	109.58	106.40
45	BP	121	PRO	N-CA-CB	7.94	112.83	103.30
29	B1	518	G	N3-C4-N9	-7.94	121.24	126.00
29	D1	729	C	C5-C4-N4	-7.94	114.64	120.20
29	D1	1312	C	N1-C2-N3	7.94	124.76	119.20
29	B1	2882	U	C2-N1-C1'	7.94	127.23	117.70
29	D1	32	U	C2-N3-C4	-7.94	122.24	127.00
29	B1	402	A	C6-C5-N7	-7.93	126.75	132.30
29	D1	634	C	C6-N1-C2	7.93	123.47	120.30
29	D1	3266	G	N3-C4-N9	7.93	130.76	126.00
1	C1	1408	G	N3-C4-C5	-7.93	124.64	128.60
29	B1	89	A	C2-N3-C4	-7.92	106.64	110.60
29	D1	2889	C	N1-C2-O2	-7.92	114.15	118.90
29	B1	575	G	N3-C2-N2	-7.92	114.36	119.90
29	B1	1661	G	C6-C5-N7	-7.92	125.65	130.40
29	D1	3242	G	C8-N9-C4	-7.92	103.23	106.40
29	D1	380	U	C2-N1-C1'	-7.92	108.20	117.70
29	D1	2122	G	N1-C6-O6	7.91	124.65	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2811	A	N1-C6-N6	-7.91	113.85	118.60
29	B1	992	A	C8-N9-C4	-7.91	102.64	105.80
29	D1	941	G	C4-C5-N7	-7.91	107.64	110.80
29	B1	1884	A	C2-N3-C4	-7.91	106.65	110.60
29	B1	886	C	C5-C6-N1	-7.90	117.05	121.00
1	C1	1725	U	C2-N1-C1'	7.90	127.18	117.70
29	D1	1897	G	C4-C5-N7	7.90	113.96	110.80
29	B1	52	A	C6-C5-N7	-7.90	126.77	132.30
29	B1	723	U	N3-C4-O4	7.90	124.93	119.40
29	B1	1065	A	C2-N3-C4	7.90	114.55	110.60
29	B1	3314	A	C8-N9-C4	-7.90	102.64	105.80
29	D1	3132	C	N1-C2-O2	-7.90	114.16	118.90
29	D1	3291	G	N1-C2-N2	-7.90	109.09	116.20
1	A1	569	C	C6-N1-C2	7.89	123.46	120.30
1	A1	1141	G	C8-N9-C1'	-7.89	116.74	127.00
45	DP	121	PRO	N-CA-CB	7.89	112.76	103.30
29	D1	370	U	C2-N1-C1'	-7.88	108.24	117.70
29	D1	777	U	C5-C4-O4	-7.88	121.17	125.90
29	B1	3090	U	C5-C4-O4	-7.88	121.17	125.90
29	B1	513	G	C5-C6-N1	-7.88	107.56	111.50
29	D1	1193	A	N1-C6-N6	7.88	123.33	118.60
29	B1	537	A	N1-C6-N6	-7.87	113.88	118.60
1	A1	374	U	C5-C4-O4	-7.87	121.18	125.90
29	B1	654	C	C5-C6-N1	-7.87	117.06	121.00
29	D1	676	G	C4-N9-C1'	7.87	136.73	126.50
29	D1	3342	A	C5-C6-N1	7.87	121.64	117.70
29	B1	308	A	C5-C6-N6	-7.87	117.40	123.70
29	B1	424	G	C6-C5-N7	-7.87	125.68	130.40
29	D1	1661	G	C4-N9-C1'	7.87	136.72	126.50
29	B1	1500	G	N1-C6-O6	-7.86	115.18	119.90
29	D1	3143	C	C5-C4-N4	-7.86	114.70	120.20
29	B1	3390	G	N3-C4-C5	-7.86	124.67	128.60
29	B1	1897	G	C5-C6-O6	-7.86	123.89	128.60
31	D3	34	U	C3'-C2'-C1'	-7.86	95.21	101.50
29	B1	2391	G	C4-C5-N7	7.86	113.94	110.80
29	D1	390	G	C4-N9-C1'	-7.85	116.29	126.50
29	B1	877	C	C6-N1-C2	-7.85	117.16	120.30
29	D1	923	C	C6-N1-C2	7.85	123.44	120.30
29	B1	341	G	C6-C5-N7	-7.85	125.69	130.40
29	B1	2290	C	N1-C2-O2	-7.85	114.19	118.90
29	B1	1178	G	C2-N3-C4	7.85	115.82	111.90
29	D1	1124	U	C2-N1-C1'	7.85	127.12	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1579	U	C5-C4-O4	-7.85	121.19	125.90
29	B1	422	A	C4-N9-C1'	-7.84	112.18	126.30
29	D1	577	C	C5-C4-N4	-7.84	114.71	120.20
29	B1	340	C	C6-N1-C2	-7.84	117.16	120.30
29	B1	625	G	C8-N9-C4	7.84	109.54	106.40
29	B1	782	U	C5-C4-O4	-7.84	121.19	125.90
1	C1	1073	G	C5-C6-N1	7.84	115.42	111.50
29	D1	2811	A	C5-C6-N6	7.84	129.97	123.70
1	A1	358	U	N1-C2-O2	7.84	128.29	122.80
29	B1	2611	U	C5-C4-O4	7.84	130.60	125.90
30	B2	47	C	C6-N1-C1'	-7.84	111.40	120.80
1	C1	1788	G	N3-C2-N2	-7.84	114.42	119.90
29	D1	389	A	C6-N1-C2	7.84	123.30	118.60
29	D1	3376	A	N7-C8-N9	-7.83	109.88	113.80
29	B1	2184	U	C5-C4-O4	-7.83	121.20	125.90
29	D1	2331	C	C6-N1-C2	7.83	123.43	120.30
29	D1	2845	A	C2-N3-C4	-7.83	106.68	110.60
29	D1	2889	C	N3-C2-O2	7.83	127.38	121.90
29	D1	2380	U	N1-C2-N3	7.83	119.60	114.90
29	B1	1917	C	N3-C2-O2	7.83	127.38	121.90
29	D1	429	U	N1-C2-O2	-7.82	117.32	122.80
29	B1	1928	G	C8-N9-C4	7.82	109.53	106.40
29	B1	42	C	C6-N1-C2	7.82	123.43	120.30
29	B1	299	G	N1-C6-O6	7.82	124.59	119.90
29	B1	685	G	C4-N9-C1'	7.82	136.66	126.50
1	C1	1541	G	C6-C5-N7	-7.82	125.71	130.40
29	D1	2867	C	N1-C2-O2	-7.82	114.21	118.90
29	D1	3213	A	N9-C4-C5	-7.82	102.67	105.80
29	B1	504	A	N9-C4-C5	-7.81	102.67	105.80
29	B1	3181	C	C2-N1-C1'	7.81	127.39	118.80
29	D1	1212	A	N7-C8-N9	7.81	117.70	113.80
29	B1	1661	G	C4-N9-C1'	7.81	136.65	126.50
29	B1	424	G	C5-C6-O6	-7.81	123.92	128.60
1	C1	869	A	C5-C6-N1	7.80	121.60	117.70
1	C1	1159	C	C2-N1-C1'	7.80	127.38	118.80
29	D1	2689	A	N9-C4-C5	7.80	108.92	105.80
29	B1	3054	U	N1-C2-O2	7.79	128.25	122.80
29	B1	2671	A	N1-C6-N6	7.79	123.27	118.60
29	B1	640	U	N3-C4-C5	-7.79	109.93	114.60
29	B1	561	C	N1-C2-O2	-7.79	114.23	118.90
29	B1	3179	U	C2-N3-C4	7.79	131.67	127.00
1	C1	1244	A	N1-C6-N6	-7.79	113.93	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1331	A	N1-C6-N6	-7.79	113.93	118.60
29	B1	390	G	N3-C4-C5	7.78	132.49	128.60
29	D1	3108	G	N9-C4-C5	7.78	108.51	105.40
29	B1	50	U	N3-C2-O2	-7.78	116.75	122.20
29	B1	1432	C	C2-N1-C1'	7.78	127.36	118.80
29	B1	3297	U	C2-N3-C4	-7.78	122.33	127.00
29	D1	3138	U	C5-C4-O4	-7.78	121.23	125.90
29	B1	2353	G	C4-C5-N7	7.78	113.91	110.80
29	B1	3272	C	N3-C4-C5	-7.77	118.79	121.90
29	B1	1327	C	N3-C4-C5	7.77	125.01	121.90
29	D1	2262	A	N7-C8-N9	7.77	117.69	113.80
29	D1	2667	A	N1-C2-N3	-7.77	125.42	129.30
29	D1	2897	A	C5-C6-N1	7.76	121.58	117.70
29	B1	3392	U	C6-N1-C1'	-7.76	110.33	121.20
1	C1	1541	G	C8-N9-C1'	-7.76	116.91	127.00
29	D1	816	A	C2-N3-C4	7.76	114.48	110.60
29	D1	1160	C	C2-N3-C4	7.76	123.78	119.90
29	D1	1710	C	C2-N1-C1'	7.76	127.34	118.80
29	D1	2964	G	N1-C6-O6	-7.76	115.25	119.90
29	D1	3242	G	C2-N3-C4	7.76	115.78	111.90
29	D1	3243	A	C5-C6-N1	7.76	121.58	117.70
57	Db	68	PRO	N-CA-CB	7.76	112.61	103.30
29	D1	3391	A	C5-C6-N6	-7.75	117.50	123.70
30	D2	47	C	C4-C5-C6	-7.75	113.52	117.40
29	D1	2919	A	N7-C8-N9	7.75	117.68	113.80
29	B1	3000	A	C6-N1-C2	7.75	123.25	118.60
29	D1	2283	G	C2-N3-C4	-7.75	108.03	111.90
29	D1	3324	C	C2-N1-C1'	7.75	127.32	118.80
29	B1	404	G	C4-N9-C1'	7.75	136.57	126.50
29	D1	2358	A	N7-C8-N9	-7.74	109.93	113.80
29	B1	744	A	C4-C5-N7	-7.74	106.83	110.70
29	D1	1208	U	N1-C2-O2	7.74	128.22	122.80
1	A1	45	U	N3-C4-O4	7.74	124.82	119.40
29	D1	978	G	C8-N9-C1'	-7.73	116.95	127.00
29	B1	88	A	C8-N9-C4	7.73	108.89	105.80
29	D1	3322	A	C5-C6-N1	-7.73	113.83	117.70
29	D1	505	G	C4-N9-C1'	-7.73	116.45	126.50
29	D1	1171	G	C8-N9-C4	-7.73	103.31	106.40
29	D1	589	A	C2-N3-C4	7.72	114.46	110.60
29	D1	3173	G	N3-C4-C5	7.72	132.46	128.60
29	B1	2283	G	N1-C6-O6	7.72	124.53	119.90
1	C1	1459	C	C5-C6-N1	-7.72	117.14	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	125	C	C6-N1-C1'	-7.71	111.55	120.80
29	D1	1192	C	C6-N1-C1'	-7.71	111.55	120.80
29	D1	2883	U	C5-C6-N1	-7.71	118.84	122.70
29	D1	1123	U	N1-C2-O2	-7.71	117.40	122.80
29	D1	1207	G	C4-C5-N7	7.71	113.88	110.80
29	B1	92	G	N3-C4-N9	7.71	130.62	126.00
29	D1	1178	G	C8-N9-C4	-7.71	103.32	106.40
29	D1	3390	G	N3-C4-C5	-7.70	124.75	128.60
29	B1	3300	U	N3-C2-O2	-7.70	116.81	122.20
29	B1	2391	G	N3-C4-C5	7.70	132.45	128.60
29	B1	3176	G	C5-C6-N1	-7.69	107.65	111.50
1	A1	1085	G	C8-N9-C4	7.69	109.48	106.40
29	B1	2851	A	N1-C6-N6	-7.69	113.98	118.60
29	B1	1610	G	C5-N7-C8	-7.69	100.45	104.30
29	D1	2906	C	C5-C6-N1	-7.69	117.16	121.00
29	D1	2289	U	C2-N3-C4	-7.69	122.39	127.00
29	B1	729	C	C6-N1-C1'	-7.68	111.58	120.80
1	C1	825	U	N1-C2-O2	-7.68	117.42	122.80
29	D1	2355	G	N3-C4-N9	7.68	130.61	126.00
29	D1	3226	A	C5-C6-N1	-7.68	113.86	117.70
29	B1	1409	G	C5-C6-N1	7.68	115.34	111.50
1	C1	846	G	C5-C6-O6	7.68	133.21	128.60
29	B1	661	G	C2-N3-C4	-7.68	108.06	111.90
1	A1	1620	C	N3-C2-O2	-7.68	116.53	121.90
29	B1	1648	A	C2-N3-C4	7.68	114.44	110.60
29	B1	597	G	C4-C5-N7	7.67	113.87	110.80
29	B1	2354	C	N1-C2-O2	7.67	123.50	118.90
29	D1	390	G	C8-N9-C1'	7.67	136.98	127.00
29	B1	215	G	C8-N9-C4	-7.67	103.33	106.40
29	D1	2669	G	C6-C5-N7	-7.67	125.80	130.40
29	D1	3103	A	C6-N1-C2	-7.67	114.00	118.60
29	B1	574	U	N3-C2-O2	7.67	127.57	122.20
29	B1	1432	C	C5-C6-N1	7.67	124.83	121.00
29	B1	3103	A	N3-C4-C5	-7.66	121.44	126.80
29	D1	1208	U	N3-C4-O4	-7.66	114.03	119.40
29	D1	963	G	C8-N9-C1'	-7.66	117.04	127.00
29	D1	1192	C	C5-C6-N1	7.66	124.83	121.00
31	B3	87	G	N3-C4-N9	7.66	130.59	126.00
29	B1	1323	G	C8-N9-C4	-7.65	103.34	106.40
29	B1	3314	A	C6-N1-C2	-7.65	114.01	118.60
29	B1	1123	U	N1-C2-O2	-7.65	117.44	122.80
1	A1	358	U	C2-N1-C1'	7.65	126.88	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1725	U	C2-N1-C1'	7.65	126.88	117.70
29	B1	1434	G	C8-N9-C4	7.65	109.46	106.40
29	B1	2835	U	C5-C4-O4	-7.65	121.31	125.90
29	D1	583	G	N1-C6-O6	-7.64	115.31	119.90
29	D1	1928	G	N3-C4-C5	7.64	132.42	128.60
1	A1	1591	C	C2-N1-C1'	-7.64	110.40	118.80
29	D1	1120	A	C6-N1-C2	-7.64	114.02	118.60
29	D1	2390	A	N9-C4-C5	7.64	108.86	105.80
29	B1	1151	U	N3-C4-O4	7.64	124.75	119.40
29	B1	390	G	C8-N9-C1'	7.64	136.93	127.00
29	B1	1322	U	N3-C4-C5	-7.63	110.02	114.60
29	D1	513	G	C8-N9-C1'	7.63	136.93	127.00
29	D1	752	C	C2-N1-C1'	7.63	127.20	118.80
29	B1	3143	C	C6-N1-C2	-7.63	117.25	120.30
31	B3	92	A	C5-C6-N1	-7.63	113.88	117.70
29	D1	2706	G	N1-C6-O6	-7.63	115.32	119.90
29	B1	421	G	C4-N9-C1'	7.63	136.41	126.50
31	D3	68	G	N3-C4-N9	-7.63	121.42	126.00
29	D1	1175	C	C5-C6-N1	-7.62	117.19	121.00
29	B1	244	G	C4-C5-C6	7.62	123.37	118.80
29	B1	556	U	N3-C2-O2	-7.62	116.86	122.20
29	B1	1439	U	C5-C4-O4	-7.62	121.33	125.90
29	D1	3108	G	C8-N9-C1'	7.62	136.91	127.00
29	B1	574	U	C5-C4-O4	-7.62	121.33	125.90
29	B1	2115	G	C5-N7-C8	-7.62	100.49	104.30
29	D1	1097	G	C5-C6-O6	7.62	133.17	128.60
29	D1	1331	U	C5-C6-N1	-7.62	118.89	122.70
29	B1	370	U	C2-N1-C1'	-7.61	108.56	117.70
29	B1	3054	U	N3-C2-O2	-7.61	116.87	122.20
29	D1	2391	G	C4-C5-N7	7.61	113.84	110.80
29	B1	751	A	C5-C6-N1	7.61	121.50	117.70
29	B1	3390	G	C8-N9-C1'	-7.61	117.11	127.00
44	BO	84	PRO	N-CA-CB	7.61	112.43	103.30
29	D1	341	G	N1-C6-O6	7.61	124.46	119.90
30	D2	10	C	C2-N1-C1'	7.61	127.17	118.80
29	D1	718	G	N3-C4-C5	-7.60	124.80	128.60
29	B1	3342	A	C5-C6-N1	7.60	121.50	117.70
1	C1	1595	U	N3-C4-O4	7.60	124.72	119.40
29	B1	390	G	C4-N9-C1'	-7.60	116.62	126.50
29	B1	726	G	N3-C4-C5	-7.60	124.80	128.60
29	B1	3303	G	C2-N3-C4	7.60	115.70	111.90
29	B1	584	G	C8-N9-C4	7.59	109.44	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	505	G	C6-C5-N7	7.59	134.96	130.40
29	B1	1420	C	N3-C4-C5	7.59	124.94	121.90
1	C1	647	G	C5-C6-N1	7.59	115.30	111.50
1	A1	1418	G	C5-C6-O6	-7.59	124.05	128.60
29	D1	3099	C	N1-C2-N3	-7.59	113.89	119.20
29	D1	3291	G	C8-N9-C1'	-7.59	117.14	127.00
29	B1	1060	U	C2-N1-C1'	7.59	126.81	117.70
29	B1	3263	G	N1-C6-O6	-7.59	115.35	119.90
29	D1	3235	C	C2-N3-C4	-7.58	116.11	119.90
1	A1	1606	C	C6-N1-C2	7.58	123.33	120.30
31	B3	93	U	C6-N1-C2	7.58	125.55	121.00
29	B1	978	G	N3-C4-N9	7.58	130.55	126.00
29	B1	2335	G	N1-C6-O6	-7.58	115.35	119.90
29	D1	1388	U	N1-C2-O2	-7.58	117.49	122.80
29	D1	2331	C	C2-N1-C1'	-7.58	110.46	118.80
29	D1	3059	G	C4-C5-N7	7.58	113.83	110.80
29	B1	2380	U	C2-N3-C4	-7.58	122.45	127.00
29	B1	2990	G	C2-N3-C4	-7.58	108.11	111.90
29	B1	3391	A	N1-C6-N6	7.58	123.15	118.60
29	B1	1292	C	N1-C2-O2	-7.58	114.36	118.90
29	B1	2277	C	C2-N3-C4	-7.57	116.11	119.90
29	B1	2341	A	C8-N9-C4	7.57	108.83	105.80
29	D1	1314	C	N1-C2-O2	7.57	123.44	118.90
29	D1	1480	G	C4-C5-N7	7.57	113.83	110.80
29	D1	2331	C	C5-C6-N1	-7.57	117.22	121.00
30	D2	49	G	C2-N3-C4	7.57	115.68	111.90
29	B1	2636	A	N1-C2-N3	7.57	133.08	129.30
29	B1	3103	A	C6-N1-C2	-7.57	114.06	118.60
29	D1	978	G	C4-N9-C1'	7.57	136.34	126.50
29	B1	1318	A	C5-C6-N1	7.56	121.48	117.70
29	B1	2993	G	C6-C5-N7	7.56	134.94	130.40
1	A1	54	C	C6-N1-C2	7.56	123.33	120.30
29	B1	3207	U	N3-C4-O4	-7.56	114.11	119.40
29	D1	1327	C	C5-C6-N1	-7.56	117.22	121.00
29	D1	3265	C	N1-C2-O2	7.56	123.44	118.90
29	B1	2993	G	C8-N9-C4	-7.56	103.38	106.40
29	B1	787	G	C6-C5-N7	-7.55	125.87	130.40
29	B1	3392	U	N1-C2-N3	7.55	119.43	114.90
29	D1	625	G	C5-C6-N1	-7.55	107.72	111.50
29	D1	366	A	C8-N9-C4	7.55	108.82	105.80
29	D1	3000	A	C6-N1-C2	7.55	123.13	118.60
29	B1	2247	G	C6-C5-N7	-7.55	125.87	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1323	G	N7-C8-N9	7.55	116.88	113.10
29	D1	125	C	C6-N1-C1'	-7.55	111.74	120.80
29	B1	659	G	N3-C4-N9	7.55	130.53	126.00
29	B1	1085	A	C8-N9-C4	-7.55	102.78	105.80
30	B2	13	A	C8-N9-C1'	7.55	141.28	127.70
29	D1	1450	G	N9-C4-C5	-7.55	102.38	105.40
29	D1	2752	U	N3-C2-O2	-7.55	116.92	122.20
29	D1	3314	A	N1-C2-N3	7.55	133.07	129.30
29	D1	95	A	C8-N9-C4	7.54	108.82	105.80
29	D1	647	A	C2-N3-C4	-7.54	106.83	110.60
29	D1	2957	G	N3-C4-C5	7.54	132.37	128.60
1	A1	1220	C	C2-N1-C1'	7.54	127.09	118.80
29	B1	3266	G	C4-C5-N7	-7.54	107.78	110.80
1	A1	1073	G	N3-C4-C5	-7.54	124.83	128.60
29	B1	1751	G	N3-C4-C5	-7.53	124.83	128.60
29	B1	2358	A	N7-C8-N9	-7.53	110.03	113.80
29	D1	2392	C	N3-C4-C5	7.53	124.91	121.90
29	D1	2646	C	C6-N1-C2	7.53	123.31	120.30
29	D1	3342	A	C6-N1-C2	-7.53	114.08	118.60
29	D1	2302	G	N3-C4-C5	7.53	132.36	128.60
1	A1	1541	G	C4-N9-C1'	7.53	136.28	126.50
1	A1	63	G	C4-C5-N7	-7.52	107.79	110.80
29	B1	2201	G	N1-C6-O6	7.52	124.42	119.90
29	D1	3213	A	C4-C5-N7	7.52	114.46	110.70
29	B1	3220	G	N7-C8-N9	7.52	116.86	113.10
29	B1	434	U	N1-C2-O2	-7.52	117.54	122.80
29	B1	3273	A	C8-N9-C4	-7.52	102.79	105.80
29	D1	2398	A	C5-C6-N6	-7.52	117.69	123.70
29	B1	790	U	C5-C6-N1	-7.52	118.94	122.70
29	B1	638	C	C6-N1-C2	7.51	123.31	120.30
29	B1	428	A	C6-C5-N7	-7.51	127.04	132.30
30	D2	66	A	N3-C4-C5	7.51	132.06	126.80
1	C1	1045	C	N3-C2-O2	-7.51	116.64	121.90
29	B1	1710	C	C2-N1-C1'	7.51	127.06	118.80
29	D1	1547	G	N3-C4-N9	7.51	130.50	126.00
29	D1	1899	G	N7-C8-N9	-7.51	109.35	113.10
29	D1	3035	A	N3-C4-N9	7.50	133.40	127.40
29	B1	1892	G	C4-C5-N7	-7.50	107.80	110.80
29	B1	2683	U	C2-N1-C1'	7.50	126.70	117.70
29	B1	2835	U	N3-C4-O4	7.50	124.65	119.40
29	D1	29	C	N3-C2-O2	7.50	127.15	121.90
29	B1	1152	G	C5-C6-N1	-7.50	107.75	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1363	A	C4-C5-C6	-7.50	113.25	117.00
29	B1	3188	G	N9-C4-C5	-7.50	102.40	105.40
29	D1	1432	C	C2-N1-C1'	7.50	127.05	118.80
29	D1	1547	G	N9-C4-C5	-7.50	102.40	105.40
1	A1	517	U	C5-C6-N1	-7.49	118.95	122.70
29	B1	573	C	N1-C2-O2	-7.49	114.40	118.90
29	D1	3307	A	C2-N3-C4	-7.49	106.85	110.60
29	B1	1661	G	C8-N9-C1'	-7.49	117.26	127.00
29	D1	2876	C	C2-N3-C4	-7.49	116.15	119.90
29	D1	3181	C	C2-N1-C1'	7.49	127.04	118.80
29	B1	750	G	C6-C5-N7	7.49	134.90	130.40
29	B1	3120	C	C6-N1-C2	7.49	123.30	120.30
29	B1	3250	U	C5-C6-N1	-7.49	118.95	122.70
58	Bc	39	PRO	N-CA-CB	7.49	112.29	103.30
29	D1	509	U	C5-C4-O4	7.48	130.39	125.90
29	D1	625	G	C2-N3-C4	-7.48	108.16	111.90
29	B1	1152	G	C2-N3-C4	-7.48	108.16	111.90
29	B1	2618	G	C5-C6-O6	7.48	133.09	128.60
29	B1	299	G	C6-C5-N7	-7.48	125.91	130.40
29	B1	424	G	C4-C5-N7	7.48	113.79	110.80
29	B1	432	G	N1-C6-O6	7.48	124.39	119.90
29	B1	2957	G	N3-C4-N9	-7.48	121.51	126.00
29	B1	654	C	C2-N3-C4	-7.47	116.16	119.90
29	B1	1459	C	C2-N3-C4	-7.47	116.16	119.90
30	D2	66	A	N3-C4-N9	-7.47	121.42	127.40
30	D2	111	U	C5-C6-N1	7.47	126.44	122.70
1	A1	1620	C	N1-C2-O2	7.47	123.38	118.90
29	B1	2241	U	C5-C4-O4	7.47	130.38	125.90
29	D1	517	G	N9-C4-C5	7.47	108.39	105.40
29	D1	744	A	N1-C6-N6	-7.47	114.12	118.60
1	A1	517	U	C5-C4-O4	7.47	130.38	125.90
29	B1	2823	G	C6-C5-N7	7.46	134.88	130.40
29	D1	895	A	C8-N9-C4	-7.46	102.81	105.80
42	DK	8	PRO	N-CA-CB	7.46	112.26	103.30
47	BR	143	PRO	N-CA-CB	7.46	112.25	103.30
29	B1	3188	G	C8-N9-C4	7.46	109.38	106.40
29	D1	875	G	C8-N9-C1'	-7.46	117.31	127.00
29	B1	3176	G	C6-N1-C2	7.46	129.57	125.10
29	B1	3376	A	N1-C6-N6	-7.46	114.13	118.60
1	C1	1535	U	C5-C6-N1	7.46	126.43	122.70
29	D1	52	A	N3-C4-N9	7.46	133.36	127.40
29	D1	608	A	N1-C6-N6	7.45	123.07	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	107	A	C8-N9-C4	-7.45	102.82	105.80
29	B1	364	G	N9-C4-C5	-7.45	102.42	105.40
29	B1	1907	C	C5-C6-N1	-7.45	117.27	121.00
29	D1	102	C	C6-N1-C2	-7.45	117.32	120.30
29	D1	3212	C	C5-C4-N4	7.45	125.41	120.20
29	B1	946	U	C2-N1-C1'	7.45	126.64	117.70
57	Bb	123	LYS	N-CA-C	-7.45	90.89	111.00
29	B1	2929	C	C5-C4-N4	-7.45	114.99	120.20
29	D1	1296	C	C6-N1-C2	-7.45	117.32	120.30
1	A1	13	C	C2-N1-C1'	7.44	126.98	118.80
29	B1	1124	U	N1-C2-O2	7.44	128.01	122.80
29	D1	1054	A	C8-N9-C4	7.44	108.78	105.80
29	D1	1434	G	N9-C4-C5	-7.44	102.42	105.40
44	DO	137	PRO	N-CA-CB	7.44	112.23	103.30
29	B1	2147	A	N1-C6-N6	7.44	123.06	118.60
29	B1	531	G	N3-C2-N2	-7.44	114.69	119.90
29	D1	1111	U	C2-N1-C1'	-7.44	108.78	117.70
29	D1	1192	C	N1-C2-O2	7.44	123.36	118.90
29	D1	1342	C	C5-C6-N1	-7.44	117.28	121.00
29	B1	1432	C	C6-N1-C2	-7.43	117.33	120.30
29	D1	3376	A	C2-N3-C4	7.43	114.32	110.60
1	A1	1159	C	C2-N1-C1'	7.43	126.97	118.80
29	D1	404	G	C4-N9-C1'	7.43	136.16	126.50
29	D1	1065	A	C2-N3-C4	7.43	114.31	110.60
29	B1	89	A	C4-C5-N7	7.43	114.41	110.70
1	C1	338	C	C2-N1-C1'	7.43	126.97	118.80
29	D1	2662	G	C4-C5-N7	7.43	113.77	110.80
29	D1	3059	G	C5-C6-O6	-7.43	124.14	128.60
1	C1	1455	G	C8-N9-C4	-7.42	103.43	106.40
29	D1	2701	U	C5-C4-O4	-7.42	121.44	125.90
29	D1	2757	U	N1-C2-O2	-7.42	117.60	122.80
29	B1	3132	C	N3-C2-O2	7.42	127.10	121.90
29	B1	345	G	C5-C6-N1	-7.42	107.79	111.50
29	B1	1855	U	N1-C2-O2	7.42	128.00	122.80
29	B1	885	U	C5-C6-N1	-7.42	118.99	122.70
29	B1	2283	G	N3-C4-N9	-7.42	121.55	126.00
1	C1	16	G	N3-C4-N9	7.42	130.45	126.00
29	D1	3291	G	C4-N9-C1'	7.42	136.14	126.50
30	D2	113	C	C4-C5-C6	7.42	121.11	117.40
1	A1	1073	G	C4-N9-C1'	7.42	136.14	126.50
42	BK	8	PRO	N-CA-CB	7.41	112.20	103.30
29	D1	2892	A	N1-C6-N6	7.41	123.05	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1234	A	C5-C6-N1	-7.41	114.00	117.70
29	B1	645	A	N9-C4-C5	7.41	108.76	105.80
29	B1	1677	G	C5-C6-O6	7.41	133.04	128.60
29	D1	1187	C	N1-C2-O2	-7.41	114.45	118.90
29	D1	3108	G	N3-C4-N9	-7.41	121.56	126.00
29	D1	287	G	N1-C6-O6	7.41	124.34	119.90
29	D1	3390	G	C8-N9-C1'	-7.41	117.37	127.00
1	A1	1028	C	C6-N1-C1'	-7.40	111.92	120.80
29	D1	3314	A	C4-C5-C6	7.40	120.70	117.00
29	D1	669	U	C2-N1-C1'	7.40	126.58	117.70
1	A1	610	G	N7-C8-N9	7.40	116.80	113.10
1	A1	1421	A	N1-C6-N6	-7.40	114.16	118.60
29	B1	581	U	N3-C2-O2	-7.40	117.02	122.20
31	D3	87	G	N3-C4-C5	-7.40	124.90	128.60
29	B1	867	G	C5-C6-N1	-7.40	107.80	111.50
47	DR	143	PRO	N-CA-CB	7.40	112.18	103.30
30	B2	15	C	C5-C4-N4	-7.40	115.02	120.20
29	D1	577	C	N3-C4-C5	-7.40	118.94	121.90
1	A1	1772	C	C6-N1-C2	7.39	123.26	120.30
29	B1	503	C	C6-N1-C2	-7.39	117.34	120.30
56	Da	53	PRO	N-CA-CB	7.39	112.17	103.30
29	B1	3226	A	N1-C6-N6	-7.39	114.16	118.60
29	D1	614	C	N3-C4-C5	7.39	124.86	121.90
29	D1	2892	A	C2-N3-C4	-7.39	106.90	110.60
29	D1	3386	G	C5-C6-N1	-7.39	107.80	111.50
1	A1	1141	G	C4-N9-C1'	7.39	136.11	126.50
29	B1	1335	C	N1-C2-O2	-7.39	114.47	118.90
29	D1	503	C	C6-N1-C1'	7.39	129.67	120.80
29	D1	1367	G	C2-N3-C4	-7.39	108.21	111.90
1	A1	1121	C	N1-C2-O2	-7.39	114.47	118.90
29	B1	3035	A	C5-C6-N1	7.39	121.39	117.70
1	C1	427	C	N3-C2-O2	7.39	127.07	121.90
29	D1	588	G	N3-C2-N2	-7.39	114.73	119.90
29	B1	873	C	N3-C2-O2	7.38	127.07	121.90
29	B1	2115	G	C5-C6-O6	-7.38	124.17	128.60
1	C1	55	A	N1-C6-N6	-7.38	114.17	118.60
29	D1	3137	C	N3-C4-C5	7.38	124.85	121.90
29	D1	723	U	N3-C4-O4	7.38	124.57	119.40
29	B1	2667	A	N1-C6-N6	-7.38	114.17	118.60
29	D1	3300	U	N3-C2-O2	-7.38	117.03	122.20
29	D1	2851	A	N1-C6-N6	-7.38	114.17	118.60
29	D1	963	G	C5-C6-O6	-7.38	124.17	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3386	G	C4-N9-C1'	7.38	136.09	126.50
29	B1	3212	C	C2-N3-C4	-7.38	116.21	119.90
29	D1	1855	U	N1-C2-O2	7.38	127.96	122.80
29	D1	3207	U	N1-C2-N3	7.38	119.33	114.90
29	B1	3211	C	N3-C2-O2	7.38	127.06	121.90
1	C1	79	C	C2-N1-C1'	7.37	126.91	118.80
29	D1	94	G	N9-C4-C5	7.37	108.35	105.40
29	D1	3138	U	N3-C4-O4	7.37	124.56	119.40
29	D1	3093	C	C6-N1-C2	7.37	123.25	120.30
1	C1	1579	U	C5-C4-O4	-7.37	121.48	125.90
31	B3	68	G	N3-C4-N9	-7.36	121.58	126.00
1	C1	54	C	N3-C4-C5	7.36	124.84	121.90
29	D1	2339	C	C2-N1-C1'	7.36	126.90	118.80
29	D1	3192	U	N3-C2-O2	7.36	127.35	122.20
1	A1	1547	A	C8-N9-C4	7.36	108.75	105.80
29	B1	1610	G	C5-C6-O6	-7.36	124.18	128.60
29	D1	1193	A	C5-C6-N6	-7.36	117.81	123.70
29	D1	2992	U	C5-C4-O4	-7.36	121.48	125.90
29	B1	29	C	N3-C2-O2	7.36	127.05	121.90
29	B1	2683	U	C6-N1-C1'	-7.36	110.90	121.20
38	BG	97	PRO	N-CA-CB	7.36	112.13	103.30
1	A1	1421	A	N3-C4-C5	-7.36	121.65	126.80
29	B1	2960	C	C6-N1-C2	7.36	123.24	120.30
29	D1	2665	U	N3-C4-C5	7.36	119.01	114.60
29	D1	3035	A	C6-C5-N7	-7.36	127.15	132.30
29	D1	3096	C	N1-C2-O2	-7.36	114.49	118.90
29	B1	917	A	N1-C6-N6	-7.35	114.19	118.60
29	B1	52	A	C6-N1-C2	-7.35	114.19	118.60
29	B1	537	A	C5-C6-N6	7.35	129.58	123.70
29	B1	687	U	C6-N1-C1'	7.35	131.49	121.20
29	B1	2395	G	N7-C8-N9	7.35	116.78	113.10
29	D1	1426	C	C6-N1-C2	7.35	123.24	120.30
29	D1	2419	A	N1-C6-N6	7.35	123.01	118.60
29	D1	2882	U	C5-C6-N1	7.35	126.37	122.70
29	B1	1902	G	C8-N9-C1'	-7.35	117.45	127.00
29	D1	435	C	C6-N1-C2	7.35	123.24	120.30
29	D1	2876	C	C6-N1-C2	7.35	123.24	120.30
29	D1	2993	G	C8-N9-C4	-7.34	103.46	106.40
29	D1	2946	A	C8-N9-C4	-7.34	102.86	105.80
29	B1	1320	C	N3-C4-N4	7.34	123.14	118.00
1	C1	979	A	N1-C6-N6	-7.34	114.19	118.60
29	D1	2906	C	C6-N1-C2	7.34	123.24	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2681	U	N1-C2-N3	-7.34	110.50	114.90
43	BN	49	PRO	N-CA-CB	7.34	112.10	103.30
29	D1	422	A	N7-C8-N9	-7.34	110.13	113.80
29	B1	3257	C	C5-C6-N1	-7.33	117.33	121.00
29	B1	193	C	C6-N1-C2	-7.33	117.37	120.30
29	B1	511	G	N3-C4-N9	-7.33	121.60	126.00
30	D2	92	A	C8-N9-C4	7.33	108.73	105.80
29	D1	189	G	N1-C6-O6	-7.33	115.50	119.90
56	Ba	53	PRO	N-CA-CB	7.33	112.09	103.30
29	B1	500	C	C6-N1-C1'	-7.32	112.01	120.80
29	D1	1501	U	C2-N1-C1'	-7.32	108.91	117.70
29	D1	2420	C	C6-N1-C2	-7.32	117.37	120.30
29	B1	422	A	C8-N9-C4	7.32	108.73	105.80
29	B1	3320	A	C6-N1-C2	7.32	122.99	118.60
1	C1	1733	C	C6-N1-C2	7.32	123.23	120.30
29	D1	3132	C	C5-C6-N1	-7.32	117.34	121.00
29	D1	504	A	C6-C5-N7	-7.32	127.18	132.30
29	D1	2823	G	N3-C4-N9	-7.32	121.61	126.00
29	D1	3244	A	C4-C5-C6	-7.32	113.34	117.00
29	D1	2827	U	N3-C2-O2	-7.31	117.08	122.20
29	B1	651	G	C8-N9-C4	7.31	109.32	106.40
29	B1	3297	U	N1-C2-N3	7.31	119.29	114.90
29	D1	2693	C	N3-C4-C5	7.31	124.82	121.90
1	A1	1377	U	N3-C4-O4	7.31	124.51	119.40
29	B1	1803	C	N3-C4-C5	7.30	124.82	121.90
16	AO	95	PRO	N-CA-CB	7.30	112.06	103.30
29	B1	517	G	N3-C2-N2	-7.30	114.79	119.90
29	B1	1917	C	N1-C2-O2	-7.30	114.52	118.90
29	D1	1501	U	C5-C6-N1	-7.30	119.05	122.70
29	D1	2881	C	C6-N1-C2	7.30	123.22	120.30
29	B1	1076	C	C2-N1-C1'	7.30	126.83	118.80
29	D1	636	C	C6-N1-C2	7.30	123.22	120.30
1	A1	631	G	C8-N9-C4	-7.30	103.48	106.40
29	B1	89	A	N1-C6-N6	7.30	122.98	118.60
29	D1	2668	U	N3-C2-O2	-7.30	117.09	122.20
1	A1	337	G	N1-C6-O6	7.29	124.28	119.90
29	B1	2679	A	N1-C6-N6	7.29	122.97	118.60
45	BP	76	PRO	N-CA-CB	7.29	112.05	103.30
29	D1	1861	G	C2-N3-C4	-7.29	108.25	111.90
29	B1	3243	A	N3-C4-C5	-7.29	121.70	126.80
29	D1	2939	G	N1-C6-O6	-7.29	115.53	119.90
29	D1	257	U	C5-C4-O4	-7.29	121.53	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2297	U	N3-C2-O2	7.29	127.30	122.20
29	D1	3220	G	C8-N9-C4	-7.28	103.49	106.40
29	B1	638	C	N3-C4-C5	7.28	124.81	121.90
29	B1	278	U	N1-C2-O2	-7.28	117.70	122.80
29	B1	1436	U	C5-C4-O4	7.28	130.27	125.90
31	B3	47	C	C6-N1-C2	7.28	123.21	120.30
29	B1	589	A	C4-N9-C1'	7.28	139.40	126.30
1	A1	610	G	C4-C5-C6	7.27	123.16	118.80
29	B1	677	A	N7-C8-N9	7.27	117.44	113.80
29	B1	3300	U	C5-C4-O4	7.27	130.26	125.90
1	C1	91	G	N3-C4-C5	7.27	132.24	128.60
29	D1	586	C	N3-C2-O2	7.27	126.99	121.90
1	C1	610	G	N3-C4-N9	7.27	130.36	126.00
29	B1	3001	C	C2-N3-C4	-7.27	116.27	119.90
29	B1	963	G	C4-C5-N7	7.27	113.71	110.80
29	B1	3175	U	N3-C2-O2	-7.26	117.11	122.20
29	B1	3396	U	C2-N1-C1'	7.26	126.42	117.70
29	D1	192	C	N1-C2-O2	-7.26	114.54	118.90
29	D1	2838	A	C8-N9-C4	7.26	108.70	105.80
29	B1	1677	G	N1-C6-O6	-7.26	115.55	119.90
1	C1	45	U	N3-C2-O2	-7.26	117.12	122.20
1	C1	1335	U	N1-C2-O2	7.26	127.88	122.80
29	B1	171	G	N3-C4-N9	7.25	130.35	126.00
29	B1	674	G	N1-C6-O6	7.25	124.25	119.90
29	D1	847	A	C2-N3-C4	-7.25	106.97	110.60
29	D1	1661	G	N9-C4-C5	-7.25	102.50	105.40
29	B1	421	G	C5-N7-C8	-7.25	100.67	104.30
29	D1	3101	G	C5-C6-O6	-7.25	124.25	128.60
31	B3	42	G	N3-C4-C5	7.25	132.22	128.60
1	C1	1203	A	C8-N9-C4	-7.25	102.90	105.80
29	B1	387	A	C5-C6-N1	-7.25	114.08	117.70
29	B1	3265	C	N1-C2-O2	7.25	123.25	118.90
29	D1	875	G	C4-N9-C1'	7.25	135.92	126.50
29	D1	1085	A	N1-C6-N6	7.25	122.95	118.60
29	D1	1609	C	N3-C2-O2	7.25	126.97	121.90
29	B1	927	C	C6-N1-C2	7.24	123.20	120.30
11	CJ	41	PRO	N-CA-CB	7.24	111.99	103.30
29	D1	2296	A	C8-N9-C4	-7.24	102.90	105.80
29	D1	244	G	C4-C5-C6	7.24	123.14	118.80
29	B1	1450	G	N7-C8-N9	7.24	116.72	113.10
29	B1	1506	A	C5-C6-N6	-7.24	117.91	123.70
29	D1	685	G	C4-N9-C1'	7.24	135.91	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3304	U	N1-C2-N3	-7.24	110.56	114.90
29	B1	39	A	C4-C5-N7	7.23	114.32	110.70
29	D1	859	G	C5-C6-O6	-7.23	124.26	128.60
29	D1	1381	A	N1-C6-N6	-7.23	114.26	118.60
29	D1	593	C	N3-C2-O2	-7.23	116.84	121.90
29	D1	2362	C	C2-N1-C1'	-7.23	110.85	118.80
29	B1	719	U	C5-C4-O4	-7.23	121.56	125.90
29	D1	612	U	C5-C4-O4	-7.22	121.57	125.90
1	C1	1788	G	C4-C5-N7	-7.22	107.91	110.80
29	D1	2123	G	N1-C6-O6	-7.22	115.57	119.90
29	B1	2302	G	C6-C5-N7	7.22	134.73	130.40
29	D1	677	A	C8-N9-C4	-7.22	102.91	105.80
29	D1	2673	A	C5-C6-N6	-7.22	117.92	123.70
29	B1	3036	G	C8-N9-C4	7.22	109.29	106.40
1	C1	686	C	N3-C4-C5	7.22	124.79	121.90
29	D1	589	A	N3-C4-C5	-7.22	121.75	126.80
1	A1	427	C	N3-C2-O2	7.22	126.95	121.90
29	D1	556	U	N1-C2-O2	7.22	127.85	122.80
29	B1	1501	U	C5-C6-N1	-7.21	119.09	122.70
29	D1	1060	U	C6-N1-C1'	-7.21	111.10	121.20
29	D1	2195	C	C6-N1-C2	7.21	123.19	120.30
29	D1	2988	C	C2-N1-C1'	7.21	126.73	118.80
29	B1	2689	A	N1-C2-N3	7.21	132.91	129.30
29	D1	851	C	C6-N1-C2	7.21	123.18	120.30
29	D1	1379	G	N1-C6-O6	7.21	124.23	119.90
29	B1	422	A	C4-C5-C6	-7.21	113.39	117.00
29	B1	1187	C	N3-C2-O2	7.21	126.95	121.90
54	BY	2	PRO	N-CA-CB	7.21	111.95	103.30
29	D1	2139	A	N1-C6-N6	-7.21	114.28	118.60
29	D1	3099	C	C6-N1-C1'	-7.21	112.15	120.80
29	D1	953	G	C4-C5-N7	7.20	113.68	110.80
29	D1	2248	C	C6-N1-C2	7.20	123.18	120.30
29	D1	1434	G	C6-C5-N7	-7.20	126.08	130.40
1	A1	1301	U	C6-N1-C2	7.20	125.32	121.00
1	A1	1789	G	C8-N9-C4	7.20	109.28	106.40
29	B1	577	C	N3-C4-C5	-7.20	119.02	121.90
29	B1	1928	G	N3-C4-C5	7.20	132.20	128.60
29	D1	963	G	N1-C6-O6	7.20	124.22	119.90
1	A1	1498	G	N3-C4-C5	-7.19	125.00	128.60
29	B1	3095	U	N1-C2-O2	-7.19	117.77	122.80
29	B1	1434	G	C5-C6-O6	-7.19	124.29	128.60
29	D1	949	C	C2-N3-C4	-7.19	116.31	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	877	C	C2-N1-C1'	7.19	126.71	118.80
29	B1	1184	A	C5-C6-N6	7.19	129.45	123.70
30	D2	30	G	N3-C4-C5	7.19	132.19	128.60
29	B1	3213	A	N1-C6-N6	7.19	122.91	118.60
1	A1	373	G	N3-C4-C5	7.18	132.19	128.60
34	BC	9	PRO	N-CA-CB	7.18	111.92	103.30
29	D1	3193	C	N1-C2-O2	-7.18	114.59	118.90
29	B1	3322	A	C5-C6-N6	7.18	129.44	123.70
44	DO	76	PRO	N-CA-CB	7.18	111.91	103.30
29	D1	3177	G	N3-C2-N2	-7.17	114.88	119.90
29	D1	3250	U	C5-C6-N1	-7.17	119.11	122.70
29	B1	21	G	C4-C5-N7	7.17	113.67	110.80
29	B1	429	U	N1-C2-N3	7.17	119.20	114.90
29	B1	1154	A	C2-N3-C4	7.17	114.19	110.60
37	BF	11	PRO	N-CA-CB	7.17	111.91	103.30
29	D1	1002	A	C5-C6-N1	7.17	121.29	117.70
29	D1	1165	A	N1-C6-N6	7.17	122.90	118.60
29	B1	1194	G	C8-N9-C4	-7.17	103.53	106.40
1	A1	310	C	C5-C4-N4	-7.17	115.18	120.20
29	D1	3202	G	C8-N9-C4	7.17	109.27	106.40
1	A1	62	A	N9-C4-C5	7.17	108.67	105.80
29	B1	634	C	C2-N3-C4	-7.17	116.32	119.90
29	B1	881	C	C6-N1-C2	7.17	123.17	120.30
29	D1	1322	U	N3-C4-O4	7.17	124.42	119.40
29	B1	866	A	N7-C8-N9	7.17	117.38	113.80
29	B1	3297	U	C5-C4-O4	-7.16	121.60	125.90
29	D1	590	G	N3-C4-C5	7.16	132.18	128.60
45	DP	107	GLY	N-CA-C	-7.16	95.19	113.10
29	B1	712	G	C8-N9-C1'	-7.16	117.69	127.00
1	C1	1541	G	N3-C4-C5	-7.16	125.02	128.60
29	D1	2988	C	C6-N1-C1'	-7.16	112.21	120.80
1	A1	1567	U	C2-N1-C1'	7.16	126.29	117.70
29	B1	2325	G	C5-N7-C8	-7.16	100.72	104.30
29	B1	3114	A	C8-N9-C4	7.16	108.66	105.80
29	B1	3193	C	N3-C2-O2	7.16	126.91	121.90
29	D1	1589	A	C5-N7-C8	-7.16	100.32	103.90
29	D1	3181	C	C6-N1-C2	7.16	123.16	120.30
29	B1	1367	G	C4-C5-C6	7.16	123.09	118.80
1	C1	1073	G	C4-N9-C1'	7.16	135.80	126.50
29	D1	1047	A	C8-N9-C4	-7.16	102.94	105.80
29	D1	3198	U	C6-N1-C1'	-7.16	111.18	121.20
29	D1	3025	C	C2-N1-C1'	-7.15	110.93	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	513	G	C4-N9-C1'	-7.15	117.20	126.50
1	A1	1220	C	C6-N1-C1'	-7.15	112.22	120.80
29	B1	2939	G	C4-C5-N7	-7.15	107.94	110.80
29	B1	3074	G	C8-N9-C4	7.15	109.26	106.40
29	B1	1648	A	C5-C6-N1	7.15	121.27	117.70
29	D1	1303	A	C2-N3-C4	-7.15	107.03	110.60
29	D1	1859	A	N1-C6-N6	7.15	122.89	118.60
29	B1	286	U	N1-C2-O2	7.14	127.80	122.80
29	D1	88	A	C2-N3-C4	-7.14	107.03	110.60
29	D1	999	G	C5-C6-N1	7.14	115.07	111.50
1	A1	825	U	N1-C2-O2	-7.14	117.80	122.80
1	C1	1644	C	C2-N3-C4	-7.14	116.33	119.90
47	DR	61	PRO	N-CA-CB	7.14	111.87	103.30
29	B1	1426	C	N1-C2-O2	-7.14	114.62	118.90
29	B1	1333	C	C5-C6-N1	-7.13	117.43	121.00
1	C1	1602	C	C2-N1-C1'	7.13	126.65	118.80
29	D1	568	G	C4-C5-N7	7.13	113.65	110.80
29	B1	300	G	N1-C6-O6	7.13	124.18	119.90
29	D1	3184	A	C6-C5-N7	-7.13	127.31	132.30
29	B1	2917	G	C8-N9-C4	7.13	109.25	106.40
29	B1	2939	G	N1-C6-O6	-7.13	115.62	119.90
29	B1	497	C	N3-C4-C5	7.13	124.75	121.90
47	BR	61	PRO	N-CA-CB	7.13	111.85	103.30
29	D1	1045	C	N1-C2-O2	-7.13	114.62	118.90
29	B1	1898	G	N9-C4-C5	7.13	108.25	105.40
30	D2	113	C	N1-C2-N3	7.12	124.19	119.20
29	B1	1060	U	C5-C4-O4	-7.12	121.62	125.90
29	B1	2700	G	C5-C6-O6	-7.12	124.33	128.60
1	C1	1408	G	C4-N9-C1'	7.12	135.76	126.50
29	D1	3089	C	C5-C6-N1	7.12	124.56	121.00
29	D1	3376	A	C6-C5-N7	7.12	137.28	132.30
29	D1	726	G	C8-N9-C1'	-7.12	117.75	127.00
29	D1	2823	G	C8-N9-C1'	7.11	136.25	127.00
31	D3	87	G	N3-C4-N9	7.11	130.27	126.00
1	A1	332	U	N3-C2-O2	-7.11	117.22	122.20
29	B1	634	C	C5-C6-N1	-7.11	117.44	121.00
29	D1	3252	G	C5-C6-N1	7.11	115.06	111.50
29	B1	2673	A	C5-C6-N6	-7.11	118.01	123.70
29	B1	3177	G	N3-C2-N2	-7.11	114.92	119.90
29	B1	3176	G	N9-C4-C5	7.11	108.24	105.40
29	B1	3257	C	C6-N1-C2	7.11	123.14	120.30
29	D1	117	U	C5-C4-O4	-7.11	121.64	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	358	U	C2-N1-C1'	7.10	126.22	117.70
1	C1	1109	G	N1-C6-O6	7.10	124.16	119.90
1	C1	1331	A	N9-C4-C5	7.10	108.64	105.80
29	B1	853	G	C2-N3-C4	7.10	115.45	111.90
29	B1	3263	G	N9-C4-C5	7.10	108.24	105.40
29	B1	341	G	C5-C6-O6	-7.10	124.34	128.60
29	D1	2277	C	C6-N1-C2	7.10	123.14	120.30
1	A1	55	A	N1-C6-N6	-7.09	114.34	118.60
1	A1	306	U	C5-C6-N1	-7.09	119.15	122.70
29	B1	923	C	C6-N1-C2	7.09	123.14	120.30
29	B1	3090	U	C4-C5-C6	-7.09	115.44	119.70
29	D1	890	C	C6-N1-C2	7.09	123.14	120.30
29	B1	1379	G	N1-C6-O6	7.09	124.16	119.90
29	B1	1429	G	N3-C4-C5	-7.09	125.05	128.60
29	B1	2361	A	C5-C6-N1	7.09	121.25	117.70
29	D1	515	C	N3-C2-O2	7.09	126.86	121.90
1	A1	596	C	C6-N1-C2	7.09	123.14	120.30
29	B1	32	U	N3-C4-O4	-7.09	114.44	119.40
29	B1	1111	U	N3-C2-O2	7.09	127.16	122.20
29	B1	1751	G	C5-C6-O6	7.09	132.85	128.60
29	D1	257	U	C2-N1-C1'	7.09	126.20	117.70
29	D1	52	A	C6-C5-N7	-7.08	127.34	132.30
29	D1	656	A	C5-C6-N1	7.08	121.24	117.70
29	D1	1445	U	C5-C6-N1	-7.08	119.16	122.70
29	D1	52	A	C6-N1-C2	-7.08	114.35	118.60
29	D1	2964	G	C5-C6-O6	7.08	132.85	128.60
29	D1	3108	G	C8-N9-C4	-7.08	103.57	106.40
29	D1	2669	G	N3-C4-N9	7.08	130.25	126.00
29	B1	497	C	N3-C2-O2	-7.08	116.94	121.90
30	B2	112	G	C8-N9-C4	-7.08	103.57	106.40
29	D1	3386	G	N7-C8-N9	7.08	116.64	113.10
29	B1	644	G	C4-C5-C6	7.08	123.05	118.80
1	A1	1591	C	C6-N1-C1'	7.08	129.29	120.80
29	B1	890	C	N3-C4-C5	7.08	124.73	121.90
29	D1	941	G	N9-C4-C5	7.08	108.23	105.40
29	D1	978	G	N3-C4-N9	7.08	130.25	126.00
29	D1	402	A	C6-C5-N7	-7.07	127.35	132.30
29	D1	1499	C	N1-C2-O2	-7.07	114.66	118.90
29	D1	341	G	C4-C5-N7	7.07	113.63	110.80
29	D1	2925	C	C6-N1-C2	-7.07	117.47	120.30
29	D1	2681	U	N3-C4-O4	7.07	124.35	119.40
36	DE	174	PRO	N-CA-CB	7.07	111.78	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	750	G	C4-C5-N7	-7.07	107.97	110.80
29	D1	2845	A	C4-C5-C6	7.07	120.53	117.00
29	B1	3192	U	C6-N1-C1'	7.07	131.09	121.20
1	C1	981	U	C2-N1-C1'	7.07	126.18	117.70
29	D1	624	G	N9-C4-C5	-7.07	102.57	105.40
29	B1	659	G	C4-N9-C1'	7.06	135.68	126.50
29	B1	2267	C	N1-C2-O2	-7.06	114.66	118.90
29	B1	597	G	C5-C6-O6	-7.06	124.36	128.60
29	D1	3220	G	N3-C4-C5	-7.06	125.07	128.60
29	B1	3043	C	C6-N1-C2	7.06	123.12	120.30
29	D1	2892	A	C5-C6-N1	-7.06	114.17	117.70
29	B1	2881	C	N1-C2-O2	-7.06	114.67	118.90
1	C1	1462	G	C8-N9-C4	7.06	109.22	106.40
29	D1	352	A	N1-C6-N6	-7.06	114.37	118.60
29	B1	190	U	C2-N1-C1'	-7.05	109.24	117.70
29	B1	1168	U	C2-N1-C1'	-7.05	109.24	117.70
29	D1	3227	A	N3-C4-N9	-7.05	121.76	127.40
29	B1	994	G	N3-C4-N9	7.05	130.23	126.00
29	D1	1592	G	C5-C6-N1	-7.05	107.97	111.50
29	B1	2247	G	N1-C6-O6	7.05	124.13	119.90
29	D1	1187	C	N3-C2-O2	7.05	126.83	121.90
30	D2	111	U	C6-N1-C1'	-7.05	111.33	121.20
29	D1	1042	U	N3-C2-O2	7.04	127.13	122.20
29	D1	2342	U	C5-C6-N1	-7.04	119.18	122.70
29	B1	3273	A	C2-N3-C4	7.04	114.12	110.60
29	B1	3386	G	C5-C6-N1	-7.04	107.98	111.50
1	C1	374	U	C6-N1-C1'	-7.04	111.34	121.20
1	A1	1335	U	N1-C2-O2	7.04	127.73	122.80
29	B1	1894	U	C5-C6-N1	-7.04	119.18	122.70
29	D1	2370	G	N1-C6-O6	-7.04	115.68	119.90
29	D1	3266	G	C5-N7-C8	7.04	107.82	104.30
29	B1	1097	G	C8-N9-C4	-7.03	103.59	106.40
29	D1	507	U	C6-N1-C2	-7.03	116.78	121.00
29	D1	562	C	N1-C2-O2	-7.03	114.68	118.90
29	D1	886	C	C2-N3-C4	-7.03	116.38	119.90
29	D1	999	G	N3-C4-C5	-7.03	125.08	128.60
45	DP	58	LEU	N-CA-C	-7.03	92.01	111.00
29	B1	1753	G	C8-N9-C4	7.03	109.21	106.40
29	B1	2342	U	C5-C6-N1	-7.03	119.18	122.70
29	D1	2391	G	N9-C4-C5	-7.03	102.59	105.40
29	B1	103	G	C5-C6-O6	-7.03	124.38	128.60
29	B1	335	G	C5-C6-O6	-7.03	124.38	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1052	U	N1-C2-O2	-7.03	117.88	122.80
29	D1	1298	C	N1-C2-O2	-7.03	114.68	118.90
29	D1	1364	C	N3-C2-O2	7.03	126.82	121.90
29	D1	1368	U	C2-N1-C1'	7.03	126.14	117.70
29	B1	750	G	C5-C6-O6	7.03	132.82	128.60
29	B1	1321	G	C8-N9-C4	7.03	109.21	106.40
29	B1	89	A	C6-C5-N7	-7.02	127.39	132.30
29	B1	2669	G	C6-C5-N7	-7.02	126.19	130.40
29	B1	1052	U	N3-C2-O2	7.02	127.11	122.20
29	B1	1115	G	C4-C5-N7	7.02	113.61	110.80
29	B1	1184	A	N1-C6-N6	-7.02	114.39	118.60
29	D1	1371	G	C4-C5-N7	7.02	113.61	110.80
29	B1	3322	A	C5-C6-N1	-7.02	114.19	117.70
1	C1	248	U	C5-C4-O4	-7.01	121.69	125.90
29	D1	3297	U	C6-N1-C1'	-7.01	111.38	121.20
29	B1	3184	A	C6-C5-N7	-7.01	127.39	132.30
29	B1	729	C	C5-C4-N4	-7.01	115.29	120.20
29	D1	422	A	C4-N9-C1'	-7.01	113.68	126.30
29	D1	3143	C	N3-C4-N4	7.01	122.91	118.00
1	A1	338	C	C2-N1-C1'	7.01	126.51	118.80
29	B1	3143	C	N1-C2-O2	-7.01	114.69	118.90
1	C1	1149	G	N3-C4-C5	-7.01	125.09	128.60
29	B1	723	U	C6-N1-C1'	-7.01	111.39	121.20
29	B1	2924	U	N3-C2-O2	7.01	127.11	122.20
29	B1	3004	C	C6-N1-C2	-7.01	117.50	120.30
29	D1	594	U	C2-N1-C1'	7.01	126.11	117.70
29	D1	1861	G	N3-C4-C5	7.01	132.10	128.60
29	D1	655	C	C6-N1-C2	7.00	123.10	120.30
29	B1	3063	C	N3-C4-C5	7.00	124.70	121.90
29	D1	1329	U	N3-C2-O2	7.00	127.10	122.20
29	D1	2248	C	N3-C2-O2	7.00	126.80	121.90
29	B1	1501	U	C2-N1-C1'	-7.00	109.30	117.70
1	C1	597	G	C5-C6-O6	-7.00	124.40	128.60
29	D1	656	A	C6-N1-C2	-7.00	114.40	118.60
29	B1	668	G	N7-C8-N9	-7.00	109.60	113.10
29	D1	875	G	C6-C5-N7	-7.00	126.20	130.40
29	B1	1060	U	C6-N1-C1'	-7.00	111.41	121.20
29	B1	328	U	N1-C2-N3	7.00	119.10	114.90
30	B2	13	A	C5-C6-N6	7.00	129.30	123.70
29	D1	503	C	C6-N1-C2	-7.00	117.50	120.30
29	D1	2394	G	C5-C6-O6	6.99	132.80	128.60
29	B1	1097	G	C6-C5-N7	6.99	134.59	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2355	G	C8-N9-C1'	-6.99	117.91	127.00
29	D1	2362	C	C4-C5-C6	6.99	120.90	117.40
29	B1	1120	A	C6-N1-C2	-6.99	114.41	118.60
30	B2	10	C	C2-N1-C1'	6.99	126.49	118.80
37	BF	171	PRO	N-CA-CB	6.99	111.69	103.30
1	C1	1567	U	C5-C6-N1	6.99	126.19	122.70
29	B1	215	G	C4-C5-N7	6.98	113.59	110.80
29	B1	2385	G	C4-C5-N7	6.98	113.59	110.80
29	B1	2611	U	N1-C2-N3	6.98	119.09	114.90
29	D1	2127	U	N1-C2-O2	-6.98	117.91	122.80
29	B1	513	G	C8-N9-C1'	6.98	136.08	127.00
29	B1	514	G	C6-C5-N7	6.98	134.59	130.40
29	B1	2147	A	C8-N9-C4	6.98	108.59	105.80
29	B1	3307	A	C2-N3-C4	-6.98	107.11	110.60
29	B1	1292	C	N3-C2-O2	6.98	126.79	121.90
29	B1	793	C	N1-C2-O2	6.98	123.09	118.90
29	D1	1172	G	C8-N9-C4	6.98	109.19	106.40
29	D1	1592	G	N1-C6-O6	6.98	124.09	119.90
29	B1	45	A	N3-C4-C5	6.98	131.68	126.80
29	B1	2916	U	N3-C4-O4	6.98	124.28	119.40
29	B1	3001	C	N3-C4-C5	6.98	124.69	121.90
29	B1	1547	G	N3-C4-N9	6.97	130.19	126.00
29	D1	3322	A	C5-C6-N6	6.97	129.28	123.70
29	D1	3380	U	C2-N1-C1'	-6.97	109.33	117.70
29	B1	1341	U	C6-N1-C2	6.97	125.18	121.00
29	D1	1165	A	C6-N1-C2	6.97	122.78	118.60
61	Df	5	PRO	N-CA-CB	6.97	111.67	103.30
29	B1	3035	A	N3-C4-N9	6.97	132.97	127.40
29	D1	3201	C	C5-C6-N1	6.97	124.48	121.00
29	D1	2957	G	C2-N3-C4	-6.97	108.42	111.90
1	A1	610	G	C5-N7-C8	-6.97	100.82	104.30
29	B1	222	A	N1-C6-N6	6.97	122.78	118.60
1	A1	1567	U	C5-C6-N1	6.96	126.18	122.70
1	C1	517	U	N3-C4-O4	-6.96	114.53	119.40
1	C1	1331	A	C8-N9-C4	-6.96	103.01	105.80
29	D1	3322	A	N3-C4-N9	-6.96	121.83	127.40
29	B1	281	G	N1-C6-O6	6.96	124.08	119.90
5	CD	129	PRO	N-CA-CB	6.96	111.65	103.30
29	D1	1004	U	C5-C6-N1	6.96	126.18	122.70
29	D1	1706	C	C6-N1-C2	-6.96	117.52	120.30
29	D1	2705	A	N1-C2-N3	-6.96	125.82	129.30
29	D1	3392	U	N3-C2-O2	-6.96	117.33	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1141	G	C8-N9-C1'	-6.96	117.95	127.00
1	A1	939	A	C8-N9-C4	-6.96	103.02	105.80
29	D1	507	U	C2-N1-C1'	6.96	126.05	117.70
29	D1	3291	G	N3-C2-N2	6.96	124.77	119.90
1	A1	1141	G	C6-C5-N7	-6.96	126.23	130.40
29	B1	1827	C	N1-C2-O2	-6.96	114.73	118.90
29	D1	1285	G	N3-C4-N9	6.96	130.17	126.00
29	D1	3386	G	C4-C5-C6	6.96	122.97	118.80
29	B1	1431	G	C5-N7-C8	6.96	107.78	104.30
29	D1	2297	U	C6-N1-C2	6.95	125.17	121.00
29	D1	2681	U	N1-C2-N3	-6.95	110.73	114.90
1	C1	478	A	C8-N9-C4	6.95	108.58	105.80
29	B1	1061	A	C8-N9-C4	6.95	108.58	105.80
29	B1	3272	C	C2-N1-C1'	6.95	126.45	118.80
1	C1	517	U	C5-C6-N1	-6.95	119.22	122.70
29	D1	2187	G	C5-C6-O6	6.95	132.77	128.60
30	D2	46	A	C2-N3-C4	6.95	114.08	110.60
1	A1	95	G	C8-N9-C4	6.95	109.18	106.40
29	B1	2353	G	C5-C6-O6	-6.95	124.43	128.60
29	B1	2969	A	C2-N3-C4	-6.95	107.13	110.60
29	B1	2990	G	N3-C2-N2	-6.95	115.04	119.90
29	B1	1166	G	N9-C4-C5	-6.95	102.62	105.40
29	B1	2913	C	C6-N1-C1'	6.95	129.14	120.80
1	C1	1028	C	N1-C2-O2	6.95	123.07	118.90
29	B1	2248	C	N1-C2-O2	-6.95	114.73	118.90
29	D1	648	C	N3-C2-O2	-6.95	117.04	121.90
29	B1	1178	G	N1-C2-N3	-6.94	119.73	123.90
29	B1	3099	C	N1-C2-N3	-6.94	114.34	119.20
29	D1	575	G	N1-C2-N2	6.94	122.45	116.20
1	C1	584	C	C6-N1-C2	6.94	123.08	120.30
29	D1	387	A	C6-N1-C2	6.94	122.77	118.60
29	D1	613	G	C5-C6-O6	-6.94	124.44	128.60
29	B1	1547	G	N3-C2-N2	6.94	124.76	119.90
1	C1	565	C	C2-N1-C1'	-6.94	111.17	118.80
29	B1	2990	G	C5-N7-C8	-6.94	100.83	104.30
29	D1	1431	G	N1-C6-O6	-6.94	115.74	119.90
29	D1	3392	U	N3-C4-C5	6.94	118.76	114.60
29	D1	827	A	C2-N3-C4	6.94	114.07	110.60
34	DC	267	ALA	N-CA-C	-6.94	92.27	111.00
29	B1	661	G	C6-N1-C2	6.93	129.26	125.10
29	D1	615	U	C5-C4-O4	-6.93	121.74	125.90
1	A1	577	G	C4-N9-C1'	6.93	135.51	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2355	G	C6-C5-N7	-6.93	126.24	130.40
29	D1	2297	U	N1-C2-O2	-6.93	117.95	122.80
29	D1	2990	G	C4-C5-N7	6.93	113.57	110.80
29	D1	3297	U	C5-C4-O4	-6.93	121.74	125.90
29	B1	2957	G	N3-C4-C5	6.93	132.06	128.60
31	B3	52	A	N1-C6-N6	-6.93	114.44	118.60
29	D1	504	A	C4-C5-N7	6.93	114.16	110.70
29	D1	639	G	C2-N3-C4	-6.93	108.44	111.90
2	CA	70	PRO	N-CA-CB	6.92	111.61	103.30
29	D1	2247	G	N9-C4-C5	-6.92	102.63	105.40
29	D1	2607	G	C6-C5-N7	-6.92	126.25	130.40
29	B1	1751	G	C8-N9-C4	-6.92	103.63	106.40
29	D1	3297	U	C2-N3-C4	-6.92	122.85	127.00
37	DF	75	PRO	N-CA-CB	6.92	111.61	103.30
29	B1	1123	U	N3-C2-O2	6.92	127.04	122.20
29	B1	2147	A	C2-N3-C4	-6.92	107.14	110.60
1	C1	1459	C	C4-C5-C6	6.92	120.86	117.40
29	B1	873	C	N1-C2-O2	-6.92	114.75	118.90
29	B1	1405	U	C2-N1-C1'	-6.92	109.40	117.70
29	D1	651	G	N1-C6-O6	6.92	124.05	119.90
29	B1	512	U	N3-C4-O4	6.92	124.24	119.40
29	B1	589	A	N9-C4-C5	6.91	108.56	105.80
61	Bf	5	PRO	N-CA-CB	6.91	111.60	103.30
1	C1	1773	C	N3-C2-O2	6.91	126.74	121.90
29	D1	1710	C	C6-N1-C1'	-6.91	112.50	120.80
29	D1	3307	A	N1-C2-N3	6.91	132.76	129.30
29	B1	2602	G	N1-C6-O6	6.91	124.05	119.90
29	B1	3095	U	C5-C4-O4	-6.91	121.75	125.90
29	D1	788	C	N3-C4-C5	-6.91	119.14	121.90
29	D1	1010	G	C4-C5-N7	6.91	113.56	110.80
29	D1	1172	G	C4-C5-N7	-6.91	108.04	110.80
1	A1	1792	G	C5-C6-O6	-6.91	124.46	128.60
29	B1	1307	G	C8-N9-C1'	-6.91	118.02	127.00
18	CQ	91	PRO	N-CA-CB	6.91	111.59	103.30
45	DP	76	PRO	N-CA-CB	6.91	111.59	103.30
72	DL	75	PRO	N-CA-CB	6.90	111.58	103.30
29	D1	1340	G	C8-N9-C4	6.90	109.16	106.40
29	D1	3392	U	C5-C4-O4	-6.90	121.76	125.90
29	B1	1187	C	N1-C2-O2	-6.90	114.76	118.90
29	D1	1317	A	C2-N3-C4	-6.90	107.15	110.60
29	B1	1190	A	C5-C6-N1	6.90	121.15	117.70
29	D1	509	U	N1-C2-O2	6.90	127.63	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1198	C	N1-C2-O2	6.90	123.04	118.90
29	B1	1499	C	N1-C2-O2	-6.90	114.76	118.90
30	D2	47	C	C6-N1-C1'	-6.90	112.52	120.80
1	A1	1773	C	N3-C2-O2	6.89	126.73	121.90
29	B1	1860	G	C8-N9-C4	6.89	109.16	106.40
1	C1	1792	G	C5-C6-O6	-6.89	124.46	128.60
29	D1	675	C	C4-C5-C6	-6.89	113.95	117.40
29	B1	52	A	N1-C2-N3	6.89	132.75	129.30
29	D1	417	A	C2-N3-C4	-6.89	107.15	110.60
29	B1	2527	G	N3-C4-N9	-6.89	121.87	126.00
50	BU	50	PRO	N-CA-CB	6.89	111.57	103.30
1	C1	79	C	C6-N1-C2	-6.89	117.54	120.30
29	D1	509	U	C6-N1-C2	-6.89	116.87	121.00
29	D1	2607	G	N1-C6-O6	6.89	124.03	119.90
29	B1	780	A	C5-C6-N1	-6.89	114.26	117.70
45	BP	5	PRO	N-CA-CB	6.89	111.56	103.30
29	D1	597	G	C4-C5-N7	6.89	113.56	110.80
12	AK	65	PRO	N-CA-CB	6.89	111.56	103.30
29	B1	150	A	C6-N1-C2	-6.89	114.47	118.60
29	B1	1434	G	C4-C5-N7	6.89	113.55	110.80
29	D1	588	G	N1-C2-N3	6.89	128.03	123.90
29	B1	511	G	N3-C4-C5	6.88	132.04	128.60
29	B1	3019	U	N1-C2-O2	-6.88	117.98	122.80
29	B1	3065	G	N1-C6-O6	-6.88	115.77	119.90
29	B1	3201	C	C5-C6-N1	6.88	124.44	121.00
29	D1	1501	U	C2-N3-C4	-6.88	122.87	127.00
29	B1	120	G	C4-N9-C1'	-6.88	117.56	126.50
29	B1	1858	A	C8-N9-C4	-6.88	103.05	105.80
29	B1	360	G	C5-C6-O6	6.88	132.73	128.60
29	B1	1457	U	C5-C6-N1	-6.88	119.26	122.70
31	B3	53	A	C5-C6-N1	6.88	121.14	117.70
43	BN	73	PRO	N-CA-CB	6.88	111.55	103.30
29	D1	587	U	C6-N1-C2	6.88	125.12	121.00
1	A1	1486	G	C5-C6-O6	-6.87	124.48	128.60
29	B1	630	A	C6-C5-N7	-6.87	127.49	132.30
29	B1	1151	U	C6-N1-C2	-6.87	116.88	121.00
29	B1	3296	A	C2-N3-C4	6.87	114.04	110.60
1	C1	1121	C	C2-N1-C1'	-6.87	111.24	118.80
29	B1	1612	A	N1-C6-N6	-6.87	114.48	118.60
37	BF	49	GLY	N-CA-C	-6.87	95.92	113.10
12	CK	65	PRO	N-CA-CB	6.87	111.55	103.30
29	D1	1050	U	C5-C6-N1	-6.87	119.26	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3170	A	C5-C6-N1	-6.87	114.27	117.70
30	D2	112	G	C6-C5-N7	6.87	134.52	130.40
29	B1	1363	A	N7-C8-N9	-6.87	110.37	113.80
29	B1	2354	C	N3-C2-O2	-6.87	117.09	121.90
34	BC	307	PRO	N-CA-CB	6.87	111.54	103.30
1	C1	1547	A	C4-C5-C6	-6.87	113.57	117.00
31	D3	92	A	C5-C6-N6	6.87	129.19	123.70
29	B1	918	C	N1-C2-O2	-6.87	114.78	118.90
29	D1	2664	C	C6-N1-C1'	-6.87	112.56	120.80
30	D2	119	U	C2-N1-C1'	6.87	125.94	117.70
1	A1	1331	A	N9-C4-C5	6.86	108.55	105.80
29	B1	338	A	N1-C6-N6	-6.86	114.48	118.60
1	C1	1567	U	C2-N1-C1'	6.86	125.94	117.70
29	D1	164	A	C5-C6-N6	-6.86	118.21	123.70
29	D1	1060	U	C2-N1-C1'	6.86	125.94	117.70
29	D1	429	U	N3-C4-O4	6.86	124.20	119.40
29	D1	3132	C	N3-C2-O2	6.86	126.70	121.90
1	A1	343	C	C2-N3-C4	-6.86	116.47	119.90
29	B1	867	G	N1-C6-O6	6.86	124.02	119.90
29	B1	1056	U	C6-N1-C1'	-6.86	111.59	121.20
29	B1	1880	U	C5-C6-N1	-6.86	119.27	122.70
1	C1	318	U	C6-N1-C2	6.86	125.12	121.00
29	D1	1902	G	N9-C4-C5	-6.86	102.66	105.40
1	A1	1606	C	N1-C2-O2	-6.86	114.78	118.90
29	B1	1897	G	N1-C6-O6	6.86	124.02	119.90
29	B1	272	G	C2-N3-C4	-6.86	108.47	111.90
30	D2	112	G	C2-N3-C4	6.86	115.33	111.90
29	D1	904	A	C2-N3-C4	-6.85	107.17	110.60
29	D1	2834	G	C5-C6-N1	6.85	114.93	111.50
1	A1	1560	U	N3-C4-O4	-6.85	114.60	119.40
29	B1	86	G	C4-N9-C1'	-6.85	117.59	126.50
29	B1	1427	U	C5-C4-O4	6.85	130.01	125.90
34	DC	9	PRO	N-CA-CB	6.85	111.52	103.30
1	A1	1028	C	C2-N1-C1'	6.85	126.33	118.80
29	B1	185	C	N3-C4-C5	6.85	124.64	121.90
29	B1	1318	A	C2-N3-C4	6.85	114.03	110.60
31	B3	34	U	N1-C2-O2	6.85	127.59	122.80
1	C1	1520	U	N1-C2-O2	-6.85	118.01	122.80
29	D1	1186	G	N1-C2-N2	-6.85	110.04	116.20
29	B1	1525	G	N3-C4-N9	6.85	130.11	126.00
29	D1	999	G	C2-N3-C4	6.85	115.32	111.90
31	B3	117	C	N1-C2-O2	-6.84	114.79	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	16	G	N9-C4-C5	-6.84	102.66	105.40
29	D1	667	C	C6-N1-C2	6.84	123.04	120.30
29	D1	994	G	N3-C4-C5	-6.84	125.18	128.60
29	B1	3192	U	C2-N1-C1'	-6.84	109.49	117.70
31	B3	87	G	N3-C4-C5	-6.84	125.18	128.60
29	D1	3363	U	N3-C2-O2	-6.84	117.41	122.20
29	B1	335	G	C2-N3-C4	-6.84	108.48	111.90
29	D1	2689	A	N3-C4-C5	-6.84	122.01	126.80
29	B1	612	U	N1-C2-O2	-6.84	118.02	122.80
29	D1	1585	C	C6-N1-C2	6.84	123.03	120.30
29	B1	2681	U	N3-C4-O4	6.83	124.19	119.40
1	A1	1773	C	N1-C2-O2	-6.83	114.80	118.90
29	B1	1076	C	C6-N1-C1'	-6.83	112.61	120.80
29	D1	1126	G	N1-C2-N3	6.83	128.00	123.90
30	D2	112	G	C5-C6-O6	6.83	132.70	128.60
17	AP	64	PRO	N-CA-CB	6.83	111.49	103.30
1	C1	1141	G	C4-C5-N7	6.83	113.53	110.80
29	B1	2601	A	C6-N1-C2	6.83	122.69	118.60
1	C1	1140	G	N1-C6-O6	-6.83	115.81	119.90
29	D1	946	U	C5-C4-O4	-6.83	121.81	125.90
29	B1	410	U	N3-C4-O4	6.82	124.18	119.40
1	C1	3	U	C6-N1-C2	6.82	125.09	121.00
44	BO	76	PRO	N-CA-CB	6.82	111.48	103.30
29	D1	787	G	C6-C5-N7	-6.82	126.31	130.40
29	D1	1861	G	N3-C2-N2	-6.82	115.12	119.90
29	D1	3271	G	C2-N3-C4	6.82	115.31	111.90
29	B1	435	C	C5-C6-N1	-6.82	117.59	121.00
29	B1	498	A	C6-N1-C2	6.82	122.69	118.60
29	B1	1327	C	C2-N3-C4	-6.82	116.49	119.90
30	B2	58	C	C2-N1-C1'	6.82	126.30	118.80
15	CN	59	PRO	N-CA-CB	6.82	111.48	103.30
29	D1	352	A	C4-C5-N7	-6.82	107.29	110.70
29	D1	2712	U	C2-N1-C1'	6.82	125.88	117.70
31	B3	36	G	N3-C4-N9	6.82	130.09	126.00
29	B1	421	G	C8-N9-C4	-6.81	103.67	106.40
29	B1	511	G	C5-C6-N1	-6.81	108.09	111.50
29	D1	868	C	C5-C6-N1	-6.81	117.59	121.00
29	D1	1908	A	C2-N3-C4	6.81	114.01	110.60
29	D1	3035	A	C6-N1-C2	-6.81	114.51	118.60
29	B1	2277	C	N1-C2-O2	-6.81	114.81	118.90
29	B1	2283	G	N7-C8-N9	6.81	116.50	113.10
29	B1	1387	G	C8-N9-C4	-6.81	103.68	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2414	G	C5-C6-O6	6.81	132.68	128.60
29	D1	3138	U	C5-C6-N1	6.81	126.10	122.70
29	D1	3266	G	C4-C5-N7	-6.81	108.08	110.80
31	D3	68	G	C4-N9-C1'	-6.81	117.65	126.50
31	B3	47	C	C5-C6-N1	-6.81	117.60	121.00
29	B1	3059	G	C6-C5-N7	-6.80	126.32	130.40
29	D1	137	G	C6-C5-N7	-6.80	126.32	130.40
29	D1	505	G	C6-N1-C2	6.80	129.18	125.10
10	AI	68	PRO	N-CA-CB	6.80	111.46	103.30
29	B1	949	C	C2-N3-C4	-6.80	116.50	119.90
29	D1	605	U	C5-C4-O4	-6.80	121.82	125.90
17	AP	42	PRO	N-CA-CB	6.80	111.46	103.30
29	D1	1186	G	C5-N7-C8	-6.80	100.90	104.30
29	D1	3089	C	C6-N1-C2	-6.80	117.58	120.30
36	DE	139	PRO	N-CA-CB	6.80	111.46	103.30
29	D1	514	G	C4-C5-N7	-6.80	108.08	110.80
29	B1	1056	U	C5-C6-N1	6.80	126.10	122.70
36	BE	174	PRO	N-CA-CB	6.80	111.46	103.30
29	B1	589	A	C4-C5-C6	6.80	120.40	117.00
1	C1	1792	G	N9-C4-C5	-6.80	102.68	105.40
29	D1	1188	U	N3-C2-O2	-6.80	117.44	122.20
1	A1	1541	G	C8-N9-C1'	-6.79	118.17	127.00
29	B1	2187	G	C4-C5-N7	-6.79	108.08	110.80
29	B1	2312	A	C5-C6-N1	6.79	121.10	117.70
29	B1	793	C	C2-N1-C1'	6.79	126.27	118.80
29	B1	1661	G	C4-C5-N7	6.79	113.52	110.80
29	B1	3097	C	N1-C2-O2	-6.79	114.83	118.90
29	D1	500	C	C5-C4-N4	-6.79	115.45	120.20
29	D1	750	G	N9-C4-C5	6.79	108.12	105.40
29	D1	2832	C	C6-N1-C2	6.79	123.01	120.30
1	A1	4	C	N3-C4-C5	6.78	124.61	121.90
30	D2	85	G	N1-C6-O6	6.78	123.97	119.90
29	D1	2895	G	N9-C4-C5	6.78	108.11	105.40
1	A1	373	G	C5-C6-N1	-6.78	108.11	111.50
37	DF	171	PRO	N-CA-CB	6.78	111.44	103.30
29	D1	1255	C	C6-N1-C2	6.78	123.01	120.30
29	D1	3297	U	C6-N1-C2	-6.78	116.93	121.00
29	B1	877	C	N1-C2-O2	6.78	122.97	118.90
29	B1	2756	C	C2-N3-C4	-6.78	116.51	119.90
29	B1	3018	C	C2-N1-C1'	-6.78	111.34	118.80
29	D1	222	A	N9-C4-C5	-6.78	103.09	105.80
29	B1	42	C	N3-C4-C5	6.78	124.61	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3291	G	N3-C4-C5	-6.78	125.21	128.60
29	D1	3323	A	C6-N1-C2	6.78	122.67	118.60
1	A1	343	C	C5-C6-N1	-6.77	117.61	121.00
47	BR	157	PRO	N-CA-CB	6.77	111.43	103.30
29	D1	832	G	C5-C6-O6	-6.77	124.54	128.60
29	D1	1483	G	C5-C6-O6	6.77	132.66	128.60
1	A1	1463	C	C6-N1-C2	6.77	123.01	120.30
1	C1	1788	G	N3-C4-N9	-6.77	121.94	126.00
29	D1	637	C	C6-N1-C2	6.77	123.01	120.30
29	D1	3223	A	N1-C2-N3	-6.77	125.92	129.30
29	B1	1891	A	C6-C5-N7	-6.77	127.56	132.30
29	B1	2380	U	N1-C2-N3	6.77	118.96	114.90
1	A1	958	U	C2-N3-C4	-6.77	122.94	127.00
29	B1	557	A	C2-N3-C4	-6.76	107.22	110.60
29	B1	676	G	N3-C4-N9	6.76	130.06	126.00
29	D1	859	G	C8-N9-C1'	-6.76	118.21	127.00
29	B1	2811	A	N1-C6-N6	-6.76	114.54	118.60
1	C1	1595	U	N3-C4-C5	-6.76	110.54	114.60
1	A1	686	C	N3-C4-C5	6.76	124.60	121.90
1	A1	1198	G	N9-C4-C5	6.76	108.10	105.40
29	B1	3025	C	C2-N1-C1'	-6.76	111.36	118.80
30	B2	77	G	N3-C4-N9	6.76	130.06	126.00
29	B1	875	G	C8-N9-C1'	-6.76	118.21	127.00
29	D1	3328	G	C2-N3-C4	-6.76	108.52	111.90
29	D1	3323	A	C5-C6-N1	-6.76	114.32	117.70
1	A1	1159	C	C6-N1-C1'	-6.75	112.69	120.80
29	B1	220	G	C8-N9-C1'	-6.75	118.22	127.00
29	D1	810	A	C8-N9-C4	-6.75	103.10	105.80
29	D1	1147	G	C5-C6-N1	-6.75	108.12	111.50
1	A1	346	G	N9-C4-C5	-6.75	102.70	105.40
1	A1	993	A	N9-C4-C5	6.75	108.50	105.80
29	D1	3177	G	C8-N9-C1'	6.75	135.78	127.00
29	B1	606	C	C6-N1-C2	-6.75	117.60	120.30
29	B1	932	U	N3-C2-O2	6.75	126.92	122.20
1	C1	423	G	N1-C6-O6	-6.75	115.85	119.90
1	C1	1323	C	C6-N1-C2	6.75	123.00	120.30
29	D1	2278	C	C2-N1-C1'	6.75	126.22	118.80
1	A1	95	G	N3-C4-C5	6.75	131.97	128.60
29	B1	564	G	C5-C6-O6	-6.75	124.55	128.60
30	D2	49	G	N3-C4-C5	-6.75	125.23	128.60
29	B1	726	G	C8-N9-C1'	-6.74	118.23	127.00
29	D1	341	G	C5-C6-O6	-6.74	124.55	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1185	C	C6-N1-C2	6.74	123.00	120.30
29	D1	2135	U	C5-C6-N1	-6.74	119.33	122.70
29	D1	1382	G	C8-N9-C4	6.74	109.10	106.40
29	B1	726	G	N3-C4-N9	6.74	130.04	126.00
29	B1	1003	A	N7-C8-N9	6.74	117.17	113.80
29	B1	3291	G	N3-C4-N9	6.74	130.04	126.00
29	D1	1165	A	C2-N3-C4	-6.74	107.23	110.60
29	D1	3259	U	N3-C2-O2	6.74	126.92	122.20
29	B1	751	A	C6-N1-C2	-6.74	114.56	118.60
29	B1	896	A	C8-N9-C4	-6.74	103.11	105.80
29	B1	2339	C	N3-C2-O2	-6.74	117.18	121.90
29	B1	2824	G	C6-N1-C2	6.74	129.14	125.10
29	D1	1487	G	C5-C6-N1	6.74	114.87	111.50
29	B1	2906	C	C5-C6-N1	-6.74	117.63	121.00
31	B3	68	G	C4-N9-C1'	-6.74	117.74	126.50
29	B1	1175	C	N3-C4-N4	-6.73	113.29	118.00
29	D1	2863	G	N1-C6-O6	-6.73	115.86	119.90
29	B1	364	G	C5-C6-O6	-6.73	124.56	128.60
30	B2	15	C	N1-C2-O2	6.73	122.94	118.90
29	D1	151	A	C6-N1-C2	-6.73	114.56	118.60
29	D1	3375	A	C8-N9-C4	6.73	108.49	105.80
8	AG	137	PRO	N-CA-CB	6.73	111.38	103.30
29	D1	1431	G	C4-C5-N7	-6.73	108.11	110.80
30	D2	47	C	C5-C4-N4	-6.73	115.49	120.20
29	D1	746	A	N3-C4-C5	-6.73	122.09	126.80
29	B1	1297	C	C5-C4-N4	-6.73	115.49	120.20
29	D1	659	G	N3-C4-N9	6.73	130.04	126.00
15	AN	59	PRO	N-CA-CB	6.73	111.37	103.30
29	B1	890	C	C2-N3-C4	-6.72	116.54	119.90
29	B1	3181	C	N1-C2-N3	-6.72	114.49	119.20
29	D1	278	U	N1-C2-O2	-6.72	118.09	122.80
29	B1	832	G	C4-C5-N7	6.72	113.49	110.80
29	B1	2636	A	C6-N1-C2	-6.72	114.57	118.60
29	D1	573	C	N1-C2-O2	-6.72	114.87	118.90
29	D1	1188	U	C5-C4-O4	6.72	129.93	125.90
29	B1	1158	A	C8-N9-C4	6.72	108.49	105.80
30	B2	46	A	N3-C4-C5	-6.72	122.10	126.80
36	BE	19	PRO	N-CA-CB	6.72	111.36	103.30
1	C1	647	G	N3-C4-N9	6.72	130.03	126.00
1	C1	1421	A	C8-N9-C4	-6.72	103.11	105.80
29	D1	1067	U	N3-C4-O4	6.72	124.10	119.40
1	C1	1606	C	C6-N1-C2	6.72	122.99	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	387	A	C5-C6-N1	-6.72	114.34	117.70
29	D1	1048	A	C5-C6-N1	6.72	121.06	117.70
29	B1	2583	C	N1-C2-O2	-6.72	114.87	118.90
29	B1	2601	A	C8-N9-C4	6.72	108.49	105.80
29	D1	2333	C	C5-C6-N1	-6.72	117.64	121.00
29	B1	679	U	C5-C6-N1	-6.71	119.34	122.70
29	B1	1341	U	C5-C6-N1	-6.71	119.34	122.70
29	B1	504	A	C5-C6-N1	-6.71	114.34	117.70
29	D1	1207	G	C5-C6-O6	-6.71	124.57	128.60
1	C1	577	G	C4-N9-C1'	6.71	135.22	126.50
29	D1	370	U	N3-C2-O2	6.71	126.90	122.20
29	D1	630	A	C6-C5-N7	-6.71	127.60	132.30
29	B1	2380	U	C5-C6-N1	-6.71	119.34	122.70
1	A1	305	C	N1-C2-O2	-6.71	114.88	118.90
29	D1	1004	U	N3-C4-O4	6.71	124.10	119.40
29	B1	1431	G	N1-C6-O6	-6.71	115.88	119.90
51	BV	46	PRO	N-CA-CB	6.71	111.35	103.30
29	D1	505	G	C2-N3-C4	-6.71	108.55	111.90
29	D1	1661	G	C6-C5-N7	-6.71	126.38	130.40
29	B1	2180	G	C5-C6-N1	6.71	114.85	111.50
29	B1	137	G	C6-C5-N7	-6.70	126.38	130.40
29	B1	435	C	C6-N1-C2	6.70	122.98	120.30
29	B1	1424	C	C5-C6-N1	-6.70	117.65	121.00
1	C1	1591	C	C2-N1-C1'	-6.70	111.43	118.80
29	D1	1450	G	C2-N3-C4	-6.70	108.55	111.90
29	D1	1367	G	N1-C6-O6	6.70	123.92	119.90
1	A1	301	A	C8-N9-C4	6.70	108.48	105.80
1	C1	1331	A	C6-N1-C2	-6.70	114.58	118.60
29	B1	288	C	C5-C6-N1	-6.70	117.65	121.00
29	D1	3045	G	C6-C5-N7	-6.70	126.38	130.40
29	D1	1056	U	C5-C6-N1	6.70	126.05	122.70
1	A1	1335	U	N3-C2-O2	-6.70	117.51	122.20
29	B1	2312	A	C2-N3-C4	6.70	113.95	110.60
45	DP	5	PRO	N-CA-CB	6.70	111.33	103.30
29	B1	1769	G	N1-C6-O6	6.69	123.92	119.90
29	B1	1151	U	C4-C5-C6	6.69	123.72	119.70
1	C1	1792	G	C4-C5-N7	6.69	113.48	110.80
29	D1	712	G	C6-C5-N7	-6.69	126.38	130.40
29	D1	3368	U	N3-C2-O2	6.69	126.89	122.20
35	DD	240	PRO	N-CA-CB	6.69	111.33	103.30
1	A1	364	G	N1-C6-O6	-6.69	115.89	119.90
1	C1	306	U	C5-C6-N1	-6.69	119.36	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	816	A	C5-C6-N1	6.69	121.05	117.70
29	B1	1320	C	C6-N1-C1'	-6.69	112.78	120.80
31	B3	50	C	N1-C2-O2	-6.69	114.89	118.90
29	D1	1403	C	C6-N1-C2	6.69	122.97	120.30
29	D1	2916	U	N1-C2-N3	-6.68	110.89	114.90
29	D1	706	A	C5-C6-N1	-6.68	114.36	117.70
29	D1	1100	U	C5-C6-N1	-6.68	119.36	122.70
51	DV	46	PRO	N-CA-CB	6.68	111.32	103.30
29	B1	3044	G	C8-N9-C4	6.68	109.07	106.40
1	A1	628	G	C8-N9-C4	6.68	109.07	106.40
29	B1	92	G	C6-C5-N7	-6.68	126.39	130.40
29	B1	390	G	N9-C4-C5	6.68	108.07	105.40
29	B1	1427	U	N3-C4-O4	-6.68	114.72	119.40
29	B1	1368	U	C6-N1-C1'	-6.68	111.85	121.20
29	B1	3386	G	C4-N9-C1'	6.68	135.18	126.50
29	D1	1123	U	N3-C2-O2	6.68	126.87	122.20
29	B1	3139	A	N3-C4-N9	-6.67	122.06	127.40
29	B1	3265	C	C2-N1-C1'	6.67	126.14	118.80
1	C1	1139	A	N1-C6-N6	6.67	122.61	118.60
1	C1	1484	G	C8-N9-C4	-6.67	103.73	106.40
29	D1	190	U	C2-N1-C1'	-6.67	109.69	117.70
31	D3	68	G	C8-N9-C1'	6.67	135.68	127.00
29	B1	978	G	C4-C5-C6	6.67	122.80	118.80
29	B1	3272	C	C2-N3-C4	6.67	123.24	119.90
29	B1	3108	G	C4-N9-C1'	-6.67	117.83	126.50
29	B1	3192	U	N1-C2-N3	6.67	118.90	114.90
30	D2	15	C	C5-C4-N4	-6.67	115.53	120.20
1	A1	1073	G	C6-C5-N7	-6.67	126.40	130.40
1	C1	1374	C	N1-C2-O2	-6.67	114.90	118.90
38	DG	162	PRO	N-CA-CB	6.67	111.30	103.30
29	B1	284	A	C5-C6-N1	6.67	121.03	117.70
29	B1	2339	C	N1-C2-O2	6.67	122.90	118.90
29	D1	1151	U	N1-C2-N3	6.67	118.90	114.90
30	D2	9	C	N1-C2-N3	6.67	123.87	119.20
29	B1	52	A	C4-N9-C1'	6.67	138.30	126.30
29	D1	52	A	N3-C4-C5	-6.67	122.13	126.80
29	D1	1846	C	N3-C2-O2	-6.67	117.23	121.90
29	D1	2682	C	C5-C6-N1	-6.67	117.67	121.00
29	B1	3000	A	N3-C4-C5	6.67	131.47	126.80
1	A1	79	C	C2-N1-C1'	6.66	126.13	118.80
36	BE	139	PRO	N-CA-CB	6.66	111.30	103.30
1	C1	337	G	C5-N7-C8	-6.66	100.97	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	531	G	N3-C2-N2	-6.66	115.24	119.90
29	D1	2365	C	N3-C4-C5	6.66	124.56	121.90
29	D1	2421	U	C2-N1-C1'	-6.66	109.70	117.70
30	D2	29	C	C2-N1-C1'	-6.66	111.47	118.80
1	A1	1331	A	C8-N9-C4	-6.66	103.14	105.80
29	B1	424	G	N3-C4-N9	6.66	130.00	126.00
29	B1	853	G	C6-C5-N7	6.66	134.40	130.40
29	B1	1609	C	N3-C2-O2	6.66	126.56	121.90
31	D3	34	U	N1-C2-O2	6.66	127.46	122.80
29	B1	659	G	C8-N9-C1'	-6.66	118.34	127.00
29	D1	613	G	N1-C6-O6	6.66	123.89	119.90
29	B1	2669	G	C4-C5-N7	6.66	113.46	110.80
1	C1	332	U	N3-C2-O2	-6.66	117.54	122.20
1	A1	45	U	N3-C2-O2	-6.66	117.54	122.20
29	B1	742	G	C8-N9-C4	6.66	109.06	106.40
29	B1	3223	A	C4-C5-C6	-6.66	113.67	117.00
36	DE	47	PRO	N-CA-CB	6.66	111.29	103.30
29	B1	380	U	C6-N1-C1'	6.65	130.52	121.20
29	D1	586	C	N3-C4-C5	-6.65	119.24	121.90
29	B1	1331	U	C5-C6-N1	-6.65	119.38	122.70
29	D1	2368	A	C2-N3-C4	-6.65	107.27	110.60
1	A1	825	U	N3-C2-O2	-6.65	117.55	122.20
29	D1	3298	C	N1-C2-O2	6.65	122.89	118.90
29	B1	2830	G	C5-C6-N1	-6.65	108.18	111.50
1	A1	1645	G	N1-C6-O6	6.65	123.89	119.90
29	B1	2609	A	N1-C6-N6	-6.64	114.61	118.60
44	BO	154	PRO	N-CA-CB	6.64	111.27	103.30
29	D1	352	A	C5-N7-C8	6.64	107.22	103.90
29	D1	1063	G	N3-C4-N9	-6.64	122.01	126.00
29	D1	3297	U	N1-C2-O2	6.64	127.45	122.80
29	B1	716	A	N7-C8-N9	6.64	117.12	113.80
29	B1	1381	A	C8-N9-C4	6.64	108.46	105.80
29	B1	2304	C	C6-N1-C2	-6.64	117.64	120.30
29	B1	2355	G	N3-C4-N9	6.64	129.99	126.00
29	B1	3303	G	C8-N9-C4	-6.64	103.74	106.40
30	B2	113	C	C5-C6-N1	-6.64	117.68	121.00
31	B3	68	G	C8-N9-C1'	6.64	135.63	127.00
29	B1	3269	U	C2-N1-C1'	6.64	125.67	117.70
33	BB	103	PRO	N-CA-CB	6.64	111.27	103.30
29	D1	32	U	N3-C4-O4	-6.64	114.75	119.40
29	D1	2643	A	C5-C6-N1	-6.64	114.38	117.70
29	D1	3143	C	C4-C5-C6	-6.64	114.08	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3205	G	C2-N3-C4	6.64	115.22	111.90
29	D1	3261	C	C2-N3-C4	-6.64	116.58	119.90
29	D1	421	G	C5-C6-N1	-6.64	108.18	111.50
29	D1	963	G	N7-C8-N9	6.64	116.42	113.10
29	D1	2939	G	C5-C6-O6	6.64	132.58	128.60
1	A1	1437	U	N1-C2-O2	-6.64	118.15	122.80
29	B1	220	G	C2-N3-C4	-6.64	108.58	111.90
29	B1	2320	A	C8-N9-C4	6.64	108.45	105.80
29	D1	2377	G	C4-N9-C1'	-6.64	117.87	126.50
11	AJ	51	PRO	N-CA-CB	6.63	111.26	103.30
29	B1	814	U	N1-C2-O2	-6.63	118.16	122.80
1	C1	939	A	N7-C8-N9	6.63	117.12	113.80
29	D1	2661	G	N3-C4-C5	-6.63	125.28	128.60
29	D1	2913	C	C5-C6-N1	-6.63	117.68	121.00
1	A1	577	G	C6-C5-N7	-6.63	126.42	130.40
29	D1	2982	A	N1-C6-N6	-6.63	114.62	118.60
1	A1	565	C	C2-N1-C1'	-6.63	111.51	118.80
1	C1	79	C	N1-C2-O2	6.63	122.88	118.90
1	A1	45	U	C2-N3-C4	-6.63	123.02	127.00
29	B1	1339	C	N1-C2-N3	6.63	123.84	119.20
29	B1	1342	C	C6-N1-C2	6.63	122.95	120.30
29	B1	2435	G	C5-C6-O6	-6.63	124.62	128.60
29	B1	3205	G	C4-N9-C1'	6.63	135.12	126.50
29	D1	422	A	C8-N9-C4	6.63	108.45	105.80
29	D1	1888	U	C5-C6-N1	-6.63	119.39	122.70
29	D1	3244	A	C4-N9-C1'	-6.63	114.37	126.30
29	D1	3268	A	N7-C8-N9	-6.63	110.49	113.80
29	B1	9	U	N3-C2-O2	-6.63	117.56	122.20
33	BB	66	PRO	N-CA-CB	6.63	111.25	103.30
29	D1	1089	G	C6-N1-C2	-6.63	121.12	125.10
41	DJ	18	PRO	N-CA-CB	6.63	111.25	103.30
29	B1	727	G	N9-C4-C5	-6.62	102.75	105.40
29	B1	1307	G	N9-C4-C5	-6.62	102.75	105.40
29	D1	435	C	C2-N3-C4	-6.62	116.59	119.90
29	D1	793	C	C2-N1-C1'	6.62	126.09	118.80
29	D1	2669	G	N9-C4-C5	-6.62	102.75	105.40
29	D1	1885	U	C2-N3-C4	-6.62	123.03	127.00
29	D1	2881	C	N1-C2-O2	-6.62	114.93	118.90
1	A1	517	U	N3-C4-O4	-6.62	114.77	119.40
29	D1	1480	G	C5-C6-N1	6.62	114.81	111.50
1	C1	16	G	C8-N9-C1'	-6.62	118.40	127.00
1	C1	1046	G	N3-C4-C5	-6.62	125.29	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	94	G	C2-N3-C4	-6.61	108.59	111.90
29	B1	613	G	N1-C2-N2	-6.61	110.25	116.20
29	B1	2992	U	C5-C4-O4	-6.61	121.93	125.90
30	B2	46	A	C2-N3-C4	6.61	113.91	110.60
1	A1	647	G	N3-C4-C5	-6.61	125.30	128.60
29	B1	859	G	C8-N9-C1'	-6.61	118.41	127.00
29	D1	2706	G	C5-C6-N1	6.61	114.81	111.50
29	D1	89	A	C2-N3-C4	-6.61	107.30	110.60
1	A1	1418	G	C8-N9-C4	-6.61	103.76	106.40
29	B1	2990	G	C6-C5-N7	-6.61	126.44	130.40
29	B1	3226	A	C5-C6-N1	-6.61	114.40	117.70
1	C1	1418	G	N1-C6-O6	6.61	123.86	119.90
29	D1	1315	U	C4-C5-C6	-6.61	115.74	119.70
29	B1	2379	U	N1-C2-O2	-6.61	118.18	122.80
29	D1	1300	G	N9-C4-C5	6.61	108.04	105.40
29	B1	92	G	C4-C5-N7	6.60	113.44	110.80
29	B1	150	A	N1-C6-N6	-6.60	114.64	118.60
29	D1	963	G	C5-N7-C8	-6.60	101.00	104.30
29	B1	549	U	N1-C2-O2	6.60	127.42	122.80
29	D1	1861	G	N3-C4-N9	-6.60	122.04	126.00
30	D2	29	C	N3-C4-C5	6.60	124.54	121.90
30	D2	103	A	C5-N7-C8	-6.60	100.60	103.90
29	B1	54	C	C6-N1-C2	6.60	122.94	120.30
1	C1	1149	G	N3-C4-N9	6.60	129.96	126.00
29	D1	341	G	C6-C5-N7	-6.60	126.44	130.40
29	B1	21	G	C5-N7-C8	-6.60	101.00	104.30
29	B1	52	A	N3-C4-N9	6.60	132.68	127.40
29	D1	634	C	C5-C6-N1	-6.60	117.70	121.00
29	D1	1056	U	C6-N1-C1'	-6.60	111.96	121.20
29	D1	3242	G	N1-C2-N3	-6.60	119.94	123.90
30	D2	96	U	C2-N3-C4	-6.60	123.04	127.00
1	A1	1073	G	C8-N9-C1'	-6.60	118.42	127.00
29	B1	789	A	N1-C6-N6	-6.60	114.64	118.60
29	B1	2330	C	C2-N3-C4	-6.60	116.60	119.90
1	A1	1149	G	N3-C4-N9	6.60	129.96	126.00
31	B3	92	A	N1-C2-N3	-6.60	126.00	129.30
29	D1	1528	G	C8-N9-C4	6.60	109.04	106.40
29	B1	1418	A	C2-N3-C4	6.59	113.90	110.60
29	B1	3324	C	N3-C2-O2	-6.59	117.28	121.90
29	B1	1305	U	C5-C6-N1	-6.59	119.40	122.70
29	B1	3291	G	C4-N9-C1'	6.59	135.07	126.50
1	C1	1220	C	C6-N1-C1'	-6.59	112.89	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1121	C	C2-N1-C1'	-6.59	111.55	118.80
29	B1	103	G	N3-C4-C5	6.59	131.89	128.60
29	B1	2601	A	C4-C5-C6	-6.59	113.71	117.00
1	C1	305	C	C6-N1-C2	6.59	122.94	120.30
29	D1	513	G	C4-C5-C6	-6.59	114.85	118.80
29	D1	1892	G	C2-N3-C4	-6.59	108.61	111.90
29	B1	584	G	C5-C6-O6	-6.58	124.65	128.60
29	B1	2378	C	N3-C4-C5	6.58	124.53	121.90
29	D1	676	G	N1-C2-N2	-6.58	110.27	116.20
29	B1	1166	G	C8-N9-C4	6.58	109.03	106.40
29	B1	120	G	N3-C4-N9	-6.58	122.05	126.00
29	B1	703	G	C4-N9-C1'	-6.58	117.94	126.50
29	D1	1183	C	C6-N1-C2	6.58	122.93	120.30
10	A1	73	PRO	N-CA-CB	6.58	111.20	103.30
29	B1	655	C	C6-N1-C2	6.58	122.93	120.30
29	D1	3184	A	C4-C5-C6	6.58	120.29	117.00
29	B1	779	G	C6-C5-N7	-6.58	126.45	130.40
29	B1	2746	A	N1-C6-N6	-6.58	114.65	118.60
29	B1	227	G	N9-C4-C5	-6.58	102.77	105.40
29	B1	1168	U	C6-N1-C2	6.58	124.94	121.00
30	D2	58	C	C6-N1-C1'	-6.58	112.91	120.80
29	B1	1147	G	C4-C5-N7	6.57	113.43	110.80
29	D1	1367	G	C6-N1-C2	6.57	129.04	125.10
29	B1	622	A	C8-N9-C4	-6.57	103.17	105.80
29	B1	3138	U	C5-C4-O4	-6.57	121.96	125.90
29	D1	1169	A	C5-C6-N1	6.57	120.99	117.70
29	B1	1450	G	C4-C5-N7	6.57	113.43	110.80
29	B1	1608	C	C2-N1-C1'	6.57	126.03	118.80
29	B1	2689	A	C4-N9-C1'	6.57	138.13	126.30
29	B1	335	G	C5-C6-N1	-6.57	108.22	111.50
29	B1	1342	C	N3-C4-C5	6.57	124.53	121.90
29	B1	1870	C	C6-N1-C2	6.57	122.93	120.30
1	C1	552	G	C6-N1-C2	-6.57	121.16	125.10
30	D2	35	C	C6-N1-C1'	-6.57	112.92	120.80
29	B1	625	G	C2-N3-C4	-6.57	108.62	111.90
29	B1	3266	G	C5-N7-C8	6.57	107.58	104.30
29	B1	3322	A	N3-C4-N9	-6.57	122.15	127.40
1	C1	1149	G	C2-N3-C4	6.57	115.18	111.90
29	B1	1160	C	C6-N1-C2	6.56	122.93	120.30
1	A1	1778	G	N1-C6-O6	6.56	123.84	119.90
29	D1	2302	G	C8-N9-C4	6.56	109.03	106.40
29	D1	2919	A	C4-C5-C6	6.56	120.28	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	410	U	N1-C2-O2	-6.56	118.21	122.80
31	B3	50	C	C2-N1-C1'	-6.56	111.58	118.80
1	C1	1028	C	N3-C2-O2	-6.56	117.31	121.90
29	D1	150	A	C5-C6-N1	6.56	120.98	117.70
29	B1	3233	C	C5-C4-N4	-6.56	115.61	120.20
29	B1	2667	A	N1-C2-N3	-6.56	126.02	129.30
29	B1	2278	C	N1-C2-N3	-6.55	114.61	119.20
29	B1	2329	C	N1-C2-O2	-6.55	114.97	118.90
29	D1	1085	A	C5-C6-N1	-6.55	114.42	117.70
29	B1	3130	A	N9-C4-C5	-6.55	103.18	105.80
47	DR	157	PRO	N-CA-CB	6.55	111.16	103.30
11	AJ	41	PRO	N-CA-CB	6.55	111.16	103.30
29	B1	752	C	C6-N1-C1'	-6.55	112.94	120.80
29	B1	984	G	N3-C4-N9	-6.55	122.07	126.00
30	B2	111	U	C6-N1-C1'	-6.55	112.03	121.20
54	BY	29	PRO	N-CA-CB	6.55	111.16	103.30
29	D1	1331	U	C2-N1-C1'	-6.55	109.84	117.70
1	A1	684	A	C5-C6-N1	6.55	120.97	117.70
57	Bb	68	PRO	N-CA-CB	6.55	111.16	103.30
29	D1	92	G	N1-C6-O6	6.55	123.83	119.90
29	D1	3035	A	C4-C5-C6	6.55	120.28	117.00
29	D1	3261	C	N3-C4-N4	-6.55	113.42	118.00
29	B1	529	A	C6-N1-C2	6.55	122.53	118.60
29	B1	29	C	N1-C2-O2	-6.55	114.97	118.90
29	B1	3152	U	C5-C4-O4	-6.55	121.97	125.90
11	CJ	51	PRO	N-CA-CB	6.55	111.16	103.30
29	D1	3002	C	C6-N1-C2	6.55	122.92	120.30
29	D1	3137	C	N3-C4-N4	-6.55	113.42	118.00
4	AC	163	PRO	N-CA-CB	6.54	111.15	103.30
29	B1	402	A	C4-C5-C6	6.54	120.27	117.00
29	B1	933	A	C5-C6-N6	-6.54	118.47	123.70
29	B1	1055	A	N1-C6-N6	6.54	122.53	118.60
1	C1	1561	U	C5-C6-N1	-6.54	119.43	122.70
29	D1	2618	G	N9-C4-C5	6.54	108.02	105.40
29	B1	3266	G	N3-C4-N9	6.54	129.93	126.00
29	D1	1364	C	N1-C2-O2	-6.54	114.97	118.90
29	B1	2946	A	C8-N9-C4	-6.54	103.18	105.80
1	C1	1134	C	C5-C6-N1	-6.54	117.73	121.00
1	A1	647	G	C5-C6-N1	6.54	114.77	111.50
1	A1	1453	G	C4-N9-C1'	-6.54	118.00	126.50
29	B1	1500	G	C5-C6-N1	6.54	114.77	111.50
18	AQ	91	PRO	N-CA-CB	6.53	111.14	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1457	U	C4-C5-C6	6.53	123.62	119.70
29	B1	1905	G	C8-N9-C4	-6.53	103.79	106.40
29	D1	2743	A	C8-N9-C4	6.53	108.41	105.80
29	D1	3097	C	N1-C2-O2	-6.53	114.98	118.90
29	B1	76	G	N9-C4-C5	6.53	108.01	105.40
29	B1	370	U	C6-N1-C1'	6.53	130.34	121.20
29	B1	2919	A	C4-C5-C6	6.53	120.27	117.00
1	A1	1206	U	C5-C6-N1	6.53	125.97	122.70
29	B1	1342	C	N3-C2-O2	6.53	126.47	121.90
29	B1	1472	U	C5-C6-N1	-6.53	119.44	122.70
29	D1	1192	C	N3-C2-O2	-6.53	117.33	121.90
29	D1	1292	C	N3-C4-C5	6.53	124.51	121.90
29	D1	3012	A	C5-C6-N1	6.53	120.97	117.70
29	B1	2892	A	C4-C5-N7	6.53	113.97	110.70
29	D1	1507	G	N1-C2-N2	6.53	122.08	116.20
29	B1	515	C	N3-C4-C5	-6.53	119.29	121.90
1	C1	12	U	C5-C6-N1	-6.53	119.44	122.70
29	D1	214	G	C8-N9-C4	6.53	109.01	106.40
29	D1	3192	U	C2-N1-C1'	-6.53	109.87	117.70
30	D2	47	C	C6-N1-C2	-6.53	117.69	120.30
29	B1	969	C	C5-C6-N1	-6.53	117.74	121.00
29	B1	1877	U	C6-N1-C1'	-6.53	112.06	121.20
29	B1	3012	A	C8-N9-C4	-6.53	103.19	105.80
47	BR	97	PRO	N-CA-CB	6.53	111.13	103.30
1	C1	406	U	C6-N1-C2	6.53	124.92	121.00
2	AA	70	PRO	N-CA-CB	6.52	111.13	103.30
29	B1	2325	G	N7-C8-N9	6.52	116.36	113.10
29	D1	1751	G	C8-N9-C4	-6.52	103.79	106.40
29	D1	1915	A	C8-N9-C4	6.52	108.41	105.80
29	B1	3126	C	N3-C4-C5	6.52	124.51	121.90
29	D1	1156	C	N3-C4-N4	6.52	122.57	118.00
1	A1	353	A	N1-C6-N6	-6.52	114.69	118.60
29	D1	1010	G	N1-C6-O6	6.52	123.81	119.90
29	B1	588	G	C5-N7-C8	6.52	107.56	104.30
38	BG	99	PRO	N-CA-CB	6.52	111.12	103.30
4	CC	81	PRO	N-CA-CB	6.52	111.12	103.30
29	B1	1921	A	N1-C6-N6	6.51	122.51	118.60
1	A1	1294	G	C8-N9-C4	-6.51	103.80	106.40
1	C1	890	C	C2-N1-C1'	-6.51	111.64	118.80
1	C1	1437	U	C5-C6-N1	-6.51	119.44	122.70
29	B1	790	U	C2-N3-C4	-6.51	123.09	127.00
29	B1	2605	G	N3-C4-C5	6.51	131.85	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3307	A	N1-C2-N3	6.51	132.56	129.30
29	B1	3314	A	N3-C4-C5	-6.51	122.24	126.80
29	D1	868	C	C2-N3-C4	-6.51	116.64	119.90
29	D1	2752	U	N1-C2-O2	6.51	127.36	122.80
29	D1	3126	C	N1-C2-O2	-6.51	114.99	118.90
29	D1	3391	A	N1-C6-N6	6.51	122.51	118.60
29	B1	3184	A	C2-N3-C4	-6.51	107.34	110.60
29	D1	2355	G	C8-N9-C1'	-6.51	118.54	127.00
29	D1	3129	A	N1-C6-N6	-6.51	114.69	118.60
3	AB	37	PRO	N-CA-CB	6.51	111.11	103.30
29	B1	2513	U	N3-C4-O4	6.51	123.95	119.40
29	B1	3227	A	N3-C4-N9	-6.51	122.19	127.40
29	D1	380	U	C5-C4-O4	6.51	129.80	125.90
29	B1	1710	C	C6-N1-C1'	-6.50	112.99	120.80
29	D1	3139	A	N3-C4-N9	-6.50	122.20	127.40
29	B1	755	A	C5-C6-N1	6.50	120.95	117.70
29	D1	859	G	N3-C4-N9	6.50	129.90	126.00
29	D1	3386	G	N1-C6-O6	6.50	123.80	119.90
29	B1	1115	G	N1-C6-O6	6.50	123.80	119.90
38	BG	217	PRO	N-CA-CB	6.50	111.10	103.30
29	D1	2756	C	C2-N3-C4	-6.50	116.65	119.90
29	D1	2886	U	C2-N3-C4	-6.50	123.10	127.00
29	D1	3129	A	C8-N9-C4	-6.50	103.20	105.80
1	A1	62	A	C6-C5-N7	6.50	136.85	132.30
29	D1	89	A	C4-C5-N7	6.50	113.95	110.70
29	D1	2369	G	N3-C2-N2	-6.50	115.35	119.90
29	D1	2828	G	N1-C6-O6	6.50	123.80	119.90
31	D3	51	G	C4-N9-C1'	6.50	134.95	126.50
29	D1	1190	A	C5-C6-N6	-6.50	118.50	123.70
56	Da	30	PRO	N-CA-CB	6.50	111.09	103.30
29	B1	338	A	N3-C4-C5	-6.49	122.25	126.80
29	B1	257	U	C2-N1-C1'	6.49	125.49	117.70
29	B1	3393	U	C6-N1-C2	6.49	124.89	121.00
29	D1	2668	U	C2-N1-C1'	6.49	125.49	117.70
1	A1	1141	G	N3-C4-N9	6.49	129.90	126.00
29	B1	96	G	C2-N3-C4	-6.49	108.65	111.90
29	D1	594	U	C5-C4-O4	-6.49	122.00	125.90
29	D1	2330	C	N3-C2-O2	6.49	126.44	121.90
1	A1	373	G	N1-C6-O6	6.49	123.79	119.90
1	A1	1046	G	C6-C5-N7	-6.49	126.51	130.40
29	B1	2708	C	C6-N1-C2	6.49	122.89	120.30
29	D1	1363	A	C8-N9-C4	6.49	108.40	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	222	A	C5-C6-N6	-6.49	118.51	123.70
29	B1	1507	G	N1-C2-N2	6.49	122.04	116.20
29	D1	1307	G	C8-N9-C1'	-6.49	118.57	127.00
29	D1	1781	C	C2-N1-C1'	6.49	125.93	118.80
29	D1	2922	G	C6-C5-N7	-6.49	126.51	130.40
1	A1	1453	G	N3-C4-C5	6.48	131.84	128.60
29	D1	378	A	C2-N3-C4	6.48	113.84	110.60
31	B3	93	U	C5-C6-N1	-6.48	119.46	122.70
29	D1	2248	C	N1-C2-O2	-6.48	115.01	118.90
1	A1	1541	G	N3-C4-N9	6.48	129.89	126.00
29	B1	117	U	C5-C4-O4	-6.48	122.01	125.90
29	B1	592	A	C8-N9-C4	-6.48	103.21	105.80
29	B1	2289	U	N3-C4-C5	6.48	118.49	114.60
31	B3	100	U	C5-C4-O4	-6.48	122.01	125.90
3	CB	239	PRO	N-CA-CB	6.48	111.08	103.30
29	B1	3168	A	C5-C6-N6	-6.48	118.52	123.70
1	C1	621	A	N1-C6-N6	-6.48	114.71	118.60
29	D1	2283	G	N3-C4-N9	-6.48	122.11	126.00
1	A1	647	G	N3-C4-N9	6.48	129.89	126.00
1	A1	1591	C	C2-N3-C4	-6.48	116.66	119.90
29	D1	509	U	N3-C4-O4	-6.47	114.87	119.40
29	D1	2643	A	C2-N3-C4	-6.47	107.36	110.60
1	A1	1109	G	C6-C5-N7	-6.47	126.52	130.40
29	B1	1113	G	C8-N9-C1'	-6.47	118.59	127.00
29	D1	272	G	C2-N3-C4	-6.47	108.66	111.90
29	D1	1050	U	C2-N3-C4	-6.47	123.12	127.00
29	B1	2277	C	C6-N1-C2	6.47	122.89	120.30
1	A1	1651	A	C5-C6-N6	-6.47	118.53	123.70
29	B1	1506	A	N1-C6-N6	6.47	122.48	118.60
29	D1	1297	C	N3-C4-N4	6.47	122.53	118.00
29	D1	2838	A	N7-C8-N9	-6.47	110.56	113.80
29	D1	2935	U	N1-C2-N3	6.47	118.78	114.90
1	A1	346	G	C4-C5-N7	6.47	113.39	110.80
29	B1	404	G	C8-N9-C1'	-6.47	118.59	127.00
29	D1	2283	G	N3-C2-N2	-6.47	115.37	119.90
29	B1	2644	C	N3-C2-O2	-6.47	117.37	121.90
29	B1	3065	G	C5-C6-N1	6.47	114.73	111.50
29	D1	137	G	C4-C5-N7	6.47	113.39	110.80
31	B3	87	G	C4-N9-C1'	6.46	134.90	126.50
29	D1	1296	C	N3-C4-C5	6.46	124.49	121.90
29	D1	2909	U	N1-C2-O2	-6.46	118.28	122.80
29	B1	2700	G	C8-N9-C1'	-6.46	118.60	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	497	C	N3-C2-O2	-6.46	117.38	121.90
29	D1	670	C	N1-C2-O2	-6.46	115.02	118.90
29	D1	948	C	C6-N1-C2	6.46	122.89	120.30
29	D1	1190	A	C8-N9-C4	-6.46	103.22	105.80
29	D1	3137	C	N3-C2-O2	-6.46	117.38	121.90
29	B1	3328	G	C2-N3-C4	-6.46	108.67	111.90
29	B1	3396	U	N1-C2-O2	6.46	127.32	122.80
29	D1	676	G	C6-C5-N7	-6.46	126.53	130.40
29	D1	1171	G	N9-C4-C5	6.46	107.98	105.40
30	D2	109	G	C8-N9-C4	6.46	108.98	106.40
1	A1	1348	A	N1-C6-N6	6.46	122.47	118.60
29	B1	374	A	C8-N9-C4	6.46	108.38	105.80
33	BB	178	PRO	N-CA-CB	6.46	111.05	103.30
29	D1	3390	G	C6-C5-N7	-6.46	126.53	130.40
36	BE	47	PRO	N-CA-CB	6.45	111.04	103.30
29	D1	2262	A	C4-C5-C6	6.45	120.23	117.00
1	A1	625	C	N1-C2-O2	6.45	122.77	118.90
29	B1	2347	U	C5-C6-N1	-6.45	119.47	122.70
29	B1	3205	G	C8-N9-C1'	-6.45	118.61	127.00
1	C1	337	G	C6-C5-N7	-6.45	126.53	130.40
29	D1	1388	U	C5-C6-N1	-6.45	119.47	122.70
29	D1	1469	C	C6-N1-C2	-6.45	117.72	120.30
29	D1	2244	A	N1-C6-N6	-6.45	114.73	118.60
29	B1	1825	G	N3-C4-N9	-6.45	122.13	126.00
29	D1	593	C	C6-N1-C1'	-6.45	113.06	120.80
29	D1	1422	G	N1-C6-O6	6.45	123.77	119.90
29	B1	3244	A	C4-N9-C1'	-6.45	114.70	126.30
30	B2	85	G	N1-C6-O6	6.45	123.77	119.90
29	D1	2377	G	N9-C4-C5	6.45	107.98	105.40
29	D1	2683	U	C2-N1-C1'	6.45	125.44	117.70
29	B1	927	C	C2-N1-C1'	-6.44	111.71	118.80
29	D1	2700	G	N9-C4-C5	-6.44	102.82	105.40
51	DV	15	PRO	N-CA-CB	6.44	111.03	103.30
29	B1	304	G	C8-N9-C1'	-6.44	118.62	127.00
29	B1	607	A	C4-C5-C6	6.44	120.22	117.00
1	C1	1789	G	C8-N9-C4	6.44	108.98	106.40
29	B1	3228	C	N3-C4-N4	6.44	122.51	118.00
29	B1	3242	G	N1-C2-N3	-6.44	120.04	123.90
10	CI	68	PRO	N-CA-CB	6.44	111.03	103.30
29	D1	1298	C	N3-C2-O2	6.44	126.41	121.90
29	D1	2630	C	N3-C4-C5	6.44	124.48	121.90
29	D1	2683	U	C6-N1-C1'	-6.44	112.19	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2867	C	N3-C2-O2	6.44	126.41	121.90
29	B1	2187	G	C5-C6-O6	6.44	132.46	128.60
1	C1	1143	A	C5-C6-N1	6.44	120.92	117.70
4	AC	81	PRO	N-CA-CB	6.44	111.03	103.30
29	B1	2907	G	N3-C4-N9	-6.44	122.14	126.00
4	CC	43	PRO	N-CA-CB	6.44	111.03	103.30
29	D1	2683	U	C2-N3-C4	-6.44	123.14	127.00
30	D2	19	C	C2-N1-C1'	6.44	125.88	118.80
29	B1	2845	A	C2-N3-C4	-6.43	107.38	110.60
1	C1	572	C	N3-C2-O2	-6.43	117.40	121.90
1	C1	1620	C	C2-N1-C1'	6.43	125.88	118.80
29	D1	729	C	N3-C4-C5	6.43	124.47	121.90
29	D1	1374	G	C8-N9-C4	-6.43	103.83	106.40
29	D1	2290	C	N3-C2-O2	6.43	126.40	121.90
29	B1	364	G	C4-C5-N7	6.43	113.37	110.80
29	B1	3048	A	C5-N7-C8	-6.43	100.69	103.90
1	C1	62	A	C6-C5-N7	6.43	136.80	132.30
29	D1	1140	G	C2-N3-C4	-6.43	108.69	111.90
29	D1	3211	C	N3-C2-O2	6.43	126.40	121.90
29	B1	92	G	N3-C4-C5	-6.43	125.39	128.60
29	D1	2827	U	N1-C2-O2	6.43	127.30	122.80
29	D1	612	U	N3-C4-O4	6.43	123.90	119.40
29	D1	2347	U	C2-N1-C1'	-6.43	109.99	117.70
29	D1	2377	G	C8-N9-C1'	6.43	135.36	127.00
29	B1	157	A	C2-N3-C4	6.42	113.81	110.60
29	B1	1154	A	C5-C6-N1	6.42	120.91	117.70
29	D1	3200	G	C6-N1-C2	6.42	128.96	125.10
29	D1	2809	C	C5-C6-N1	-6.42	117.79	121.00
29	B1	927	C	N3-C2-O2	6.42	126.39	121.90
29	D1	837	A	C5-N7-C8	-6.42	100.69	103.90
29	D1	2683	U	N3-C4-C5	6.42	118.45	114.60
29	B1	2419	A	N1-C6-N6	-6.42	114.75	118.60
29	D1	518	G	C6-N1-C2	6.42	128.95	125.10
1	A1	1778	G	C5-C6-O6	-6.42	124.75	128.60
1	C1	1421	A	N3-C4-C5	-6.42	122.31	126.80
29	D1	2929	C	C6-N1-C2	-6.42	117.73	120.30
29	B1	1661	G	N9-C4-C5	-6.42	102.83	105.40
1	C1	577	G	C8-N9-C1'	-6.42	118.66	127.00
29	D1	380	U	C6-N1-C1'	6.42	130.18	121.20
29	D1	572	A	C5-C6-N6	-6.42	118.57	123.70
29	D1	779	G	C6-C5-N7	-6.42	126.55	130.40
29	D1	1389	G	C8-N9-C4	6.42	108.97	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2928	C	N3-C4-N4	6.42	122.49	118.00
29	D1	2933	A	N9-C4-C5	6.42	108.37	105.80
29	D1	3272	C	C2-N1-C1'	6.42	125.86	118.80
29	B1	3069	G	N1-C6-O6	6.42	123.75	119.90
29	B1	2689	A	N1-C6-N6	-6.41	114.75	118.60
31	B3	115	C	C6-N1-C2	6.41	122.87	120.30
1	C1	552	G	C5-C6-N1	6.41	114.71	111.50
1	C1	1408	G	C8-N9-C4	-6.41	103.83	106.40
10	CI	73	PRO	N-CA-CB	6.41	111.00	103.30
17	CP	42	PRO	N-CA-CB	6.41	111.00	103.30
29	D1	724	U	C5-C6-N1	-6.41	119.49	122.70
29	D1	2708	C	C5-C4-N4	-6.41	115.71	120.20
29	D1	3087	A	C8-N9-C4	6.41	108.37	105.80
37	DF	68	PRO	N-CA-CB	6.41	111.00	103.30
29	D1	1227	C	C2-N1-C1'	6.41	125.85	118.80
29	B1	3198	U	C5-C6-N1	6.41	125.91	122.70
1	C1	869	A	N3-C4-C5	-6.41	122.31	126.80
1	C1	1549	C	C4-C5-C6	6.41	120.61	117.40
29	D1	2830	G	C2-N3-C4	-6.41	108.70	111.90
29	B1	669	U	C6-N1-C1'	-6.41	112.23	121.20
1	C1	1564	U	N1-C2-O2	-6.41	118.31	122.80
29	D1	2391	G	C8-N9-C4	6.41	108.96	106.40
29	D1	2662	G	C5-C6-O6	-6.41	124.76	128.60
1	A1	16	G	N3-C4-N9	6.41	129.84	126.00
29	B1	2325	G	C8-N9-C4	-6.41	103.84	106.40
10	AI	38	PRO	N-CA-CB	6.40	110.98	103.30
37	BF	68	PRO	N-CA-CB	6.40	110.98	103.30
29	D1	2435	G	C5-C6-O6	-6.40	124.76	128.60
29	B1	343	U	N1-C2-O2	6.40	127.28	122.80
29	B1	880	G	C4-N9-C1'	-6.40	118.18	126.50
29	B1	3077	A	N9-C4-C5	6.40	108.36	105.80
29	B1	3210	A	C8-N9-C4	6.40	108.36	105.80
3	CB	74	PRO	N-CA-CB	6.40	110.98	103.30
29	D1	2396	G	C4-N9-C1'	6.40	134.82	126.50
29	D1	2912	G	C4-C5-N7	6.40	113.36	110.80
38	BG	162	PRO	N-CA-CB	6.40	110.98	103.30
4	CC	163	PRO	N-CA-CB	6.40	110.98	103.30
29	D1	2587	U	N3-C4-O4	6.40	123.88	119.40
29	D1	409	A	N7-C8-N9	-6.40	110.60	113.80
29	D1	3124	G	N9-C4-C5	6.40	107.96	105.40
29	B1	575	G	C8-N9-C4	-6.40	103.84	106.40
29	B1	997	A	N1-C2-N3	6.40	132.50	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3390	G	C6-C5-N7	-6.40	126.56	130.40
13	CL	76	PRO	N-CA-CB	6.40	110.98	103.30
29	D1	52	A	C4-N9-C1'	6.40	137.82	126.30
29	D1	1188	U	N1-C2-N3	6.40	118.74	114.90
29	D1	3093	C	N3-C2-O2	6.40	126.38	121.90
42	BK	45	PRO	N-CA-CB	6.40	110.97	103.30
29	B1	1589	A	C5-N7-C8	-6.39	100.70	103.90
29	B1	3132	C	C6-N1-C2	6.39	122.86	120.30
29	B1	3314	A	N1-C2-N3	6.39	132.50	129.30
32	BA	56	PRO	N-CA-CB	6.39	110.97	103.30
29	D1	2136	C	N3-C2-O2	-6.39	117.42	121.90
29	D1	2895	G	N3-C4-N9	-6.39	122.16	126.00
30	D2	9	C	C4-C5-C6	6.39	120.60	117.40
1	C1	1141	G	N9-C4-C5	-6.39	102.84	105.40
14	CM	118	PRO	N-CA-CB	6.39	110.97	103.30
29	B1	822	G	C8-N9-C4	6.39	108.96	106.40
29	D1	3034	C	N3-C4-C5	6.39	124.46	121.90
31	D3	68	G	N3-C4-C5	6.39	131.79	128.60
29	B1	2901	G	N3-C4-C5	-6.39	125.41	128.60
29	D1	190	U	C6-N1-C1'	6.39	130.14	121.20
29	D1	1877	U	C6-N1-C1'	-6.39	112.26	121.20
29	B1	1802	C	N3-C4-C5	6.38	124.45	121.90
29	D1	2294	U	N3-C2-O2	-6.38	117.73	122.20
13	AL	76	PRO	N-CA-CB	6.38	110.96	103.30
29	B1	1434	G	C8-N9-C1'	-6.38	118.70	127.00
29	D1	289	A	C8-N9-C4	6.38	108.35	105.80
29	D1	2918	G	C2-N3-C4	6.38	115.09	111.90
29	D1	3261	C	N3-C2-O2	-6.38	117.43	121.90
29	B1	1048	A	C4-C5-N7	6.38	113.89	110.70
29	B1	1056	U	N3-C4-C5	6.38	118.43	114.60
29	D1	2283	G	N1-C6-O6	6.38	123.73	119.90
29	D1	2776	C	C2-N1-C1'	6.38	125.82	118.80
29	B1	3198	U	C6-N1-C1'	-6.38	112.27	121.20
29	B1	3200	G	C5-C6-N1	-6.38	108.31	111.50
29	B1	343	U	C2-N1-C1'	6.38	125.36	117.70
29	B1	3130	A	C6-C5-N7	-6.38	127.83	132.30
1	C1	427	C	N1-C2-O2	-6.38	115.07	118.90
29	D1	89	A	N1-C6-N6	6.38	122.43	118.60
29	D1	2358	A	C4-C5-C6	-6.38	113.81	117.00
29	B1	118	U	N3-C2-O2	-6.38	117.74	122.20
29	B1	146	U	C2-N1-C1'	6.38	125.35	117.70
29	B1	229	G	C8-N9-C4	-6.38	103.85	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2681	U	N1-C2-O2	6.38	127.26	122.80
29	D1	189	G	C6-N1-C2	-6.38	121.28	125.10
29	D1	593	C	C2-N1-C1'	6.38	125.81	118.80
29	D1	994	G	C8-N9-C1'	-6.38	118.71	127.00
29	D1	1115	G	C6-C5-N7	-6.38	126.57	130.40
29	D1	3025	C	N3-C2-O2	6.38	126.36	121.90
29	B1	1319	G	N3-C4-C5	6.38	131.79	128.60
29	B1	3246	G	N9-C4-C5	6.38	107.95	105.40
33	DB	103	PRO	N-CA-CB	6.38	110.95	103.30
29	B1	1113	G	C6-C5-N7	-6.37	126.58	130.40
29	B1	3219	G	C2-N3-C4	-6.37	108.71	111.90
29	D1	3180	A	C2-N3-C4	6.37	113.79	110.60
47	DR	97	PRO	N-CA-CB	6.37	110.95	103.30
29	B1	865	U	C2-N1-C1'	-6.37	110.06	117.70
29	B1	1525	G	C6-C5-N7	-6.37	126.58	130.40
29	D1	827	A	N1-C6-N6	-6.37	114.78	118.60
29	B1	2700	G	N3-C4-N9	6.37	129.82	126.00
29	B1	3246	G	C8-N9-C4	-6.37	103.85	106.40
37	BF	75	PRO	N-CA-CB	6.37	110.94	103.30
29	D1	2415	C	C2-N3-C4	-6.37	116.72	119.90
1	A1	1046	G	N3-C4-C5	-6.37	125.42	128.60
29	D1	687	U	C6-N1-C1'	6.37	130.11	121.20
1	A1	1606	C	N3-C2-O2	6.37	126.36	121.90
29	B1	1387	G	C5-C6-O6	-6.37	124.78	128.60
29	B1	1330	A	N1-C2-N3	6.36	132.48	129.30
29	B1	1422	G	N3-C2-N2	-6.36	115.45	119.90
29	B1	875	G	C4-N9-C1'	6.36	134.77	126.50
29	B1	3261	C	C6-N1-C2	-6.36	117.76	120.30
29	B1	2353	G	N1-C6-O6	6.36	123.72	119.90
1	A1	439	U	C2-N1-C1'	6.36	125.33	117.70
6	CE	67	PRO	N-CA-CB	6.36	110.93	103.30
29	D1	1677	G	C5-C6-O6	6.36	132.41	128.60
29	D1	2278	C	N1-C2-N3	-6.36	114.75	119.20
31	D3	87	G	C4-N9-C1'	6.36	134.76	126.50
29	D1	599	C	C6-N1-C2	6.36	122.84	120.30
1	C1	54	C	C6-N1-C2	6.35	122.84	120.30
1	C1	610	G	C4-C5-N7	6.35	113.34	110.80
1	C1	1234	A	N1-C2-N3	-6.35	126.12	129.30
29	D1	3261	C	N1-C2-N3	6.35	123.65	119.20
33	DB	66	PRO	N-CA-CB	6.35	110.92	103.30
1	C1	4	C	N3-C4-C5	6.35	124.44	121.90
1	C1	336	G	N1-C2-N3	6.35	127.71	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	358	U	N3-C2-O2	-6.35	117.75	122.20
17	CP	64	PRO	N-CA-CB	6.35	110.92	103.30
29	D1	404	G	C8-N9-C1'	-6.35	118.74	127.00
29	D1	1327	C	N1-C2-N3	6.35	123.65	119.20
29	D1	3376	A	C5-C6-N1	6.35	120.88	117.70
29	B1	659	G	N3-C4-C5	-6.35	125.42	128.60
29	B1	3069	G	C5-C6-O6	-6.35	124.79	128.60
29	D1	434	U	C2-N1-C1'	-6.35	110.08	117.70
29	D1	1190	A	N3-C4-C5	-6.35	122.36	126.80
29	D1	2920	U	N1-C2-N3	6.35	118.71	114.90
1	A1	329	G	N3-C4-C5	6.35	131.77	128.60
29	B1	3192	U	N3-C2-O2	6.35	126.64	122.20
29	B1	644	G	N1-C2-N3	6.35	127.71	123.90
38	BG	204	PRO	N-CA-CB	6.35	110.92	103.30
29	B1	703	G	C8-N9-C1'	6.34	135.25	127.00
29	B1	951	A	C5-C6-N1	6.34	120.87	117.70
29	B1	1190	A	N3-C4-C5	-6.34	122.36	126.80
29	B1	2687	G	C2-N3-C4	6.34	115.07	111.90
1	C1	440	U	N1-C2-O2	-6.34	118.36	122.80
33	DB	108	PRO	N-CA-CB	6.34	110.91	103.30
3	AB	239	PRO	N-CA-CB	6.34	110.91	103.30
72	DL	88	PRO	N-CA-CB	6.34	110.91	103.30
29	B1	1160	C	C6-N1-C1'	-6.34	113.19	120.80
35	BD	223	PRO	N-CA-CB	6.34	110.91	103.30
1	A1	1322	A	C8-N9-C4	6.34	108.34	105.80
29	B1	515	C	N3-C2-O2	6.34	126.34	121.90
29	B1	1371	G	C4-C5-N7	6.34	113.34	110.80
29	D1	2863	G	C5-C6-O6	6.34	132.40	128.60
29	B1	1050	U	C5-C6-N1	-6.34	119.53	122.70
29	B1	1556	C	N1-C2-O2	6.34	122.70	118.90
29	D1	1005	G	N3-C4-N9	-6.34	122.20	126.00
29	B1	518	G	N1-C6-O6	6.34	123.70	119.90
29	B1	2889	C	C5-C6-N1	-6.34	117.83	121.00
29	D1	685	G	C6-C5-N7	-6.34	126.60	130.40
29	D1	782	U	C5-C4-O4	-6.34	122.10	125.90
29	B1	951	A	C5-C6-N6	-6.33	118.63	123.70
29	B1	3323	A	N1-C2-N3	-6.33	126.13	129.30
29	B1	1368	U	C2-N1-C1'	6.33	125.30	117.70
29	B1	2400	G	C6-C5-N7	-6.33	126.60	130.40
30	D2	87	G	N1-C6-O6	6.33	123.70	119.90
58	Dc	42	PRO	N-CA-CB	6.33	110.90	103.30
29	B1	514	G	N9-C4-C5	6.33	107.93	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1367	G	C6-N1-C2	6.33	128.90	125.10
29	B1	3297	U	N1-C2-O2	6.33	127.23	122.80
29	D1	1212	A	C5-N7-C8	-6.33	100.73	103.90
29	D1	2887	A	N1-C6-N6	-6.33	114.80	118.60
29	D1	3220	G	N7-C8-N9	6.33	116.27	113.10
29	B1	1450	G	C4-N9-C1'	6.33	134.73	126.50
15	AN	96	PRO	N-CA-CB	6.33	110.89	103.30
29	B1	900	G	C8-N9-C4	6.33	108.93	106.40
1	C1	1653	C	C2-N1-C1'	-6.33	111.84	118.80
15	CN	71	PRO	N-CA-CB	6.33	110.89	103.30
29	D1	951	A	C8-N9-C4	6.33	108.33	105.80
29	B1	2865	U	N1-C2-O2	-6.33	118.37	122.80
1	C1	437	A	N1-C2-N3	6.33	132.46	129.30
29	D1	3220	G	C8-N9-C1'	-6.33	118.78	127.00
29	B1	2218	G	C5-C6-N1	6.33	114.66	111.50
29	B1	3177	G	N3-C4-C5	6.33	131.76	128.60
29	B1	3314	A	C4-C5-C6	6.33	120.16	117.00
29	B1	3322	A	N1-C2-N3	-6.33	126.14	129.30
1	C1	597	G	C5-C6-N1	6.33	114.66	111.50
29	D1	343	U	C2-N1-C1'	6.33	125.29	117.70
29	D1	2950	G	C4-C5-N7	6.33	113.33	110.80
1	C1	1141	G	C4-N9-C1'	6.32	134.72	126.50
1	C1	1335	U	N3-C2-O2	-6.32	117.77	122.20
29	D1	639	G	N1-C6-O6	6.32	123.69	119.90
2	AA	68	PRO	N-CA-CB	6.32	110.89	103.30
29	B1	3143	C	N3-C4-N4	6.32	122.42	118.00
29	B1	3215	A	C2-N3-C4	6.32	113.76	110.60
29	B1	3250	U	C2-N1-C1'	-6.32	110.11	117.70
29	D1	2707	C	C5-C6-N1	-6.32	117.84	121.00
30	D2	35	C	C2-N1-C1'	6.32	125.75	118.80
1	C1	1604	U	C2-N1-C1'	6.32	125.28	117.70
29	D1	3219	G	N3-C4-C5	6.32	131.76	128.60
29	B1	2149	A	C6-N1-C2	-6.32	114.81	118.60
1	C1	1789	G	N9-C4-C5	-6.32	102.87	105.40
29	D1	347	G	C6-C5-N7	-6.32	126.61	130.40
9	AH	94	PRO	N-CA-CB	6.32	110.88	103.30
29	B1	335	G	C4-C5-N7	6.32	113.33	110.80
29	B1	1410	U	C5-C4-O4	-6.32	122.11	125.90
29	B1	2601	A	N1-C2-N3	-6.32	126.14	129.30
29	B1	3019	U	C5-C4-O4	-6.32	122.11	125.90
29	D1	3185	U	C5-C4-O4	6.32	129.69	125.90
29	D1	3377	G	C4-N9-C1'	6.32	134.71	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	479	C	N1-C2-O2	-6.32	115.11	118.90
38	BG	210	PRO	N-CA-CB	6.32	110.88	103.30
29	D1	792	G	C8-N9-C4	6.32	108.93	106.40
54	BY	83	PRO	N-CA-CB	6.31	110.88	103.30
1	C1	684	A	C5-C6-N1	6.31	120.86	117.70
29	D1	1907	C	N1-C2-O2	-6.31	115.11	118.90
29	D1	3133	C	C5-C4-N4	-6.31	115.78	120.20
30	D2	10	C	C6-N1-C2	-6.31	117.78	120.30
1	A1	1632	C	C6-N1-C2	-6.31	117.78	120.30
29	B1	1388	U	C6-N1-C2	6.31	124.78	121.00
29	B1	2857	C	N3-C4-C5	6.31	124.42	121.90
1	C1	757	A	C2-N3-C4	-6.31	107.44	110.60
29	D1	1888	U	C2-N1-C1'	-6.31	110.13	117.70
38	DG	99	PRO	N-CA-CB	6.31	110.87	103.30
29	B1	1321	G	N7-C8-N9	-6.31	109.95	113.10
29	B1	1429	G	N1-C2-N2	-6.31	110.52	116.20
29	B1	2847	A	C8-N9-C4	-6.31	103.28	105.80
1	C1	825	U	N3-C2-O2	-6.31	117.78	122.20
1	C1	1203	A	N1-C2-N3	6.31	132.45	129.30
17	CP	88	PRO	N-CA-CB	6.31	110.87	103.30
29	D1	2912	G	N1-C6-O6	6.31	123.68	119.90
29	B1	70	A	C2-N3-C4	6.31	113.75	110.60
29	B1	284	A	C6-N1-C2	-6.31	114.82	118.60
1	C1	1173	C	N3-C4-C5	6.31	124.42	121.90
38	BG	193	PRO	N-CA-CB	6.30	110.87	103.30
29	D1	3380	U	C5-C4-O4	6.30	129.68	125.90
2	CA	118	PRO	N-CA-CB	6.30	110.86	103.30
15	CN	96	PRO	N-CA-CB	6.30	110.86	103.30
1	C1	1421	A	N1-C6-N6	-6.30	114.82	118.60
29	D1	2247	G	C8-N9-C4	6.30	108.92	106.40
29	B1	2419	A	C5-C6-N6	6.30	128.74	123.70
29	D1	1897	G	N1-C6-O6	6.30	123.68	119.90
1	A1	437	A	N1-C2-N3	6.30	132.45	129.30
29	B1	1124	U	C6-N1-C1'	-6.30	112.38	121.20
1	C1	1418	G	C5-C6-O6	-6.30	124.82	128.60
1	C1	1455	G	N3-C4-N9	-6.30	122.22	126.00
29	D1	2162	U	C5-C6-N1	-6.30	119.55	122.70
29	D1	3198	U	C5-C6-N1	6.30	125.85	122.70
29	B1	1193	A	N1-C6-N6	6.29	122.38	118.60
29	B1	1439	U	N1-C2-O2	-6.29	118.39	122.80
29	D1	171	G	N3-C4-N9	6.29	129.78	126.00
29	D1	1076	C	C2-N1-C1'	6.29	125.72	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1048	A	C5-N7-C8	-6.29	100.75	103.90
1	C1	825	U	N3-C4-C5	-6.29	110.82	114.60
73	DM	78	PRO	N-CA-CB	6.29	110.85	103.30
31	B3	58	G	C5-C6-O6	-6.29	124.83	128.60
29	D1	315	C	C2-N1-C1'	6.29	125.72	118.80
29	B1	1450	G	C5-N7-C8	-6.29	101.16	104.30
29	B1	517	G	C8-N9-C1'	6.29	135.18	127.00
29	B1	804	C	C2-N1-C1'	-6.29	111.88	118.80
29	B1	1048	A	C4-C5-C6	-6.29	113.86	117.00
1	C1	1773	C	N1-C2-O2	-6.29	115.13	118.90
29	D1	150	A	C6-N1-C2	-6.29	114.83	118.60
29	D1	352	A	C5-C6-N6	6.29	128.73	123.70
1	C1	1453	G	C8-N9-C4	6.29	108.92	106.40
29	D1	41	G	N3-C4-N9	-6.29	122.23	126.00
29	D1	1126	G	C8-N9-C4	-6.29	103.89	106.40
1	A1	986	G	C8-N9-C4	-6.29	103.89	106.40
29	B1	171	G	C8-N9-C1'	-6.29	118.83	127.00
29	B1	584	G	N7-C8-N9	-6.29	109.96	113.10
29	B1	645	A	N3-C4-C5	-6.29	122.40	126.80
58	Bc	42	PRO	N-CA-CB	6.29	110.84	103.30
29	B1	513	G	C4-C5-N7	-6.28	108.29	110.80
29	D1	1123	U	C5-C6-N1	-6.28	119.56	122.70
29	D1	3179	U	C2-N3-C4	6.28	130.77	127.00
29	D1	3291	G	C6-C5-N7	-6.28	126.63	130.40
1	A1	45	U	N1-C2-O2	6.28	127.20	122.80
29	B1	378	A	C2-N3-C4	6.28	113.74	110.60
31	D3	50	C	C2-N1-C1'	-6.28	111.89	118.80
30	B2	112	G	C5-C6-O6	6.28	132.37	128.60
29	D1	1450	G	N7-C8-N9	6.28	116.24	113.10
54	BY	50	PRO	N-CA-CB	6.28	110.83	103.30
29	D1	723	U	C5-C6-N1	6.28	125.84	122.70
29	B1	815	G	C5-C6-O6	-6.28	124.83	128.60
29	B1	3291	G	C8-N9-C1'	-6.28	118.84	127.00
3	CB	37	PRO	N-CA-CB	6.27	110.83	103.30
29	D1	1337	A	C8-N9-C4	6.27	108.31	105.80
29	B1	2935	U	N1-C2-N3	6.27	118.66	114.90
29	D1	1302	A	N3-C4-C5	-6.27	122.41	126.80
29	D1	1857	C	N3-C4-C5	6.27	124.41	121.90
29	D1	1905	G	N3-C4-N9	-6.27	122.24	126.00
3	AB	173	PRO	N-CA-CB	6.27	110.83	103.30
29	B1	26	A	N3-C4-C5	-6.27	122.41	126.80
1	C1	1348	A	N1-C6-N6	6.27	122.36	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	CR	47	PRO	N-CA-CB	6.27	110.82	103.30
29	D1	3113	A	C8-N9-C4	6.27	108.31	105.80
29	D1	666	A	C2-N3-C4	-6.27	107.47	110.60
29	D1	2845	A	C6-C5-N7	-6.27	127.91	132.30
29	D1	3185	U	N3-C2-O2	-6.27	117.81	122.20
29	D1	3199	G	N3-C2-N2	-6.27	115.51	119.90
29	B1	1547	G	N9-C4-C5	-6.27	102.89	105.40
29	D1	1160	C	N1-C2-N3	-6.27	114.81	119.20
29	D1	3307	A	N1-C6-N6	6.27	122.36	118.60
29	B1	698	U	C2-N1-C1'	6.26	125.22	117.70
29	B1	927	C	C5-C6-N1	-6.26	117.87	121.00
29	D1	575	G	C8-N9-C4	-6.26	103.89	106.40
29	D1	2714	G	C2-N3-C4	-6.26	108.77	111.90
29	B1	2331	C	C5-C6-N1	-6.26	117.87	121.00
29	B1	3178	A	C2-N3-C4	-6.26	107.47	110.60
30	B2	9	C	C4-C5-C6	6.26	120.53	117.40
30	B2	58	C	C6-N1-C1'	-6.26	113.29	120.80
37	BF	123	PRO	N-CA-CB	6.26	110.81	103.30
29	D1	676	G	C8-N9-C1'	-6.26	118.86	127.00
29	D1	3103	A	C5-C6-N1	6.26	120.83	117.70
29	B1	1171	G	C8-N9-C4	-6.26	103.90	106.40
5	CD	88	PRO	N-CA-CB	6.26	110.81	103.30
29	D1	1439	U	N3-C2-O2	6.26	126.58	122.20
29	D1	1547	G	C5-C6-O6	-6.26	124.84	128.60
30	D2	101	G	C8-N9-C1'	6.25	135.13	127.00
1	A1	577	G	C8-N9-C1'	-6.25	118.87	127.00
4	AC	43	PRO	N-CA-CB	6.25	110.80	103.30
29	B1	836	A	C5-C6-N1	6.25	120.83	117.70
29	B1	853	G	N7-C8-N9	-6.25	109.97	113.10
29	D1	752	C	C6-N1-C1'	-6.25	113.30	120.80
29	D1	1186	G	C6-C5-N7	-6.25	126.65	130.40
57	Db	123	LYS	N-CA-C	-6.25	94.11	111.00
1	A1	1431	C	C6-N1-C2	6.25	122.80	120.30
29	B1	1522	U	C2-N1-C1'	6.25	125.20	117.70
29	B1	2248	C	C6-N1-C2	6.25	122.80	120.30
29	B1	3257	C	C2-N3-C4	-6.25	116.77	119.90
1	C1	1564	U	C6-N1-C2	6.25	124.75	121.00
29	D1	1403	C	N3-C4-C5	6.25	124.40	121.90
29	D1	2700	G	C5-C6-O6	-6.25	124.85	128.60
29	D1	3328	G	N9-C4-C5	-6.25	102.90	105.40
29	B1	3386	G	C2-N3-C4	-6.25	108.78	111.90
29	B1	3322	A	N3-C4-C5	6.25	131.17	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	514	G	N3-C2-N2	-6.25	115.53	119.90
29	D1	2355	G	C4-N9-C1'	6.25	134.62	126.50
1	A1	1450	U	N3-C4-C5	6.25	118.35	114.60
29	B1	94	G	C5-C6-O6	6.25	132.35	128.60
29	B1	1298	C	C6-N1-C2	6.25	122.80	120.30
29	B1	2919	A	C6-C5-N7	-6.25	127.93	132.30
35	BD	240	PRO	N-CA-CB	6.25	110.80	103.30
1	C1	400	A	N1-C6-N6	-6.25	114.85	118.60
29	D1	94	G	C8-N9-C1'	6.25	135.12	127.00
29	D1	949	C	N1-C2-N3	6.25	123.57	119.20
1	A1	614	C	C6-N1-C2	6.25	122.80	120.30
29	B1	3044	G	N7-C8-N9	-6.25	109.98	113.10
29	D1	677	A	N7-C8-N9	6.25	116.92	113.80
58	Dc	39	PRO	N-CA-CB	6.25	110.79	103.30
1	A1	1450	U	N1-C2-O2	6.24	127.17	122.80
29	B1	2881	C	C5-C6-N1	-6.24	117.88	121.00
36	BE	84	PRO	N-CA-CB	6.24	110.79	103.30
29	D1	674	G	N1-C6-O6	6.24	123.65	119.90
29	D1	2365	C	C5-C6-N1	-6.24	117.88	121.00
29	D1	720	A	N7-C8-N9	6.24	116.92	113.80
53	DX	101	PRO	N-CA-CB	6.24	110.79	103.30
29	B1	164	A	C5-C6-N6	-6.24	118.71	123.70
29	B1	3069	G	C6-C5-N7	-6.24	126.66	130.40
41	BJ	179	PRO	N-CA-CB	6.24	110.79	103.30
45	BP	110	PRO	N-CA-CB	6.24	110.79	103.30
1	C1	402	C	C3'-C2'-C1'	-6.24	96.51	101.50
29	D1	1123	U	C2-N1-C1'	-6.24	110.21	117.70
40	DI	98	PRO	N-CA-CB	6.24	110.79	103.30
29	B1	738	A	N1-C2-N3	-6.24	126.18	129.30
29	B1	826	G	N7-C8-N9	-6.24	109.98	113.10
30	B2	9	C	C6-N1-C2	-6.24	117.80	120.30
30	B2	65	G	N3-C4-N9	6.24	129.74	126.00
30	B2	105	C	N3-C4-C5	6.24	124.39	121.90
29	D1	651	G	C2-N3-C4	-6.24	108.78	111.90
29	D1	1099	A	C2-N3-C4	-6.24	107.48	110.60
29	B1	746	A	C5-C6-N1	6.24	120.82	117.70
29	B1	3188	G	N3-C4-N9	6.24	129.74	126.00
1	C1	313	U	C5-C6-N1	-6.24	119.58	122.70
29	D1	2282	U	N3-C2-O2	6.24	126.56	122.20
29	D1	3099	C	C2-N3-C4	6.24	123.02	119.90
29	D1	1331	U	N1-C2-O2	-6.23	118.44	122.80
54	BY	45	MET	N-CA-C	6.23	127.83	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1141	G	C6-C5-N7	-6.23	126.66	130.40
29	D1	2895	G	N3-C2-N2	-6.23	115.54	119.90
29	D1	3143	C	N3-C2-O2	6.23	126.26	121.90
29	B1	779	G	N9-C4-C5	-6.23	102.91	105.40
29	B1	1091	A	C5-C6-N6	-6.23	118.72	123.70
29	B1	3084	C	C2-N1-C1'	6.23	125.65	118.80
29	B1	3227	A	N1-C2-N3	-6.23	126.19	129.30
29	D1	1111	U	C2-N3-C4	-6.23	123.26	127.00
29	B1	584	G	C4-N9-C1'	-6.23	118.40	126.50
29	B1	3379	C	N3-C4-C5	-6.23	119.41	121.90
29	D1	1152	G	N3-C4-C5	6.23	131.72	128.60
29	B1	380	U	N3-C2-O2	6.23	126.56	122.20
1	C1	403	G	N3-C4-C5	6.23	131.71	128.60
1	C1	1131	A	C5-C6-N1	6.23	120.81	117.70
29	D1	284	A	N1-C6-N6	-6.23	114.86	118.60
29	D1	2262	A	C5-C6-N1	-6.23	114.59	117.70
29	B1	3177	G	C8-N9-C1'	6.23	135.09	127.00
8	CG	82	PRO	N-CA-CB	6.23	110.77	103.30
29	D1	137	G	N9-C4-C5	-6.23	102.91	105.40
1	A1	1599	C	N1-C2-O2	6.22	122.64	118.90
29	B1	718	G	C5-C6-N1	6.22	114.61	111.50
29	B1	1312	C	C6-N1-C2	-6.22	117.81	120.30
29	B1	1650	G	C5-C6-N1	6.22	114.61	111.50
29	B1	3269	U	C5-C4-O4	-6.22	122.17	125.90
29	B1	3062	G	C5-C6-O6	-6.22	124.87	128.60
29	B1	3109	G	N3-C4-C5	-6.22	125.49	128.60
29	B1	2983	C	N3-C2-O2	-6.22	117.55	121.90
29	D1	2287	C	C5-C4-N4	6.22	124.56	120.20
1	A1	1431	C	N3-C4-C5	6.22	124.39	121.90
29	D1	3209	A	C8-N9-C4	-6.22	103.31	105.80
59	Dd	6	PRO	N-CA-CB	6.22	110.76	103.30
29	D1	1902	G	C4-N9-C1'	6.22	134.58	126.50
29	D1	1941	C	C6-N1-C2	6.22	122.79	120.30
1	A1	869	A	N3-C4-C5	-6.22	122.45	126.80
1	A1	1408	G	C4-N9-C1'	6.22	134.58	126.50
29	D1	1313	G	C5-C6-O6	6.22	132.33	128.60
29	D1	3314	A	N3-C4-C5	-6.22	122.45	126.80
31	D3	16	G	N1-C6-O6	6.22	123.63	119.90
29	B1	966	U	N3-C4-O4	6.21	123.75	119.40
1	C1	647	G	N3-C4-C5	-6.21	125.49	128.60
29	B1	963	G	C4-C5-C6	6.21	122.53	118.80
29	D1	3088	G	N1-C6-O6	6.21	123.63	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2881	C	C6-N1-C2	6.21	122.78	120.30
29	B1	2924	U	C6-N1-C2	6.21	124.73	121.00
30	B2	113	C	N3-C4-C5	6.21	124.39	121.90
29	D1	94	G	C4-N9-C1'	-6.21	118.43	126.50
29	D1	2690	G	C5-C6-O6	-6.21	124.87	128.60
29	D1	3019	U	C2-N3-C4	-6.21	123.27	127.00
29	D1	2527	G	N3-C4-C5	6.21	131.71	128.60
29	B1	3096	C	C6-N1-C2	6.21	122.78	120.30
29	D1	1010	G	C5-C6-O6	-6.21	124.88	128.60
29	D1	1333	C	C6-N1-C2	6.21	122.78	120.30
29	B1	712	G	N9-C4-C5	-6.21	102.92	105.40
29	B1	931	C	C6-N1-C2	-6.21	117.82	120.30
29	B1	2353	G	N9-C4-C5	-6.21	102.92	105.40
1	C1	789	A	C8-N9-C4	-6.21	103.32	105.80
15	CN	55	PRO	N-CA-CB	6.21	110.75	103.30
29	D1	576	C	N3-C2-O2	6.21	126.24	121.90
35	DD	205	PRO	N-CA-CB	6.21	110.75	103.30
1	C1	479	C	C2-N1-C1'	-6.21	111.97	118.80
29	B1	589	A	N7-C8-N9	6.20	116.90	113.80
29	B1	2280	A	C8-N9-C4	-6.20	103.32	105.80
1	C1	1438	G	N3-C4-N9	6.20	129.72	126.00
12	CK	22	PRO	N-CA-CB	6.20	110.75	103.30
29	D1	589	A	C4-N9-C1'	6.20	137.47	126.30
29	D1	716	A	C8-N9-C4	-6.20	103.32	105.80
29	D1	2974	U	C5-C6-N1	-6.20	119.60	122.70
29	D1	1152	G	C6-C5-N7	-6.20	126.68	130.40
29	D1	1367	G	N3-C4-C5	6.20	131.70	128.60
29	D1	3201	C	C6-N1-C2	-6.20	117.82	120.30
29	B1	676	G	C8-N9-C1'	-6.20	118.94	127.00
29	B1	744	A	N7-C8-N9	-6.20	110.70	113.80
29	B1	1480	G	C4-C5-N7	6.20	113.28	110.80
1	C1	1725	U	C6-N1-C1'	-6.20	112.52	121.20
1	A1	1045	C	N3-C4-N4	-6.20	113.66	118.00
1	A1	1591	C	N1-C2-O2	-6.20	115.18	118.90
29	B1	1085	A	N7-C8-N9	6.20	116.90	113.80
29	B1	1320	C	C6-N1-C2	-6.20	117.82	120.30
29	D1	706	A	C2-N3-C4	-6.20	107.50	110.60
29	D1	890	C	C2-N3-C4	-6.20	116.80	119.90
29	D1	2618	G	C8-N9-C4	-6.20	103.92	106.40
29	B1	656	A	N3-C4-C5	-6.20	122.46	126.80
29	B1	1457	U	N1-C2-O2	-6.20	118.46	122.80
1	C1	314	C	C6-N1-C2	6.20	122.78	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2267	C	N1-C2-O2	-6.20	115.18	118.90
29	B1	1918	C	C6-N1-C2	-6.19	117.82	120.30
29	B1	2601	A	N3-C4-C5	6.19	131.14	126.80
1	C1	1642	G	N3-C4-C5	6.19	131.70	128.60
1	A1	1173	C	N3-C4-C5	6.19	124.38	121.90
6	AE	67	PRO	N-CA-CB	6.19	110.73	103.30
29	B1	2990	G	N3-C4-C5	6.19	131.70	128.60
29	D1	497	C	N3-C4-C5	6.19	124.38	121.90
29	D1	1330	A	C5-C6-N1	-6.19	114.60	117.70
29	D1	2287	C	N1-C2-N3	6.19	123.53	119.20
29	D1	2329	C	N1-C2-O2	-6.19	115.19	118.90
1	A1	869	A	N3-C4-N9	6.19	132.35	127.40
29	B1	2689	A	C4-C5-C6	6.19	120.09	117.00
29	D1	1318	A	C5-C6-N1	6.19	120.80	117.70
29	D1	1670	C	N1-C2-O2	6.19	122.61	118.90
29	D1	2941	A	N1-C6-N6	-6.19	114.89	118.60
54	DY	50	PRO	N-CA-CB	6.19	110.73	103.30
29	B1	2330	C	C5-C6-N1	-6.19	117.91	121.00
29	D1	1048	A	C4-C5-C6	-6.19	113.91	117.00
29	D1	2349	U	N1-C2-N3	6.19	118.61	114.90
29	B1	756	U	C5-C4-O4	-6.19	122.19	125.90
2	CA	11	PRO	N-CA-CB	6.19	110.72	103.30
29	D1	190	U	C5-C4-O4	6.19	129.61	125.90
29	D1	434	U	N3-C2-O2	6.19	126.53	122.20
29	D1	517	G	C8-N9-C1'	6.19	135.04	127.00
29	D1	646	A	C2-N3-C4	-6.19	107.51	110.60
54	DY	119	PRO	N-CA-CB	6.19	110.73	103.30
29	B1	924	G	C4-C5-N7	6.18	113.27	110.80
29	B1	2807	U	C5-C4-O4	-6.18	122.19	125.90
1	C1	684	A	C6-N1-C2	-6.18	114.89	118.60
1	C1	1303	U	C2-N1-C1'	-6.18	110.28	117.70
1	C1	1378	U	C5-C6-N1	6.18	125.79	122.70
1	C1	1644	C	C5-C6-N1	-6.18	117.91	121.00
29	B1	422	A	C8-N9-C1'	6.18	138.83	127.70
29	B1	2901	G	N3-C4-N9	6.18	129.71	126.00
30	B2	77	G	N9-C4-C5	-6.18	102.93	105.40
1	C1	1145	U	N3-C2-O2	6.18	126.53	122.20
7	CF	95	PRO	N-CA-CB	6.18	110.72	103.30
29	D1	45	A	N3-C4-C5	6.18	131.13	126.80
29	D1	86	G	C4-N9-C1'	-6.18	118.46	126.50
29	B1	1490	A	N7-C8-N9	-6.18	110.71	113.80
1	A1	1788	G	N3-C4-N9	-6.18	122.29	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CB	182	PRO	N-CA-CB	6.18	110.72	103.30
29	B1	1059	G	N3-C4-C5	6.18	131.69	128.60
1	C1	1073	G	C8-N9-C1'	-6.18	118.97	127.00
29	D1	2725	U	C5-C6-N1	6.18	125.79	122.70
29	D1	3002	C	C5-C6-N1	-6.18	117.91	121.00
3	AB	85	PRO	N-CA-CB	6.17	110.71	103.30
33	BB	206	PRO	N-CA-CB	6.17	110.71	103.30
29	D1	837	A	C8-N9-C4	-6.17	103.33	105.80
29	D1	1899	G	C5-C6-O6	6.17	132.31	128.60
29	D1	2689	A	C4-N9-C1'	6.17	137.42	126.30
29	D1	2823	G	C4-N9-C1'	-6.17	118.47	126.50
1	A1	1498	G	C8-N9-C1'	-6.17	118.97	127.00
29	D1	536	U	N3-C2-O2	6.17	126.52	122.20
29	D1	651	G	C4-C5-N7	6.17	113.27	110.80
29	B1	352	A	N1-C6-N6	-6.17	114.90	118.60
29	B1	703	G	N3-C4-C5	6.17	131.69	128.60
29	D1	1296	C	C2-N3-C4	-6.17	116.81	119.90
29	D1	3205	G	N3-C4-N9	6.17	129.70	126.00
29	B1	91	G	N3-C4-C5	-6.17	125.52	128.60
37	DF	49	GLY	N-CA-C	-6.17	97.67	113.10
1	A1	1303	U	N1-C2-O2	-6.17	118.48	122.80
19	AR	47	PRO	N-CA-CB	6.17	110.70	103.30
29	B1	909	G	N1-C2-N3	6.17	127.60	123.90
29	B1	2278	C	C2-N1-C1'	6.17	125.59	118.80
18	CQ	55	PRO	N-CA-CB	6.17	110.70	103.30
12	AK	22	PRO	N-CA-CB	6.17	110.70	103.30
29	B1	985	U	C2-N1-C1'	-6.17	110.30	117.70
29	B1	3392	U	N3-C4-C5	6.17	118.30	114.60
31	B3	41	A	N7-C8-N9	6.17	116.88	113.80
29	D1	94	G	C6-C5-N7	6.17	134.10	130.40
1	A1	13	C	C6-N1-C1'	-6.17	113.40	120.80
29	B1	513	G	C6-N1-C2	6.17	128.80	125.10
1	A1	752	A	N1-C6-N6	6.16	122.30	118.60
36	BE	181	PRO	N-CA-CB	6.16	110.70	103.30
1	A1	1455	G	C8-N9-C4	-6.16	103.94	106.40
29	B1	504	A	C4-C5-N7	6.16	113.78	110.70
1	A1	1611	A	N7-C8-N9	6.16	116.88	113.80
29	B1	192	C	N3-C2-O2	6.16	126.21	121.90
29	B1	1458	U	C2-N3-C4	-6.16	123.31	127.00
35	BD	205	PRO	N-CA-CB	6.16	110.69	103.30
29	D1	335	G	N1-C6-O6	6.16	123.59	119.90
29	D1	1099	A	C8-N9-C4	6.16	108.26	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3059	G	N9-C4-C5	-6.16	102.94	105.40
29	B1	3323	A	N3-C4-C5	6.16	131.11	126.80
29	D1	88	A	C8-N9-C4	6.16	108.26	105.80
29	D1	3018	C	N1-C2-O2	-6.16	115.21	118.90
29	B1	3219	G	N7-C8-N9	6.16	116.18	113.10
29	B1	3257	C	N3-C4-N4	-6.16	113.69	118.00
29	D1	2901	G	C4-C5-N7	6.16	113.26	110.80
29	D1	1324	U	C5-C4-O4	-6.15	122.21	125.90
29	D1	3332	U	N3-C4-C5	-6.15	110.91	114.60
29	B1	3059	G	N1-C6-O6	6.15	123.59	119.90
1	C1	981	U	C6-N1-C1'	-6.15	112.59	121.20
29	D1	222	A	C5-C6-N6	-6.15	118.78	123.70
29	D1	424	G	C4-C5-C6	6.15	122.49	118.80
29	D1	2120	A	C2-N3-C4	-6.15	107.52	110.60
29	B1	883	A	N1-C6-N6	-6.15	114.91	118.60
29	B1	2602	G	N3-C4-C5	6.15	131.68	128.60
29	D1	537	A	C5-C6-N6	6.15	128.62	123.70
29	B1	327	A	C5-C6-N1	-6.15	114.63	117.70
29	B1	1165	A	C2-N3-C4	-6.15	107.53	110.60
29	B1	1495	U	C5-C6-N1	-6.15	119.63	122.70
29	B1	1781	C	C2-N1-C1'	6.15	125.56	118.80
29	D1	1324	U	N3-C4-O4	6.15	123.70	119.40
29	D1	3227	A	C5-C6-N6	6.15	128.62	123.70
30	D2	103	A	N1-C6-N6	6.15	122.29	118.60
3	AB	74	PRO	N-CA-CB	6.15	110.67	103.30
29	B1	1047	A	N9-C4-C5	6.15	108.26	105.80
29	B1	2142	A	C8-N9-C4	6.15	108.26	105.80
29	B1	622	A	N1-C6-N6	6.14	122.29	118.60
29	B1	3201	C	C6-N1-C2	-6.14	117.84	120.30
1	C1	1636	C	N3-C4-C5	6.14	124.36	121.90
29	D1	744	A	C4-C5-N7	-6.14	107.63	110.70
29	D1	2642	A	C8-N9-C4	6.14	108.26	105.80
29	D1	3025	C	N1-C2-O2	-6.14	115.21	118.90
15	AN	55	PRO	N-CA-CB	6.14	110.67	103.30
29	B1	1397	C	N1-C2-O2	-6.14	115.22	118.90
29	D1	338	A	C8-N9-C4	-6.14	103.34	105.80
29	D1	857	G	C5-C6-O6	6.14	132.28	128.60
29	D1	1525	G	C6-C5-N7	-6.14	126.71	130.40
29	D1	2392	C	N1-C2-O2	6.14	122.59	118.90
29	D1	2916	U	N3-C2-O2	6.14	126.50	122.20
1	A1	1498	G	C4-N9-C1'	6.14	134.48	126.50
29	D1	1324	U	C5-C6-N1	6.14	125.77	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	281	G	C5-C6-O6	-6.14	124.92	128.60
29	B1	2968	G	N1-C6-O6	-6.14	116.22	119.90
29	B1	3219	G	N3-C4-C5	6.14	131.67	128.60
46	BQ	11	PRO	N-CA-CB	6.14	110.67	103.30
1	C1	16	G	N3-C2-N2	6.14	124.20	119.90
44	DO	154	PRO	N-CA-CB	6.14	110.67	103.30
21	AT	247	PRO	N-CA-CB	6.14	110.67	103.30
56	Ba	30	PRO	N-CA-CB	6.14	110.67	103.30
29	D1	2716	U	C2-N1-C1'	6.14	125.07	117.70
30	D2	46	A	N9-C4-C5	6.14	108.25	105.80
1	A1	406	U	N3-C2-O2	6.14	126.50	122.20
4	AC	192	PRO	N-CA-CB	6.14	110.66	103.30
29	B1	676	G	C8-N9-C4	-6.14	103.94	106.40
29	B1	2278	C	C6-N1-C1'	-6.14	113.44	120.80
29	B1	3377	G	C4-N9-C1'	6.14	134.48	126.50
1	C1	24	U	C5-C4-O4	-6.14	122.22	125.90
1	A1	825	U	C5-C6-N1	-6.13	119.63	122.70
29	B1	370	U	N3-C2-O2	6.13	126.49	122.20
29	B1	963	G	C5-C6-O6	-6.13	124.92	128.60
29	B1	1868	G	N1-C6-O6	6.13	123.58	119.90
1	C1	1745	G	C5-C6-N1	6.13	114.57	111.50
29	D1	607	A	N3-C4-C5	-6.13	122.51	126.80
1	A1	1541	G	C6-C5-N7	-6.13	126.72	130.40
29	B1	3393	U	C5-C6-N1	-6.13	119.63	122.70
29	B1	857	G	C5-C6-O6	6.13	132.28	128.60
1	C1	825	U	C5-C6-N1	-6.13	119.64	122.70
29	D1	2396	G	C8-N9-C1'	-6.13	119.03	127.00
14	AM	118	PRO	N-CA-CB	6.13	110.66	103.30
29	B1	148	G	C5-C6-N1	-6.13	108.44	111.50
29	B1	899	U	C5-C6-N1	-6.13	119.64	122.70
29	B1	2669	G	N9-C4-C5	-6.13	102.95	105.40
29	B1	3367	C	C6-N1-C2	6.13	122.75	120.30
29	D1	566	G	N9-C4-C5	6.13	107.85	105.40
29	D1	1143	A	C8-N9-C4	6.13	108.25	105.80
29	B1	2429	G	C8-N9-C4	-6.13	103.95	106.40
30	B2	105	C	C6-N1-C2	6.13	122.75	120.30
29	D1	537	A	N1-C6-N6	-6.13	114.92	118.60
29	D1	2700	G	C4-C5-N7	6.13	113.25	110.80
1	A1	1476	C	C6-N1-C2	6.12	122.75	120.30
8	AG	85	PRO	N-CA-CB	6.12	110.65	103.30
29	D1	968	G	N1-C2-N3	6.12	127.58	123.90
29	D1	1388	U	C2-N1-C1'	-6.12	110.35	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	481	A	C6-N1-C2	6.12	122.27	118.60
1	A1	1438	G	C6-C5-N7	-6.12	126.72	130.40
29	D1	2664	C	N1-C2-O2	6.12	122.57	118.90
1	A1	1792	G	N1-C6-O6	6.12	123.57	119.90
29	B1	151	A	C5-C6-N6	-6.12	118.80	123.70
29	B1	364	G	C8-N9-C1'	-6.12	119.04	127.00
29	B1	2700	G	C4-N9-C1'	6.12	134.46	126.50
29	B1	3268	A	C4-N9-C1'	-6.12	115.28	126.30
1	C1	1373	C	N1-C2-O2	-6.12	115.23	118.90
29	D1	2186	U	C5-C4-O4	6.12	129.57	125.90
29	B1	2639	G	N1-C6-O6	6.12	123.57	119.90
1	C1	358	U	N1-C2-O2	6.12	127.08	122.80
1	C1	1784	C	C6-N1-C2	6.12	122.75	120.30
29	B1	308	A	C4-C5-C6	6.12	120.06	117.00
29	B1	3173	G	C2-N3-C4	-6.12	108.84	111.90
29	D1	606	C	C5-C6-N1	6.12	124.06	121.00
29	D1	1371	G	C8-N9-C1'	-6.12	119.05	127.00
1	C1	1733	C	N1-C2-O2	-6.12	115.23	118.90
29	D1	1322	U	C5-C6-N1	6.12	125.76	122.70
6	AE	169	PRO	N-CA-CB	6.12	110.64	103.30
29	B1	52	A	N3-C4-C5	-6.12	122.52	126.80
1	C1	1141	G	N3-C4-N9	6.12	129.67	126.00
29	B1	345	G	C4-C5-C6	6.11	122.47	118.80
29	D1	1148	G	C4-C5-N7	6.11	113.25	110.80
29	D1	1371	G	C4-N9-C1'	6.11	134.45	126.50
29	D1	3209	A	N9-C4-C5	6.11	108.25	105.80
1	A1	437	A	C6-C5-N7	-6.11	128.02	132.30
29	B1	1609	C	N1-C2-O2	-6.11	115.23	118.90
29	B1	2892	A	C5-N7-C8	-6.11	100.84	103.90
1	C1	330	G	C5-C6-O6	-6.11	124.93	128.60
3	AB	171	PRO	N-CA-CB	6.11	110.63	103.30
29	B1	3228	C	N3-C4-C5	-6.11	119.45	121.90
45	BP	58	LEU	N-CA-C	-6.11	94.50	111.00
57	Bb	7	PRO	N-CA-CB	6.11	110.63	103.30
29	D1	2199	G	C8-N9-C4	-6.11	103.96	106.40
30	D2	113	C	N3-C2-O2	-6.11	117.62	121.90
29	D1	1517	G	N3-C4-C5	6.11	131.65	128.60
29	D1	3108	G	N1-C6-O6	-6.11	116.23	119.90
29	B1	625	G	C5-C6-O6	6.11	132.26	128.60
31	B3	92	A	C5-C6-N6	6.11	128.59	123.70
29	D1	606	C	N1-C2-O2	6.11	122.56	118.90
29	D1	3387	U	N1-C2-O2	-6.11	118.52	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1324	U	N3-C4-O4	6.11	123.67	119.40
29	B1	2362	C	C5-C4-N4	-6.11	115.93	120.20
29	B1	2935	U	C5-C4-O4	6.11	129.56	125.90
35	BD	102	PRO	N-CA-CB	6.11	110.63	103.30
1	C1	462	G	C4-N9-C1'	-6.11	118.56	126.50
29	D1	729	C	N3-C2-O2	-6.11	117.63	121.90
29	D1	2339	C	C6-N1-C2	-6.11	117.86	120.30
29	D1	3314	A	C8-N9-C4	-6.11	103.36	105.80
30	D2	112	G	C6-N1-C2	-6.11	121.44	125.10
29	B1	500	C	C5-C6-N1	6.10	124.05	121.00
29	B1	859	G	N3-C4-N9	6.10	129.66	126.00
1	C1	1279	C	N1-C2-O2	-6.10	115.24	118.90
37	DF	123	PRO	N-CA-CB	6.10	110.62	103.30
29	B1	853	G	C5-N7-C8	6.10	107.35	104.30
29	D1	1148	G	C6-C5-N7	-6.10	126.74	130.40
29	D1	2881	C	N3-C4-C5	6.10	124.34	121.90
29	D1	718	G	N3-C4-N9	6.10	129.66	126.00
29	D1	2970	C	C2-N1-C1'	6.10	125.51	118.80
29	B1	1861	G	N3-C4-C5	6.10	131.65	128.60
30	B2	112	G	N3-C4-C5	-6.10	125.55	128.60
45	BP	70	PRO	N-CA-CB	6.10	110.62	103.30
1	C1	1149	G	C5-C6-N1	6.10	114.55	111.50
29	D1	1140	G	C8-N9-C4	6.10	108.84	106.40
29	D1	1661	G	C4-C5-N7	6.10	113.24	110.80
29	B1	293	C	N1-C2-O2	-6.10	115.24	118.90
29	B1	3220	G	C6-C5-N7	-6.09	126.74	130.40
1	C1	1177	C	N3-C4-C5	6.09	124.34	121.90
29	D1	364	G	C8-N9-C1'	-6.09	119.08	127.00
29	D1	1126	G	C2-N3-C4	-6.09	108.85	111.90
29	D1	3227	A	C5-C6-N1	-6.09	114.65	117.70
29	B1	2289	U	C5-C6-N1	-6.09	119.65	122.70
29	D1	1134	G	C5-C6-O6	6.09	132.25	128.60
29	D1	3213	A	C5-N7-C8	-6.09	100.85	103.90
45	DP	76	PRO	N-CA-C	-6.09	96.26	112.10
1	A1	437	A	C5-C6-N1	6.09	120.74	117.70
1	A1	825	U	C2-N3-C4	-6.09	123.35	127.00
29	B1	583	G	C5-C6-O6	6.09	132.25	128.60
29	B1	608	A	C6-C5-N7	-6.09	128.04	132.30
29	B1	669	U	N3-C2-O2	-6.09	117.94	122.20
29	B1	1422	G	C2-N3-C4	-6.09	108.86	111.90
29	B1	1431	G	N3-C4-C5	-6.09	125.56	128.60
29	B1	2353	G	C6-C5-N7	-6.09	126.75	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3280	U	N3-C2-O2	6.09	126.46	122.20
29	D1	3045	G	C8-N9-C4	-6.09	103.96	106.40
73	DM	71	PRO	N-CA-CB	6.09	110.61	103.30
29	B1	3271	G	C2-N3-C4	6.09	114.94	111.90
33	BB	197	PRO	N-CA-CB	6.09	110.61	103.30
29	D1	2140	U	C5-C6-N1	-6.09	119.66	122.70
1	A1	1141	G	N9-C4-C5	-6.09	102.97	105.40
29	B1	576	C	N3-C4-N4	6.09	122.26	118.00
29	B1	3231	U	N3-C2-O2	-6.09	117.94	122.20
1	C1	1198	G	N9-C4-C5	6.09	107.83	105.40
31	D3	34	U	C6-N1-C2	-6.09	117.35	121.00
46	DQ	84	PRO	N-CA-CB	6.09	110.60	103.30
36	DE	255	PRO	N-CA-CB	6.08	110.60	103.30
1	A1	427	C	C6-N1-C2	6.08	122.73	120.30
29	D1	1885	U	C5-C6-N1	-6.08	119.66	122.70
29	D1	2361	A	N1-C6-N6	-6.08	114.95	118.60
50	DU	50	PRO	N-CA-CB	6.08	110.60	103.30
29	B1	26	A	C4-C5-C6	6.08	120.04	117.00
29	B1	902	G	C8-N9-C4	-6.08	103.97	106.40
29	B1	2369	G	C6-C5-N7	-6.08	126.75	130.40
29	B1	3047	U	N1-C2-O2	-6.08	118.54	122.80
29	B1	3131	U	C5-C4-O4	-6.08	122.25	125.90
32	BA	61	PRO	N-CA-CB	6.08	110.60	103.30
1	C1	1634	C	N1-C2-N3	-6.08	114.94	119.20
29	B1	712	G	C6-C5-N7	-6.08	126.75	130.40
29	B1	1324	U	C2-N1-C1'	6.08	125.00	117.70
29	B1	1851	G	C5-C6-O6	-6.08	124.95	128.60
36	DE	19	PRO	N-CA-CB	6.08	110.60	103.30
41	BJ	47	PRO	N-CA-CB	6.08	110.59	103.30
1	C1	1462	G	N9-C4-C5	-6.08	102.97	105.40
29	D1	3108	G	C6-C5-N7	6.08	134.05	130.40
29	B1	1439	U	N3-C4-C5	6.08	118.25	114.60
29	D1	954	U	C5-C4-O4	-6.08	122.25	125.90
29	B1	585	A	N9-C4-C5	6.08	108.23	105.80
54	BY	119	PRO	N-CA-CB	6.08	110.59	103.30
29	D1	2964	G	C4-C5-N7	-6.08	108.37	110.80
29	B1	38	U	C5-C6-N1	-6.07	119.66	122.70
29	B1	422	A	C2-N3-C4	6.07	113.64	110.60
29	B1	1551	C	C2-N3-C4	-6.07	116.86	119.90
29	B1	1868	G	C2-N3-C4	-6.07	108.86	111.90
29	B1	2892	A	N1-C2-N3	-6.07	126.26	129.30
29	D1	1365	G	C8-N9-C4	-6.07	103.97	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2892	A	C6-N1-C2	6.07	122.24	118.60
29	D1	2693	C	N3-C2-O2	-6.07	117.65	121.90
29	B1	2869	U	N3-C2-O2	-6.07	117.95	122.20
29	D1	2669	G	C4-N9-C1'	6.07	134.39	126.50
29	D1	3271	G	C3'-C2'-C1'	-6.07	96.64	101.50
33	DB	206	PRO	N-CA-CB	6.07	110.58	103.30
1	A1	459	G	C5-C6-N1	-6.07	108.47	111.50
29	B1	1005	G	C4-C5-N7	-6.07	108.37	110.80
34	DC	307	PRO	N-CA-CB	6.07	110.58	103.30
29	B1	1365	G	N3-C4-C5	-6.07	125.57	128.60
30	B2	30	G	N3-C4-C5	6.07	131.63	128.60
60	Be	22	PRO	N-CA-CB	6.07	110.58	103.30
29	D1	404	G	C4-C5-C6	6.07	122.44	118.80
29	D1	1111	U	N1-C2-O2	-6.07	118.55	122.80
29	B1	1331	U	C2-N1-C1'	-6.07	110.42	117.70
29	D1	2780	A	C6-N1-C2	-6.07	114.96	118.60
29	D1	2931	C	N1-C2-O2	-6.07	115.26	118.90
9	AH	120	PRO	N-CA-CB	6.06	110.58	103.30
29	B1	1044	U	C5-C6-N1	-6.06	119.67	122.70
1	C1	1024	U	C6-N1-C2	6.06	124.64	121.00
1	C1	1453	G	N3-C4-C5	6.06	131.63	128.60
36	DE	192	PRO	N-CA-CB	6.06	110.58	103.30
29	B1	790	U	N1-C2-O2	-6.06	118.56	122.80
29	B1	1317	A	C5-N7-C8	-6.06	100.87	103.90
29	B1	1476	G	C8-N9-C4	-6.06	103.97	106.40
29	D1	304	G	C8-N9-C1'	-6.06	119.12	127.00
46	DQ	11	PRO	N-CA-CB	6.06	110.58	103.30
47	DR	43	PRO	N-CA-CB	6.06	110.57	103.30
54	DY	83	PRO	N-CA-CB	6.06	110.58	103.30
29	B1	1865	A	C2-N3-C4	-6.06	107.57	110.60
29	B1	1902	G	C4-N9-C1'	6.06	134.38	126.50
29	B1	575	G	N9-C4-C5	6.06	107.82	105.40
9	CH	94	PRO	N-CA-CB	6.06	110.57	103.30
29	D1	32	U	C6-N1-C2	6.06	124.64	121.00
29	D1	1317	A	N3-C4-C5	6.06	131.04	126.80
29	D1	3095	U	C5-C4-O4	-6.06	122.26	125.90
29	B1	3170	A	C5-C6-N1	-6.06	114.67	117.70
38	DG	210	PRO	N-CA-CB	6.06	110.57	103.30
29	D1	387	A	C2-N3-C4	-6.06	107.57	110.60
29	B1	685	G	N1-C2-N3	6.05	127.53	123.90
29	B1	930	U	N3-C2-O2	6.05	126.44	122.20
29	B1	2559	U	N3-C2-O2	-6.05	117.96	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3227	A	C5-C6-N6	6.05	128.54	123.70
29	B1	3291	G	C6-C5-N7	-6.05	126.77	130.40
29	B1	3388	C	C2-N1-C1'	6.05	125.46	118.80
1	C1	160	C	C6-N1-C2	6.05	122.72	120.30
1	C1	869	A	N3-C4-N9	6.05	132.24	127.40
29	D1	996	A	C8-N9-C4	6.05	108.22	105.80
29	D1	1292	C	N3-C2-O2	6.05	126.14	121.90
29	D1	3088	G	C5-C6-O6	-6.05	124.97	128.60
29	D1	3192	U	C6-N1-C1'	6.05	129.68	121.20
29	B1	876	A	C8-N9-C4	6.05	108.22	105.80
29	B1	2882	U	C6-N1-C2	-6.05	117.37	121.00
29	D1	390	G	C6-C5-N7	6.05	134.03	130.40
1	A1	1497	U	C5-C4-O4	6.05	129.53	125.90
29	B1	3265	C	N3-C2-O2	-6.05	117.66	121.90
29	D1	94	G	N1-C6-O6	-6.05	116.27	119.90
29	D1	409	A	N1-C6-N6	-6.05	114.97	118.60
29	D1	529	A	C4-C5-C6	-6.05	113.97	117.00
29	D1	2914	G	C4-C5-N7	6.05	113.22	110.80
29	D1	3103	A	C5-C6-N6	-6.05	118.86	123.70
33	DB	178	PRO	N-CA-CB	6.05	110.56	103.30
1	A1	610	G	N3-C4-N9	6.05	129.63	126.00
7	AF	113	PRO	N-CA-CB	6.05	110.56	103.30
29	B1	622	A	C6-C5-N7	-6.05	128.06	132.30
29	B1	648	C	C4-C5-C6	6.05	120.42	117.40
29	B1	2992	U	N3-C2-O2	6.05	126.44	122.20
30	B2	66	A	N3-C4-C5	6.05	131.03	126.80
29	D1	751	A	C6-N1-C2	-6.05	114.97	118.60
29	D1	3224	G	N3-C2-N2	-6.05	115.67	119.90
29	D1	3324	C	C6-N1-C1'	-6.05	113.54	120.80
29	B1	677	A	C5-N7-C8	-6.05	100.88	103.90
29	B1	1457	U	N1-C2-N3	6.05	118.53	114.90
29	B1	2643	A	C5-C6-N1	-6.05	114.68	117.70
29	B1	2835	U	C6-N1-C1'	-6.05	112.73	121.20
29	B1	2585	G	N3-C4-N9	6.05	129.63	126.00
7	CF	113	PRO	N-CA-CB	6.05	110.56	103.30
29	D1	1915	A	C2-N3-C4	-6.05	107.58	110.60
29	B1	2882	U	C5-C6-N1	6.04	125.72	122.70
29	D1	1517	G	N3-C4-N9	-6.04	122.37	126.00
29	D1	1596	C	N3-C2-O2	-6.04	117.67	121.90
30	D2	8	G	C4-N9-C1'	-6.04	118.64	126.50
29	B1	3181	C	C5-C4-N4	-6.04	115.97	120.20
59	Bd	6	PRO	N-CA-CB	6.04	110.55	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1107	G	N3-C4-C5	-6.04	125.58	128.60
29	D1	137	G	N3-C4-N9	6.04	129.63	126.00
29	D1	2780	A	C5-C6-N6	-6.04	118.86	123.70
29	D1	2904	U	N1-C2-O2	6.04	127.03	122.80
29	B1	2837	A	C8-N9-C4	6.04	108.22	105.80
29	B1	3366	G	N3-C4-N9	-6.04	122.38	126.00
33	BB	210	PRO	N-CA-CB	6.04	110.55	103.30
1	C1	1453	G	C4-N9-C1'	-6.04	118.64	126.50
29	D1	1695	U	N3-C2-O2	-6.04	117.97	122.20
1	A1	338	C	N1-C2-O2	6.04	122.52	118.90
1	C1	1073	G	C6-N1-C2	-6.04	121.48	125.10
29	D1	2315	G	N3-C2-N2	-6.04	115.67	119.90
29	D1	2435	G	N1-C6-O6	6.04	123.52	119.90
29	B1	237	G	N9-C4-C5	-6.04	102.98	105.40
29	B1	3271	G	C3'-C2'-C1'	-6.04	96.67	101.50
33	BB	108	PRO	N-CA-CB	6.04	110.55	103.30
29	B1	2278	C	C2-N3-C4	6.04	122.92	119.90
29	B1	2972	G	C8-N9-C1'	-6.04	119.15	127.00
29	B1	337	G	C5-C6-N1	-6.04	108.48	111.50
29	B1	1444	G	C6-C5-N7	-6.04	126.78	130.40
29	B1	304	G	C4-N9-C1'	6.03	134.34	126.50
29	B1	345	G	C4-C5-N7	-6.03	108.39	110.80
29	D1	2714	G	N3-C4-C5	6.03	131.62	128.60
31	B3	76	C	C6-N1-C2	-6.03	117.89	120.30
29	D1	2583	C	N1-C2-O2	-6.03	115.28	118.90
32	BA	121	PRO	N-CA-CB	6.03	110.54	103.30
29	D1	48	A	C8-N9-C4	6.03	108.21	105.80
72	DL	7	PRO	N-CA-CB	6.03	110.54	103.30
1	A1	890	C	C2-N1-C1'	-6.03	112.17	118.80
29	B1	214	G	N3-C4-C5	6.03	131.62	128.60
29	B1	299	G	C4-N9-C1'	6.03	134.34	126.50
29	B1	640	U	C2-N3-C4	6.03	130.62	127.00
29	D1	164	A	N1-C6-N6	6.03	122.22	118.60
29	D1	1850	A	C8-N9-C4	6.03	108.21	105.80
29	B1	409	A	C8-N9-C4	6.03	108.21	105.80
32	BA	135	PRO	N-CA-CB	6.03	110.53	103.30
29	D1	1186	G	C4-C5-N7	6.03	113.21	110.80
29	B1	1209	G	N3-C2-N2	-6.03	115.68	119.90
29	B1	2914	G	C8-N9-C4	-6.03	103.99	106.40
29	D1	2834	G	C4-C5-C6	-6.03	115.18	118.80
29	B1	89	A	N9-C4-C5	-6.02	103.39	105.80
29	B1	2943	G	N1-C6-O6	6.02	123.52	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BD	146	PRO	N-CA-CB	6.02	110.53	103.30
3	CB	85	PRO	N-CA-CB	6.02	110.53	103.30
29	B1	2607	G	C6-C5-N7	-6.02	126.79	130.40
1	C1	1323	C	C5-C6-N1	-6.02	117.99	121.00
29	D1	2117	A	N1-C6-N6	-6.02	114.99	118.60
29	D1	3130	A	N1-C6-N6	6.02	122.21	118.60
32	DA	43	PRO	N-CA-CB	6.02	110.53	103.30
1	C1	1291	G	N1-C6-O6	6.02	123.51	119.90
29	B1	389	A	C5-C6-N1	-6.02	114.69	117.70
29	B1	899	U	N3-C4-O4	-6.02	115.19	119.40
29	B1	930	U	N1-C2-O2	-6.02	118.59	122.80
29	D1	1941	C	N3-C4-C5	6.02	124.31	121.90
30	D2	117	A	C6-N1-C2	6.02	122.21	118.60
41	DJ	16	PRO	N-CA-CB	6.02	110.52	103.30
1	A1	684	A	C6-N1-C2	-6.02	114.99	118.60
29	B1	581	U	N1-C2-O2	6.02	127.01	122.80
34	BC	63	PRO	N-CA-CB	6.02	110.52	103.30
8	AG	82	PRO	N-CA-CB	6.01	110.52	103.30
10	AI	75	PRO	N-CA-CB	6.01	110.52	103.30
29	B1	2362	C	C6-N1-C1'	6.01	128.02	120.80
1	C1	627	C	C6-N1-C2	6.01	122.71	120.30
29	D1	2919	A	C4-N9-C1'	6.01	137.12	126.30
29	D1	3141	A	N3-C4-C5	-6.01	122.59	126.80
32	DA	61	PRO	N-CA-CB	6.01	110.52	103.30
6	CE	169	PRO	N-CA-CB	6.01	110.52	103.30
29	D1	2638	C	N1-C2-O2	-6.01	115.29	118.90
29	D1	3388	C	C2-N1-C1'	6.01	125.41	118.80
1	A1	1792	G	C6-C5-N7	-6.01	126.79	130.40
29	B1	137	G	C4-C5-N7	6.01	113.20	110.80
29	B1	334	A	C2-N3-C4	6.01	113.61	110.60
29	B1	1209	G	C2-N3-C4	-6.01	108.89	111.90
29	B1	3084	C	C5-C4-N4	-6.01	115.99	120.20
1	C1	1633	A	N7-C8-N9	6.01	116.81	113.80
37	DF	153	PRO	N-CA-CB	6.01	110.51	103.30
1	C1	552	G	C5-C6-O6	-6.01	125.00	128.60
1	C1	1159	C	C6-N1-C1'	-6.01	113.59	120.80
29	D1	97	U	N3-C2-O2	6.01	126.41	122.20
30	D2	96	U	C6-N1-C2	6.01	124.61	121.00
29	B1	505	G	C4-C5-N7	-6.01	108.40	110.80
29	D1	639	G	C6-C5-N7	-6.01	126.80	130.40
29	D1	703	G	C4-N9-C1'	-6.01	118.69	126.50
29	B1	419	G	N1-C6-O6	-6.01	116.30	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	622	A	N7-C8-N9	6.01	116.80	113.80
29	B1	2693	C	C6-N1-C1'	-6.01	113.59	120.80
29	D1	2639	G	C6-C5-N7	-6.01	126.80	130.40
29	B1	151	A	C6-N1-C2	-6.00	115.00	118.60
29	B1	2134	G	C5-C6-O6	-6.00	125.00	128.60
2	CA	194	PRO	N-CA-CB	6.00	110.51	103.30
29	D1	3326	G	C8-N9-C4	-6.00	104.00	106.40
60	De	24	PRO	N-CA-CB	6.00	110.51	103.30
29	B1	590	G	C8-N9-C4	6.00	108.80	106.40
29	B1	677	A	C8-N9-C4	-6.00	103.40	105.80
37	BF	7	PRO	N-CA-CB	6.00	110.50	103.30
37	DF	7	PRO	N-CA-CB	6.00	110.50	103.30
41	DJ	27	PRO	N-CA-CB	6.00	110.50	103.30
29	B1	333	G	C8-N9-C4	-6.00	104.00	106.40
1	C1	1792	G	N3-C4-N9	6.00	129.60	126.00
29	D1	287	G	C5-C6-N1	-6.00	108.50	111.50
1	A1	1579	U	C2-N1-C1'	6.00	124.90	117.70
29	B1	2382	G	C5-C6-N1	6.00	114.50	111.50
29	D1	1191	U	C6-N1-C2	6.00	124.60	121.00
1	A1	1787	C	N3-C4-C5	6.00	124.30	121.90
29	B1	21	G	C6-C5-N7	-6.00	126.80	130.40
1	C1	1132	A	N1-C6-N6	6.00	122.20	118.60
3	CB	171	PRO	N-CA-CB	6.00	110.50	103.30
29	D1	3103	A	C8-N9-C4	-6.00	103.40	105.80
29	B1	3208	G	C2-N3-C4	6.00	114.90	111.90
29	D1	2122	G	C2-N3-C4	-6.00	108.90	111.90
52	DW	66	PRO	N-CA-CB	6.00	110.50	103.30
29	B1	1506	A	C6-C5-N7	-6.00	128.10	132.30
21	CT	267	PRO	N-CA-CB	6.00	110.49	103.30
29	D1	1209	G	N3-C2-N2	-6.00	115.70	119.90
54	DY	122	PRO	N-CA-CB	6.00	110.49	103.30
1	A1	1104	U	N3-C2-O2	5.99	126.40	122.20
29	B1	651	G	N9-C4-C5	-5.99	103.00	105.40
29	B1	2283	G	C5-N7-C8	-5.99	101.30	104.30
29	B1	2669	G	C4-N9-C1'	5.99	134.29	126.50
30	B2	8	G	C4-N9-C1'	-5.99	118.71	126.50
35	DD	146	PRO	N-CA-CB	5.99	110.49	103.30
29	B1	956	U	C6-N1-C2	5.99	124.59	121.00
39	BH	129	PRO	N-CA-CB	5.99	110.49	103.30
29	B1	746	A	C2-N3-C4	5.99	113.59	110.60
29	B1	1547	G	C6-C5-N7	-5.99	126.81	130.40
29	B1	1556	C	N3-C2-O2	-5.99	117.71	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2990	G	C5-N7-C8	-5.99	101.31	104.30
29	B1	2551	U	C5-C6-N1	5.99	125.69	122.70
29	D1	1147	G	C5-N7-C8	-5.99	101.31	104.30
29	D1	3045	G	C4-C5-N7	5.99	113.19	110.80
29	B1	757	C	N3-C4-C5	5.99	124.30	121.90
1	C1	385	A	N1-C6-N6	-5.99	115.01	118.60
1	C1	423	G	C2-N3-C4	5.99	114.89	111.90
29	B1	337	G	N1-C6-O6	5.99	123.49	119.90
29	B1	659	G	N3-C2-N2	5.99	124.09	119.90
29	B1	2633	U	N3-C4-C5	-5.99	111.01	114.60
29	D1	3013	U	N3-C2-O2	-5.99	118.01	122.20
29	D1	3018	C	N3-C4-C5	5.99	124.29	121.90
29	B1	39	A	N1-C6-N6	5.98	122.19	118.60
29	B1	2607	G	C4-C5-C6	5.98	122.39	118.80
29	B1	2776	C	C6-N1-C1'	-5.98	113.62	120.80
4	CC	192	PRO	N-CA-CB	5.98	110.48	103.30
29	D1	1152	G	C5-C6-N1	-5.98	108.51	111.50
1	C1	1202	A	N1-C6-N6	-5.98	115.01	118.60
1	C1	1568	C	C4-C5-C6	5.98	120.39	117.40
1	C1	1591	C	C5-C6-N1	-5.98	118.01	121.00
29	D1	3245	A	C4-C5-N7	5.98	113.69	110.70
29	D1	3223	A	C5-C6-N1	-5.98	114.71	117.70
29	B1	86	G	C8-N9-C1'	5.98	134.77	127.00
29	D1	424	G	N7-C8-N9	5.98	116.09	113.10
29	D1	2292	U	C5-C4-O4	-5.98	122.31	125.90
29	D1	2707	C	N1-C2-O2	-5.98	115.31	118.90
1	A1	63	G	C5-N7-C8	5.98	107.29	104.30
29	B1	2183	A	N9-C4-C5	5.98	108.19	105.80
1	C1	1725	U	C5-C4-O4	-5.98	122.31	125.90
29	D1	2324	A	C2-N3-C4	5.98	113.59	110.60
37	DF	11	PRO	N-CA-CB	5.98	110.47	103.30
29	B1	32	U	N3-C4-C5	5.97	118.18	114.60
29	B1	685	G	C6-C5-N7	-5.97	126.82	130.40
8	CG	85	PRO	N-CA-CB	5.97	110.47	103.30
29	D1	2187	G	N1-C6-O6	-5.97	116.31	119.90
29	D1	2671	A	N1-C6-N6	5.97	122.19	118.60
29	D1	2851	A	N9-C4-C5	5.97	108.19	105.80
29	B1	2651	G	C8-N9-C4	5.97	108.79	106.40
29	D1	549	U	N1-C2-O2	5.97	126.98	122.80
29	D1	1097	G	N1-C6-O6	-5.97	116.32	119.90
29	D1	1368	U	C6-N1-C1'	-5.97	112.84	121.20
45	DP	111	PRO	N-CA-CB	5.97	110.47	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	390	G	C6-C5-N7	5.97	133.98	130.40
29	B1	946	U	C6-N1-C1'	-5.97	112.84	121.20
1	C1	565	C	C5-C6-N1	-5.97	118.01	121.00
1	C1	1291	G	C4-C5-N7	5.97	113.19	110.80
29	D1	2700	G	N3-C4-N9	5.97	129.58	126.00
29	D1	2993	G	C6-C5-N7	5.97	133.98	130.40
29	B1	2823	G	N3-C4-N9	-5.97	122.42	126.00
29	D1	2981	U	C5-C4-O4	-5.97	122.32	125.90
29	B1	789	A	N9-C4-C5	5.97	108.19	105.80
29	D1	1174	G	C6-N1-C2	-5.97	121.52	125.10
1	A1	590	C	C6-N1-C2	-5.97	117.91	120.30
3	AB	182	PRO	N-CA-CB	5.97	110.46	103.30
29	B1	3059	G	C5-C6-O6	-5.97	125.02	128.60
1	C1	1408	G	N3-C4-N9	5.97	129.58	126.00
15	AN	71	PRO	N-CA-CB	5.96	110.46	103.30
29	B1	2951	G	N3-C4-C5	5.96	131.58	128.60
34	BC	40	PRO	N-CA-CB	5.96	110.46	103.30
34	DC	40	PRO	N-CA-CB	5.96	110.46	103.30
39	DH	129	PRO	N-CA-CB	5.96	110.46	103.30
29	B1	3377	G	N7-C8-N9	5.96	116.08	113.10
1	C1	59	C	C6-N1-C2	-5.96	117.92	120.30
1	C1	479	C	C5-C6-N1	-5.96	118.02	121.00
29	B1	1113	G	C4-N9-C1'	5.96	134.25	126.50
29	D1	2895	G	C4-C5-N7	-5.96	108.42	110.80
29	B1	669	U	C5-C4-O4	-5.96	122.33	125.90
29	B1	1294	A	C8-N9-C4	-5.96	103.42	105.80
1	C1	621	A	C5-C6-N1	5.96	120.68	117.70
45	DP	110	PRO	N-CA-CB	5.96	110.45	103.30
17	AP	118	PRO	N-CA-CB	5.96	110.45	103.30
29	B1	500	C	N3-C2-O2	-5.96	117.73	121.90
29	B1	1428	A	C8-N9-C4	5.96	108.18	105.80
29	B1	1716	U	N3-C2-O2	-5.96	118.03	122.20
30	B2	47	C	C5-C6-N1	5.96	123.98	121.00
36	BE	255	PRO	N-CA-CB	5.96	110.45	103.30
29	D1	3139	A	N1-C6-N6	-5.96	115.03	118.60
54	DY	45	MET	N-CA-C	5.96	127.08	111.00
29	D1	794	U	N3-C2-O2	5.96	126.37	122.20
34	DC	63	PRO	N-CA-CB	5.96	110.45	103.30
1	A1	1149	G	C5-C6-N1	5.95	114.48	111.50
29	B1	22	G	N1-C6-O6	-5.95	116.33	119.90
29	B1	2527	G	C4-N9-C1'	-5.95	118.76	126.50
29	B1	2935	U	C5-C6-N1	-5.95	119.72	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	222	A	N1-C6-N6	5.95	122.17	118.60
29	D1	517	G	C8-N9-C4	-5.95	104.02	106.40
29	D1	2881	C	N3-C2-O2	5.95	126.07	121.90
29	D1	3272	C	C2-N3-C4	5.95	122.88	119.90
30	D2	19	C	C6-N1-C1'	-5.95	113.66	120.80
29	B1	956	U	C5-C6-N1	-5.95	119.72	122.70
1	A1	1073	G	C5-C6-O6	-5.95	125.03	128.60
3	AB	138	PRO	N-CA-CB	5.95	110.44	103.30
29	B1	3243	A	N9-C4-C5	-5.95	103.42	105.80
29	D1	617	G	C6-N1-C2	-5.95	121.53	125.10
29	D1	2669	G	C5-C6-O6	-5.95	125.03	128.60
29	B1	1324	U	C5-C4-O4	-5.95	122.33	125.90
29	B1	3108	G	C8-N9-C1'	5.95	134.73	127.00
30	B2	112	G	C6-C5-N7	5.95	133.97	130.40
29	D1	633	C	N1-C2-O2	-5.95	115.33	118.90
29	D1	1004	U	C6-N1-C2	-5.95	117.43	121.00
29	D1	3245	A	C6-C5-N7	-5.95	128.14	132.30
32	DA	126	PRO	N-CA-CB	5.95	110.44	103.30
29	B1	2700	G	C6-C5-N7	-5.95	126.83	130.40
29	D1	1434	G	C4-C5-N7	5.95	113.18	110.80
29	B1	1207	G	C4-C5-N7	5.95	113.18	110.80
29	B1	2327	U	C2-N3-C4	-5.95	123.43	127.00
16	CO	77	PRO	N-CA-CB	5.95	110.43	103.30
10	AI	53	PRO	N-CA-CB	5.94	110.43	103.30
29	D1	1487	G	N3-C4-N9	5.94	129.57	126.00
29	D1	3369	G	C5-C6-O6	5.94	132.17	128.60
18	AQ	55	PRO	N-CA-CB	5.94	110.43	103.30
1	C1	16	G	C8-N9-C4	5.94	108.78	106.40
1	C1	86	A	C6-N1-C2	5.94	122.17	118.60
3	CB	173	PRO	N-CA-CB	5.94	110.43	103.30
29	D1	3211	C	N3-C4-C5	5.94	124.28	121.90
29	D1	3322	A	N3-C4-C5	5.94	130.96	126.80
30	D2	65	G	C8-N9-C4	-5.94	104.02	106.40
16	AO	77	PRO	N-CA-CB	5.94	110.43	103.30
29	B1	2837	A	N7-C8-N9	-5.94	110.83	113.80
1	C1	1658	G	C8-N9-C4	5.94	108.78	106.40
29	D1	624	G	C4-C5-N7	5.94	113.18	110.80
29	D1	2278	C	C2-N3-C4	5.94	122.87	119.90
29	D1	3314	A	C4-N9-C1'	5.94	136.99	126.30
2	AA	118	PRO	N-CA-CB	5.94	110.43	103.30
29	B1	286	U	N3-C2-O2	-5.94	118.04	122.20
29	B1	1124	U	C2-N1-C1'	5.94	124.83	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1618	G	N1-C6-O6	-5.94	116.34	119.90
29	B1	1133	A	N9-C4-C5	5.94	108.17	105.80
29	B1	1342	C	C5-C4-N4	-5.94	116.04	120.20
29	B1	2738	A	C8-N9-C4	5.94	108.17	105.80
29	B1	3273	A	N1-C2-N3	-5.94	126.33	129.30
8	CG	47	PRO	N-CA-CB	5.94	110.42	103.30
29	D1	429	U	N1-C2-N3	5.94	118.46	114.90
29	D1	1362	G	N7-C8-N9	-5.94	110.13	113.10
29	D1	96	G	C2-N3-C4	-5.94	108.93	111.90
29	D1	1589	A	C6-C5-N7	-5.94	128.14	132.30
29	B1	424	G	N1-C6-O6	5.93	123.46	119.90
29	B1	1138	U	C5-C4-O4	-5.93	122.34	125.90
29	B1	2421	U	C2-N1-C1'	-5.93	110.58	117.70
10	CI	75	PRO	N-CA-CB	5.93	110.42	103.30
61	Df	56	PRO	N-CA-CB	5.93	110.42	103.30
29	B1	587	U	C6-N1-C2	5.93	124.56	121.00
29	B1	3130	A	C4-C5-N7	5.93	113.67	110.70
29	D1	1720	U	C5-C6-N1	5.93	125.67	122.70
30	D2	65	G	C5-C6-O6	-5.93	125.04	128.60
29	B1	304	G	C4-C5-N7	5.93	113.17	110.80
29	B1	3303	G	C5-N7-C8	5.93	107.27	104.30
16	CO	29	PRO	N-CA-CB	5.93	110.42	103.30
29	D1	364	G	C4-N9-C1'	5.93	134.21	126.50
29	D1	1919	G	C6-C5-N7	-5.93	126.84	130.40
29	D1	2639	G	C4-C5-N7	5.93	113.17	110.80
37	DF	36	PRO	N-CA-CB	5.93	110.42	103.30
1	A1	429	G	C8-N9-C4	-5.93	104.03	106.40
29	B1	812	G	N1-C6-O6	5.93	123.46	119.90
29	B1	3297	U	C6-N1-C1'	-5.93	112.90	121.20
30	D2	101	G	C4-N9-C1'	-5.93	118.79	126.50
35	DD	21	PRO	N-CA-CB	5.93	110.42	103.30
35	DD	23	PRO	N-CA-CB	5.93	110.42	103.30
29	B1	70	A	N3-C4-C5	-5.93	122.65	126.80
29	B1	2868	U	N3-C2-O2	5.93	126.35	122.20
29	B1	3280	U	C2-N3-C4	5.93	130.56	127.00
33	BB	57	PRO	N-CA-CB	5.93	110.41	103.30
1	C1	24	U	C2-N1-C1'	5.93	124.81	117.70
29	D1	3185	U	N3-C4-O4	-5.93	115.25	119.40
2	AA	194	PRO	N-CA-CB	5.93	110.41	103.30
8	AG	136	PRO	N-CA-CB	5.93	110.41	103.30
21	AT	206	PRO	N-CA-CB	5.93	110.41	103.30
29	B1	354	U	C5-C4-O4	-5.93	122.34	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	432	G	C5-C6-N1	-5.93	108.54	111.50
29	B1	1050	U	N1-C2-O2	-5.93	118.65	122.80
29	D1	3374	U	C6-N1-C2	5.93	124.56	121.00
30	D2	119	U	N3-C2-O2	-5.93	118.05	122.20
32	DA	137	PRO	N-CA-CB	5.93	110.41	103.30
1	A1	1028	C	N3-C4-C5	5.92	124.27	121.90
29	B1	302	U	C5-C6-N1	-5.92	119.74	122.70
29	B1	970	A	N9-C4-C5	-5.92	103.43	105.80
32	BA	126	PRO	N-CA-CB	5.92	110.41	103.30
2	CA	68	PRO	N-CA-CB	5.92	110.41	103.30
30	D2	51	A	C8-N9-C4	-5.92	103.43	105.80
33	DB	57	PRO	N-CA-CB	5.92	110.41	103.30
29	B1	419	G	C8-N9-C4	5.92	108.77	106.40
29	D1	659	G	C4-N9-C1'	5.92	134.20	126.50
29	D1	3181	C	C5-C4-N4	-5.92	116.05	120.20
29	B1	511	G	N1-C6-O6	5.92	123.45	119.90
29	B1	3386	G	C8-N9-C1'	-5.92	119.30	127.00
29	D1	2390	A	C8-N9-C4	-5.92	103.43	105.80
29	D1	3078	U	C6-N1-C1'	-5.92	112.91	121.20
29	B1	1720	U	C5-C6-N1	5.92	125.66	122.70
29	B1	2194	G	C8-N9-C4	5.92	108.77	106.40
32	BA	43	PRO	N-CA-CB	5.92	110.40	103.30
29	D1	1287	A	C8-N9-C4	5.92	108.17	105.80
1	A1	1378	U	C5-C6-N1	5.92	125.66	122.70
1	A1	1637	C	N1-C2-O2	5.92	122.45	118.90
29	D1	41	G	N3-C4-C5	5.92	131.56	128.60
29	D1	2681	U	N1-C2-O2	5.92	126.94	122.80
29	D1	3207	U	N3-C2-O2	-5.92	118.06	122.20
29	D1	3227	A	N1-C2-N3	-5.92	126.34	129.30
41	DJ	214	PRO	N-CA-CB	5.92	110.40	103.30
1	A1	874	C	N1-C2-O2	5.92	122.45	118.90
1	A1	1137	A	C8-N9-C4	5.92	108.17	105.80
5	AD	67	PRO	N-CA-CB	5.92	110.40	103.30
29	B1	137	G	N9-C4-C5	-5.92	103.03	105.40
29	D1	3303	G	N1-C6-O6	-5.92	116.35	119.90
29	B1	677	A	C6-C5-N7	-5.92	128.16	132.30
29	B1	3144	G	C8-N9-C4	-5.92	104.03	106.40
56	Ba	88	PRO	N-CA-CB	5.92	110.40	103.30
29	D1	3123	A	C8-N9-C4	-5.92	103.43	105.80
1	A1	1353	U	N3-C2-O2	-5.91	118.06	122.20
1	A1	1520	U	N1-C2-O2	-5.91	118.66	122.80
29	B1	1951	C	N1-C2-O2	5.91	122.45	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3273	A	C5-C6-N6	-5.91	118.97	123.70
9	CH	57	PRO	N-CA-CB	5.91	110.40	103.30
29	D1	1363	A	N7-C8-N9	-5.91	110.84	113.80
29	D1	3078	U	N1-C2-O2	5.91	126.94	122.80
29	B1	1403	C	C6-N1-C2	5.91	122.67	120.30
29	D1	1902	G	N3-C4-N9	5.91	129.55	126.00
29	B1	187	A	C8-N9-C4	-5.91	103.44	105.80
29	B1	659	G	C6-C5-N7	-5.91	126.85	130.40
29	B1	1434	G	C6-N1-C2	5.91	128.65	125.10
29	B1	2196	C	C6-N1-C2	-5.91	117.94	120.30
29	B1	2671	A	C6-N1-C2	-5.91	115.05	118.60
1	A1	1135	U	N3-C2-O2	5.91	126.33	122.20
29	B1	94	G	C4-N9-C1'	-5.91	118.82	126.50
29	B1	2663	G	C8-N9-C4	5.91	108.76	106.40
30	B2	93	C	C5-C4-N4	-5.91	116.06	120.20
1	C1	1291	G	C5-C6-O6	-5.91	125.06	128.60
29	D1	511	G	N3-C4-N9	-5.91	122.45	126.00
29	D1	1292	C	N1-C2-O2	-5.91	115.36	118.90
29	B1	2527	G	N3-C4-C5	5.91	131.55	128.60
29	D1	2355	G	N3-C4-C5	-5.91	125.65	128.60
1	C1	902	G	C5-C6-N1	-5.91	108.55	111.50
1	C1	1121	C	N1-C2-O2	-5.91	115.36	118.90
2	CA	97	PRO	N-CA-CB	5.91	110.39	103.30
29	D1	52	A	C8-N9-C1'	-5.91	117.07	127.70
29	D1	424	G	C5-N7-C8	-5.91	101.35	104.30
29	D1	946	U	C2-N1-C1'	5.91	124.79	117.70
30	D2	65	G	N3-C4-C5	-5.91	125.65	128.60
57	Db	7	PRO	N-CA-CB	5.91	110.39	103.30
1	A1	572	C	C2-N3-C4	5.90	122.85	119.90
29	B1	932	U	N1-C2-O2	-5.90	118.67	122.80
44	BO	42	PRO	N-CA-CB	5.90	110.38	103.30
61	Bf	56	PRO	N-CA-CB	5.90	110.38	103.30
1	C1	1198	G	N1-C6-O6	-5.90	116.36	119.90
29	D1	1062	A	C8-N9-C4	5.90	108.16	105.80
29	D1	1892	G	N1-C2-N3	5.90	127.44	123.90
29	D1	3099	C	C6-N1-C2	5.90	122.66	120.30
1	A1	100	A	N1-C6-N6	-5.90	115.06	118.60
29	B1	1547	G	N1-C2-N2	-5.90	110.89	116.20
50	BU	105	PRO	N-CA-CB	5.90	110.38	103.30
29	D1	434	U	C5-C6-N1	-5.90	119.75	122.70
29	D1	2669	G	C8-N9-C1'	-5.90	119.33	127.00
29	D1	2756	C	N3-C4-C5	5.90	124.26	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2989	U	N1-C2-O2	-5.90	118.67	122.80
29	B1	743	C	N3-C4-C5	5.90	124.26	121.90
29	B1	1452	A	N1-C6-N6	5.90	122.14	118.60
1	C1	1520	U	N3-C2-O2	5.90	126.33	122.20
1	C1	1549	C	N1-C2-O2	-5.90	115.36	118.90
1	A1	1615	C	C6-N1-C2	-5.90	117.94	120.30
29	B1	984	G	C8-N9-C1'	5.90	134.67	127.00
29	B1	2302	G	C5-C6-N1	5.90	114.45	111.50
29	B1	2669	G	N3-C4-N9	5.90	129.54	126.00
31	B3	53	A	N1-C2-N3	-5.90	126.35	129.30
60	Be	24	PRO	N-CA-CB	5.90	110.38	103.30
1	C1	1421	A	C2-N3-C4	5.90	113.55	110.60
29	D1	1172	G	N7-C8-N9	-5.90	110.15	113.10
29	D1	2700	G	C8-N9-C1'	-5.90	119.33	127.00
29	B1	3054	U	C5-C4-O4	5.90	129.44	125.90
29	B1	3224	G	N3-C2-N2	-5.90	115.77	119.90
29	D1	409	A	C8-N9-C4	5.90	108.16	105.80
29	D1	575	G	C6-C5-N7	5.90	133.94	130.40
35	DD	29	PRO	N-CA-CB	5.90	110.38	103.30
29	B1	503	C	C2-N1-C1'	-5.89	112.32	118.80
29	B1	810	A	C4-C5-N7	5.89	113.65	110.70
29	B1	954	U	C5-C4-O4	-5.89	122.36	125.90
29	B1	1076	C	N3-C2-O2	-5.89	117.77	121.90
29	B1	1377	G	C5-C6-O6	5.89	132.14	128.60
29	B1	2605	G	C5-C6-O6	-5.89	125.06	128.60
29	B1	3035	A	N1-C2-N3	5.89	132.25	129.30
1	C1	1470	C	C2-N1-C1'	5.89	125.28	118.80
10	CI	53	PRO	N-CA-CB	5.89	110.37	103.30
29	D1	978	G	N3-C4-C5	-5.89	125.65	128.60
29	D1	3170	A	C5-C6-N6	5.89	128.42	123.70
1	A1	1759	C	C6-N1-C2	5.89	122.66	120.30
9	AH	57	PRO	N-CA-CB	5.89	110.37	103.30
29	B1	164	A	N1-C6-N6	5.89	122.14	118.60
29	D1	2415	C	N3-C4-C5	5.89	124.26	121.90
29	D1	2886	U	C5-C6-N1	-5.89	119.75	122.70
72	DL	89	PRO	N-CA-CB	5.89	110.37	103.30
50	DU	117	PRO	N-CA-CB	5.89	110.37	103.30
29	B1	834	U	N1-C2-O2	5.89	126.92	122.80
1	C1	16	G	N1-C2-N2	-5.89	110.90	116.20
29	D1	625	G	N3-C4-C5	5.89	131.55	128.60
29	D1	1469	C	N3-C2-O2	-5.89	117.78	121.90
29	B1	2377	G	N3-C4-C5	5.89	131.54	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3099	C	C2-N3-C4	5.89	122.84	119.90
29	B1	3198	U	N1-C2-O2	5.89	126.92	122.80
29	D1	1120	A	N1-C2-N3	5.89	132.25	129.30
29	D1	2556	C	C6-N1-C2	-5.89	117.94	120.30
29	D1	3139	A	C6-C5-N7	5.89	136.42	132.30
29	B1	203	G	N1-C6-O6	-5.89	116.37	119.90
29	B1	1005	G	N3-C4-N9	-5.89	122.47	126.00
29	B1	1123	U	C2-N1-C1'	-5.89	110.63	117.70
13	CL	82	PRO	N-CA-CB	5.89	110.36	103.30
29	D1	1227	C	C5-C6-N1	5.89	123.94	121.00
29	D1	1781	C	C5-C4-N4	-5.89	116.08	120.20
1	A1	614	C	C6-N1-C1'	-5.89	113.74	120.80
29	B1	510	G	C5-C6-O6	-5.89	125.07	128.60
29	B1	1197	A	N9-C4-C5	-5.89	103.44	105.80
29	B1	1888	U	C5-C6-N1	-5.89	119.76	122.70
29	B1	2701	U	N3-C4-O4	5.89	123.52	119.40
29	B1	2943	G	C4-C5-N7	5.89	113.16	110.80
32	BA	137	PRO	N-CA-CB	5.89	110.36	103.30
29	D1	2552	C	N3-C2-O2	-5.89	117.78	121.90
1	A1	1498	G	C5-C6-N1	5.88	114.44	111.50
29	B1	120	G	C8-N9-C1'	5.88	134.65	127.00
29	B1	271	C	C6-N1-C2	-5.88	117.95	120.30
29	B1	868	C	N1-C2-O2	-5.88	115.37	118.90
29	B1	2867	C	N3-C2-O2	5.88	126.02	121.90
1	C1	1647	U	N1-C2-N3	-5.88	111.37	114.90
29	D1	1191	U	C4-C5-C6	-5.88	116.17	119.70
29	D1	2527	G	C8-N9-C1'	5.88	134.65	127.00
29	D1	3268	A	C4-N9-C1'	-5.88	115.71	126.30
1	A1	950	C	C6-N1-C2	5.88	122.65	120.30
29	B1	92	G	N7-C8-N9	5.88	116.04	113.10
29	B1	301	G	C5-C6-O6	5.88	132.13	128.60
1	C1	49	C	C6-N1-C2	5.88	122.65	120.30
1	A1	329	G	C2-N3-C4	-5.88	108.96	111.90
2	AA	42	PRO	N-CA-CB	5.88	110.36	103.30
29	B1	726	G	C6-C5-N7	-5.88	126.87	130.40
40	BI	13	PRO	N-CA-CB	5.88	110.36	103.30
29	D1	2353	G	C6-C5-N7	-5.88	126.87	130.40
1	A1	161	U	C5-C6-N1	-5.88	119.76	122.70
1	A1	1033	C	C2-N1-C1'	-5.88	112.33	118.80
1	A1	1529	C	C6-N1-C2	5.88	122.65	120.30
29	B1	1792	C	N3-C2-O2	5.88	126.02	121.90
29	B1	2355	G	C4-N9-C1'	5.88	134.14	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2358	A	N3-C4-C5	5.88	130.91	126.80
29	B1	2415	C	N3-C4-C5	5.88	124.25	121.90
1	A1	958	U	C5-C4-O4	-5.88	122.37	125.90
2	AA	11	PRO	N-CA-CB	5.88	110.35	103.30
29	B1	220	G	C8-N9-C4	5.88	108.75	106.40
29	B1	3199	G	N3-C4-N9	-5.88	122.47	126.00
29	B1	3314	A	C4-N9-C1'	5.88	136.88	126.30
29	D1	55	G	N1-C6-O6	5.88	123.43	119.90
29	D1	2911	A	C2-N3-C4	-5.88	107.66	110.60
29	D1	3265	C	C2-N1-C1'	5.88	125.26	118.80
45	DP	70	PRO	N-CA-CB	5.88	110.35	103.30
29	B1	2982	A	C4-C5-C6	-5.88	114.06	117.00
1	C1	867	G	N1-C6-O6	-5.88	116.38	119.90
29	D1	2341	A	C8-N9-C4	5.88	108.15	105.80
1	A1	388	G	C8-N9-C4	-5.87	104.05	106.40
29	B1	1751	G	C2-N3-C4	5.87	114.84	111.90
51	BV	15	PRO	N-CA-CB	5.87	110.35	103.30
29	D1	501	A	N1-C2-N3	-5.87	126.36	129.30
29	D1	651	G	C5-C6-O6	-5.87	125.08	128.60
29	D1	746	A	N3-C4-N9	5.87	132.10	127.40
29	D1	1855	U	C2-N1-C1'	5.87	124.75	117.70
29	B1	1367	G	C2-N3-C4	-5.87	108.96	111.90
29	B1	2315	G	N3-C2-N2	-5.87	115.79	119.90
29	D1	94	G	C2-N3-C4	-5.87	108.97	111.90
29	D1	2283	G	C8-N9-C4	-5.87	104.05	106.40
21	AT	287	PRO	N-CA-CB	5.87	110.34	103.30
29	D1	1330	A	N1-C2-N3	5.87	132.24	129.30
2	AA	97	PRO	N-CA-CB	5.87	110.34	103.30
29	B1	958	C	C2-N1-C1'	5.87	125.26	118.80
29	B1	1377	G	N3-C4-C5	-5.87	125.67	128.60
29	B1	2752	U	N3-C2-O2	-5.87	118.09	122.20
29	B1	586	C	N3-C4-N4	5.87	122.11	118.00
29	B1	1405	U	N1-C2-O2	-5.87	118.69	122.80
29	B1	1938	U	C5-C4-O4	5.87	129.42	125.90
1	C1	481	A	C5-C6-N6	5.87	128.39	123.70
1	C1	686	C	N1-C2-O2	-5.87	115.38	118.90
29	D1	594	U	C6-N1-C1'	-5.87	112.99	121.20
29	D1	3235	C	N3-C4-C5	5.87	124.25	121.90
21	CT	287	PRO	N-CA-CB	5.86	110.34	103.30
29	D1	1194	G	N3-C4-C5	-5.86	125.67	128.60
29	D1	3139	A	C5-C6-N6	5.86	128.39	123.70
1	A1	1188	G	C5-C6-O6	-5.86	125.08	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1479	U	C2-N3-C4	-5.86	123.48	127.00
29	D1	3252	G	N1-C6-O6	-5.86	116.38	119.90
29	B1	29	C	C6-N1-C2	5.86	122.64	120.30
29	B1	2390	A	N9-C4-C5	5.86	108.14	105.80
29	B1	2436	U	C5-C4-O4	-5.86	122.38	125.90
29	D1	1303	A	N3-C4-N9	-5.86	122.71	127.40
1	A1	1138	A	N1-C6-N6	-5.86	115.08	118.60
29	B1	1501	U	C6-N1-C2	5.86	124.52	121.00
42	BK	74	PRO	N-CA-CB	5.86	110.33	103.30
29	D1	424	G	C8-N9-C4	-5.86	104.06	106.40
29	B1	742	G	N3-C4-C5	5.86	131.53	128.60
29	B1	1507	G	C5-N7-C8	-5.86	101.37	104.30
29	B1	2131	A	C8-N9-C4	-5.86	103.46	105.80
29	B1	2725	U	C5-C6-N1	5.86	125.63	122.70
29	B1	2811	A	C5-C6-N6	5.86	128.39	123.70
29	D1	969	C	C5-C6-N1	-5.86	118.07	121.00
29	D1	1487	G	N3-C4-C5	-5.86	125.67	128.60
29	D1	2935	U	C4-C5-C6	5.86	123.21	119.70
29	B1	1322	U	N1-C2-O2	-5.86	118.70	122.80
29	B1	2356	A	C8-N9-C4	-5.86	103.46	105.80
29	B1	2707	C	N3-C2-O2	5.86	126.00	121.90
29	B1	3077	A	N7-C8-N9	5.86	116.73	113.80
21	CT	276	PRO	N-CA-CB	5.86	110.33	103.30
29	D1	367	A	C8-N9-C4	5.86	108.14	105.80
29	B1	1931	U	C2-N1-C1'	5.85	124.72	117.70
29	D1	1903	U	N3-C4-O4	5.85	123.50	119.40
1	A1	337	G	N9-C4-C5	-5.85	103.06	105.40
29	B1	512	U	C2-N1-C1'	5.85	124.72	117.70
29	B1	609	G	C5-C6-N1	-5.85	108.57	111.50
29	B1	934	G	N3-C4-C5	-5.85	125.67	128.60
32	BA	59	PRO	N-CA-CB	5.85	110.32	103.30
29	D1	556	U	N3-C2-O2	-5.85	118.10	122.20
54	DY	29	PRO	N-CA-CB	5.85	110.32	103.30
1	A1	402	C	C3'-C2'-C1'	-5.85	96.82	101.50
29	B1	3129	A	N1-C2-N3	-5.85	126.37	129.30
30	B2	85	G	N3-C4-C5	5.85	131.53	128.60
1	C1	1595	U	C5-C6-N1	5.85	125.62	122.70
29	D1	497	C	C2-N3-C4	-5.85	116.97	119.90
29	D1	3089	C	N3-C4-N4	5.85	122.09	118.00
29	D1	3297	U	N1-C2-N3	5.85	118.41	114.90
1	A1	625	C	C2-N1-C1'	5.85	125.23	118.80
29	B1	2780	A	N1-C6-N6	5.85	122.11	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	BI	98	PRO	N-CA-CB	5.85	110.32	103.30
40	BI	175	PHE	N-CA-C	-5.85	95.21	111.00
55	BZ	49	PRO	N-CA-CB	5.85	110.32	103.30
29	B1	752	C	C5-C4-N4	-5.85	116.11	120.20
29	B1	3227	A	N3-C4-C5	5.85	130.89	126.80
21	AT	267	PRO	N-CA-CB	5.84	110.31	103.30
10	CI	87	PRO	N-CA-CB	5.84	110.31	103.30
29	D1	421	G	C6-C5-N7	-5.84	126.89	130.40
29	D1	655	C	C5-C6-N1	-5.84	118.08	121.00
29	B1	1134	G	C4-C5-N7	-5.84	108.46	110.80
29	B1	1551	C	C5-C6-N1	-5.84	118.08	121.00
1	C1	1636	C	C2-N3-C4	-5.84	116.98	119.90
1	A1	1547	A	C4-C5-C6	-5.84	114.08	117.00
29	B1	1233	G	C4-N9-C1'	-5.84	118.91	126.50
29	B1	1898	G	N1-C2-N3	5.84	127.41	123.90
29	B1	1100	U	C6-N1-C2	5.84	124.50	121.00
29	B1	1788	C	C6-N1-C1'	-5.84	113.79	120.80
29	B1	2123	G	N1-C6-O6	-5.84	116.40	119.90
29	B1	3037	U	C5-C6-N1	-5.84	119.78	122.70
29	B1	3099	C	C6-N1-C1'	-5.84	113.79	120.80
29	B1	3215	A	N7-C8-N9	5.84	116.72	113.80
29	B1	3323	A	C5-C6-N1	-5.84	114.78	117.70
29	D1	2289	U	C6-N1-C2	5.84	124.50	121.00
29	D1	2865	U	N1-C2-O2	-5.84	118.71	122.80
29	B1	577	C	C2-N3-C4	5.84	122.82	119.90
29	B1	1134	G	N9-C4-C5	5.84	107.73	105.40
29	B1	2362	C	N3-C4-C5	-5.84	119.57	121.90
29	B1	2930	A	C5-C6-N6	-5.84	119.03	123.70
29	D1	149	U	C2-N1-C1'	5.84	124.70	117.70
29	D1	352	A	N7-C8-N9	-5.84	110.88	113.80
29	D1	2355	G	C6-C5-N7	-5.84	126.90	130.40
41	DJ	179	PRO	N-CA-CB	5.84	110.30	103.30
37	BF	36	PRO	N-CA-CB	5.83	110.30	103.30
29	D1	120	G	C4-N9-C1'	-5.83	118.92	126.50
29	B1	26	A	N9-C4-C5	5.83	108.13	105.80
29	B1	222	A	N9-C4-C5	-5.83	103.47	105.80
29	B1	608	A	C4-C5-N7	5.83	113.62	110.70
31	B3	34	U	N1-C2-N3	5.83	118.40	114.90
32	DA	212	PRO	N-CA-CB	5.83	110.30	103.30
29	B1	787	G	C8-N9-C4	-5.83	104.07	106.40
29	B1	3170	A	C5-C6-N6	5.83	128.37	123.70
39	DH	127	PRO	N-CA-CB	5.83	110.30	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	714	G	C4-C5-N7	5.83	113.13	110.80
1	C1	332	U	N1-C2-N3	5.83	118.40	114.90
29	D1	640	U	N3-C2-O2	5.83	126.28	122.20
29	B1	1177	G	C5-C6-O6	-5.83	125.10	128.60
29	B1	1314	C	N1-C2-O2	5.83	122.40	118.90
29	B1	1772	U	C2-N1-C1'	-5.83	110.71	117.70
32	BA	212	PRO	N-CA-CB	5.83	110.30	103.30
29	D1	2693	C	C2-N1-C1'	5.83	125.21	118.80
29	D1	2918	G	N3-C4-C5	-5.83	125.69	128.60
29	D1	3197	G	C8-N9-C4	5.83	108.73	106.40
29	B1	3307	A	N1-C6-N6	5.83	122.10	118.60
2	AA	4	PRO	N-CA-CB	5.83	110.29	103.30
5	AD	142	PRO	N-CA-CB	5.83	110.29	103.30
29	B1	354	U	C2-N1-C1'	5.83	124.69	117.70
29	B1	860	G	C6-C5-N7	-5.83	126.91	130.40
29	B1	1868	G	C5-C6-N1	-5.83	108.59	111.50
29	B1	2355	G	C4-C5-C6	5.83	122.30	118.80
29	D1	70	A	C8-N9-C4	-5.83	103.47	105.80
29	D1	584	G	C8-N9-C4	5.83	108.73	106.40
29	D1	2935	U	C2-N1-C1'	-5.83	110.71	117.70
29	B1	800	G	C8-N9-C4	5.82	108.73	106.40
29	B1	1296	C	N1-C2-O2	-5.82	115.41	118.90
31	B3	108	C	C6-N1-C2	5.82	122.63	120.30
35	BD	29	PRO	N-CA-CB	5.82	110.29	103.30
29	D1	146	U	C2-N1-C1'	5.82	124.69	117.70
29	D1	3052	G	N3-C2-N2	5.82	123.98	119.90
5	CD	142	PRO	N-CA-CB	5.82	110.29	103.30
29	D1	1064	A	C2-N3-C4	5.82	113.51	110.60
29	B1	299	G	C5-C6-N1	-5.82	108.59	111.50
29	B1	676	G	C4-C5-C6	5.82	122.29	118.80
29	B1	2935	U	C4-C5-C6	5.82	123.19	119.70
29	B1	3078	U	N1-C2-N3	-5.82	111.41	114.90
54	BY	71	PRO	N-CA-CB	5.82	110.28	103.30
1	C1	58	U	C5-C6-N1	5.82	125.61	122.70
3	CB	236	PRO	N-CA-CB	5.82	110.29	103.30
29	D1	594	U	N3-C4-C5	5.82	118.09	114.60
29	D1	3220	G	N3-C4-N9	5.82	129.49	126.00
29	B1	1196	C	C4-C5-C6	5.82	120.31	117.40
29	B1	3224	G	C4-C5-N7	-5.82	108.47	110.80
29	B1	3380	U	C2-N1-C1'	-5.82	110.72	117.70
29	B1	137	G	N3-C4-N9	5.82	129.49	126.00
29	B1	2669	G	C8-N9-C1'	-5.82	119.44	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	B2	66	A	N3-C4-N9	-5.82	122.75	127.40
29	D1	3194	C	N1-C2-O2	-5.82	115.41	118.90
40	DI	175	PHE	N-CA-C	-5.82	95.29	111.00
1	A1	1639	C	N1-C2-N3	-5.82	115.13	119.20
31	B3	14	C	N1-C2-O2	-5.82	115.41	118.90
29	D1	2854	U	N3-C2-O2	-5.82	118.13	122.20
29	B1	1111	U	C5-C6-N1	-5.81	119.79	122.70
29	D1	1091	A	C6-N1-C2	-5.81	115.11	118.60
29	D1	3272	C	C5-C4-N4	-5.81	116.13	120.20
29	B1	804	C	N1-C2-O2	-5.81	115.41	118.90
29	B1	2693	C	C2-N1-C1'	5.81	125.19	118.80
29	B1	2750	U	C5-C6-N1	-5.81	119.79	122.70
29	D1	2827	U	C2-N1-C1'	5.81	124.67	117.70
29	B1	1855	U	N3-C2-O2	-5.81	118.13	122.20
29	B1	2585	G	C5-C6-O6	-5.81	125.11	128.60
29	D1	592	A	C8-N9-C4	-5.81	103.48	105.80
29	D1	1547	G	C4-C5-N7	5.81	113.12	110.80
29	D1	2950	G	C6-C5-N7	-5.81	126.92	130.40
32	DA	56	PRO	N-CA-CB	5.81	110.27	103.30
32	DA	59	PRO	N-CA-CB	5.81	110.27	103.30
32	DA	135	PRO	N-CA-CB	5.81	110.27	103.30
46	BQ	59	PRO	N-CA-CB	5.81	110.27	103.30
1	C1	1498	G	N3-C4-N9	5.81	129.48	126.00
29	D1	420	G	C8-N9-C4	5.81	108.72	106.40
29	D1	1186	G	N7-C8-N9	5.81	116.00	113.10
29	B1	1855	U	C2-N1-C1'	5.80	124.67	117.70
29	D1	926	A	N1-C6-N6	-5.80	115.12	118.60
29	D1	2127	U	N3-C2-O2	5.80	126.26	122.20
29	D1	2895	G	C5-C6-O6	5.80	132.08	128.60
29	D1	3059	G	C6-C5-N7	-5.80	126.92	130.40
46	DQ	59	PRO	N-CA-CB	5.80	110.27	103.30
29	B1	719	U	N1-C2-N3	-5.80	111.42	114.90
44	BO	137	PRO	N-CA-CB	5.80	110.26	103.30
29	D1	884	A	C8-N9-C4	5.80	108.12	105.80
29	B1	1288	U	C5-C4-O4	-5.80	122.42	125.90
29	B1	1891	A	N1-C6-N6	5.80	122.08	118.60
29	D1	2369	G	C4-C5-N7	-5.80	108.48	110.80
29	D1	2599	U	N1-C2-O2	-5.80	118.74	122.80
29	D1	3342	A	N1-C6-N6	-5.80	115.12	118.60
29	D1	754	G	N3-C4-C5	5.80	131.50	128.60
29	D1	1140	G	N1-C2-N3	5.80	127.38	123.90
29	D1	2380	U	C2-N3-C4	-5.80	123.52	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	Db	5	PRO	N-CA-CB	5.80	110.26	103.30
29	D1	2354	C	N3-C4-C5	-5.80	119.58	121.90
29	D1	3244	A	C6-C5-N7	5.80	136.36	132.30
1	A1	63	G	N3-C2-N2	-5.80	115.84	119.90
8	AG	47	PRO	N-CA-CB	5.80	110.25	103.30
1	C1	305	C	N1-C2-O2	-5.80	115.42	118.90
1	C1	378	A	C2-N3-C4	5.80	113.50	110.60
29	D1	3026	G	N3-C4-C5	5.80	131.50	128.60
1	A1	1373	C	N1-C2-O2	-5.79	115.42	118.90
29	B1	1405	U	N3-C2-O2	5.79	126.25	122.20
29	B1	3002	C	N3-C4-C5	5.79	124.22	121.90
29	B1	3002	C	C6-N1-C2	5.79	122.62	120.30
29	B1	3277	U	C5-C6-N1	5.79	125.60	122.70
30	B2	112	G	C2-N3-C4	5.79	114.80	111.90
29	D1	2416	U	N1-C2-O2	-5.79	118.74	122.80
29	B1	1751	G	N9-C4-C5	5.79	107.72	105.40
29	B1	2187	G	N9-C4-C5	5.79	107.72	105.40
29	B1	971	G	N1-C6-O6	-5.79	116.43	119.90
29	B1	1380	G	N1-C6-O6	5.79	123.37	119.90
29	B1	2392	C	C6-N1-C2	5.79	122.62	120.30
29	B1	3018	C	N1-C2-O2	-5.79	115.43	118.90
8	CG	136	PRO	N-CA-CB	5.79	110.25	103.30
10	CI	38	PRO	N-CA-CB	5.79	110.25	103.30
29	D1	994	G	N3-C2-N2	5.79	123.95	119.90
29	D1	2667	A	C4-C5-C6	-5.79	114.11	117.00
39	DH	159	PRO	N-CA-CB	5.79	110.25	103.30
1	A1	847	A	C5-C6-N6	-5.79	119.07	123.70
29	B1	435	C	C2-N3-C4	-5.79	117.01	119.90
29	B1	624	G	C8-N9-C1'	-5.79	119.48	127.00
29	B1	992	A	N9-C4-C5	5.79	108.12	105.80
29	B1	1207	G	N1-C6-O6	5.79	123.37	119.90
29	B1	1477	A	C6-N1-C2	5.79	122.07	118.60
43	BN	48	GLY	N-CA-C	-5.79	98.63	113.10
29	D1	284	A	C5-C6-N1	5.79	120.59	117.70
29	D1	703	G	C8-N9-C1'	5.79	134.53	127.00
29	D1	837	A	C4-C5-N7	5.79	113.59	110.70
29	D1	1220	U	N1-C1'-C2'	-5.79	105.63	112.00
31	D3	50	C	N1-C2-O2	-5.79	115.43	118.90
1	A1	888	U	C2-N1-C1'	5.79	124.64	117.70
1	A1	1418	G	N1-C6-O6	5.79	123.37	119.90
29	B1	1335	C	C2-N3-C4	-5.79	117.01	119.90
29	B1	2303	A	N9-C4-C5	-5.79	103.48	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2385	G	C6-C5-N7	-5.79	126.93	130.40
41	BJ	18	PRO	N-CA-CB	5.79	110.25	103.30
1	A1	993	A	C4-C5-N7	-5.79	107.81	110.70
1	A1	1274	C	C6-N1-C2	-5.79	117.99	120.30
29	B1	1331	U	N1-C2-N3	5.79	118.37	114.90
29	B1	1444	G	C8-N9-C4	-5.79	104.09	106.40
29	B1	2325	G	C4-C5-N7	5.79	113.11	110.80
59	Bd	40	PRO	N-CA-CB	5.79	110.24	103.30
1	C1	1276	U	N1-C2-O2	-5.79	118.75	122.80
29	D1	76	G	C4-C5-N7	-5.79	108.49	110.80
29	D1	644	G	C5-C6-N1	-5.79	108.61	111.50
29	D1	2138	A	N1-C2-N3	5.79	132.19	129.30
36	DE	251	PRO	N-CA-CB	5.79	110.24	103.30
39	DH	176	PRO	N-CA-CB	5.79	110.24	103.30
1	A1	1438	G	C8-N9-C1'	-5.78	119.48	127.00
1	A1	1638	G	C2-N3-C4	-5.78	109.01	111.90
3	AB	236	PRO	N-CA-CB	5.78	110.24	103.30
29	B1	334	A	N7-C8-N9	-5.78	110.91	113.80
29	B1	1204	A	N1-C6-N6	5.78	122.07	118.60
1	C1	1602	C	C6-N1-C1'	-5.78	113.86	120.80
33	DB	197	PRO	N-CA-CB	5.78	110.24	103.30
40	DI	13	PRO	N-CA-CB	5.78	110.24	103.30
29	B1	389	A	N1-C2-N3	-5.78	126.41	129.30
29	B1	510	G	N1-C6-O6	5.78	123.37	119.90
1	C1	1033	C	N1-C2-O2	-5.78	115.43	118.90
29	B1	1175	C	C2-N1-C1'	-5.78	112.44	118.80
29	B1	2201	G	C5-C6-O6	-5.78	125.13	128.60
31	B3	53	A	C4-C5-C6	-5.78	114.11	117.00
1	C1	1198	G	C8-N9-C4	-5.78	104.09	106.40
29	D1	2810	C	N3-C4-N4	5.78	122.05	118.00
14	AM	2	PRO	N-CA-CB	5.78	110.23	103.30
29	B1	1373	A	C5-C6-N6	-5.78	119.08	123.70
62	Bg	12	GLY	N-CA-C	-5.78	98.65	113.10
1	C1	437	A	C6-C5-N7	-5.78	128.25	132.30
1	C1	629	U	N1-C2-O2	5.78	126.84	122.80
1	C1	1179	G	N9-C4-C5	-5.78	103.09	105.40
29	D1	2668	U	C6-N1-C2	-5.78	117.53	121.00
1	A1	437	A	N3-C4-N9	5.78	132.02	127.40
29	B1	75	G	C5-C6-N1	-5.78	108.61	111.50
29	B1	2970	C	C2-N1-C1'	5.78	125.16	118.80
29	B1	3244	A	N1-C2-N3	-5.78	126.41	129.30
29	D1	1453	A	C8-N9-C4	-5.78	103.49	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3084	C	C2-N1-C1'	5.78	125.15	118.80
29	B1	2609	A	C8-N9-C4	-5.78	103.49	105.80
29	B1	2883	U	C2-N3-C4	-5.78	123.53	127.00
1	C1	86	A	C5-C6-N1	-5.78	114.81	117.70
1	C1	348	U	N3-C2-O2	5.78	126.24	122.20
29	D1	528	U	N1-C2-O2	5.78	126.84	122.80
29	D1	1420	C	C5-C6-N1	-5.78	118.11	121.00
29	D1	3050	U	N3-C2-O2	-5.78	118.16	122.20
31	D3	42	G	N3-C4-C5	5.78	131.49	128.60
57	Bb	5	PRO	N-CA-CB	5.77	110.23	103.30
1	A1	597	G	C4-C5-N7	5.77	113.11	110.80
1	C1	400	A	N7-C8-N9	-5.77	110.91	113.80
29	D1	1002	A	N1-C6-N6	-5.77	115.14	118.60
29	D1	2343	C	N1-C2-O2	-5.77	115.44	118.90
29	B1	327	A	C2-N3-C4	-5.77	107.72	110.60
29	D1	529	A	C8-N9-C4	5.77	108.11	105.80
29	D1	1203	A	C8-N9-C4	-5.77	103.49	105.80
1	C1	1416	G	N1-C6-O6	5.77	123.36	119.90
1	C1	1540	G	C8-N9-C4	-5.77	104.09	106.40
8	CG	137	PRO	N-CA-CB	5.77	110.22	103.30
29	D1	595	G	C4-C5-N7	5.77	113.11	110.80
1	A1	792	U	C2-N1-C1'	5.77	124.62	117.70
2	AA	207	PRO	N-CA-CB	5.77	110.22	103.30
29	B1	1788	C	C2-N1-C1'	5.77	125.14	118.80
30	D2	92	A	N7-C8-N9	-5.77	110.92	113.80
29	B1	2988	C	N1-C2-O2	5.77	122.36	118.90
29	B1	3342	A	C6-N1-C2	-5.77	115.14	118.60
1	A1	1788	G	N3-C2-N2	-5.76	115.86	119.90
29	D1	2662	G	C6-C5-N7	-5.76	126.94	130.40
29	B1	3047	U	C5-C6-N1	-5.76	119.82	122.70
1	C1	8	U	N3-C4-O4	5.76	123.43	119.40
29	D1	1147	G	C5-C6-O6	-5.76	125.14	128.60
29	D1	3012	A	N1-C6-N6	-5.76	115.14	118.60
1	A1	1437	U	C5-C6-N1	-5.76	119.82	122.70
10	AI	109	PRO	N-CA-CB	5.76	110.21	103.30
29	B1	2134	G	C4-C5-N7	5.76	113.11	110.80
29	B1	2151	C	C5-C4-N4	-5.76	116.17	120.20
29	B1	2664	C	N1-C2-O2	5.76	122.36	118.90
29	D1	1063	G	C4-N9-C1'	-5.76	119.01	126.50
72	DL	34	PRO	N-CA-CB	5.76	110.22	103.30
29	B1	729	C	N1-C2-O2	5.76	122.36	118.90
29	B1	2330	C	N1-C2-O2	-5.76	115.44	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2702	A	C8-N9-C4	-5.76	103.50	105.80
31	B3	42	G	N3-C4-N9	-5.76	122.54	126.00
29	D1	1294	A	C5-C6-N1	5.76	120.58	117.70
29	D1	3060	C	N1-C2-O2	-5.76	115.44	118.90
29	B1	402	A	C5-C6-N1	-5.76	114.82	117.70
29	B1	431	U	N3-C4-C5	5.76	118.05	114.60
29	B1	963	G	N7-C8-N9	5.76	115.98	113.10
29	D1	1126	G	N9-C4-C5	5.76	107.70	105.40
29	D1	2414	G	C6-N1-C2	5.76	128.55	125.10
29	D1	2636	A	C6-N1-C2	-5.76	115.15	118.60
31	D3	117	C	N1-C2-O2	-5.76	115.45	118.90
29	B1	2892	A	C5-C6-N6	-5.75	119.10	123.70
17	AP	88	PRO	N-CA-CB	5.75	110.20	103.30
29	B1	3242	G	N1-C6-O6	-5.75	116.45	119.90
1	C1	62	A	N3-C4-N9	-5.75	122.80	127.40
5	CD	164	PRO	N-CA-CB	5.75	110.20	103.30
29	D1	832	G	N1-C6-O6	5.75	123.35	119.90
29	D1	837	A	N7-C8-N9	5.75	116.68	113.80
29	D1	1753	G	C8-N9-C4	5.75	108.70	106.40
1	A1	1303	U	C2-N1-C1'	-5.75	110.80	117.70
29	B1	950	G	N1-C6-O6	-5.75	116.45	119.90
1	C1	88	U	C5-C4-O4	5.75	129.35	125.90
29	D1	648	C	C5-C6-N1	-5.75	118.12	121.00
29	D1	956	U	C5-C6-N1	-5.75	119.82	122.70
29	D1	3035	A	C5-C6-N6	-5.75	119.10	123.70
29	D1	3096	C	N3-C2-O2	5.75	125.93	121.90
29	B1	2776	C	C2-N1-C1'	5.75	125.12	118.80
2	CA	207	PRO	N-CA-CB	5.75	110.20	103.30
29	B1	1005	G	N9-C4-C5	5.75	107.70	105.40
29	B1	2662	G	C8-N9-C4	5.75	108.70	106.40
39	BH	127	PRO	N-CA-CB	5.75	110.20	103.30
29	D1	3178	A	C2-N3-C4	-5.75	107.73	110.60
57	Db	122	PRO	N-CA-CB	5.75	110.20	103.30
1	A1	373	G	C2-N3-C4	-5.75	109.03	111.90
1	A1	610	G	C5-C6-N1	-5.75	108.63	111.50
21	AT	57	PRO	N-CA-CB	5.75	110.20	103.30
29	B1	934	G	C8-N9-C4	-5.75	104.10	106.40
29	B1	2981	U	C5-C4-O4	-5.75	122.45	125.90
1	C1	1459	C	C6-N1-C2	5.75	122.60	120.30
29	D1	371	G	N9-C4-C5	-5.75	103.10	105.40
29	D1	914	A	C2-N3-C4	5.75	113.47	110.60
29	D1	1113	G	N1-C6-O6	5.75	123.35	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1931	U	C2-N1-C1'	5.75	124.60	117.70
29	D1	3212	C	C4-C5-C6	5.75	120.27	117.40
29	B1	2395	G	N9-C4-C5	5.75	107.70	105.40
29	D1	675	C	C5-C6-N1	5.75	123.87	121.00
30	D2	112	G	C5-C6-N1	5.75	114.37	111.50
1	A1	24	U	C5-C4-O4	-5.74	122.45	125.90
1	A1	1421	A	N9-C4-C5	5.74	108.10	105.80
29	B1	1476	G	N1-C2-N3	5.74	127.35	123.90
29	B1	2689	A	N3-C4-C5	-5.74	122.78	126.80
29	D1	2283	G	C5-C6-N1	-5.74	108.63	111.50
29	B1	335	G	N3-C2-N2	-5.74	115.88	119.90
29	B1	2283	G	N1-C2-N2	5.74	121.37	116.20
31	B3	113	U	O4'-C1'-N1	5.74	112.79	108.20
1	C1	1541	G	N1-C2-N3	5.74	127.34	123.90
29	B1	2185	G	C8-N9-C4	5.74	108.70	106.40
37	BF	153	PRO	N-CA-CB	5.74	110.19	103.30
72	DL	39	PRO	N-CA-CB	5.74	110.19	103.30
29	B1	1891	A	C4-C5-N7	5.74	113.57	110.70
29	B1	2600	C	N1-C2-O2	-5.74	115.46	118.90
1	C1	1535	U	C2-N1-C1'	5.74	124.58	117.70
14	CM	31	PRO	N-CA-CB	5.74	110.19	103.30
29	D1	617	G	C5-C6-N1	5.74	114.37	111.50
29	D1	2338	C	C2-N3-C4	-5.74	117.03	119.90
52	DW	118	GLY	N-CA-C	-5.74	98.75	113.10
1	A1	647	G	C4-N9-C1'	5.74	133.96	126.50
1	C1	1645	G	C8-N9-C4	-5.74	104.11	106.40
29	D1	1005	G	N9-C4-C5	5.74	107.69	105.40
29	D1	1139	G	N3-C4-N9	-5.74	122.56	126.00
29	D1	2940	A	C5-C6-N1	5.74	120.57	117.70
42	DK	74	PRO	N-CA-CB	5.74	110.18	103.30
29	B1	2241	U	C6-N1-C1'	5.74	129.23	121.20
1	C1	968	U	N3-C2-O2	-5.74	118.19	122.20
29	D1	1380	G	C2-N3-C4	-5.74	109.03	111.90
29	B1	3213	A	C5-N7-C8	-5.73	101.03	103.90
29	D1	1001	G	N7-C8-N9	5.73	115.97	113.10
42	DK	45	PRO	N-CA-CB	5.73	110.18	103.30
29	B1	1585	C	N3-C2-O2	5.73	125.91	121.90
29	B1	2369	G	C2-N3-C4	-5.73	109.03	111.90
30	B2	65	G	N3-C4-C5	-5.73	125.73	128.60
29	D1	1307	G	C4-N9-C1'	5.73	133.95	126.50
29	D1	1402	C	C5-C6-N1	-5.73	118.13	121.00
29	D1	2632	G	N1-C6-O6	5.73	123.34	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2701	U	N3-C4-O4	5.73	123.41	119.40
29	B1	1188	U	C6-N1-C1'	5.73	129.22	121.20
29	B1	1371	G	C6-C5-N7	-5.73	126.96	130.40
29	B1	2696	A	C8-N9-C4	-5.73	103.51	105.80
29	B1	2774	C	C6-N1-C2	-5.73	118.01	120.30
29	B1	2810	C	C6-N1-C2	5.73	122.59	120.30
5	CD	67	PRO	N-CA-CB	5.73	110.18	103.30
1	A1	1109	G	N9-C4-C5	-5.73	103.11	105.40
29	B1	1439	U	C5-C6-N1	-5.73	119.83	122.70
29	B1	2896	A	N1-C2-N3	5.73	132.16	129.30
29	D1	1185	C	C5-C6-N1	-5.73	118.14	121.00
29	B1	2756	C	N1-C2-N3	5.73	123.21	119.20
41	BJ	122	PRO	N-CA-CB	5.73	110.17	103.30
1	C1	114	C	C6-N1-C1'	-5.73	113.93	120.80
1	C1	1634	C	C2-N3-C4	5.73	122.76	119.90
29	D1	1305	U	C5-C6-N1	-5.73	119.84	122.70
30	D2	4	U	N1-C2-O2	5.73	126.81	122.80
29	B1	725	G	C4-C5-N7	-5.73	108.51	110.80
29	B1	1489	A	N1-C6-N6	-5.73	115.16	118.60
29	B1	2700	G	C4-C5-N7	5.73	113.09	110.80
29	D1	1703	U	C6-N1-C2	-5.73	117.56	121.00
1	A1	1602	C	C2-N1-C1'	5.72	125.10	118.80
15	AN	110	PRO	N-CA-CB	5.72	110.17	103.30
29	B1	886	C	C2-N3-C4	-5.72	117.04	119.90
29	B1	1825	G	N9-C4-C5	5.72	107.69	105.40
29	B1	2290	C	N3-C4-C5	5.72	124.19	121.90
29	B1	2883	U	C5-C6-N1	-5.72	119.84	122.70
29	B1	3257	C	N3-C2-O2	5.72	125.91	121.90
1	C1	1110	G	C5-C6-O6	5.72	132.03	128.60
29	D1	299	G	N1-C6-O6	5.72	123.33	119.90
29	D1	880	G	C8-N9-C1'	5.72	134.44	127.00
31	D3	16	G	C6-C5-N7	-5.72	126.97	130.40
35	DD	102	PRO	N-CA-CB	5.72	110.17	103.30
29	B1	668	G	N9-C4-C5	-5.72	103.11	105.40
29	B1	1425	U	C6-N1-C2	5.72	124.43	121.00
29	B1	1429	G	C8-N9-C1'	-5.72	119.56	127.00
29	D1	720	A	C8-N9-C4	-5.72	103.51	105.80
29	D1	2928	C	C5-C4-N4	-5.72	116.19	120.20
29	B1	1376	C	C2-N3-C4	-5.72	117.04	119.90
29	B1	1888	U	N1-C2-N3	5.72	118.33	114.90
29	B1	2302	G	N3-C4-N9	-5.72	122.57	126.00
29	B1	3046	A	C8-N9-C4	-5.72	103.51	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2913	C	N3-C4-N4	-5.72	114.00	118.00
32	DA	121	PRO	N-CA-CB	5.72	110.16	103.30
29	B1	2639	G	C6-C5-N7	-5.72	126.97	130.40
29	D1	995	U	N3-C2-O2	5.72	126.20	122.20
29	D1	1476	G	C6-N1-C2	-5.72	121.67	125.10
29	B1	7	C	N3-C2-O2	-5.72	117.90	121.90
29	B1	793	C	C6-N1-C1'	-5.72	113.94	120.80
29	B1	1840	U	C5-C4-O4	5.72	129.33	125.90
1	C1	1631	A	C4-C5-C6	-5.72	114.14	117.00
29	D1	953	G	C5-N7-C8	-5.72	101.44	104.30
29	D1	1422	G	C5-C6-N1	-5.72	108.64	111.50
29	D1	2560	C	C5-C6-N1	5.72	123.86	121.00
29	D1	3205	G	C5-C6-O6	5.72	132.03	128.60
38	DG	217	PRO	N-CA-CB	5.72	110.16	103.30
29	B1	524	U	N3-C4-O4	-5.71	115.40	119.40
29	D1	70	A	N3-C4-C5	-5.71	122.80	126.80
29	D1	1184	A	C5-C6-N6	5.71	128.27	123.70
29	D1	3173	G	N3-C4-N9	-5.71	122.57	126.00
1	C1	1637	C	C6-N1-C2	-5.71	118.02	120.30
29	D1	429	U	C4-C5-C6	5.71	123.13	119.70
29	B1	171	G	C4-N9-C1'	5.71	133.93	126.50
29	B1	747	A	C5-C6-N6	-5.71	119.13	123.70
1	C1	481	A	C6-N1-C2	5.71	122.03	118.60
1	C1	1028	C	C2-N3-C4	-5.71	117.05	119.90
29	D1	985	U	N1-C2-O2	-5.71	118.80	122.80
29	D1	3244	A	C5-C6-N1	5.71	120.56	117.70
5	AD	129	PRO	N-CA-CB	5.71	110.15	103.30
29	B1	826	G	C8-N9-C4	5.71	108.68	106.40
29	D1	3225	C	C6-N1-C2	-5.71	118.02	120.30
29	B1	48	A	C8-N9-C4	5.71	108.08	105.80
29	B1	434	U	N3-C2-O2	5.71	126.20	122.20
29	B1	557	A	N1-C6-N6	5.71	122.03	118.60
29	B1	1171	G	N9-C4-C5	5.71	107.68	105.40
29	B1	2639	G	C5-C6-O6	-5.71	125.17	128.60
1	C1	337	G	N1-C6-O6	5.71	123.33	119.90
34	BC	5	LYS	N-CA-C	-5.71	95.59	111.00
1	C1	374	U	C2-N1-C1'	5.71	124.55	117.70
1	C1	1745	G	N3-C4-N9	5.71	129.42	126.00
29	D1	750	G	C4-C5-N7	-5.71	108.52	110.80
29	D1	1432	C	C6-N1-C1'	-5.71	113.95	120.80
29	D1	2607	G	C8-N9-C1'	-5.71	119.58	127.00
29	D1	2702	A	N1-C2-N3	5.71	132.15	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	304	G	N3-C4-N9	5.71	129.42	126.00
29	B1	832	G	C6-C5-N7	-5.71	126.98	130.40
29	B1	2977	G	C6-C5-N7	-5.71	126.98	130.40
29	B1	3233	C	C2-N1-C1'	5.71	125.08	118.80
29	D1	2687	G	N3-C4-N9	5.71	129.42	126.00
1	A1	1138	A	N9-C4-C5	5.70	108.08	105.80
29	B1	693	A	C8-N9-C1'	-5.70	117.43	127.70
29	B1	3274	A	N9-C4-C5	-5.70	103.52	105.80
1	C1	45	U	C2-N3-C4	-5.70	123.58	127.00
1	C1	1513	G	N9-C4-C5	5.70	107.68	105.40
29	D1	257	U	C6-N1-C1'	-5.70	113.21	121.20
29	B1	779	G	C8-N9-C1'	-5.70	119.59	127.00
29	B1	1307	G	C4-N9-C1'	5.70	133.91	126.50
1	A1	880	C	C6-N1-C2	5.70	122.58	120.30
29	B1	1002	A	C5-C6-N1	5.70	120.55	117.70
29	B1	1333	C	C2-N3-C4	-5.70	117.05	119.90
30	B2	66	A	N1-C6-N6	-5.70	115.18	118.60
48	BS	26	PRO	N-CA-CB	5.70	110.14	103.30
29	D1	299	G	C4-N9-C1'	5.70	133.91	126.50
29	D1	687	U	C5-C6-N1	-5.70	119.85	122.70
29	D1	1207	G	C5-N7-C8	-5.70	101.45	104.30
29	D1	2150	G	C4-C5-N7	-5.70	108.52	110.80
29	D1	3386	G	C8-N9-C4	-5.70	104.12	106.40
1	A1	374	U	C6-N1-C1'	-5.70	113.22	121.20
1	A1	1673	G	C6-N1-C2	-5.70	121.68	125.10
29	B1	421	G	C8-N9-C1'	-5.70	119.59	127.00
29	B1	2355	G	N1-C6-O6	5.70	123.32	119.90
29	B1	2396	G	C4-N9-C1'	5.70	133.91	126.50
29	B1	2939	G	C4-N9-C1'	5.70	133.91	126.50
29	B1	3220	G	C8-N9-C1'	-5.70	119.59	127.00
1	C1	968	U	N1-C2-O2	5.70	126.79	122.80
29	D1	571	U	C5-C6-N1	-5.70	119.85	122.70
29	D1	1058	U	C6-N1-C2	5.70	124.42	121.00
29	D1	1608	C	C2-N1-C1'	5.70	125.07	118.80
29	D1	2901	G	C5-C6-O6	-5.70	125.18	128.60
29	D1	3371	G	C4-C5-N7	5.70	113.08	110.80
29	B1	1586	G	N1-C6-O6	-5.70	116.48	119.90
29	B1	2134	G	N1-C6-O6	5.70	123.32	119.90
29	D1	3205	G	C6-N1-C2	-5.70	121.68	125.10
29	B1	2605	G	C4-C5-N7	5.69	113.08	110.80
29	D1	1483	G	N1-C6-O6	-5.69	116.48	119.90
29	B1	220	G	C6-C5-N7	-5.69	126.98	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	366	A	C2-N3-C4	-5.69	107.75	110.60
29	B1	3377	G	C8-N9-C4	-5.69	104.12	106.40
1	C1	1348	A	C3'-C2'-C1'	-5.69	96.95	101.50
29	D1	432	G	N1-C6-O6	5.69	123.32	119.90
29	D1	2302	G	N3-C4-N9	-5.69	122.58	126.00
29	D1	3190	C	N3-C2-O2	-5.69	117.92	121.90
29	B1	3329	U	N3-C2-O2	-5.69	118.22	122.20
31	B3	68	G	N3-C4-C5	5.69	131.45	128.60
29	D1	2679	A	N9-C4-C5	-5.69	103.52	105.80
29	D1	3048	A	C8-N9-C4	-5.69	103.52	105.80
29	D1	580	C	C2-N1-C1'	5.69	125.06	118.80
1	A1	1638	G	N1-C2-N3	5.69	127.31	123.90
2	AA	199	PRO	N-CA-CB	5.69	110.12	103.30
29	B1	1499	C	N3-C2-O2	5.69	125.88	121.90
29	B1	2339	C	C2-N1-C1'	5.69	125.06	118.80
21	CT	158	PRO	N-CA-CB	5.69	110.12	103.30
29	D1	1152	G	C2-N3-C4	-5.69	109.06	111.90
56	Da	88	PRO	N-CA-CB	5.69	110.12	103.30
29	D1	992	A	C8-N9-C4	-5.69	103.53	105.80
29	D1	1470	U	C5-C4-O4	-5.69	122.49	125.90
29	D1	2296	A	N1-C2-N3	5.69	132.14	129.30
29	D1	2899	C	C5-C6-N1	5.69	123.84	121.00
29	B1	529	A	N3-C4-C5	5.68	130.78	126.80
29	B1	687	U	N3-C4-O4	-5.68	115.42	119.40
29	B1	1111	U	N1-C2-O2	-5.68	118.82	122.80
48	BS	90	PRO	N-CA-CB	5.68	110.12	103.30
1	C1	1072	C	C2-N1-C1'	5.68	125.05	118.80
3	CB	234	PRO	N-CA-CB	5.68	110.12	103.30
29	D1	626	U	C2-N1-C1'	5.68	124.52	117.70
29	D1	2907	G	C8-N9-C1'	5.68	134.39	127.00
1	A1	1520	U	N3-C2-O2	5.68	126.18	122.20
29	B1	389	A	C6-C5-N7	5.68	136.28	132.30
29	B1	2248	C	N3-C2-O2	5.68	125.88	121.90
30	B2	35	C	C2-N1-C1'	5.68	125.05	118.80
1	C1	300	A	N1-C6-N6	-5.68	115.19	118.60
29	D1	1152	G	C5-N7-C8	-5.68	101.46	104.30
29	D1	2353	G	N1-C6-O6	5.68	123.31	119.90
29	D1	2885	C	N3-C4-C5	5.68	124.17	121.90
29	B1	52	A	N7-C8-N9	5.68	116.64	113.80
1	C1	1745	G	N3-C2-N2	5.68	123.88	119.90
29	D1	1585	C	N3-C2-O2	5.68	125.88	121.90
29	B1	1216	C	N1-C2-O2	-5.68	115.49	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3300	U	C6-N1-C1'	5.68	129.15	121.20
29	B1	3314	A	N7-C8-N9	5.68	116.64	113.80
29	D1	676	G	C4-C5-C6	5.68	122.21	118.80
29	D1	1377	G	N3-C4-C5	-5.68	125.76	128.60
1	A1	358	U	C6-N1-C1'	-5.68	113.25	121.20
29	B1	311	C	N3-C4-C5	5.68	124.17	121.90
29	B1	439	C	C2-N1-C1'	5.68	125.05	118.80
29	B1	504	A	C4-C5-C6	5.68	119.84	117.00
29	B1	577	C	C5-C6-N1	5.68	123.84	121.00
1	A1	592	A	C6-N1-C2	5.68	122.01	118.60
3	AB	227	PRO	N-CA-CB	5.68	110.11	103.30
14	AM	31	PRO	N-CA-CB	5.68	110.11	103.30
29	B1	2602	G	N7-C8-N9	-5.68	110.26	113.10
53	BX	101	PRO	N-CA-CB	5.68	110.11	103.30
21	CT	30	PRO	N-CA-CB	5.68	110.11	103.30
29	D1	389	A	C5-C6-N1	-5.68	114.86	117.70
29	D1	411	U	N3-C2-O2	5.68	126.17	122.20
33	DB	151	PRO	N-CA-CB	5.68	110.11	103.30
1	A1	1549	C	N1-C2-O2	-5.67	115.50	118.90
29	B1	283	G	C4-C5-N7	5.67	113.07	110.80
29	B1	531	G	N3-C4-C5	5.67	131.44	128.60
29	B1	1945	A	C5-C6-N1	5.67	120.54	117.70
29	B1	2529	A	C6-N1-C2	5.67	122.00	118.60
29	D1	827	A	C5-C6-N1	5.67	120.54	117.70
29	D1	1380	G	C5-C6-N1	-5.67	108.66	111.50
29	D1	3009	G	N3-C4-N9	-5.67	122.59	126.00
30	D2	111	U	C6-N1-C2	-5.67	117.60	121.00
1	A1	1602	C	C6-N1-C1'	-5.67	113.99	120.80
29	D1	2199	G	N7-C8-N9	5.67	115.94	113.10
29	D1	3396	U	C2-N1-C1'	5.67	124.51	117.70
29	B1	507	U	N3-C4-C5	5.67	118.00	114.60
29	B1	717	C	C6-N1-C2	-5.67	118.03	120.30
29	B1	883	A	C5-C6-N6	5.67	128.24	123.70
29	B1	933	A	N1-C6-N6	5.67	122.00	118.60
29	B1	952	A	C2-N3-C4	-5.67	107.76	110.60
29	B1	3017	A	C6-N1-C2	5.67	122.00	118.60
29	D1	390	G	N9-C4-C5	5.67	107.67	105.40
29	D1	987	U	C4-C5-C6	5.67	123.10	119.70
29	D1	2287	C	C6-N1-C2	-5.67	118.03	120.30
30	D2	58	C	C2-N1-C1'	5.67	125.04	118.80
21	AT	30	PRO	N-CA-CB	5.67	110.10	103.30
29	B1	364	G	C5-C6-N1	5.67	114.33	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1147	G	N9-C4-C5	-5.67	103.13	105.40
1	C1	1547	A	C8-N9-C4	5.67	108.07	105.80
29	D1	2278	C	C6-N1-C1'	-5.67	114.00	120.80
1	A1	1085	G	N7-C8-N9	-5.67	110.27	113.10
2	AA	35	PRO	N-CA-CB	5.67	110.10	103.30
10	AI	125	PRO	N-CA-CB	5.67	110.10	103.30
29	B1	89	A	C5-N7-C8	-5.67	101.07	103.90
29	B1	1048	A	C5-C6-N1	5.67	120.53	117.70
29	B1	1424	C	C2-N3-C4	-5.67	117.07	119.90
29	B1	2129	U	N3-C4-O4	-5.67	115.43	119.40
29	B1	2930	A	N1-C6-N6	5.67	122.00	118.60
15	CN	110	PRO	N-CA-CB	5.67	110.10	103.30
29	D1	1371	G	C6-C5-N7	-5.67	127.00	130.40
29	D1	3143	C	C3'-C2'-C1'	5.67	106.03	101.50
40	DI	30	PRO	N-CA-CB	5.67	110.10	103.30
55	DZ	49	PRO	N-CA-CB	5.67	110.10	103.30
10	AI	87	PRO	N-CA-CB	5.67	110.10	103.30
29	B1	2290	C	C2-N3-C4	-5.67	117.07	119.90
39	BH	99	PRO	N-CA-CB	5.67	110.10	103.30
29	B1	148	G	C5-C6-O6	5.67	132.00	128.60
29	B1	429	U	C2-N3-C4	-5.67	123.60	127.00
1	C1	1353	U	N1-C2-O2	5.67	126.77	122.80
29	D1	1113	G	C8-N9-C1'	-5.67	119.64	127.00
30	D2	16	U	C6-N1-C2	5.67	124.40	121.00
29	B1	271	C	N1-C2-O2	5.66	122.30	118.90
1	C1	91	G	C4-N9-C1'	-5.66	119.14	126.50
29	D1	775	A	C5-C6-N6	-5.66	119.17	123.70
29	D1	1123	U	C6-N1-C2	5.66	124.40	121.00
29	D1	1475	A	C8-N9-C4	5.66	108.06	105.80
29	D1	2116	G	N1-C6-O6	5.66	123.30	119.90
29	B1	2283	G	C2-N3-C4	-5.66	109.07	111.90
29	B1	3103	A	C4-C5-C6	5.66	119.83	117.00
29	D1	118	U	N3-C2-O2	-5.66	118.24	122.20
36	DE	181	PRO	N-CA-CB	5.66	110.09	103.30
29	B1	1303	A	C2-N3-C4	-5.66	107.77	110.60
29	B1	3211	C	C2-N1-C1'	-5.66	112.57	118.80
29	D1	3199	G	N3-C4-N9	-5.66	122.60	126.00
29	B1	2618	G	C5-C6-N1	-5.66	108.67	111.50
29	B1	2895	G	N3-C2-N2	-5.66	115.94	119.90
31	B3	36	G	N3-C4-C5	-5.66	125.77	128.60
45	BP	122	GLN	N-CA-C	-5.66	95.72	111.00
1	C1	364	G	C8-N9-C4	-5.66	104.14	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	309	U	N3-C4-O4	-5.66	115.44	119.40
29	D1	2740	A	C5-C6-N1	5.66	120.53	117.70
1	A1	869	A	C2-N3-C4	5.66	113.43	110.60
29	B1	281	G	C4-C5-N7	5.66	113.06	110.80
29	B1	1120	A	N1-C2-N3	5.66	132.13	129.30
29	B1	1841	A	C8-N9-C4	-5.66	103.54	105.80
29	B1	2814	G	C5-C6-O6	-5.66	125.21	128.60
29	B1	3000	A	C5-C6-N1	-5.66	114.87	117.70
30	B2	19	C	C6-N1-C1'	-5.66	114.01	120.80
36	BE	192	PRO	N-CA-CB	5.66	110.09	103.30
29	D1	2918	G	C8-N9-C4	-5.66	104.14	106.40
29	B1	1113	G	N1-C6-O6	5.65	123.29	119.90
29	D1	1172	G	C5-N7-C8	5.65	107.13	104.30
57	Db	53	PRO	N-CA-CB	5.65	110.08	103.30
29	B1	918	C	N3-C2-O2	5.65	125.86	121.90
29	B1	1434	G	N3-C2-N2	-5.65	115.94	119.90
29	B1	3176	G	C4-C5-C6	-5.65	115.41	118.80
1	C1	1377	U	N3-C4-O4	5.65	123.36	119.40
17	CP	118	PRO	N-CA-CB	5.65	110.08	103.30
1	A1	1725	U	C6-N1-C1'	-5.65	113.29	121.20
29	B1	877	C	N3-C4-N4	5.65	121.96	118.00
29	B1	2385	G	C2-N3-C4	-5.65	109.08	111.90
29	B1	2919	A	N7-C8-N9	5.65	116.62	113.80
29	B1	3210	A	C2-N3-C4	-5.65	107.78	110.60
29	D1	389	A	N3-C4-N9	-5.65	122.88	127.40
29	D1	3245	A	C5-C6-N6	-5.65	119.18	123.70
29	D1	584	G	C4-N9-C1'	-5.65	119.16	126.50
29	B1	360	G	C4-C5-N7	-5.65	108.54	110.80
29	B1	657	A	C4-C5-C6	-5.65	114.18	117.00
29	B1	1196	C	C5-C6-N1	-5.65	118.18	121.00
29	B1	1501	U	N3-C4-O4	-5.65	115.45	119.40
29	D1	569	A	C2-N3-C4	-5.65	107.78	110.60
29	D1	968	G	C5-C6-O6	5.65	131.99	128.60
29	D1	3303	G	C2-N3-C4	5.65	114.72	111.90
29	D1	52	A	N1-C2-N3	5.65	132.12	129.30
29	D1	422	A	C8-N9-C1'	5.65	137.86	127.70
29	B1	289	A	C5-C6-N1	-5.64	114.88	117.70
1	C1	1121	C	C6-N1-C1'	5.64	127.57	120.80
9	CH	120	PRO	N-CA-CB	5.64	110.07	103.30
29	D1	2665	U	C5-C6-N1	-5.64	119.88	122.70
33	DB	210	PRO	N-CA-CB	5.64	110.07	103.30
29	B1	52	A	C8-N9-C1'	-5.64	117.54	127.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	111	C	C6-N1-C2	5.64	122.56	120.30
29	B1	380	U	C2-N3-C4	5.64	130.38	127.00
29	B1	2823	G	C4-N9-C1'	-5.64	119.17	126.50
1	C1	597	G	C4-C5-N7	5.64	113.06	110.80
29	D1	86	G	C8-N9-C1'	5.64	134.34	127.00
29	D1	2135	U	C2-N3-C4	-5.64	123.61	127.00
29	B1	3139	A	N9-C4-C5	5.64	108.06	105.80
1	C1	418	G	C6-C5-N7	-5.64	127.02	130.40
1	A1	1437	U	N3-C2-O2	5.64	126.15	122.20
29	B1	1424	C	N3-C4-C5	5.64	124.16	121.90
54	BY	114	GLY	N-CA-C	5.64	127.20	113.10
1	C1	426	G	N3-C4-N9	5.64	129.38	126.00
1	C1	687	G	N3-C4-N9	-5.64	122.62	126.00
29	D1	379	C	N3-C2-O2	5.64	125.85	121.90
29	D1	501	A	C6-N1-C2	5.64	121.98	118.60
29	D1	1854	C	N3-C4-N4	5.64	121.95	118.00
29	B1	224	C	C6-N1-C2	-5.64	118.05	120.30
1	C1	1021	C	C6-N1-C2	5.64	122.56	120.30
1	A1	354	C	C6-N1-C2	5.64	122.56	120.30
29	B1	3217	C	C2-N1-C1'	5.64	125.00	118.80
30	B2	77	G	C5-C6-N1	5.64	114.32	111.50
1	A1	870	C	C6-N1-C2	5.63	122.55	120.30
1	A1	1786	G	C5-C6-O6	5.63	131.98	128.60
29	B1	881	C	C5-C6-N1	-5.63	118.18	121.00
29	B1	1388	U	C2-N1-C1'	-5.63	110.94	117.70
29	B1	1394	A	N1-C6-N6	5.63	121.98	118.60
29	D1	3010	U	C6-N1-C2	5.63	124.38	121.00
29	D1	3105	U	N3-C2-O2	-5.63	118.25	122.20
41	BJ	214	PRO	N-CA-CB	5.63	110.06	103.30
1	C1	786	C	C6-N1-C2	-5.63	118.05	120.30
1	A1	615	A	C6-N1-C2	-5.63	115.22	118.60
1	A1	1095	U	C2-N1-C1'	5.63	124.46	117.70
1	A1	1455	G	C5-N7-C8	5.63	107.12	104.30
29	B1	860	G	N9-C4-C5	-5.63	103.15	105.40
29	D1	2349	U	C6-N1-C2	-5.63	117.62	121.00
1	A1	1453	G	C5-C6-O6	-5.63	125.22	128.60
1	C1	336	G	N1-C6-O6	-5.63	116.52	119.90
1	C1	403	G	C4-C5-N7	5.63	113.05	110.80
1	C1	1159	C	N1-C2-O2	5.63	122.28	118.90
1	A1	1789	G	C8-N9-C1'	-5.63	119.68	127.00
29	B1	103	G	N1-C2-N3	-5.63	120.52	123.90
43	BN	67	PRO	N-CA-CB	5.63	110.05	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	563	U	N3-C4-O4	5.63	123.34	119.40
29	D1	3215	A	N7-C8-N9	5.63	116.61	113.80
29	D1	3388	C	C6-N1-C1'	-5.63	114.05	120.80
29	B1	3089	C	C6-N1-C2	-5.63	118.05	120.30
31	B3	87	G	C8-N9-C1'	-5.63	119.69	127.00
29	D1	608	A	C4-C5-C6	5.63	119.81	117.00
29	D1	987	U	C2-N3-C4	-5.63	123.62	127.00
29	D1	1322	U	N3-C4-C5	-5.63	111.22	114.60
29	D1	2961	G	N3-C4-N9	5.63	129.38	126.00
1	A1	91	G	N3-C4-C5	5.62	131.41	128.60
29	B1	935	U	C2-N1-C1'	5.62	124.45	117.70
29	B1	1618	G	C5-C6-N1	5.62	114.31	111.50
29	D1	2909	U	N1-C2-N3	5.62	118.28	114.90
29	D1	3187	A	N1-C6-N6	5.62	121.97	118.60
29	B1	563	U	C5-C6-N1	5.62	125.51	122.70
29	B1	1887	A	N1-C6-N6	5.62	121.97	118.60
29	B1	2330	C	N3-C4-C5	5.62	124.15	121.90
29	D1	596	C	N3-C2-O2	-5.62	117.96	121.90
29	D1	3266	G	N3-C2-N2	5.62	123.84	119.90
41	DJ	5	PRO	N-CA-CB	5.62	110.05	103.30
1	A1	1234	A	N1-C2-N3	-5.62	126.49	129.30
29	B1	810	A	C5-N7-C8	-5.62	101.09	103.90
29	B1	3146	G	C8-N9-C4	-5.62	104.15	106.40
29	B1	3181	C	N3-C4-C5	5.62	124.15	121.90
30	B2	33	U	N3-C2-O2	-5.62	118.26	122.20
41	BJ	16	PRO	N-CA-CB	5.62	110.05	103.30
29	D1	1525	G	N3-C4-N9	5.62	129.37	126.00
1	A1	565	C	C5-C6-N1	-5.62	118.19	121.00
29	B1	625	G	C5-C6-N1	-5.62	108.69	111.50
29	B1	2599	U	N1-C2-N3	5.62	118.27	114.90
46	BQ	143	PRO	N-CA-CB	5.62	110.04	103.30
54	BY	122	PRO	N-CA-CB	5.62	110.04	103.30
1	C1	1303	U	C6-N1-C1'	5.62	129.06	121.20
29	D1	1653	G	N3-C4-N9	5.62	129.37	126.00
29	B1	3207	U	C2-N1-C1'	-5.62	110.96	117.70
30	B2	8	G	C6-C5-N7	5.62	133.77	130.40
30	B2	101	G	C4-N9-C1'	-5.62	119.20	126.50
29	D1	171	G	C8-N9-C1'	-5.62	119.70	127.00
29	D1	3245	A	C5-N7-C8	-5.62	101.09	103.90
29	B1	659	G	C5-C6-N1	5.62	114.31	111.50
29	B1	1371	G	C4-N9-C1'	5.62	133.80	126.50
29	B1	2332	A	C2-N3-C4	-5.62	107.79	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2707	C	N3-C2-O2	5.62	125.83	121.90
29	D1	3035	A	N3-C4-C5	-5.62	122.87	126.80
1	A1	13	C	C5-C4-N4	-5.61	116.27	120.20
1	A1	1495	C	C6-N1-C2	5.61	122.55	120.30
29	B1	299	G	C4-C5-C6	5.61	122.17	118.80
29	B1	644	G	N3-C4-N9	-5.61	122.63	126.00
29	B1	958	C	C5-C4-N4	-5.61	116.27	120.20
29	B1	2895	G	C4-C5-N7	-5.61	108.56	110.80
1	C1	1641	C	C6-N1-C2	5.61	122.55	120.30
29	D1	589	A	N3-C4-N9	5.61	131.89	127.40
29	D1	655	C	N3-C4-C5	5.61	124.15	121.90
29	D1	880	G	C4-N9-C1'	-5.61	119.20	126.50
29	D1	1296	C	N1-C2-N3	5.61	123.13	119.20
30	D2	45	A	C8-N9-C4	5.61	108.05	105.80
29	B1	639	G	C5-C6-O6	-5.61	125.23	128.60
1	C1	1559	A	C8-N9-C4	5.61	108.05	105.80
29	D1	2919	A	N1-C2-N3	5.61	132.11	129.30
29	B1	999	G	N1-C6-O6	-5.61	116.53	119.90
29	B1	1610	G	N1-C6-O6	5.61	123.27	119.90
31	B3	100	U	N3-C2-O2	5.61	126.13	122.20
1	C1	1498	G	C4-N9-C1'	5.61	133.79	126.50
29	B1	237	G	N3-C4-N9	5.61	129.37	126.00
29	B1	1465	A	N1-C6-N6	5.61	121.96	118.60
29	B1	1608	C	C6-N1-C1'	-5.61	114.07	120.80
30	B2	6	C	N3-C2-O2	-5.61	117.97	121.90
53	BX	23	PRO	N-CA-CB	5.61	110.03	103.30
29	D1	3166	C	C6-N1-C1'	5.61	127.53	120.80
29	D1	3327	G	C5-C6-N1	5.61	114.30	111.50
1	A1	1331	A	C6-N1-C2	-5.61	115.24	118.60
1	A1	1645	G	C5-C6-O6	-5.61	125.24	128.60
29	B1	880	G	C8-N9-C1'	5.61	134.29	127.00
29	B1	880	G	N3-C4-C5	5.61	131.40	128.60
29	B1	2837	A	C4-C5-N7	-5.61	107.90	110.70
1	C1	1466	G	C4-C5-N7	5.61	113.04	110.80
21	CT	247	PRO	N-CA-CB	5.61	110.03	103.30
29	D1	189	G	C5-C6-N1	5.61	114.30	111.50
29	B1	1317	A	C6-C5-N7	-5.60	128.38	132.30
29	B1	1884	A	N3-C4-C5	5.60	130.72	126.80
30	B2	19	C	C2-N1-C1'	5.60	124.97	118.80
1	C1	1600	A	C8-N9-C4	-5.60	103.56	105.80
48	DS	90	PRO	N-CA-CB	5.60	110.03	103.30
5	AD	88	PRO	N-CA-CB	5.60	110.02	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	790	U	C6-N1-C2	5.60	124.36	121.00
29	B1	2919	A	C8-N9-C4	-5.60	103.56	105.80
29	D1	3227	A	N9-C4-C5	5.60	108.04	105.80
29	B1	393	U	N3-C2-O2	-5.60	118.28	122.20
29	D1	3136	G	N3-C4-C5	-5.60	125.80	128.60
60	De	22	PRO	N-CA-CB	5.60	110.02	103.30
29	B1	2370	G	N1-C6-O6	-5.60	116.54	119.90
29	B1	2755	C	N3-C4-C5	5.60	124.14	121.90
29	B1	2780	A	C5-C6-N6	-5.60	119.22	123.70
29	B1	3037	U	C6-N1-C2	5.60	124.36	121.00
29	B1	3103	A	C8-N9-C4	-5.60	103.56	105.80
1	C1	629	U	N3-C2-O2	-5.60	118.28	122.20
29	D1	3028	G	C5-C6-N1	-5.60	108.70	111.50
9	AH	122	PRO	N-CA-CB	5.60	110.02	103.30
29	B1	712	G	C4-N9-C1'	5.60	133.78	126.50
29	B1	1380	G	N1-C2-N3	5.60	127.26	123.90
29	B1	2780	A	C6-N1-C2	-5.60	115.24	118.60
1	C1	619	A	C8-N9-C4	5.60	108.04	105.80
14	CM	2	PRO	N-CA-CB	5.60	110.02	103.30
29	D1	3059	G	N3-C4-N9	5.60	129.36	126.00
29	B1	588	G	C4-N9-C1'	5.60	133.77	126.50
29	B1	1903	U	N3-C4-C5	-5.60	111.24	114.60
29	D1	3026	G	C5-C6-N1	-5.60	108.70	111.50
29	B1	257	U	C6-N1-C1'	-5.59	113.37	121.20
29	B1	909	G	N3-C2-N2	-5.59	115.98	119.90
29	B1	1192	C	N3-C2-O2	-5.59	117.98	121.90
29	B1	1380	G	N3-C4-C5	5.59	131.40	128.60
29	B1	1452	A	C4-C5-N7	5.59	113.50	110.70
31	D3	42	G	N3-C4-N9	-5.59	122.64	126.00
1	A1	1541	G	N3-C4-C5	-5.59	125.80	128.60
29	B1	1115	G	C5-N7-C8	-5.59	101.50	104.30
29	D1	1335	C	N1-C2-O2	-5.59	115.54	118.90
29	D1	3257	C	N3-C2-O2	5.59	125.81	121.90
29	B1	857	G	C4-C5-N7	-5.59	108.56	110.80
29	B1	1323	G	N3-C4-C5	-5.59	125.80	128.60
29	B1	1888	U	C5-C4-O4	5.59	129.25	125.90
29	B1	3329	U	C5-C4-O4	5.59	129.25	125.90
1	C1	1792	G	C6-C5-N7	-5.59	127.05	130.40
29	D1	1467	A	C8-N9-C4	5.59	108.04	105.80
29	D1	1856	C	C2-N3-C4	-5.59	117.11	119.90
29	D1	3137	C	C6-N1-C2	5.59	122.54	120.30
41	DJ	47	PRO	N-CA-CB	5.59	110.01	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	53	G	N1-C6-O6	-5.59	116.55	119.90
29	B1	626	U	C2-N1-C1'	5.59	124.41	117.70
29	B1	965	A	N7-C8-N9	-5.59	111.01	113.80
29	B1	2531	C	C2-N1-C1'	5.59	124.95	118.80
29	B1	2951	G	N3-C4-N9	-5.59	122.65	126.00
29	B1	3259	U	N3-C2-O2	5.59	126.11	122.20
50	BU	127	PRO	N-CA-CB	5.59	110.01	103.30
29	D1	513	G	N1-C6-O6	-5.59	116.55	119.90
29	D1	695	C	C5-C6-N1	-5.59	118.20	121.00
29	D1	1171	G	N3-C2-N2	-5.59	115.99	119.90
29	D1	1686	U	N1-C2-O2	5.59	126.71	122.80
29	D1	2528	G	N3-C4-N9	-5.59	122.65	126.00
29	D1	2667	A	C6-C5-N7	5.59	136.21	132.30
1	C1	1591	C	C2-N3-C4	-5.59	117.11	119.90
1	A1	1141	G	C4-C5-N7	5.59	113.03	110.80
29	B1	1151	U	N1-C2-O2	-5.59	118.89	122.80
29	B1	2618	G	N9-C4-C5	5.59	107.63	105.40
29	B1	2907	G	C8-N9-C1'	5.59	134.26	127.00
1	C1	647	G	C8-N9-C1'	-5.59	119.74	127.00
29	D1	2416	U	N3-C2-O2	5.59	126.11	122.20
1	A1	1149	G	N3-C4-C5	-5.58	125.81	128.60
1	A1	1634	C	C2-N3-C4	5.58	122.69	119.90
29	B1	1878	G	N3-C4-N9	5.58	129.35	126.00
29	B1	2650	U	C6-N1-C1'	5.58	129.02	121.20
29	D1	3296	A	C2-N3-C4	5.58	113.39	110.60
1	A1	63	G	N3-C4-N9	-5.58	122.65	126.00
5	AD	164	PRO	N-CA-CB	5.58	110.00	103.30
29	B1	1180	A	N9-C4-C5	5.58	108.03	105.80
29	B1	3078	U	C6-N1-C1'	-5.58	113.38	121.20
1	C1	1137	A	C8-N9-C4	5.58	108.03	105.80
1	C1	1523	G	N1-C6-O6	5.58	123.25	119.90
29	D1	1188	U	C2-N3-C4	-5.58	123.65	127.00
29	D1	1434	G	C8-N9-C4	5.58	108.63	106.40
29	D1	2881	C	C2-N1-C1'	-5.58	112.66	118.80
29	D1	3271	G	N3-C4-C5	-5.58	125.81	128.60
1	A1	628	G	N1-C2-N2	-5.58	111.18	116.20
29	B1	2355	G	N9-C4-C5	-5.58	103.17	105.40
29	B1	2882	U	C5-C4-O4	-5.58	122.55	125.90
53	BX	96	PRO	N-CA-CB	5.58	110.00	103.30
29	D1	389	A	N9-C4-C5	5.58	108.03	105.80
29	B1	1177	G	C4-C5-N7	5.58	113.03	110.80
29	B1	2347	U	C2-N1-C1'	-5.58	111.00	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3200	G	C6-N1-C2	5.58	128.45	125.10
1	C1	825	U	C2-N3-C4	-5.58	123.65	127.00
29	D1	188	U	N3-C2-O2	-5.58	118.29	122.20
29	B1	2740	A	C6-N1-C2	-5.58	115.25	118.60
29	D1	567	G	C4-C5-N7	5.58	113.03	110.80
29	D1	1052	U	N1-C2-O2	-5.58	118.89	122.80
38	DG	204	PRO	N-CA-CB	5.58	110.00	103.30
29	B1	1140	G	C2-N3-C4	-5.58	109.11	111.90
29	B1	2892	A	C5-C6-N1	-5.58	114.91	117.70
29	D1	3386	G	C8-N9-C1'	-5.58	119.75	127.00
1	A1	427	C	N1-C2-O2	-5.58	115.56	118.90
1	A1	1166	A	C5-C6-N6	-5.58	119.24	123.70
1	C1	439	U	C2-N1-C1'	5.58	124.39	117.70
1	C1	1521	G	N3-C4-C5	5.58	131.39	128.60
29	D1	1323	G	N3-C4-C5	-5.58	125.81	128.60
29	D1	2283	G	N3-C4-C5	5.58	131.39	128.60
29	D1	2556	C	N3-C2-O2	-5.58	118.00	121.90
29	D1	2951	G	N3-C4-N9	-5.58	122.65	126.00
29	D1	3066	U	C5-C4-O4	5.58	129.25	125.90
31	D3	16	G	C5-C6-O6	-5.58	125.25	128.60
29	B1	332	C	C5-C6-N1	5.57	123.79	121.00
29	B1	428	A	C4-C5-C6	5.57	119.79	117.00
40	BI	30	PRO	N-CA-CB	5.57	109.99	103.30
1	C1	1786	G	N1-C6-O6	-5.57	116.56	119.90
29	D1	3199	G	N1-C6-O6	5.57	123.24	119.90
29	B1	387	A	C2-N3-C4	-5.57	107.81	110.60
29	B1	985	U	N3-C4-O4	-5.57	115.50	119.40
1	C1	1633	A	C4-N9-C1'	5.57	136.33	126.30
29	D1	1612	A	C6-N1-C2	5.57	121.94	118.60
29	D1	2830	G	C4-C5-C6	5.57	122.14	118.80
3	AB	234	PRO	N-CA-CB	5.57	109.98	103.30
29	B1	994	G	N3-C4-C5	-5.57	125.81	128.60
29	B1	2707	C	C6-N1-C2	5.57	122.53	120.30
29	B1	3139	A	C5-C6-N6	5.57	128.16	123.70
1	C1	575	C	C6-N1-C2	5.57	122.53	120.30
29	D1	1047	A	C5-C6-N6	5.57	128.16	123.70
29	D1	3173	G	C2-N3-C4	-5.57	109.11	111.90
29	D1	3232	G	N1-C6-O6	-5.57	116.56	119.90
39	DH	167	PRO	N-CA-CB	5.57	109.98	103.30
29	B1	1825	G	C8-N9-C1'	5.57	134.24	127.00
30	B2	35	C	C6-N1-C1'	-5.57	114.12	120.80
29	B1	2300	G	C8-N9-C1'	-5.57	119.76	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3108	G	N1-C2-N2	5.57	121.21	116.20
31	B3	53	A	C2-N3-C4	5.57	113.38	110.60
1	C1	1472	C	C2-N1-C1'	5.57	124.92	118.80
29	D1	2856	G	N1-C6-O6	5.57	123.24	119.90
73	DM	92	PRO	N-CA-CB	5.57	109.98	103.30
1	A1	541	A	C8-N9-C4	-5.57	103.57	105.80
29	B1	1403	C	C2-N3-C4	-5.57	117.12	119.90
29	B1	3030	G	N1-C6-O6	5.57	123.24	119.90
29	B1	3264	G	C8-N9-C4	-5.57	104.17	106.40
1	C1	647	G	C4-N9-C1'	5.57	133.74	126.50
29	D1	1440	G	C8-N9-C4	5.57	108.63	106.40
29	D1	1496	C	C2-N1-C1'	5.57	124.92	118.80
1	A1	86	A	C8-N9-C4	-5.56	103.58	105.80
29	B1	1333	C	C6-N1-C1'	-5.56	114.12	120.80
1	C1	406	U	N3-C2-O2	5.56	126.09	122.20
1	C1	1647	U	C2-N3-C4	5.56	130.34	127.00
29	D1	3030	G	C3'-C2'-C1'	5.56	105.95	101.50
29	B1	529	A	N1-C2-N3	-5.56	126.52	129.30
29	B1	605	U	C5-C4-O4	-5.56	122.56	125.90
29	B1	1450	G	C5-C6-O6	-5.56	125.26	128.60
29	B1	1481	A	N1-C6-N6	5.56	121.94	118.60
30	B2	9	C	N1-C2-N3	5.56	123.09	119.20
1	C1	115	G	N3-C2-N2	-5.56	116.01	119.90
1	C1	1141	G	C5-C6-O6	-5.56	125.26	128.60
29	D1	1113	G	C6-C5-N7	-5.56	127.06	130.40
29	D1	3211	C	C2-N1-C1'	-5.56	112.68	118.80
29	B1	341	G	C4-C5-N7	5.56	113.02	110.80
29	B1	655	C	N3-C4-C5	5.56	124.12	121.90
29	B1	693	A	C4-N9-C1'	5.56	136.31	126.30
29	B1	2556	C	C6-N1-C2	-5.56	118.08	120.30
29	B1	2668	U	C2-N1-C1'	5.56	124.37	117.70
30	B2	5	G	N3-C4-C5	5.56	131.38	128.60
29	D1	315	C	C6-N1-C1'	-5.56	114.13	120.80
29	D1	1323	G	C4-N9-C1'	5.56	133.73	126.50
29	D1	1439	U	N1-C2-O2	-5.56	118.91	122.80
29	B1	787	G	N1-C6-O6	5.56	123.23	119.90
29	B1	1147	G	C5-C6-O6	-5.56	125.27	128.60
29	B1	2129	U	N3-C2-O2	-5.56	118.31	122.20
1	C1	79	C	C5-C6-N1	5.56	123.78	121.00
29	D1	171	G	C4-N9-C1'	5.56	133.72	126.50
29	D1	516	A	N1-C2-N3	-5.56	126.52	129.30
29	D1	1148	G	C5-N7-C8	-5.56	101.52	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1205	C	C6-N1-C1'	-5.56	114.13	120.80
29	D1	1522	U	C2-N1-C1'	5.56	124.37	117.70
29	B1	1357	G	C5-C6-O6	5.55	131.93	128.60
29	D1	2287	C	N3-C4-N4	-5.55	114.11	118.00
1	C1	584	C	C5-C6-N1	-5.55	118.22	121.00
1	C1	1561	U	C6-N1-C2	5.55	124.33	121.00
38	DG	96	PRO	N-CA-CB	5.55	109.96	103.30
29	B1	531	G	C2-N3-C4	-5.55	109.12	111.90
29	B1	3143	C	C3'-C2'-C1'	5.55	105.94	101.50
39	BH	159	PRO	N-CA-CB	5.55	109.96	103.30
39	BH	167	PRO	N-CA-CB	5.55	109.96	103.30
47	BR	43	PRO	N-CA-CB	5.55	109.96	103.30
29	D1	1133	A	C6-N1-C2	5.55	121.93	118.60
1	A1	827	C	N1-C2-O2	-5.55	115.57	118.90
29	B1	875	G	C6-C5-N7	-5.55	127.07	130.40
29	B1	1307	G	N3-C4-N9	5.55	129.33	126.00
29	B1	1653	G	N3-C4-N9	5.55	129.33	126.00
29	B1	3377	G	C6-C5-N7	-5.55	127.07	130.40
29	D1	45	A	N7-C8-N9	-5.55	111.03	113.80
29	D1	2805	G	C5-C6-N1	5.55	114.28	111.50
29	D1	2887	A	N9-C4-C5	5.55	108.02	105.80
31	D3	44	A	C6-N1-C2	-5.55	115.27	118.60
34	DC	5	LYS	N-CA-C	-5.55	96.02	111.00
29	B1	1907	C	C6-N1-C2	5.55	122.52	120.30
1	C1	1498	G	C8-N9-C1'	-5.55	119.79	127.00
29	D1	876	A	C8-N9-C4	5.55	108.02	105.80
29	D1	1751	G	N3-C4-C5	-5.55	125.83	128.60
29	D1	3215	A	N9-C4-C5	5.55	108.02	105.80
1	A1	95	G	C4-N9-C1'	-5.55	119.29	126.50
29	B1	219	A	C5-N7-C8	-5.55	101.13	103.90
29	B1	284	A	N1-C2-N3	5.55	132.07	129.30
29	B1	1042	U	C6-N1-C2	5.55	124.33	121.00
29	B1	1076	C	N1-C2-O2	5.55	122.23	118.90
30	B2	29	C	C6-N1-C2	5.55	122.52	120.30
29	D1	687	U	N3-C4-O4	-5.55	115.52	119.40
1	A1	1636	C	C6-N1-C2	5.54	122.52	120.30
29	D1	345	G	N1-C6-O6	5.54	123.23	119.90
1	A1	993	A	N1-C6-N6	-5.54	115.27	118.60
29	B1	244	G	C4-C5-N7	-5.54	108.58	110.80
29	B1	753	C	C2-N3-C4	-5.54	117.13	119.90
29	B1	1592	G	C8-N9-C4	-5.54	104.18	106.40
29	B1	2330	C	C6-N1-C2	5.54	122.52	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2917	G	N7-C8-N9	-5.54	110.33	113.10
29	B1	3388	C	C6-N1-C1'	-5.54	114.15	120.80
1	C1	1472	C	N1-C2-O2	5.54	122.23	118.90
29	D1	589	A	C8-N9-C4	-5.54	103.58	105.80
29	D1	655	C	C2-N3-C4	-5.54	117.13	119.90
29	D1	1152	G	C4-C5-N7	5.54	113.02	110.80
29	D1	1892	G	N3-C4-N9	-5.54	122.67	126.00
29	D1	2630	C	C2-N3-C4	-5.54	117.13	119.90
29	D1	2693	C	N1-C2-O2	5.54	122.23	118.90
29	D1	3265	C	N3-C2-O2	-5.54	118.02	121.90
54	DY	114	GLY	N-CA-C	5.54	126.96	113.10
1	A1	1174	C	C5-C6-N1	-5.54	118.23	121.00
1	A1	1791	A	C4-C5-N7	5.54	113.47	110.70
29	B1	156	G	N1-C6-O6	-5.54	116.58	119.90
29	B1	2197	C	N3-C2-O2	5.54	125.78	121.90
1	C1	423	G	N3-C4-C5	-5.54	125.83	128.60
29	D1	608	A	C6-C5-N7	-5.54	128.42	132.30
29	D1	744	A	C6-N1-C2	-5.54	115.28	118.60
29	D1	2122	G	N3-C2-N2	-5.54	116.02	119.90
29	D1	3115	C	C6-N1-C2	-5.54	118.08	120.30
1	A1	1244	A	C5-C6-N6	5.54	128.13	123.70
29	B1	944	C	C2-N1-C1'	-5.54	112.71	118.80
29	D1	873	C	N3-C4-N4	5.54	121.88	118.00
29	D1	2400	G	C6-C5-N7	-5.54	127.08	130.40
29	D1	2719	U	N1-C2-N3	5.54	118.22	114.90
1	A1	847	A	C5-C6-N1	5.54	120.47	117.70
1	A1	939	A	N7-C8-N9	5.54	116.57	113.80
29	B1	671	U	C5-C6-N1	-5.54	119.93	122.70
29	B1	2366	C	N3-C4-C5	5.54	124.11	121.90
29	B1	3363	U	N3-C2-O2	-5.54	118.32	122.20
2	CA	126	PRO	N-CA-CB	5.54	109.95	103.30
2	CA	199	PRO	N-CA-CB	5.54	109.95	103.30
29	D1	2362	C	N3-C4-C5	-5.54	119.69	121.90
29	D1	222	A	C4-C5-N7	5.54	113.47	110.70
29	B1	836	A	C2-N3-C4	5.54	113.37	110.60
29	B1	2707	C	N1-C2-O2	-5.54	115.58	118.90
29	B1	2853	A	N1-C6-N6	5.54	121.92	118.60
2	CA	42	PRO	N-CA-CB	5.54	109.94	103.30
29	D1	891	G	C8-N9-C4	5.54	108.61	106.40
29	D1	1001	G	C4-N9-C1'	5.54	133.70	126.50
29	D1	1507	G	N3-C2-N2	-5.54	116.02	119.90
29	D1	3316	A	C8-N9-C4	5.54	108.01	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	341	A	C5-C6-N1	5.53	120.47	117.70
29	B1	822	G	N3-C4-C5	5.53	131.37	128.60
29	B1	1331	U	C2-N3-C4	-5.53	123.68	127.00
29	B1	1357	G	N1-C6-O6	-5.53	116.58	119.90
29	B1	1678	G	C8-N9-C4	-5.53	104.19	106.40
29	B1	1900	A	C8-N9-C4	-5.53	103.59	105.80
29	B1	2138	A	C4-C5-C6	5.53	119.77	117.00
29	B1	2400	G	N1-C6-O6	5.53	123.22	119.90
29	B1	1294	A	N3-C4-C5	-5.53	122.93	126.80
29	B1	1367	G	C6-C5-N7	-5.53	127.08	130.40
29	B1	2301	U	N3-C2-O2	5.53	126.07	122.20
29	D1	1085	A	C2-N3-C4	-5.53	107.83	110.60
21	AT	276	PRO	N-CA-CB	5.53	109.94	103.30
29	B1	428	A	C2-N3-C4	-5.53	107.83	110.60
39	BH	176	PRO	N-CA-CB	5.53	109.94	103.30
1	C1	1097	U	C2-N1-C1'	-5.53	111.06	117.70
29	D1	609	G	C8-N9-C4	-5.53	104.19	106.40
29	D1	1066	G	C8-N9-C4	-5.53	104.19	106.40
29	D1	1327	C	N3-C2-O2	-5.53	118.03	121.90
29	D1	2262	A	C4-N9-C1'	5.53	136.25	126.30
29	D1	2527	G	N3-C2-N2	-5.53	116.03	119.90
29	D1	2702	A	C8-N9-C4	-5.53	103.59	105.80
29	D1	2740	A	C6-N1-C2	-5.53	115.28	118.60
29	D1	3001	C	N3-C4-C5	5.53	124.11	121.90
29	D1	3078	U	C2-N1-C1'	5.53	124.34	117.70
30	D2	35	C	N1-C2-O2	5.53	122.22	118.90
29	B1	2988	C	N3-C4-C5	5.53	124.11	121.90
29	D1	1429	G	N3-C4-N9	5.53	129.32	126.00
31	D3	131	A	C6-N1-C2	5.53	121.92	118.60
29	B1	207	U	C5-C4-O4	-5.53	122.58	125.90
29	B1	1891	A	C2-N3-C4	-5.53	107.84	110.60
1	C1	439	U	C5-C4-O4	-5.53	122.58	125.90
29	D1	1370	G	N1-C6-O6	5.53	123.22	119.90
29	D1	2853	A	N1-C2-N3	-5.53	126.54	129.30
29	D1	3233	C	C2-N1-C1'	5.53	124.88	118.80
29	B1	2246	G	C5-C6-N1	5.52	114.26	111.50
29	D1	3381	U	N1-C2-O2	5.52	126.67	122.80
29	B1	933	A	C2-N3-C4	5.52	113.36	110.60
29	B1	1850	A	C8-N9-C4	5.52	108.01	105.80
29	D1	3063	C	N3-C2-O2	5.52	125.77	121.90
29	B1	876	A	N7-C8-N9	-5.52	111.04	113.80
29	B1	2935	U	C2-N1-C1'	-5.52	111.08	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	922	U	C2-N1-C1'	-5.52	111.08	117.70
29	D1	2296	A	C2-N3-C4	-5.52	107.84	110.60
29	D1	2896	A	N9-C4-C5	5.52	108.01	105.80
29	B1	693	A	C6-C5-N7	-5.52	128.44	132.30
1	C1	447	U	C3'-C2'-C1'	5.52	105.92	101.50
21	CT	57	PRO	N-CA-CB	5.52	109.92	103.30
29	D1	1315	U	N1-C2-O2	5.52	126.66	122.80
29	D1	1450	G	C5-C6-N1	-5.52	108.74	111.50
29	D1	1641	U	N3-C2-O2	5.52	126.06	122.20
29	D1	2291	A	N1-C6-N6	5.52	121.91	118.60
29	D1	2693	C	C6-N1-C1'	-5.52	114.17	120.80
72	DL	30	PRO	N-CA-CB	5.52	109.92	103.30
2	AA	126	PRO	N-CA-CB	5.52	109.92	103.30
29	B1	264	G	N3-C4-N9	5.52	129.31	126.00
29	B1	1861	G	N3-C4-N9	-5.52	122.69	126.00
29	B1	1951	C	N1-C2-N3	-5.52	115.34	119.20
29	B1	2679	A	N9-C4-C5	-5.52	103.59	105.80
29	B1	3173	G	C5-C6-N1	-5.52	108.74	111.50
29	D1	1402	C	C2-N3-C4	-5.52	117.14	119.90
29	D1	3040	A	N9-C4-C5	5.52	108.01	105.80
29	D1	3129	A	C8-N9-C1'	5.52	137.63	127.70
47	DR	132	PRO	N-CA-CB	5.52	109.92	103.30
29	B1	2663	G	N7-C8-N9	-5.52	110.34	113.10
29	D1	651	G	C6-C5-N7	-5.52	127.09	130.40
29	B1	2274	U	N3-C2-O2	-5.51	118.34	122.20
29	B1	2301	U	C6-N1-C2	5.51	124.31	121.00
29	D1	299	G	C6-C5-N7	-5.51	127.09	130.40
29	D1	859	G	N1-C6-O6	5.51	123.21	119.90
29	D1	3380	U	C6-N1-C1'	5.51	128.92	121.20
29	B1	498	A	C4-C5-N7	5.51	113.46	110.70
29	B1	1906	G	N1-C6-O6	5.51	123.21	119.90
29	B1	2117	A	N1-C6-N6	-5.51	115.29	118.60
1	C1	95	G	N3-C4-C5	5.51	131.36	128.60
29	B1	1439	U	C6-N1-C2	5.51	124.31	121.00
29	B1	2398	A	N3-C4-N9	5.51	131.81	127.40
1	C1	400	A	C8-N9-C4	5.51	108.00	105.80
1	C1	981	U	C5-C4-O4	-5.51	122.59	125.90
1	C1	1198	G	C5-C6-O6	5.51	131.91	128.60
29	B1	703	G	N1-C2-N2	5.51	121.16	116.20
1	C1	45	U	N1-C2-O2	5.51	126.66	122.80
10	CI	109	PRO	N-CA-CB	5.51	109.91	103.30
1	A1	1467	C	N1-C2-O2	-5.51	115.59	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1781	A	C8-N9-C4	-5.51	103.60	105.80
29	B1	2618	G	C4-C5-N7	-5.51	108.60	110.80
29	B1	3182	G	C8-N9-C4	5.51	108.60	106.40
1	A1	1118	G	C4-N9-C1'	-5.51	119.34	126.50
1	A1	1134	C	C6-N1-C2	5.51	122.50	120.30
29	B1	125	C	C5-C4-N4	-5.51	116.34	120.20
29	B1	1173	U	C2-N3-C4	-5.51	123.70	127.00
30	B2	114	U	N1-C2-O2	5.51	126.66	122.80
31	B3	11	C	N3-C2-O2	-5.51	118.05	121.90
44	BO	74	PRO	N-CA-CB	5.51	109.91	103.30
1	C1	1140	G	C5-C6-N1	5.51	114.25	111.50
1	C1	1465	C	C6-N1-C2	-5.51	118.10	120.30
1	C1	1541	G	N3-C4-N9	5.51	129.30	126.00
29	D1	562	C	C6-N1-C2	-5.51	118.10	120.30
29	D1	1324	U	C6-N1-C2	-5.51	117.70	121.00
29	D1	1489	A	N1-C6-N6	-5.51	115.30	118.60
29	B1	146	U	C5-C4-O4	-5.50	122.60	125.90
29	B1	2369	G	C5-C6-O6	-5.50	125.30	128.60
1	C1	1609	U	N3-C2-O2	5.50	126.05	122.20
29	B1	404	G	C5-C6-O6	5.50	131.90	128.60
1	C1	1562	G	N3-C4-N9	-5.50	122.70	126.00
29	D1	954	U	N3-C4-O4	5.50	123.25	119.40
29	D1	2882	U	C6-N1-C2	-5.50	117.70	121.00
37	DF	27	PRO	N-CA-CB	5.50	109.90	103.30
3	AB	151	PRO	N-CA-CB	5.50	109.90	103.30
29	B1	220	G	N9-C4-C5	-5.50	103.20	105.40
29	B1	576	C	N3-C2-O2	5.50	125.75	121.90
29	B1	2969	A	N3-C4-C5	5.50	130.65	126.80
1	C1	1066	C	C2-N1-C1'	5.50	124.85	118.80
29	D1	590	G	N7-C8-N9	-5.50	110.35	113.10
29	D1	1780	G	C3'-C2'-C1'	5.50	105.90	101.50
1	A1	610	G	N9-C4-C5	-5.50	103.20	105.40
29	D1	1134	G	C4-C5-N7	-5.50	108.60	110.80
29	D1	2633	U	N3-C4-C5	-5.50	111.30	114.60
29	B1	949	C	C5-C6-N1	-5.50	118.25	121.00
29	D1	54	C	C6-N1-C2	5.50	122.50	120.30
29	D1	1429	G	C8-N9-C1'	-5.50	119.85	127.00
29	D1	1936	A	N1-C6-N6	-5.50	115.30	118.60
21	AT	158	PRO	N-CA-CB	5.50	109.90	103.30
29	B1	613	G	C2-N3-C4	-5.50	109.15	111.90
29	B1	963	G	N9-C4-C5	-5.50	103.20	105.40
29	B1	2929	C	N3-C4-N4	5.50	121.85	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2993	G	O4'-C1'-N9	5.50	112.60	108.20
1	C1	466	U	C5-C6-N1	-5.50	119.95	122.70
1	C1	1144	U	N3-C2-O2	-5.50	118.35	122.20
29	D1	3090	U	C5-C6-N1	5.50	125.45	122.70
44	DO	45	PRO	N-CA-CB	5.50	109.90	103.30
29	B1	859	G	C4-N9-C1'	5.50	133.64	126.50
1	A1	1788	G	C4-N9-C1'	-5.49	119.36	126.50
29	B1	971	G	N3-C4-C5	-5.49	125.85	128.60
29	B1	2671	A	C5-C6-N1	5.49	120.45	117.70
1	C1	1542	G	N3-C4-C5	-5.49	125.85	128.60
29	D1	650	C	C2-N1-C1'	5.49	124.84	118.80
29	D1	1951	C	N1-C2-O2	5.49	122.20	118.90
29	D1	2639	G	C5-C6-O6	-5.49	125.30	128.60
1	A1	1677	C	C6-N1-C2	-5.49	118.10	120.30
29	D1	1160	C	C6-N1-C1'	-5.49	114.21	120.80
29	B1	98	G	C4-C5-N7	-5.49	108.60	110.80
29	B1	190	U	C5-C4-O4	5.49	129.19	125.90
29	B1	1516	C	N1-C2-O2	-5.49	115.61	118.90
29	D1	2330	C	C5-C6-N1	-5.49	118.25	121.00
29	D1	3131	U	C2-N1-C1'	5.49	124.29	117.70
31	D3	62	C	C6-N1-C2	5.49	122.50	120.30
1	A1	1198	G	C5-C6-O6	5.49	131.89	128.60
29	B1	645	A	C6-N1-C2	-5.49	115.31	118.60
29	B1	1481	A	N9-C4-C5	-5.49	103.61	105.80
29	B1	2421	U	N1-C2-O2	-5.49	118.96	122.80
29	B1	2959	C	N1-C2-O2	-5.49	115.61	118.90
29	B1	3233	C	C6-N1-C1'	-5.49	114.22	120.80
29	B1	3324	C	C2-N1-C1'	5.49	124.84	118.80
30	B2	66	A	C2-N3-C4	-5.49	107.86	110.60
1	C1	1486	G	C8-N9-C4	5.49	108.59	106.40
29	D1	965	A	N7-C8-N9	-5.49	111.06	113.80
29	D1	1552	G	N3-C4-C5	-5.49	125.86	128.60
29	D1	2833	A	C8-N9-C4	5.49	108.00	105.80
1	A1	374	U	N3-C4-C5	5.49	117.89	114.60
29	B1	941	G	C4-C5-N7	-5.49	108.61	110.80
29	B1	2880	U	N1-C2-N3	5.49	118.19	114.90
29	D1	1937	U	N3-C2-O2	5.49	126.04	122.20
29	D1	3225	C	N3-C2-O2	-5.49	118.06	121.90
1	A1	1072	C	C2-N1-C1'	5.49	124.83	118.80
29	B1	1146	C	C5-C6-N1	-5.49	118.26	121.00
29	B1	1751	G	C5-C6-N1	5.49	114.24	111.50
29	B1	3106	A	C5-C6-N6	-5.49	119.31	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	804	C	N3-C4-C5	5.49	124.09	121.90
29	D1	2869	U	N3-C2-O2	-5.49	118.36	122.20
33	DB	141	PRO	N-CA-CB	5.49	109.88	103.30
29	B1	428	A	C5-N7-C8	-5.48	101.16	103.90
29	B1	1547	G	C8-N9-C1'	-5.48	119.87	127.00
35	DD	223	PRO	N-CA-CB	5.48	109.88	103.30
29	B1	794	U	N3-C2-O2	5.48	126.04	122.20
29	B1	1342	C	N1-C2-O2	-5.48	115.61	118.90
29	B1	2156	C	C5-C6-N1	-5.48	118.26	121.00
1	C1	388	G	N9-C4-C5	5.48	107.59	105.40
9	CH	122	PRO	N-CA-CB	5.48	109.88	103.30
29	D1	875	G	N1-C6-O6	5.48	123.19	119.90
29	D1	1141	C	C5-C6-N1	-5.48	118.26	121.00
29	D1	1628	C	N1-C2-O2	-5.48	115.61	118.90
29	D1	2349	U	C2-N1-C1'	5.48	124.28	117.70
29	D1	2897	A	C5-C6-N6	-5.48	119.31	123.70
29	D1	3303	G	C6-N1-C2	-5.48	121.81	125.10
1	A1	322	G	C5-C6-O6	-5.48	125.31	128.60
29	B1	886	C	N3-C4-C5	5.48	124.09	121.90
29	B1	1476	G	C6-N1-C2	-5.48	121.81	125.10
29	D1	513	G	C6-N1-C2	5.48	128.39	125.10
29	D1	857	G	C4-C5-N7	-5.48	108.61	110.80
29	D1	2527	G	C4-N9-C1'	-5.48	119.38	126.50
43	DN	48	GLY	N-CA-C	-5.48	99.40	113.10
29	B1	190	U	C6-N1-C1'	5.48	128.87	121.20
29	D1	120	G	C8-N9-C1'	5.48	134.12	127.00
29	B1	120	G	N3-C4-C5	5.48	131.34	128.60
29	B1	588	G	N3-C2-N2	-5.48	116.06	119.90
29	B1	718	G	N1-C6-O6	-5.48	116.61	119.90
29	B1	2370	G	N3-C2-N2	5.48	123.73	119.90
29	B1	2398	A	C6-C5-N7	-5.48	128.47	132.30
29	B1	2889	C	N1-C2-O2	-5.48	115.61	118.90
29	B1	3036	G	N7-C8-N9	-5.48	110.36	113.10
29	B1	3100	U	C5-C4-O4	-5.48	122.61	125.90
1	C1	1352	G	N3-C2-N2	-5.48	116.07	119.90
1	A1	1202	A	N1-C6-N6	-5.48	115.31	118.60
13	AL	82	PRO	N-CA-CB	5.48	109.87	103.30
29	B1	1061	A	C2-N3-C4	-5.48	107.86	110.60
1	A1	149	C	C6-N1-C1'	-5.47	114.23	120.80
29	B1	805	G	C8-N9-C4	-5.47	104.21	106.40
29	B1	2156	C	C2-N3-C4	-5.47	117.16	119.90
29	B1	2943	G	C2-N3-C4	-5.47	109.16	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2919	A	C6-C5-N7	-5.47	128.47	132.30
31	D3	17	A	N1-C6-N6	5.47	121.89	118.60
1	A1	1647	U	N1-C2-N3	-5.47	111.62	114.90
29	B1	703	G	N3-C2-N2	-5.47	116.07	119.90
29	B1	819	U	C6-N1-C2	5.47	124.28	121.00
29	B1	2939	G	N3-C4-C5	-5.47	125.86	128.60
1	C1	1190	C	N1-C2-O2	-5.47	115.62	118.90
29	D1	1336	U	C5-C4-O4	-5.47	122.62	125.90
29	D1	2370	G	C5-C6-O6	5.47	131.88	128.60
30	D2	14	U	N3-C4-C5	-5.47	111.32	114.60
46	BQ	84	PRO	N-CA-CB	5.47	109.86	103.30
1	C1	686	C	C5-C4-N4	-5.47	116.37	120.20
29	D1	656	A	C5-C6-N6	-5.47	119.32	123.70
29	D1	1183	C	N3-C4-C5	5.47	124.09	121.90
29	D1	2378	C	N1-C2-N3	5.47	123.03	119.20
1	A1	338	C	C6-N1-C1'	-5.47	114.24	120.80
29	B1	73	C	N3-C2-O2	-5.47	118.07	121.90
29	B1	1887	A	N3-C4-N9	-5.47	123.02	127.40
29	B1	2919	A	C4-N9-C1'	5.47	136.15	126.30
35	BD	23	PRO	N-CA-CB	5.47	109.86	103.30
29	D1	101	G	N3-C4-C5	5.47	131.34	128.60
29	D1	1295	G	N9-C4-C5	-5.47	103.21	105.40
29	B1	877	C	C5-C6-N1	5.47	123.73	121.00
29	B1	1507	G	N3-C2-N2	-5.47	116.07	119.90
42	BK	134	PRO	N-CA-CB	5.47	109.86	103.30
1	C1	246	G	C4-N9-C1'	-5.47	119.39	126.50
1	C1	479	C	C2-N3-C4	-5.47	117.17	119.90
29	D1	503	C	C2-N1-C1'	-5.47	112.79	118.80
29	D1	640	U	N3-C4-C5	-5.47	111.32	114.60
29	D1	2637	A	C4-C5-C6	5.47	119.73	117.00
29	D1	3035	A	C4-N9-C1'	5.47	136.14	126.30
1	A1	981	U	C2-N1-C1'	5.46	124.26	117.70
1	A1	1109	G	C4-C5-N7	5.46	112.99	110.80
1	A1	1149	G	C2-N3-C4	5.46	114.63	111.90
29	B1	572	A	N9-C4-C5	-5.46	103.61	105.80
29	B1	607	A	C4-N9-C1'	5.46	136.13	126.30
29	B1	1418	A	C5-N7-C8	5.46	106.63	103.90
29	B1	1677	G	N3-C2-N2	5.46	123.72	119.90
1	C1	373	G	C2-N3-C4	-5.46	109.17	111.90
6	CE	144	PRO	N-CA-CB	5.46	109.86	103.30
29	D1	787	G	C2-N3-C4	-5.46	109.17	111.90
29	D1	907	G	C5-C6-O6	-5.46	125.32	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2951	G	N3-C4-C5	5.46	131.33	128.60
29	B1	873	C	C5-C4-N4	-5.46	116.38	120.20
31	D3	92	A	N1-C2-N3	-5.46	126.57	129.30
36	DE	84	PRO	N-CA-CB	5.46	109.86	103.30
29	B1	2893	C	C2-N3-C4	-5.46	117.17	119.90
29	B1	2982	A	C8-N9-C4	-5.46	103.61	105.80
29	B1	3108	G	C4-C5-C6	-5.46	115.52	118.80
2	CA	35	PRO	N-CA-CB	5.46	109.85	103.30
29	D1	859	G	C4-N9-C1'	5.46	133.60	126.50
29	D1	1146	C	C5-C4-N4	-5.46	116.38	120.20
30	D2	101	G	N3-C4-N9	-5.46	122.72	126.00
29	B1	97	U	N3-C2-O2	5.46	126.02	122.20
29	B1	1751	G	C4-C5-N7	-5.46	108.62	110.80
29	B1	2283	G	N3-C4-C5	5.46	131.33	128.60
29	B1	50	U	N1-C2-N3	5.46	118.17	114.90
29	B1	1357	G	C4-C5-N7	-5.46	108.62	110.80
30	B2	6	C	C2-N1-C1'	5.46	124.81	118.80
29	D1	1060	U	C5-C4-O4	-5.46	122.62	125.90
29	D1	2901	G	C6-C5-N7	-5.46	127.12	130.40
29	D1	3061	G	N3-C4-N9	-5.46	122.72	126.00
30	D2	34	C	N3-C2-O2	-5.46	118.08	121.90
29	B1	865	U	C6-N1-C2	5.46	124.27	121.00
29	B1	921	A	C8-N9-C4	-5.46	103.62	105.80
29	B1	2361	A	N1-C6-N6	-5.46	115.33	118.60
29	B1	3138	U	C5-C6-N1	5.46	125.43	122.70
1	C1	1420	C	C5-C6-N1	5.46	123.73	121.00
29	D1	1072	G	C2-N3-C4	5.46	114.63	111.90
29	D1	2394	G	C4-C5-N7	-5.46	108.62	110.80
29	D1	3069	G	C6-C5-N7	-5.46	127.13	130.40
29	B1	1657	C	N1-C2-O2	5.46	122.17	118.90
29	D1	685	G	N9-C4-C5	-5.46	103.22	105.40
29	D1	3131	U	C2-N3-C4	-5.46	123.73	127.00
29	B1	1452	A	C5-N7-C8	-5.45	101.17	103.90
29	B1	2830	G	C2-N3-C4	-5.45	109.17	111.90
29	B1	2894	C	C5-C6-N1	-5.45	118.27	121.00
2	CA	4	PRO	N-CA-CB	5.45	109.84	103.30
29	D1	1179	A	C6-C5-N7	-5.45	128.48	132.30
29	B1	584	G	N3-C2-N2	-5.45	116.08	119.90
29	B1	2823	G	C4-C5-N7	-5.45	108.62	110.80
29	D1	3325	G	C8-N9-C4	5.45	108.58	106.40
1	A1	373	G	N3-C4-N9	-5.45	122.73	126.00
29	B1	214	G	C4-N9-C1'	-5.45	119.42	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	B3	51	G	C4-N9-C1'	5.45	133.59	126.50
29	D1	389	A	C6-C5-N7	5.45	136.12	132.30
29	D1	851	C	N3-C4-C5	5.45	124.08	121.90
29	D1	920	A	C8-N9-C4	-5.45	103.62	105.80
29	D1	2278	C	N3-C4-C5	5.45	124.08	121.90
29	D1	3213	A	C5-C6-N6	-5.45	119.34	123.70
29	B1	380	U	C5-C4-O4	5.45	129.17	125.90
29	B1	877	C	N3-C2-O2	-5.45	118.09	121.90
29	B1	2131	A	C4-C5-C6	5.45	119.72	117.00
29	B1	2361	A	C6-N1-C2	-5.45	115.33	118.60
29	D1	561	C	C5-C6-N1	-5.45	118.28	121.00
29	D1	1516	C	N1-C2-O2	-5.45	115.63	118.90
29	D1	2686	A	N1-C6-N6	5.45	121.87	118.60
29	D1	2946	A	N7-C8-N9	5.45	116.52	113.80
29	D1	3232	G	C2-N3-C4	5.45	114.62	111.90
29	B1	2301	U	N1-C2-O2	-5.45	118.99	122.80
31	B3	51	G	N7-C8-N9	5.45	115.82	113.10
29	D1	382	U	N3-C2-O2	5.45	126.01	122.20
29	D1	676	G	N3-C2-N2	5.45	123.71	119.90
29	D1	2752	U	C2-N1-C1'	5.45	124.24	117.70
29	B1	335	G	C5-N7-C8	-5.45	101.58	104.30
29	B1	2134	G	C6-C5-N7	-5.45	127.13	130.40
29	B1	2241	U	N1-C2-N3	5.45	118.17	114.90
29	B1	2527	G	C8-N9-C1'	5.45	134.08	127.00
29	D1	1368	U	C5-C4-O4	-5.45	122.63	125.90
29	D1	2846	U	N1-C2-O2	-5.45	118.99	122.80
29	D1	2895	G	N1-C6-O6	-5.45	116.63	119.90
29	D1	2983	C	N3-C2-O2	-5.45	118.09	121.90
29	D1	3034	C	C6-N1-C2	5.45	122.48	120.30
44	DO	42	PRO	N-CA-CB	5.45	109.83	103.30
1	C1	1633	A	C8-N9-C4	-5.44	103.62	105.80
29	D1	1389	G	C3'-C2'-C1'	5.44	105.86	101.50
29	B1	1048	A	C5-C6-N6	-5.44	119.35	123.70
29	B1	1877	U	C5-C6-N1	5.44	125.42	122.70
1	C1	336	G	N1-C2-N2	-5.44	111.30	116.20
1	C1	1203	A	C4-C5-C6	5.44	119.72	117.00
29	D1	875	G	N3-C4-N9	5.44	129.27	126.00
29	D1	1788	C	C6-N1-C1'	-5.44	114.27	120.80
1	A1	479	C	C2-N1-C1'	-5.44	112.81	118.80
29	B1	340	C	C5-C6-N1	5.44	123.72	121.00
29	B1	832	G	N9-C4-C5	-5.44	103.22	105.40
29	B1	2289	U	C5-C4-O4	-5.44	122.64	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	831	G	C8-N9-C4	5.44	108.58	106.40
29	D1	886	C	N3-C4-C5	5.44	124.08	121.90
29	D1	2319	U	N3-C2-O2	-5.44	118.39	122.20
1	A1	1455	G	N3-C4-C5	-5.44	125.88	128.60
29	B1	762	U	N1-C2-O2	-5.44	118.99	122.80
1	C1	1421	A	C4-C5-N7	-5.44	107.98	110.70
29	D1	3035	A	N1-C6-N6	5.44	121.86	118.60
29	B1	589	A	C4-C5-N7	-5.44	107.98	110.70
29	B1	867	G	C2-N3-C4	-5.44	109.18	111.90
29	B1	1301	A	N1-C6-N6	5.44	121.86	118.60
29	B1	2372	A	C5-C6-N1	-5.44	114.98	117.70
1	C1	1127	G	C8-N9-C4	5.44	108.58	106.40
1	C1	1142	A	N1-C6-N6	-5.44	115.34	118.60
11	AJ	35	PRO	N-CA-CB	5.44	109.82	103.30
29	B1	86	G	N3-C4-N9	-5.44	122.74	126.00
35	BD	21	PRO	N-CA-CB	5.44	109.82	103.30
1	C1	1276	U	N3-C2-O2	5.44	126.00	122.20
73	DM	198	PRO	N-CA-CB	5.44	109.82	103.30
1	A1	1438	G	N1-C6-O6	5.43	123.16	119.90
2	AA	152	PRO	N-CA-CB	5.43	109.82	103.30
29	B1	2716	U	C2-N1-C1'	5.43	124.22	117.70
29	B1	3055	U	C5-C6-N1	-5.43	119.98	122.70
29	D1	88	A	N3-C4-C5	5.43	130.60	126.80
29	D1	1312	C	C6-N1-C2	-5.43	118.13	120.30
29	D1	1940	G	C5-C6-N1	5.43	114.22	111.50
30	D2	13	A	N7-C8-N9	-5.43	111.08	113.80
1	A1	1205	C	C2-N1-C1'	5.43	124.78	118.80
1	A1	1673	G	N3-C4-C5	-5.43	125.88	128.60
1	A1	1788	G	N3-C4-C5	5.43	131.32	128.60
29	B1	497	C	C2-N3-C4	-5.43	117.18	119.90
29	B1	1431	G	N9-C4-C5	5.43	107.57	105.40
29	B1	1459	C	N1-C2-O2	-5.43	115.64	118.90
29	B1	2350	C	N1-C2-O2	-5.43	115.64	118.90
29	B1	3101	G	C5-C6-O6	-5.43	125.34	128.60
29	B1	3176	G	C5-C6-O6	5.43	131.86	128.60
29	B1	3246	G	N3-C2-N2	-5.43	116.10	119.90
34	BC	83	PRO	N-CA-CB	5.43	109.82	103.30
1	C1	364	G	N9-C4-C5	5.43	107.57	105.40
1	C1	939	A	N3-C4-C5	-5.43	123.00	126.80
1	C1	1142	A	C5-C6-N1	5.43	120.42	117.70
1	C1	1463	C	N3-C4-C5	5.43	124.07	121.90
29	D1	498	A	C6-N1-C2	5.43	121.86	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1002	A	C2-N3-C4	5.43	113.32	110.60
29	D1	1420	C	C2-N3-C4	-5.43	117.18	119.90
29	D1	3000	A	N3-C4-N9	-5.43	123.05	127.40
29	D1	3005	A	N9-C4-C5	5.43	107.97	105.80
29	D1	3300	U	C6-N1-C1'	5.43	128.81	121.20
29	B1	866	A	C5-N7-C8	-5.43	101.18	103.90
29	B1	1365	G	C8-N9-C4	-5.43	104.23	106.40
29	D1	747	A	C5-C6-N6	-5.43	119.36	123.70
29	D1	1172	G	N1-C2-N3	5.43	127.16	123.90
1	A1	1203	A	N1-C2-N3	5.43	132.01	129.30
29	B1	1415	U	N3-C4-C5	-5.43	111.34	114.60
29	B1	2611	U	N3-C4-C5	-5.43	111.34	114.60
1	C1	943	C	C6-N1-C2	5.43	122.47	120.30
29	D1	873	C	N1-C2-O2	-5.43	115.64	118.90
29	D1	2320	A	C8-N9-C4	5.43	107.97	105.80
29	D1	3046	A	C5-C6-N1	5.43	120.42	117.70
53	DX	34	PRO	N-CA-CB	5.43	109.82	103.30
31	B3	41	A	C8-N9-C4	-5.43	103.63	105.80
1	C1	1512	G	C8-N9-C1'	-5.43	119.94	127.00
29	D1	3373	U	N3-C2-O2	-5.43	118.40	122.20
1	A1	967	A	C8-N9-C4	5.43	107.97	105.80
29	B1	1334	U	N1-C2-O2	-5.43	119.00	122.80
29	B1	1880	U	C6-N1-C2	5.43	124.26	121.00
29	B1	3089	C	C2-N1-C1'	5.43	124.77	118.80
29	B1	3184	A	C8-N9-C1'	-5.43	117.93	127.70
31	B3	113	U	N1-C2-N3	5.43	118.16	114.90
2	CA	104	PRO	N-CA-CB	5.43	109.81	103.30
29	D1	1499	C	C5-C6-N1	-5.43	118.29	121.00
29	B1	3099	C	C5-C4-N4	-5.42	116.40	120.20
1	C1	869	A	C2-N3-C4	5.42	113.31	110.60
1	C1	1541	G	C5-C6-N1	-5.42	108.79	111.50
29	D1	719	U	C6-N1-C2	5.42	124.25	121.00
29	D1	1318	A	C5-C6-N6	-5.42	119.36	123.70
29	D1	1678	G	N3-C4-N9	-5.42	122.75	126.00
29	D1	3140	G	C8-N9-C1'	-5.42	119.95	127.00
31	D3	68	G	N3-C2-N2	-5.42	116.10	119.90
29	B1	1508	C	N3-C2-O2	-5.42	118.10	121.90
29	D1	137	G	C8-N9-C1'	-5.42	119.95	127.00
29	D1	656	A	N3-C4-N9	5.42	131.74	127.40
29	D1	1139	G	N3-C4-C5	5.42	131.31	128.60
29	D1	2398	A	C6-C5-N7	-5.42	128.50	132.30
29	B1	300	G	C6-C5-N7	-5.42	127.15	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	419	G	N7-C8-N9	-5.42	110.39	113.10
29	B1	1780	G	C3'-C2'-C1'	5.42	105.84	101.50
50	BU	67	PRO	N-CA-CB	5.42	109.81	103.30
1	C1	1591	C	C6-N1-C1'	5.42	127.31	120.80
7	CF	130	PRO	N-CA-CB	5.42	109.81	103.30
29	D1	1467	A	N7-C8-N9	-5.42	111.09	113.80
29	D1	2897	A	C6-N1-C2	-5.42	115.35	118.60
2	AA	142	PRO	N-CA-CB	5.42	109.80	103.30
1	C1	869	A	C5-C6-N6	-5.42	119.36	123.70
29	D1	515	C	N3-C4-C5	-5.42	119.73	121.90
1	A1	63	G	N7-C8-N9	-5.42	110.39	113.10
1	A1	864	U	C5-C6-N1	5.42	125.41	122.70
29	B1	1628	C	N1-C2-O2	-5.42	115.65	118.90
29	B1	2947	G	C6-C5-N7	5.42	133.65	130.40
29	B1	3173	G	C4-C5-N7	5.42	112.97	110.80
29	B1	3199	G	N3-C2-N2	-5.42	116.11	119.90
29	D1	822	G	N3-C4-C5	5.42	131.31	128.60
29	D1	2607	G	C4-N9-C1'	5.42	133.54	126.50
29	D1	2857	C	C6-N1-C2	5.42	122.47	120.30
29	D1	3200	G	C5-C6-N1	-5.42	108.79	111.50
1	A1	867	G	C5-C6-O6	5.42	131.85	128.60
1	A1	1535	U	C2-N1-C1'	5.42	124.20	117.70
29	B1	2147	A	N3-C4-C5	5.42	130.59	126.80
29	B1	2737	C	C2-N3-C4	-5.42	117.19	119.90
29	D1	1217	A	C5-N7-C8	-5.42	101.19	103.90
29	D1	1403	C	C2-N3-C4	-5.42	117.19	119.90
29	D1	2961	G	C6-C5-N7	-5.42	127.15	130.40
29	B1	1067	U	N3-C4-C5	5.42	117.85	114.60
29	B1	2752	U	C6-N1-C2	-5.42	117.75	121.00
29	D1	744	A	N9-C4-C5	5.42	107.97	105.80
1	A1	1121	C	C6-N1-C1'	5.41	127.30	120.80
29	B1	1047	A	C5-C6-N6	5.41	128.03	123.70
29	B1	1403	C	N3-C4-C5	5.41	124.07	121.90
29	B1	2586	G	N1-C6-O6	-5.41	116.65	119.90
1	C1	114	C	C6-N1-C2	5.41	122.47	120.30
29	D1	509	U	N1-C2-N3	5.41	118.15	114.90
29	D1	1076	C	C6-N1-C1'	-5.41	114.30	120.80
29	D1	1515	A	C6-N1-C2	-5.41	115.35	118.60
30	D2	14	U	C5-C6-N1	5.41	125.41	122.70
29	B1	271	C	C5-C6-N1	5.41	123.71	121.00
29	B1	402	A	N7-C8-N9	5.41	116.51	113.80
29	B1	2149	A	C5-C6-N1	5.41	120.41	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	12	U	C5-C6-N1	-5.41	119.99	122.70
1	A1	565	C	N3-C4-N4	-5.41	114.21	118.00
1	A1	1775	U	N1-C2-O2	-5.41	119.01	122.80
29	B1	74	G	C5-C6-O6	-5.41	125.35	128.60
29	B1	657	A	N3-C4-C5	5.41	130.59	126.80
29	B1	779	G	N1-C6-O6	5.41	123.15	119.90
29	B1	940	G	C4-C5-N7	5.41	112.96	110.80
29	B1	1401	A	C6-N1-C2	5.41	121.85	118.60
1	C1	1205	C	C2-N1-C1'	5.41	124.75	118.80
29	D1	511	G	C5-C6-N1	-5.41	108.79	111.50
29	D1	2296	A	N7-C8-N9	5.41	116.50	113.80
31	D3	92	A	N3-C4-N9	-5.41	123.07	127.40
1	A1	391	A	N3-C4-C5	5.41	130.59	126.80
1	A1	1348	A	C5-C6-N1	-5.41	115.00	117.70
29	B1	2639	G	C4-C5-N7	5.41	112.96	110.80
1	C1	45	U	C3'-C2'-C1'	5.41	105.83	101.50
1	C1	1008	G	C4-N9-C1'	5.41	133.53	126.50
29	D1	2895	G	C6-C5-N7	5.41	133.65	130.40
29	B1	3106	A	C4-C5-N7	5.41	113.40	110.70
7	AF	95	PRO	N-CA-CB	5.41	109.79	103.30
29	B1	731	U	C5-C6-N1	-5.41	120.00	122.70
29	B1	1212	A	C8-N9-C4	-5.41	103.64	105.80
29	B1	1303	A	N1-C2-N3	5.41	132.00	129.30
29	B1	1404	G	C6-C5-N7	-5.41	127.16	130.40
1	C1	315	A	N1-C6-N6	-5.41	115.36	118.60
29	D1	918	C	N1-C2-O2	-5.41	115.66	118.90
29	D1	3045	G	N7-C8-N9	5.41	115.80	113.10
50	DU	67	PRO	N-CA-CB	5.41	109.79	103.30
1	C1	601	A	C5-C6-N6	-5.40	119.38	123.70
29	D1	3099	C	C2-N1-C1'	5.40	124.74	118.80
29	B1	1161	G	C8-N9-C4	-5.40	104.24	106.40
29	B1	2195	C	C5-C4-N4	-5.40	116.42	120.20
29	B1	2412	G	N3-C4-N9	5.40	129.24	126.00
1	C1	1606	C	N1-C2-O2	-5.40	115.66	118.90
29	D1	1156	C	N3-C4-C5	-5.40	119.74	121.90
1	A1	883	C	C2-N1-C1'	5.40	124.74	118.80
1	A1	1220	C	N1-C2-O2	5.40	122.14	118.90
1	A1	1792	G	N3-C4-N9	5.40	129.24	126.00
29	B1	727	G	N1-C6-O6	5.40	123.14	119.90
29	B1	860	G	C8-N9-C1'	-5.40	119.98	127.00
46	BQ	123	PRO	N-CA-CB	5.40	109.78	103.30
1	C1	208	U	C5-C6-N1	-5.40	120.00	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	390	G	C2-N3-C4	-5.40	109.20	111.90
29	D1	2943	G	C8-N9-C4	5.40	108.56	106.40
1	A1	1331	A	N1-C6-N6	-5.40	115.36	118.60
1	A1	1459	C	C4-C5-C6	5.40	120.10	117.40
29	B1	2972	G	C4-N9-C1'	5.40	133.52	126.50
1	A1	1553	G	C4-C5-N7	5.40	112.96	110.80
29	B1	67	A	N9-C4-C5	5.40	107.96	105.80
29	B1	288	C	C4-C5-C6	5.40	120.10	117.40
29	B1	905	U	C2-N3-C4	-5.40	123.76	127.00
1	C1	994	G	C8-N9-C4	5.40	108.56	106.40
29	B1	505	G	C2-N3-C4	-5.39	109.20	111.90
29	B1	1821	U	N3-C2-O2	-5.39	118.42	122.20
29	B1	2671	A	N9-C4-C5	-5.39	103.64	105.80
29	B1	3143	C	N3-C4-C5	-5.39	119.74	121.90
29	D1	45	A	C6-N1-C2	5.39	121.84	118.60
29	D1	55	G	N3-C4-C5	5.39	131.30	128.60
29	D1	883	A	N1-C6-N6	-5.39	115.36	118.60
29	D1	1052	U	N3-C2-O2	5.39	125.98	122.20
29	D1	2940	A	C2-N3-C4	5.39	113.30	110.60
30	D2	119	U	C6-N1-C2	-5.39	117.76	121.00
31	D3	113	U	N1-C2-N3	5.39	118.14	114.90
29	B1	1305	U	C6-N1-C2	5.39	124.23	121.00
1	C1	376	C	C2-N1-C1'	5.39	124.73	118.80
29	D1	1364	C	C5-C6-N1	-5.39	118.30	121.00
29	D1	2270	A	C8-N9-C4	-5.39	103.64	105.80
29	D1	2680	A	N1-C6-N6	5.39	121.84	118.60
29	D1	3220	G	C6-C5-N7	-5.39	127.17	130.40
29	D1	3232	G	C6-C5-N7	5.39	133.64	130.40
16	AO	29	PRO	N-CA-CB	5.39	109.77	103.30
1	C1	572	C	C5-C6-N1	5.39	123.70	121.00
29	D1	575	G	C4-C5-N7	-5.39	108.64	110.80
29	D1	1059	G	N3-C4-N9	-5.39	122.77	126.00
29	D1	2929	C	C2-N1-C1'	5.39	124.73	118.80
29	B1	1000	C	N3-C2-O2	5.39	125.67	121.90
29	D1	1613	A	N1-C6-N6	-5.39	115.37	118.60
29	D1	1318	A	C2-N3-C4	5.39	113.29	110.60
1	A1	341	A	C6-N1-C2	-5.39	115.37	118.60
33	BB	151	PRO	N-CA-CB	5.39	109.76	103.30
1	C1	338	C	C6-N1-C1'	-5.39	114.34	120.80
29	D1	3108	G	C4-C5-C6	-5.39	115.57	118.80
1	A1	1600	A	C8-N9-C4	-5.38	103.65	105.80
29	B1	3084	C	N3-C4-N4	5.38	121.77	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1421	A	N9-C4-C5	5.38	107.95	105.80
29	D1	1208	U	C5-C4-O4	5.38	129.13	125.90
1	A1	869	A	C5-C6-N6	-5.38	119.39	123.70
29	B1	3179	U	C4-C5-C6	5.38	122.93	119.70
29	D1	2427	U	N1-C2-O2	-5.38	119.03	122.80
1	A1	406	U	C6-N1-C2	5.38	124.23	121.00
29	B1	404	G	C5-C6-N1	-5.38	108.81	111.50
29	B1	665	A	N1-C6-N6	-5.38	115.37	118.60
29	B1	2689	A	C5-C6-N6	5.38	128.00	123.70
29	B1	3380	U	C5-C4-O4	5.38	129.13	125.90
29	D1	2180	G	C5-C6-N1	5.38	114.19	111.50
30	D2	103	A	C4-C5-N7	5.38	113.39	110.70
29	B1	685	G	N3-C4-N9	5.38	129.23	126.00
1	C1	10	G	C5-C6-N1	-5.38	108.81	111.50
29	B1	504	A	C8-N9-C1'	-5.38	118.02	127.70
29	B1	1877	U	N1-C2-O2	5.38	126.56	122.80
29	B1	2196	C	N3-C4-C5	5.38	124.05	121.90
29	B1	3230	G	N1-C6-O6	-5.38	116.67	119.90
1	C1	1109	G	C6-N1-C2	-5.38	121.87	125.10
29	D1	779	G	C8-N9-C1'	-5.38	120.01	127.00
29	D1	2705	A	C5-C6-N1	5.38	120.39	117.70
29	B1	1473	G	N1-C2-N3	5.38	127.13	123.90
29	B1	3300	U	C6-N1-C2	-5.38	117.77	121.00
29	D1	70	A	C2-N3-C4	5.38	113.29	110.60
29	D1	1194	G	C4-N9-C1'	5.38	133.49	126.50
1	A1	509	G	N9-C4-C5	5.38	107.55	105.40
29	B1	637	C	N1-C2-O2	-5.38	115.67	118.90
29	B1	2807	U	N1-C2-O2	-5.38	119.04	122.80
29	B1	3193	C	C6-N1-C1'	5.38	127.25	120.80
29	B1	3222	U	C5-C6-N1	-5.38	120.01	122.70
29	B1	712	G	N3-C4-N9	5.37	129.22	126.00
29	B1	882	A	C5-C6-N6	5.37	128.00	123.70
29	B1	2559	U	N1-C2-O2	5.37	126.56	122.80
29	B1	2700	G	N1-C6-O6	5.37	123.12	119.90
29	B1	3131	U	C2-N1-C1'	5.37	124.15	117.70
52	BW	66	PRO	N-CA-CB	5.37	109.75	103.30
29	D1	1285	G	C8-N9-C1'	-5.37	120.02	127.00
29	D1	1883	A	C6-N1-C2	-5.37	115.38	118.60
29	D1	2102	U	C2-N1-C1'	-5.37	111.25	117.70
29	D1	2853	A	C5-C6-N6	-5.37	119.40	123.70
29	D1	3393	U	C5-C4-O4	-5.37	122.68	125.90
34	DC	170	PRO	N-CA-CB	5.37	109.75	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	865	U	C5-C6-N1	-5.37	120.01	122.70
29	B1	1480	G	N9-C4-C5	-5.37	103.25	105.40
30	B2	10	C	C6-N1-C2	-5.37	118.15	120.30
1	C1	479	C	N1-C2-O2	-5.37	115.68	118.90
29	D1	1481	A	N1-C6-N6	5.37	121.82	118.60
29	D1	3363	U	N1-C2-N3	-5.37	111.68	114.90
29	B1	1900	A	N1-C6-N6	5.37	121.82	118.60
29	B1	2940	A	C8-N9-C4	-5.37	103.65	105.80
29	D1	3307	A	C6-C5-N7	-5.37	128.54	132.30
29	B1	3103	A	C2-N3-C4	5.37	113.28	110.60
31	B3	44	A	C5-C6-N1	5.37	120.38	117.70
29	D1	1379	G	C2-N3-C4	-5.37	109.22	111.90
29	D1	3108	G	C4-N9-C1'	-5.37	119.52	126.50
29	B1	1891	A	C5-N7-C8	-5.37	101.22	103.90
1	A1	300	A	N1-C6-N6	-5.37	115.38	118.60
1	A1	577	G	N1-C6-O6	5.37	123.12	119.90
29	B1	137	G	C8-N9-C1'	-5.37	120.02	127.00
29	B1	1482	A	C8-N9-C4	-5.37	103.65	105.80
29	B1	1899	G	C8-N9-C4	5.37	108.55	106.40
1	C1	1331	A	N3-C4-C5	-5.37	123.04	126.80
29	D1	506	U	C2-N1-C1'	5.37	124.14	117.70
29	D1	1091	A	C5-C6-N6	-5.37	119.41	123.70
29	D1	1403	C	C5-C6-N1	-5.37	118.32	121.00
1	A1	1046	G	C4-N9-C1'	5.36	133.47	126.50
29	B1	3193	C	C6-N1-C2	-5.36	118.16	120.30
21	CT	206	PRO	N-CA-CB	5.36	109.73	103.30
29	D1	532	A	N1-C6-N6	5.36	121.82	118.60
29	D1	1552	G	N3-C4-N9	5.36	129.22	126.00
29	B1	2643	A	N3-C4-C5	5.36	130.55	126.80
29	B1	3386	G	C4-C5-C6	5.36	122.02	118.80
44	BO	45	PRO	N-CA-CB	5.36	109.73	103.30
1	C1	390	G	C8-N9-C1'	-5.36	120.03	127.00
29	D1	2395	G	C8-N9-C4	-5.36	104.25	106.40
31	D3	87	G	C8-N9-C1'	-5.36	120.03	127.00
29	B1	821	U	C5-C6-N1	-5.36	120.02	122.70
29	B1	3172	A	N1-C2-N3	5.36	131.98	129.30
33	BB	141	PRO	N-CA-CB	5.36	109.73	103.30
29	D1	1277	C	N3-C4-C5	5.36	124.04	121.90
29	D1	1856	C	C5-C6-N1	-5.36	118.32	121.00
29	D1	2680	A	C5-C6-N6	-5.36	119.41	123.70
29	D1	2810	C	C5-C4-N4	-5.36	116.45	120.20
52	DW	116	PRO	N-CA-CB	5.36	109.73	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	281	G	C6-C5-N7	-5.36	127.18	130.40
29	D1	2364	G	C8-N9-C4	5.36	108.54	106.40
29	B1	2372	A	C4-C5-C6	5.36	119.68	117.00
29	D1	527	A	C5-C6-N1	5.36	120.38	117.70
29	D1	1608	C	C6-N1-C1'	-5.36	114.37	120.80
29	D1	2707	C	C3'-C2'-C1'	5.36	105.79	101.50
29	D1	3205	G	C4-N9-C1'	5.36	133.46	126.50
1	A1	975	C	C6-N1-C2	5.36	122.44	120.30
29	B1	1107	C	C2-N3-C4	-5.36	117.22	119.90
29	B1	2982	A	N9-C4-C5	5.36	107.94	105.80
29	B1	3078	U	C2-N1-C1'	5.36	124.13	117.70
29	D1	2144	A	N1-C6-N6	-5.36	115.39	118.60
7	AF	130	PRO	N-CA-CB	5.35	109.72	103.30
31	B3	68	G	N3-C2-N2	-5.35	116.15	119.90
29	D1	402	A	C5-N7-C8	-5.35	101.22	103.90
2	AA	161	PRO	N-CA-CB	5.35	109.72	103.30
29	B1	2343	C	N1-C2-O2	-5.35	115.69	118.90
29	B1	2869	U	C2-N1-C1'	5.35	124.12	117.70
29	B1	3213	A	C5-C6-N6	-5.35	119.42	123.70
1	C1	590	C	N1-C2-O2	-5.35	115.69	118.90
29	D1	3078	U	N1-C2-N3	-5.35	111.69	114.90
31	D3	33	A	C8-N9-C4	5.35	107.94	105.80
39	DH	99	PRO	N-CA-CB	5.35	109.72	103.30
50	DU	127	PRO	N-CA-CB	5.35	109.72	103.30
29	B1	39	A	N3-C4-C5	5.35	130.55	126.80
30	B2	29	C	N3-C4-C5	5.35	124.04	121.90
1	C1	1145	U	N1-C2-O2	-5.35	119.05	122.80
29	D1	3252	G	C6-N1-C2	-5.35	121.89	125.10
29	B1	576	C	C5-C4-N4	-5.35	116.46	120.20
29	B1	853	G	C4-C5-N7	-5.35	108.66	110.80
29	B1	2247	G	C5-N7-C8	-5.35	101.62	104.30
29	B1	3188	G	C8-N9-C1'	-5.35	120.05	127.00
42	BK	118	PRO	N-CA-CB	5.35	109.72	103.30
29	D1	1401	A	N1-C6-N6	-5.35	115.39	118.60
29	B1	2130	G	C6-C5-N7	-5.35	127.19	130.40
29	B1	2275	A	C5-C6-N1	-5.35	115.03	117.70
29	D1	654	C	C2-N3-C4	-5.35	117.23	119.90
29	D1	1315	U	C5-C4-O4	-5.35	122.69	125.90
31	D3	113	U	O4'-C1'-N1	5.35	112.48	108.20
29	D1	2376	G	C8-N9-C4	-5.35	104.26	106.40
29	B1	1396	C	C5-C4-N4	-5.34	116.46	120.20
29	B1	3097	C	C2-N3-C4	-5.34	117.23	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	358	U	C6-N1-C1'	-5.34	113.72	121.20
29	D1	750	G	C8-N9-C4	-5.34	104.26	106.40
1	A1	54	C	N3-C4-C5	5.34	124.04	121.90
1	A1	423	G	N9-C4-C5	5.34	107.54	105.40
29	B1	662	U	N1-C2-O2	5.34	126.54	122.80
29	B1	2326	A	C8-N9-C4	-5.34	103.66	105.80
1	C1	1639	C	N3-C2-O2	5.34	125.64	121.90
29	D1	884	A	N9-C4-C5	-5.34	103.66	105.80
29	D1	890	C	C5-C6-N1	-5.34	118.33	121.00
29	D1	2184	U	C5-C4-O4	-5.34	122.70	125.90
42	DK	118	PRO	N-CA-CB	5.34	109.71	103.30
1	A1	1450	U	N3-C2-O2	-5.34	118.46	122.20
29	B1	338	A	C6-N1-C2	-5.34	115.40	118.60
29	B1	992	A	C5-C6-N6	5.34	127.97	123.70
1	C1	1653	C	C5-C6-N1	-5.34	118.33	121.00
29	B1	1414	G	N3-C4-N9	-5.34	122.80	126.00
29	D1	3108	G	C5-C6-N1	5.34	114.17	111.50
35	DD	75	PRO	N-CA-CB	5.34	109.70	103.30
1	A1	408	C	C5-C4-N4	-5.34	116.46	120.20
1	A1	517	U	N3-C2-O2	5.34	125.94	122.20
1	A1	1620	C	C6-N1-C1'	-5.34	114.40	120.80
29	B1	117	U	C2-N3-C4	-5.34	123.80	127.00
29	B1	812	G	N3-C4-C5	5.34	131.27	128.60
29	D1	3007	U	C2-N1-C1'	5.34	124.11	117.70
29	B1	2377	G	C4-C5-N7	-5.33	108.67	110.80
29	B1	2780	A	C4-C5-C6	5.33	119.67	117.00
29	B1	3303	G	C6-N1-C2	-5.33	121.90	125.10
29	D1	1258	U	C5-C4-O4	5.33	129.10	125.90
1	A1	602	U	C2-N1-C1'	5.33	124.10	117.70
29	B1	325	A	N7-C8-N9	5.33	116.47	113.80
29	B1	707	U	C6-N1-C2	5.33	124.20	121.00
29	B1	1217	A	C6-N1-C2	-5.33	115.40	118.60
29	B1	1552	G	N1-C6-O6	5.33	123.10	119.90
29	B1	3391	A	C5-C6-N1	5.33	120.37	117.70
1	C1	287	G	N3-C4-N9	5.33	129.20	126.00
1	C1	456	A	C5-C6-N1	5.33	120.37	117.70
29	D1	380	U	N3-C2-O2	5.33	125.93	122.20
29	D1	1089	G	N3-C2-N2	-5.33	116.17	119.90
29	D1	2718	U	C5-C6-N1	-5.33	120.03	122.70
29	B1	2153	U	C2-N3-C4	-5.33	123.80	127.00
31	B3	44	A	C6-N1-C2	-5.33	115.40	118.60
53	BX	34	PRO	N-CA-CB	5.33	109.70	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	659	G	C8-N9-C1'	-5.33	120.07	127.00
29	D1	2684	C	C5-C4-N4	-5.33	116.47	120.20
29	D1	2699	G	N1-C6-O6	5.33	123.10	119.90
29	B1	86	G	C4-C5-N7	-5.33	108.67	110.80
29	B1	616	G	N1-C6-O6	5.33	123.10	119.90
29	D1	3035	A	N1-C2-N3	5.33	131.97	129.30
29	B1	1001	G	N7-C8-N9	5.33	115.76	113.10
29	B1	2341	A	N7-C8-N9	-5.33	111.14	113.80
29	B1	2943	G	C5-N7-C8	-5.33	101.64	104.30
29	B1	3177	G	C2-N3-C4	-5.33	109.23	111.90
29	D1	377	A	N1-C6-N6	5.33	121.80	118.60
33	BB	188	LYS	N-CA-C	-5.33	96.62	111.00
45	BP	109	PRO	N-CA-CB	5.33	109.69	103.30
1	C1	1558	U	C6-N1-C2	-5.33	117.80	121.00
29	D1	387	A	N3-C4-N9	-5.33	123.14	127.40
29	D1	756	U	C5-C4-O4	-5.33	122.70	125.90
29	D1	775	A	N1-C6-N6	5.33	121.80	118.60
29	D1	1177	G	C6-C5-N7	-5.33	127.20	130.40
29	D1	1321	G	N1-C2-N3	5.33	127.10	123.90
29	B1	315	C	C2-N1-C1'	5.33	124.66	118.80
29	B1	432	G	C6-C5-N7	-5.33	127.20	130.40
1	C1	1073	G	C6-C5-N7	-5.33	127.20	130.40
29	D1	389	A	C4-C5-N7	-5.33	108.04	110.70
29	D1	615	U	N3-C4-O4	5.33	123.13	119.40
29	D1	788	C	C4-C5-C6	5.33	120.06	117.40
29	D1	904	A	N3-C4-C5	5.33	130.53	126.80
29	B1	662	U	N3-C2-O2	-5.32	118.47	122.20
29	B1	1431	G	C6-N1-C2	-5.32	121.91	125.10
29	B1	1452	A	C5-C6-N6	-5.32	119.44	123.70
29	B1	3218	A	O4'-C1'-N9	5.32	112.46	108.20
29	D1	944	C	N3-C4-C5	5.32	124.03	121.90
29	D1	1322	U	C2-N3-C4	5.32	130.19	127.00
29	D1	2912	G	C5-C6-O6	-5.32	125.41	128.60
29	D1	3059	G	N1-C6-O6	5.32	123.09	119.90
1	A1	625	C	C6-N1-C1'	-5.32	114.41	120.80
1	A1	1611	A	C5-N7-C8	-5.32	101.24	103.90
29	B1	597	G	N9-C4-C5	-5.32	103.27	105.40
29	B1	2342	U	C6-N1-C2	5.32	124.19	121.00
1	C1	169	A	N1-C6-N6	5.32	121.79	118.60
1	C1	1658	G	N3-C4-C5	5.32	131.26	128.60
29	D1	3180	A	C5-C6-N6	-5.32	119.44	123.70
1	A1	1139	A	C8-N9-C4	5.32	107.93	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1004	U	N3-C4-O4	5.32	123.12	119.40
29	B1	2700	G	N9-C4-C5	-5.32	103.27	105.40
1	C1	426	G	N3-C2-N2	5.32	123.62	119.90
1	C1	1110	G	N1-C6-O6	-5.32	116.71	119.90
1	C1	1640	C	N3-C4-C5	5.32	124.03	121.90
29	D1	982	C	C2-N1-C1'	5.32	124.65	118.80
29	D1	1734	G	C5-C6-O6	-5.32	125.41	128.60
29	D1	2882	U	N3-C4-O4	5.32	123.12	119.40
29	B1	417	A	C8-N9-C4	5.32	107.93	105.80
29	B1	524	U	C3'-C2'-C1'	5.32	105.75	101.50
29	B1	651	G	N1-C2-N2	-5.32	111.41	116.20
29	D1	1686	U	N1-C2-N3	-5.32	111.71	114.90
29	B1	70	A	N7-C8-N9	5.32	116.46	113.80
29	B1	409	A	N7-C8-N9	-5.32	111.14	113.80
29	D1	904	A	C5-C6-N1	-5.32	115.04	117.70
29	D1	2338	C	N3-C4-C5	5.32	124.03	121.90
29	D1	2353	G	C5-C6-O6	-5.32	125.41	128.60
30	D2	10	C	C5-C6-N1	5.32	123.66	121.00
1	A1	1385	G	C8-N9-C4	5.32	108.53	106.40
29	B1	624	G	N9-C4-C5	-5.32	103.27	105.40
29	B1	674	G	N3-C4-C5	5.32	131.26	128.60
29	B1	1133	A	C5-C6-N6	5.32	127.95	123.70
29	B1	1885	U	C6-N1-C2	5.32	124.19	121.00
29	B1	2246	G	N3-C4-N9	5.32	129.19	126.00
1	C1	1144	U	C5-C6-N1	-5.32	120.04	122.70
1	C1	1549	C	C5-C6-N1	-5.32	118.34	121.00
1	C1	1661	U	C2-N1-C1'	-5.32	111.32	117.70
29	D1	2650	U	C6-N1-C1'	5.32	128.64	121.20
29	D1	3321	C	C6-N1-C2	-5.32	118.17	120.30
29	D1	3332	U	C5-C4-O4	5.32	129.09	125.90
1	A1	1789	G	N9-C4-C5	-5.31	103.28	105.40
29	B1	1472	U	C2-N3-C4	-5.31	123.81	127.00
1	C1	391	A	C8-N9-C4	5.31	107.92	105.80
1	C1	1132	A	N9-C4-C5	-5.31	103.67	105.80
1	C1	1417	A	N1-C6-N6	5.31	121.79	118.60
29	D1	730	C	C6-N1-C2	-5.31	118.17	120.30
29	D1	1045	C	N3-C2-O2	5.31	125.62	121.90
29	D1	1188	U	N3-C4-C5	5.31	117.79	114.60
29	D1	2618	G	C4-C5-N7	-5.31	108.67	110.80
29	D1	2918	G	N9-C4-C5	5.31	107.53	105.40
29	D1	3199	G	C5-C6-N1	-5.31	108.84	111.50
44	DO	74	PRO	N-CA-CB	5.31	109.67	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1303	A	N3-C4-N9	-5.31	123.15	127.40
29	D1	112	U	N1-C2-O2	-5.31	119.08	122.80
29	B1	1363	A	N3-C4-C5	5.31	130.52	126.80
29	B1	1522	U	C6-N1-C1'	-5.31	113.77	121.20
29	B1	3221	C	N3-C4-N4	5.31	121.72	118.00
29	D1	125	C	C5-C4-N4	-5.31	116.48	120.20
29	D1	744	A	C5-N7-C8	5.31	106.55	103.90
29	D1	2113	A	C8-N9-C4	5.31	107.92	105.80
29	D1	3188	G	N3-C4-N9	5.31	129.19	126.00
29	B1	706	A	C5-C6-N1	-5.31	115.05	117.70
29	B1	726	G	C4-C5-C6	5.31	121.98	118.80
29	B1	1657	C	N3-C2-O2	-5.31	118.19	121.90
29	B1	2687	G	N3-C4-C5	-5.31	125.95	128.60
29	B1	3181	C	N3-C2-O2	5.31	125.62	121.90
29	D1	74	G	C4-C5-N7	5.31	112.92	110.80
29	D1	137	G	C4-N9-C1'	5.31	133.40	126.50
29	D1	1063	G	C8-N9-C1'	5.31	133.90	127.00
29	D1	1368	U	N3-C4-O4	5.31	123.11	119.40
29	D1	1382	G	N3-C4-C5	5.31	131.25	128.60
1	A1	1348	A	C3'-C2'-C1'	-5.31	97.25	101.50
1	C1	621	A	N7-C8-N9	-5.31	111.15	113.80
29	D1	364	G	N3-C4-N9	5.31	129.18	126.00
29	D1	687	U	C2-N3-C4	-5.31	123.82	127.00
29	D1	1065	A	C5-C6-N1	5.31	120.35	117.70
30	D2	93	C	N3-C4-N4	5.31	121.71	118.00
1	A1	1633	A	C8-N9-C4	-5.30	103.68	105.80
29	B1	120	G	C6-C5-N7	5.30	133.58	130.40
1	C1	1204	A	C8-N9-C4	5.30	107.92	105.80
29	D1	185	C	C6-N1-C2	5.30	122.42	120.30
29	D1	432	G	C5-C6-O6	-5.30	125.42	128.60
29	D1	1703	U	N3-C2-O2	-5.30	118.49	122.20
29	D1	2117	A	N7-C8-N9	-5.30	111.15	113.80
29	D1	2120	A	C5-C6-N1	-5.30	115.05	117.70
29	D1	1010	G	C5-N7-C8	-5.30	101.65	104.30
29	D1	1501	U	C6-N1-C2	5.30	124.18	121.00
1	A1	1645	G	C4-C5-N7	5.30	112.92	110.80
29	B1	712	G	C8-N9-C4	5.30	108.52	106.40
29	B1	2940	A	N9-C4-C5	5.30	107.92	105.80
29	B1	3213	A	C4-C5-N7	5.30	113.35	110.70
30	B2	77	G	N3-C2-N2	5.30	123.61	119.90
29	D1	914	A	C5-C6-N1	5.30	120.35	117.70
29	D1	1903	U	C5-C6-N1	5.30	125.35	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2663	G	C4-C5-N7	5.30	112.92	110.80
29	D1	2697	A	C5-C6-N6	5.30	127.94	123.70
29	D1	3177	G	C2-N3-C4	-5.30	109.25	111.90
31	D3	51	G	C8-N9-C1'	-5.30	120.11	127.00
1	A1	1431	C	N1-C2-O2	5.30	122.08	118.90
29	B1	703	G	N3-C4-N9	-5.30	122.82	126.00
47	BR	60	PRO	N-CA-CB	5.30	109.66	103.30
29	D1	304	G	C4-N9-C1'	5.30	133.39	126.50
29	D1	779	G	C4-N9-C1'	5.30	133.39	126.50
29	D1	1151	U	C4-C5-C6	5.30	122.88	119.70
29	D1	1374	G	N1-C2-N3	5.30	127.08	123.90
29	B1	873	C	N3-C4-N4	5.30	121.71	118.00
29	B1	1376	C	N1-C2-N3	5.30	122.91	119.20
29	D1	712	G	N1-C6-O6	5.30	123.08	119.90
30	D2	96	U	C2-N1-C1'	-5.30	111.34	117.70
29	B1	1178	G	C8-N9-C4	-5.30	104.28	106.40
29	B1	2890	A	N7-C8-N9	5.29	116.45	113.80
52	BW	52	PRO	N-CA-CB	5.29	109.66	103.30
1	C1	980	G	C8-N9-C4	-5.29	104.28	106.40
1	C1	1126	G	N3-C2-N2	-5.29	116.19	119.90
29	D1	857	G	C3'-C2'-C1'	5.29	105.74	101.50
29	D1	1410	U	C6-N1-C2	5.29	124.18	121.00
29	D1	2352	A	C5-N7-C8	-5.29	101.25	103.90
29	B1	437	G	C6-C5-N7	5.29	133.58	130.40
29	B1	2810	C	C5-C4-N4	-5.29	116.49	120.20
1	C1	17	C	C2-N1-C1'	5.29	124.62	118.80
1	C1	351	C	N1-C2-O2	-5.29	115.72	118.90
1	C1	1658	G	N9-C4-C5	-5.29	103.28	105.40
29	D1	529	A	C6-C5-N7	5.29	136.00	132.30
29	D1	1176	C	C6-N1-C2	-5.29	118.18	120.30
29	D1	2117	A	C8-N9-C4	5.29	107.92	105.80
29	D1	2633	U	N1-C2-O2	-5.29	119.09	122.80
29	D1	3012	A	N9-C4-C5	5.29	107.92	105.80
29	B1	1151	U	C2-N3-C4	5.29	130.18	127.00
29	D1	1232	C	C6-N1-C2	-5.29	118.18	120.30
1	C1	1291	G	N9-C4-C5	-5.29	103.28	105.40
29	D1	640	U	C6-N1-C1'	5.29	128.61	121.20
29	D1	3188	G	C8-N9-C1'	-5.29	120.12	127.00
29	B1	353	G	C8-N9-C4	5.29	108.52	106.40
29	B1	428	A	C5-C6-N1	-5.29	115.06	117.70
29	B1	500	C	N3-C4-N4	5.29	121.70	118.00
29	B1	1898	G	N3-C4-N9	-5.29	122.83	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	3109	G	C5-C6-N1	5.29	114.14	111.50
29	B1	3207	U	N3-C4-C5	5.29	117.77	114.60
29	D1	511	G	C4-C5-N7	-5.29	108.69	110.80
29	D1	1097	G	C6-C5-N7	5.29	133.57	130.40
29	D1	1124	U	C6-N1-C1'	-5.29	113.80	121.20
29	D1	2920	U	C2-N3-C4	-5.29	123.83	127.00
35	DD	126	ILE	N-CA-C	-5.29	96.72	111.00
29	B1	524	U	C5-C4-O4	5.29	129.07	125.90
29	D1	89	A	C8-N9-C4	5.29	107.92	105.80
29	B1	2702	A	N7-C8-N9	5.29	116.44	113.80
30	B2	97	A	N1-C6-N6	-5.29	115.43	118.60
36	BE	251	PRO	N-CA-CB	5.29	109.64	103.30
30	B2	65	G	N3-C2-N2	5.28	123.60	119.90
29	D1	1331	U	C2-N3-C4	-5.28	123.83	127.00
29	B1	3106	A	N9-C4-C5	-5.28	103.69	105.80
29	D1	370	U	C6-N1-C1'	5.28	128.59	121.20
29	D1	3200	G	C4-C5-N7	-5.28	108.69	110.80
1	A1	1761	U	C4-C5-C6	5.28	122.87	119.70
29	B1	2699	G	N3-C4-C5	5.28	131.24	128.60
29	B1	3184	A	C4-N9-C1'	5.28	135.80	126.30
1	C1	890	C	C6-N1-C1'	5.28	127.14	120.80
29	D1	987	U	N1-C2-N3	5.28	118.07	114.90
29	D1	2350	C	N1-C2-O2	-5.28	115.73	118.90
29	D1	3300	U	N1-C2-O2	5.28	126.50	122.80
1	A1	79	C	C6-N1-C2	-5.28	118.19	120.30
29	D1	1285	G	N9-C4-C5	-5.28	103.29	105.40
48	DS	26	PRO	N-CA-CB	5.28	109.64	103.30
29	B1	171	G	N9-C4-C5	-5.28	103.29	105.40
29	B1	3220	G	N3-C4-C5	-5.28	125.96	128.60
29	B1	3278	C	N3-C4-C5	-5.28	119.79	121.90
3	CB	227	PRO	N-CA-CB	5.28	109.63	103.30
29	D1	95	A	N7-C8-N9	-5.28	111.16	113.80
29	D1	744	A	C5-C6-N1	5.28	120.34	117.70
29	D1	2334	U	C2-N1-C1'	5.28	124.03	117.70
29	D1	2362	C	C5-C4-N4	-5.28	116.51	120.20
29	D1	3370	A	C8-N9-C4	5.28	107.91	105.80
1	A1	1135	U	C5-C6-N1	-5.28	120.06	122.70
1	A1	1220	C	C5-C4-N4	-5.28	116.51	120.20
29	B1	227	G	N1-C6-O6	5.28	123.06	119.90
29	B1	588	G	C4-C5-C6	5.28	121.97	118.80
29	B1	1585	C	N1-C2-O2	-5.28	115.73	118.90
29	D1	432	G	C4-C5-N7	5.28	112.91	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	1377	G	C4-C5-N7	-5.28	108.69	110.80
29	D1	3369	G	C4-C5-N7	-5.28	108.69	110.80
29	B1	2993	G	C2-N3-C4	5.27	114.54	111.90
29	D1	402	A	C4-C5-N7	5.27	113.34	110.70
29	D1	3001	C	C5-C6-N1	-5.27	118.36	121.00
29	B1	1458	U	N1-C2-N3	5.27	118.06	114.90
29	B1	1610	G	C8-N9-C4	-5.27	104.29	106.40
29	B1	2734	A	C6-N1-C2	5.27	121.76	118.60
29	B1	2899	C	C6-N1-C2	-5.27	118.19	120.30
29	D1	92	G	C5-N7-C8	-5.27	101.66	104.30
29	D1	918	C	C6-N1-C2	5.27	122.41	120.30
29	D1	2651	G	N3-C4-C5	5.27	131.24	128.60
29	D1	3374	U	N3-C4-C5	5.27	117.76	114.60
30	D2	82	G	C8-N9-C4	5.27	108.51	106.40
34	DC	82	PRO	N-CA-CB	5.27	109.63	103.30
29	D1	1175	C	C2-N1-C1'	-5.27	113.00	118.80
1	A1	575	C	C6-N1-C2	5.27	122.41	120.30
1	A1	1122	G	C8-N9-C4	5.27	108.51	106.40
29	B1	1803	C	C2-N3-C4	-5.27	117.27	119.90
29	B1	1848	G	N1-C6-O6	5.27	123.06	119.90
29	B1	2663	G	C5-C6-O6	5.27	131.76	128.60
30	B2	14	U	N3-C4-C5	-5.27	111.44	114.60
1	C1	1560	U	C5-C4-O4	5.27	129.06	125.90
1	C1	1613	U	N3-C2-O2	-5.27	118.51	122.20
29	D1	608	A	C3'-C2'-C1'	-5.27	97.28	101.50
29	D1	1462	A	N1-C6-N6	5.27	121.76	118.60
1	A1	1729	C	C2-N3-C4	-5.27	117.27	119.90
29	B1	345	G	C5-C6-O6	5.27	131.76	128.60
29	B1	1750	A	C8-N9-C4	-5.27	103.69	105.80
38	BG	96	PRO	N-CA-CB	5.27	109.62	103.30
2	CA	142	PRO	N-CA-CB	5.27	109.62	103.30
29	D1	498	A	N1-C2-N3	-5.27	126.67	129.30
29	D1	2738	A	C5-C6-N1	5.27	120.33	117.70
1	A1	1166	A	C5-C6-N1	5.26	120.33	117.70
29	B1	437	G	C4-C5-N7	-5.26	108.69	110.80
29	B1	625	G	N3-C4-C5	5.26	131.23	128.60
29	B1	712	G	N1-C6-O6	5.26	123.06	119.90
29	B1	2671	A	N3-C4-N9	5.26	131.61	127.40
29	B1	2891	U	C5-C4-O4	5.26	129.06	125.90
1	C1	1568	C	N3-C4-C5	-5.26	119.79	121.90
29	D1	712	G	C4-C5-N7	5.26	112.91	110.80
29	D1	1342	C	N3-C2-O2	5.26	125.58	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DD	32	PRO	N-CA-CB	5.26	109.62	103.30
29	B1	885	U	C6-N1-C2	5.26	124.16	121.00
1	C1	1386	G	N1-C6-O6	5.26	123.06	119.90
29	B1	514	G	N3-C2-N2	-5.26	116.22	119.90
29	B1	671	U	C6-N1-C2	5.26	124.16	121.00
29	B1	2342	U	C2-N1-C1'	-5.26	111.39	117.70
29	D1	1288	U	N3-C2-O2	5.26	125.88	122.20
29	D1	1431	G	C5-N7-C8	5.26	106.93	104.30
29	D1	2527	G	N9-C4-C5	5.26	107.50	105.40
29	B1	711	A	C8-N9-C4	5.26	107.90	105.80
29	B1	753	C	N3-C4-C5	5.26	124.00	121.90
29	B1	900	G	N7-C8-N9	-5.26	110.47	113.10
29	B1	1851	G	N3-C4-N9	5.26	129.16	126.00
29	B1	2303	A	C5-C6-N1	5.26	120.33	117.70
29	B1	3030	G	C3'-C2'-C1'	5.26	105.71	101.50
1	C1	1456	C	C2-N1-C1'	-5.26	113.01	118.80
29	D1	1179	A	N1-C6-N6	5.26	121.76	118.60
29	D1	3097	C	C2-N1-C1'	-5.26	113.01	118.80
29	D1	3230	G	N3-C4-C5	-5.26	125.97	128.60
46	DQ	143	PRO	N-CA-CB	5.26	109.61	103.30
1	A1	601	A	C5-C6-N6	-5.26	119.49	123.70
29	B1	3332	U	C6-N1-C1'	5.26	128.56	121.20
29	D1	120	G	N3-C4-N9	-5.26	122.84	126.00
30	D2	65	G	N3-C4-N9	5.26	129.16	126.00
1	A1	825	U	N3-C4-C5	-5.26	111.45	114.60
29	B1	30	G	N1-C6-O6	5.26	123.05	119.90
29	B1	422	A	N7-C8-N9	-5.26	111.17	113.80
29	B1	529	A	C4-C5-C6	-5.26	114.37	117.00
29	B1	1357	G	N9-C4-C5	5.26	107.50	105.40
1	C1	565	C	N3-C4-N4	-5.26	114.32	118.00
29	D1	994	G	C5-C6-N1	5.26	114.13	111.50
29	D1	2687	G	N1-C6-O6	-5.26	116.75	119.90
29	D1	3055	U	C5-C6-N1	-5.26	120.07	122.70
1	A1	112	A	C3'-C2'-C1'	5.25	105.70	101.50
29	B1	137	G	C4-N9-C1'	5.25	133.33	126.50
29	B1	1339	C	N3-C2-O2	-5.25	118.22	121.90
31	B3	51	G	C8-N9-C4	-5.25	104.30	106.40
1	C1	1139	A	C5-C6-N6	-5.25	119.50	123.70
29	D1	2690	G	C4-N9-C1'	-5.25	119.67	126.50
29	B1	149	U	C2-N1-C1'	5.25	124.00	117.70
29	B1	308	A	C2-N3-C4	-5.25	107.97	110.60
29	B1	650	C	C2-N1-C1'	5.25	124.58	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1097	G	C5-N7-C8	5.25	106.93	104.30
29	D1	1317	A	C5-C6-N1	-5.25	115.07	117.70
29	D1	1951	C	C4-C5-C6	5.25	120.03	117.40
29	D1	3041	U	N3-C4-O4	-5.25	115.72	119.40
1	A1	481	A	C5-C6-N6	5.25	127.90	123.70
1	A1	802	G	N3-C4-N9	-5.25	122.85	126.00
29	B1	1361	U	N3-C4-O4	5.25	123.08	119.40
29	B1	2362	C	C6-N1-C2	5.25	122.40	120.30
29	D1	2354	C	C4-C5-C6	5.25	120.03	117.40
29	D1	2556	C	N1-C2-O2	5.25	122.05	118.90
29	D1	2823	G	N3-C4-C5	5.25	131.23	128.60
29	D1	3019	U	C5-C4-O4	-5.25	122.75	125.90
1	A1	1438	G	C5-C6-O6	-5.25	125.45	128.60
29	B1	431	U	C2-N3-C4	-5.25	123.85	127.00
29	D1	1402	C	C6-N1-C2	5.25	122.40	120.30
29	D1	1887	A	N3-C4-C5	5.25	130.47	126.80
29	D1	2551	U	C5-C6-N1	5.25	125.33	122.70
1	A1	1127	G	N1-C6-O6	5.25	123.05	119.90
1	A1	1620	C	C5-C6-N1	5.25	123.62	121.00
29	B1	54	C	C5-C6-N1	-5.25	118.38	121.00
29	B1	1063	G	N3-C4-N9	-5.25	122.85	126.00
29	B1	1307	G	C6-C5-N7	-5.25	127.25	130.40
1	C1	373	G	N3-C4-C5	5.25	131.22	128.60
29	D1	613	G	N1-C2-N2	-5.25	111.48	116.20
29	D1	1431	G	N3-C4-C5	-5.25	125.98	128.60
29	D1	1641	U	N1-C2-O2	-5.25	119.13	122.80
29	D1	2354	C	N3-C2-O2	-5.25	118.23	121.90
29	D1	2718	U	C2-N3-C4	-5.25	123.85	127.00
29	D1	2846	U	C2-N3-C4	-5.25	123.85	127.00
38	DG	139	PRO	N-CA-CB	5.25	109.60	103.30
40	DI	92	TYR	N-CA-C	5.25	125.17	111.00
1	A1	365	G	C5-C6-O6	-5.25	125.45	128.60
29	B1	424	G	C4-N9-C1'	5.25	133.32	126.50
29	B1	585	A	N1-C6-N6	-5.25	115.45	118.60
29	B1	891	G	C2-N3-C4	-5.25	109.28	111.90
29	B1	901	G	C4-C5-N7	-5.25	108.70	110.80
29	B1	1194	G	N7-C8-N9	5.25	115.72	113.10
29	B1	1422	G	N1-C6-O6	5.25	123.05	119.90
29	B1	1545	A	C8-N9-C4	5.25	107.90	105.80
29	B1	2859	U	N3-C2-O2	5.25	125.87	122.20
1	C1	1077	C	N3-C2-O2	-5.25	118.23	121.90
29	D1	1477	A	C6-N1-C2	5.25	121.75	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2369	G	C6-C5-N7	5.25	133.55	130.40
29	D1	3018	C	C2-N1-C1'	-5.25	113.03	118.80
29	D1	3304	U	N3-C2-O2	5.25	125.87	122.20
29	B1	2194	G	N7-C8-N9	-5.25	110.48	113.10
29	B1	2790	A	N1-C6-N6	-5.25	115.45	118.60
29	B1	3227	A	C4-C5-C6	-5.25	114.38	117.00
29	D1	1493	G	N1-C6-O6	-5.25	116.75	119.90
34	DC	33	PRO	N-CA-CB	5.25	109.59	103.30
1	A1	535	A	C5-C6-N1	-5.24	115.08	117.70
1	A1	1463	C	N3-C4-C5	5.24	124.00	121.90
29	B1	32	U	N1-C2-N3	5.24	118.05	114.90
29	B1	431	U	C5-C6-N1	-5.24	120.08	122.70
29	D1	45	A	C2-N3-C4	-5.24	107.98	110.60
29	D1	1507	G	N9-C4-C5	5.24	107.50	105.40
29	D1	1834	U	N3-C4-C5	-5.24	111.45	114.60
29	D1	2719	U	C5-C4-O4	5.24	129.05	125.90
29	D1	3047	U	C3'-C2'-C1'	5.24	105.69	101.50
29	B1	2307	G	C2-N3-C4	-5.24	109.28	111.90
29	B1	2875	U	C2-N1-C1'	5.24	123.99	117.70
1	C1	867	G	C5-C6-O6	5.24	131.75	128.60
1	C1	1791	A	N9-C4-C5	-5.24	103.70	105.80
29	D1	2835	U	C6-N1-C1'	-5.24	113.86	121.20
29	B1	502	U	C6-N1-C2	5.24	124.14	121.00
29	B1	633	C	N1-C2-O2	-5.24	115.76	118.90
29	B1	2335	G	C5-C6-N1	5.24	114.12	111.50
29	B1	3334	U	C5-C4-O4	-5.24	122.76	125.90
43	BN	54	PRO	N-CA-CB	5.24	109.59	103.30
1	C1	1030	A	C8-N9-C4	5.24	107.90	105.80
29	D1	45	A	C5-C6-N1	-5.24	115.08	117.70
29	D1	1050	U	C6-N1-C2	5.24	124.14	121.00
29	D1	1428	A	C8-N9-C4	5.24	107.90	105.80
29	B1	45	A	C2-N3-C4	-5.24	107.98	110.60
29	B1	612	U	N3-C2-O2	5.24	125.87	122.20
29	B1	949	C	N1-C2-N3	5.24	122.87	119.20
29	B1	2513	U	C5-C4-O4	-5.24	122.76	125.90
31	B3	68	G	N1-C2-N2	5.24	120.91	116.20
29	D1	9	U	N1-C2-O2	5.24	126.47	122.80
29	D1	826	G	C5-C6-O6	-5.24	125.46	128.60
29	D1	2637	A	C4-C5-N7	-5.24	108.08	110.70
29	D1	2650	U	C2-N1-C1'	-5.24	111.42	117.70
29	B1	3300	U	N1-C2-O2	5.24	126.47	122.80
29	D1	1226	G	C6-C5-N7	-5.24	127.26	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3130	A	C6-C5-N7	-5.24	128.63	132.30
1	A1	1126	G	N3-C2-N2	-5.24	116.23	119.90
29	B1	1173	U	C5-C6-N1	-5.24	120.08	122.70
29	B1	1583	A	N9-C4-C5	5.24	107.89	105.80
29	B1	1860	G	C5-C6-N1	5.24	114.12	111.50
29	B1	3263	G	C5-C6-O6	5.24	131.74	128.60
31	B3	11	C	N1-C2-O2	5.24	122.04	118.90
1	C1	59	C	N1-C2-O2	5.24	122.04	118.90
29	D1	244	G	C6-C5-N7	-5.24	127.26	130.40
29	D1	1168	U	C2-N1-C1'	-5.24	111.42	117.70
29	D1	1227	C	C6-N1-C2	-5.24	118.21	120.30
29	D1	1825	G	N3-C4-N9	-5.24	122.86	126.00
29	D1	2388	U	N1-C2-O2	-5.24	119.14	122.80
29	D1	3205	G	C4-C5-N7	-5.24	108.71	110.80
29	D1	1111	U	N3-C2-O2	5.23	125.86	122.20
29	D1	1661	G	N3-C4-C5	-5.23	125.98	128.60
29	D1	2411	U	C5-C4-O4	5.23	129.04	125.90
29	D1	2689	A	C4-C5-C6	5.23	119.62	117.00
29	B1	334	A	C8-N9-C4	5.23	107.89	105.80
29	B1	410	U	C4-C5-C6	5.23	122.84	119.70
29	B1	720	A	N7-C8-N9	5.23	116.42	113.80
29	B1	2135	U	C5-C6-N1	-5.23	120.08	122.70
29	B1	2748	A	C2-N3-C4	-5.23	107.98	110.60
1	C1	1745	G	C2-N3-C4	5.23	114.52	111.90
29	D1	42	C	C6-N1-C2	5.23	122.39	120.30
29	D1	3123	A	N7-C8-N9	5.23	116.42	113.80
29	D1	3242	G	N9-C4-C5	5.23	107.49	105.40
29	B1	1384	U	C4-C5-C6	-5.23	116.56	119.70
29	B1	2395	G	C5-N7-C8	-5.23	101.69	104.30
29	B1	2963	C	C2-N3-C4	-5.23	117.28	119.90
1	C1	152	U	C5-C6-N1	-5.23	120.08	122.70
1	C1	883	C	C2-N1-C1'	5.23	124.55	118.80
29	D1	345	G	C2-N3-C4	-5.23	109.28	111.90
29	D1	2700	G	C4-N9-C1'	5.23	133.30	126.50
29	D1	3099	C	C5-C6-N1	5.23	123.61	121.00
43	DN	14	LEU	N-CA-C	5.23	125.12	111.00
1	A1	1498	G	C6-N1-C2	-5.23	121.96	125.10
29	B1	1870	C	N3-C4-C5	5.23	123.99	121.90
1	C1	1132	A	N3-C4-C5	5.23	130.46	126.80
29	D1	196	G	N3-C4-C5	-5.23	125.99	128.60
29	D1	2121	G	C8-N9-C4	5.23	108.49	106.40
1	A1	1277	G	C8-N9-C4	-5.23	104.31	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	751	A	C2-N3-C4	5.23	113.21	110.60
29	B1	989	A	C5-C6-N1	5.23	120.31	117.70
29	B1	2607	G	C4-N9-C1'	5.23	133.30	126.50
30	B2	82	G	N1-C6-O6	-5.23	116.76	119.90
29	D1	137	G	C5-C6-O6	-5.23	125.46	128.60
29	D1	227	G	C8-N9-C4	5.23	108.49	106.40
29	D1	624	G	C8-N9-C1'	-5.23	120.20	127.00
29	D1	2297	U	C5-C6-N1	-5.23	120.09	122.70
29	D1	2646	C	C5-C6-N1	-5.23	118.39	121.00
29	D1	3214	U	N3-C4-O4	5.23	123.06	119.40
29	D1	3268	A	N3-C4-C5	5.23	130.46	126.80
29	B1	1107	C	C5-C6-N1	-5.22	118.39	121.00
29	B1	1840	U	N3-C4-O4	-5.22	115.74	119.40
29	B1	2752	U	C2-N1-C1'	5.22	123.97	117.70
29	B1	3000	A	C4-N9-C1'	-5.22	116.90	126.30
29	B1	3208	G	N3-C4-C5	-5.22	125.99	128.60
30	B2	45	A	C8-N9-C4	5.22	107.89	105.80
1	C1	54	C	C6-N1-C1'	-5.22	114.53	120.80
29	D1	3188	G	C8-N9-C4	5.22	108.49	106.40
29	D1	3192	U	N1-C2-N3	5.22	118.03	114.90
29	B1	358	G	C5-C6-O6	-5.22	125.47	128.60
29	B1	422	A	C3'-C2'-C1'	-5.22	97.32	101.50
29	B1	802	C	N3-C4-C5	-5.22	119.81	121.90
29	B1	1507	G	C4-C5-C6	-5.22	115.67	118.80
29	B1	3000	A	N3-C4-N9	-5.22	123.22	127.40
29	D1	402	A	N9-C4-C5	-5.22	103.71	105.80
29	D1	2652	U	N1-C2-O2	-5.22	119.14	122.80
29	D1	2993	G	O4'-C1'-N9	5.22	112.38	108.20
29	D1	3386	G	C5-N7-C8	-5.22	101.69	104.30
29	B1	3035	A	N9-C4-C5	-5.22	103.71	105.80
1	C1	1077	C	N1-C2-O2	5.22	122.03	118.90
1	C1	1529	C	N1-C2-O2	-5.22	115.77	118.90
1	C1	1596	C	N3-C2-O2	5.22	125.56	121.90
29	D1	1298	C	C6-N1-C2	5.22	122.39	120.30
1	A1	802	G	N3-C4-C5	5.22	131.21	128.60
29	B1	149	U	N1-C2-O2	5.22	126.45	122.80
29	B1	989	A	C8-N9-C4	5.22	107.89	105.80
1	C1	55	A	C6-C5-N7	5.22	135.95	132.30
29	D1	1661	G	C5-C6-O6	-5.22	125.47	128.60
29	D1	2904	U	N3-C2-O2	-5.22	118.55	122.20
34	DC	12	GLY	N-CA-C	5.22	126.15	113.10
29	B1	21	G	N7-C8-N9	5.22	115.71	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	812	G	N3-C4-N9	-5.22	122.87	126.00
29	B1	3386	G	N1-C6-O6	5.22	123.03	119.90
29	B1	3386	G	N7-C8-N9	5.22	115.71	113.10
1	C1	158	U	N3-C2-O2	-5.22	118.55	122.20
1	C1	310	C	N3-C4-N4	5.22	121.65	118.00
1	C1	1046	G	C6-C5-N7	-5.22	127.27	130.40
1	A1	1438	G	N9-C4-C5	-5.22	103.31	105.40
29	B1	501	A	N7-C8-N9	-5.22	111.19	113.80
29	B1	3128	G	N3-C2-N2	-5.22	116.25	119.90
1	C1	378	A	C5-C6-N1	5.22	120.31	117.70
1	C1	879	G	C6-C5-N7	5.22	133.53	130.40
1	C1	1791	A	C4-C5-N7	5.22	113.31	110.70
29	D1	1294	A	C5-C6-N6	-5.22	119.53	123.70
29	D1	3290	G	C3'-C2'-C1'	5.22	105.67	101.50
31	D3	15	G	N1-C6-O6	-5.22	116.77	119.90
1	A1	365	G	C8-N9-C4	-5.21	104.31	106.40
29	B1	1146	C	N1-C2-O2	-5.21	115.77	118.90
29	B1	1377	G	C8-N9-C4	-5.21	104.31	106.40
29	D1	407	A	C8-N9-C4	5.21	107.89	105.80
29	D1	1409	G	C5-C6-N1	5.21	114.11	111.50
29	D1	1877	U	C5-C6-N1	5.21	125.31	122.70
29	D1	3012	A	C6-N1-C2	-5.21	115.47	118.60
29	D1	3256	G	C5-C6-O6	-5.21	125.47	128.60
29	B1	51	A	C2-N3-C4	5.21	113.21	110.60
29	B1	848	A	N1-C6-N6	5.21	121.73	118.60
29	D1	196	G	C2-N3-C4	5.21	114.51	111.90
29	D1	1311	G	C6-C5-N7	-5.21	127.27	130.40
29	D1	3184	A	C4-N9-C1'	5.21	135.68	126.30
29	B1	31	C	C2-N3-C4	-5.21	117.29	119.90
29	B1	614	C	N3-C4-C5	5.21	123.98	121.90
29	B1	1408	G	C8-N9-C4	5.21	108.48	106.40
29	B1	2935	U	C6-N1-C1'	5.21	128.50	121.20
57	Bb	53	PRO	N-CA-CB	5.21	109.56	103.30
29	D1	1089	G	N1-C2-N3	5.21	127.03	123.90
29	D1	2632	G	N3-C4-C5	5.21	131.21	128.60
29	D1	2643	A	C8-N9-C4	5.21	107.89	105.80
29	B1	802	C	N3-C4-N4	5.21	121.65	118.00
1	C1	1095	U	C2-N1-C1'	5.21	123.95	117.70
29	D1	402	A	N7-C8-N9	5.21	116.41	113.80
29	D1	978	G	C4-C5-C6	5.21	121.93	118.80
29	D1	1368	U	C5-C6-N1	5.21	125.31	122.70
29	D1	2143	A	C8-N9-C4	-5.21	103.72	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3207	U	C2-N3-C4	-5.21	123.87	127.00
1	A1	1028	C	N1-C2-O2	5.21	122.03	118.90
1	A1	1378	U	C2-N1-C1'	5.21	123.95	117.70
29	B1	156	G	N3-C4-C5	-5.21	126.00	128.60
29	B1	2158	A	N1-C6-N6	-5.21	115.47	118.60
31	B3	47	C	C2-N3-C4	-5.21	117.30	119.90
29	D1	918	C	C5-C6-N1	-5.21	118.40	121.00
29	D1	1217	A	C4-C5-N7	5.21	113.30	110.70
29	D1	1315	U	C6-N1-C2	5.21	124.12	121.00
29	D1	3035	A	N9-C4-C5	-5.21	103.72	105.80
29	B1	155	G	C4-C5-N7	5.21	112.88	110.80
29	B1	626	U	C5-C6-N1	5.21	125.30	122.70
29	B1	963	G	N1-C6-O6	5.21	123.02	119.90
29	B1	1175	C	C6-N1-C2	5.21	122.38	120.30
29	B1	2811	A	C6-N1-C2	5.21	121.72	118.60
1	C1	1077	C	C2-N1-C1'	5.21	124.53	118.80
29	D1	504	A	C5-N7-C8	-5.21	101.30	103.90
29	D1	1319	G	N3-C2-N2	-5.21	116.25	119.90
29	D1	1335	C	C5-C6-N1	-5.21	118.40	121.00
29	D1	1861	G	N1-C6-O6	5.21	123.02	119.90
29	B1	574	U	N1-C2-O2	-5.21	119.16	122.80
29	D1	1070	U	N3-C2-O2	-5.21	118.56	122.20
29	B1	780	A	C2-N3-C4	-5.20	108.00	110.60
29	B1	1161	G	N7-C8-N9	5.20	115.70	113.10
29	B1	3106	A	C6-C5-N7	-5.20	128.66	132.30
1	C1	1793	G	N3-C4-C5	-5.20	126.00	128.60
29	D1	1313	G	N3-C2-N2	5.20	123.54	119.90
1	A1	1009	U	N1-C2-O2	-5.20	119.16	122.80
3	AB	225	LEU	N-CA-C	5.20	125.05	111.00
1	C1	342	C	C5-C6-N1	-5.20	118.40	121.00
29	D1	1184	A	N3-C4-N9	-5.20	123.24	127.40
29	B1	14	U	N3-C2-O2	5.20	125.84	122.20
29	B1	707	U	C2-N1-C1'	-5.20	111.46	117.70
29	B1	939	U	N1-C2-N3	5.20	118.02	114.90
29	B1	1322	U	N3-C2-O2	5.20	125.84	122.20
29	B1	2560	C	C5-C6-N1	5.20	123.60	121.00
29	B1	3000	A	C8-N9-C4	5.20	107.88	105.80
29	D1	308	A	C4-C5-C6	5.20	119.60	117.00
29	D1	640	U	C6-N1-C2	-5.20	117.88	121.00
29	B1	98	G	C5-C6-O6	5.20	131.72	128.60
29	B1	103	G	N1-C2-N2	5.20	120.88	116.20
29	B1	2123	G	C5-C6-N1	5.20	114.10	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	509	G	N9-C4-C5	5.20	107.48	105.40
29	D1	578	A	N1-C6-N6	-5.20	115.48	118.60
29	D1	1285	G	C4-N9-C1'	5.20	133.26	126.50
29	D1	3000	A	C5-C6-N1	-5.20	115.10	117.70
29	B1	424	G	N9-C4-C5	-5.20	103.32	105.40
29	B1	1336	U	C2-N3-C4	-5.20	123.88	127.00
29	D1	1362	G	C4-N9-C1'	-5.20	119.74	126.50
29	D1	3265	C	C6-N1-C1'	-5.20	114.56	120.80
59	Dd	40	PRO	N-CA-CB	5.20	109.54	103.30
29	B1	905	U	N1-C2-O2	-5.20	119.16	122.80
29	B1	1143	A	C5-N7-C8	-5.20	101.30	103.90
29	B1	1227	C	C2-N1-C1'	5.20	124.52	118.80
29	B1	1499	C	C2-N1-C1'	-5.20	113.09	118.80
29	B1	1851	G	N1-C6-O6	5.20	123.02	119.90
1	C1	125	U	C3'-C2'-C1'	5.20	105.66	101.50
1	C1	1097	U	C5-C6-N1	-5.20	120.10	122.70
29	D1	584	G	C5-C6-O6	-5.20	125.48	128.60
29	D1	3224	G	C4-C5-N7	-5.20	108.72	110.80
1	A1	647	G	C8-N9-C1'	-5.19	120.25	127.00
1	C1	462	G	C8-N9-C1'	5.19	133.75	127.00
29	D1	3232	G	N3-C2-N2	5.19	123.54	119.90
29	D1	3342	A	N3-C4-C5	-5.19	123.16	126.80
1	A1	1330	G	C8-N9-C4	-5.19	104.32	106.40
29	B1	715	A	C3'-C2'-C1'	5.19	105.66	101.50
29	B1	2750	U	C6-N1-C2	5.19	124.12	121.00
29	B1	2891	U	N3-C4-O4	-5.19	115.77	119.40
29	B1	3147	G	C8-N9-C4	5.19	108.48	106.40
1	C1	13	C	C6-N1-C1'	-5.19	114.57	120.80
1	C1	587	C	N3-C4-C5	5.19	123.98	121.90
1	C1	1416	G	C5-C6-O6	-5.19	125.48	128.60
2	CA	152	PRO	N-CA-CB	5.19	109.53	103.30
29	D1	55	G	C5-C6-O6	-5.19	125.48	128.60
29	D1	875	G	N9-C4-C5	-5.19	103.32	105.40
29	D1	999	G	N1-C6-O6	-5.19	116.78	119.90
29	D1	1903	U	C2-N3-C4	5.19	130.12	127.00
29	D1	2958	A	N7-C8-N9	-5.19	111.20	113.80
29	D1	3246	G	N9-C4-C5	5.19	107.48	105.40
29	B1	210	U	C6-N1-C2	-5.19	117.89	121.00
29	B1	1653	G	C8-N9-C1'	-5.19	120.25	127.00
37	BF	27	PRO	N-CA-CB	5.19	109.53	103.30
1	C1	1788	G	N9-C4-C5	5.19	107.48	105.40
29	D1	102	C	N3-C2-O2	-5.19	118.27	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	DP	122	GLN	N-CA-C	-5.19	96.99	111.00
29	B1	2416	U	N3-C2-O2	5.19	125.83	122.20
29	B1	2587	U	N3-C4-O4	5.19	123.03	119.40
29	B1	2644	C	C2-N1-C1'	5.19	124.51	118.80
29	D1	1364	C	C5-C4-N4	-5.19	116.57	120.20
1	A1	1408	G	C8-N9-C4	-5.19	104.33	106.40
1	A1	1529	C	C5-C6-N1	-5.19	118.41	121.00
29	B1	1886	A	N1-C6-N6	-5.19	115.49	118.60
29	D1	865	U	C2-N1-C1'	-5.19	111.47	117.70
1	A1	113	U	N1-C2-N3	5.19	118.01	114.90
29	B1	1609	C	C5-C4-N4	-5.19	116.57	120.20
29	B1	1883	A	C6-N1-C2	-5.19	115.49	118.60
1	C1	405	C	C6-N1-C1'	-5.19	114.58	120.80
29	D1	3202	G	N7-C8-N9	-5.19	110.51	113.10
1	A1	687	G	N3-C4-N9	-5.18	122.89	126.00
1	A1	1368	G	C6-C5-N7	-5.18	127.29	130.40
29	B1	225	C	N3-C4-N4	5.18	121.63	118.00
29	B1	498	A	N1-C6-N6	5.18	121.71	118.60
29	B1	2960	C	C5-C6-N1	-5.18	118.41	121.00
30	B2	26	C	N3-C2-O2	-5.18	118.27	121.90
34	BC	82	PRO	N-CA-CB	5.18	109.52	103.30
1	C1	344	A	N9-C4-C5	5.18	107.87	105.80
29	D1	189	G	N3-C4-C5	-5.18	126.01	128.60
29	D1	1160	C	C2-N1-C1'	5.18	124.50	118.80
29	D1	2394	G	N9-C4-C5	5.18	107.47	105.40
29	D1	2714	G	N3-C4-N9	-5.18	122.89	126.00
29	D1	3251	U	N3-C2-O2	-5.18	118.57	122.20
1	A1	1244	A	N9-C4-C5	5.18	107.87	105.80
29	B1	103	G	C5-N7-C8	-5.18	101.71	104.30
29	B1	316	U	C5-C6-N1	-5.18	120.11	122.70
29	B1	2386	A	C5-C6-N6	-5.18	119.55	123.70
29	B1	2972	G	N1-C2-N3	5.18	127.01	123.90
1	C1	1305	U	N3-C4-C5	-5.18	111.49	114.60
1	C1	1634	C	C6-N1-C1'	-5.18	114.58	120.80
29	D1	1388	U	N3-C2-O2	5.18	125.83	122.20
29	B1	1337	A	N3-C4-C5	5.18	130.43	126.80
29	B1	2186	U	C5-C6-N1	-5.18	120.11	122.70
29	B1	2728	G	C8-N9-C4	5.18	108.47	106.40
29	D1	1286	A	C8-N9-C4	5.18	107.87	105.80
1	C1	13	C	C2-N1-C1'	5.18	124.50	118.80
1	C1	565	C	C6-N1-C1'	5.18	127.02	120.80
1	C1	1756	A	C8-N9-C4	-5.18	103.73	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	960	U	N3-C2-O2	-5.18	118.58	122.20
1	A1	1765	A	C4-C5-C6	5.18	119.59	117.00
29	B1	2683	U	C2-N3-C4	-5.18	123.89	127.00
29	B1	2780	A	C4-N9-C1'	5.18	135.62	126.30
29	D1	999	G	C6-N1-C2	-5.18	121.99	125.10
29	D1	1485	G	N3-C4-N9	5.18	129.11	126.00
29	B1	753	C	N3-C2-O2	-5.18	118.28	121.90
29	B1	1198	C	N3-C2-O2	-5.18	118.28	121.90
29	B1	2142	A	N1-C6-N6	5.18	121.70	118.60
29	D1	719	U	N1-C2-N3	-5.18	111.79	114.90
29	D1	890	C	N3-C4-N4	-5.18	114.38	118.00
29	D1	2331	C	N3-C2-O2	5.18	125.52	121.90
29	D1	2641	U	C5-C6-N1	-5.18	120.11	122.70
29	D1	3322	A	N1-C2-N3	-5.18	126.71	129.30
41	DJ	122	PRO	N-CA-CB	5.18	109.51	103.30
29	B1	790	U	N3-C4-O4	-5.17	115.78	119.40
29	B1	1063	G	C8-N9-C1'	5.17	133.73	127.00
29	D1	379	C	C5-C6-N1	5.17	123.59	121.00
29	D1	3376	A	C4-C5-C6	-5.17	114.41	117.00
29	B1	2398	A	N9-C4-C5	-5.17	103.73	105.80
29	D1	2609	A	C8-N9-C4	-5.17	103.73	105.80
29	D1	2989	U	C5-C6-N1	-5.17	120.11	122.70
29	D1	2993	G	C2-N3-C4	5.17	114.49	111.90
1	A1	981	U	C6-N1-C1'	-5.17	113.96	121.20
29	B1	431	U	N3-C4-O4	-5.17	115.78	119.40
29	B1	727	G	C8-N9-C4	5.17	108.47	106.40
29	B1	2881	C	N3-C2-O2	5.17	125.52	121.90
29	B1	3290	G	C3'-C2'-C1'	5.17	105.64	101.50
1	C1	1788	G	C6-C5-N7	5.17	133.50	130.40
29	D1	793	C	C6-N1-C1'	-5.17	114.59	120.80
29	B1	2991	A	C4-C5-C6	-5.17	114.42	117.00
29	B1	3307	A	C6-C5-N7	-5.17	128.68	132.30
1	C1	1512	G	N9-C4-C5	-5.17	103.33	105.40
1	A1	437	A	C4-C5-C6	5.17	119.58	117.00
29	B1	1194	G	C4-N9-C1'	5.17	133.22	126.50
29	B1	2716	U	N3-C4-O4	5.17	123.02	119.40
29	D1	2362	C	C6-N1-C1'	5.17	127.00	120.80
29	D1	2531	C	C2-N1-C1'	5.17	124.48	118.80
29	D1	3140	G	C4-N9-C1'	5.17	133.22	126.50
29	B1	694	C	C6-N1-C2	-5.17	118.23	120.30
29	B1	916	G	C6-C5-N7	-5.17	127.30	130.40
29	B1	1482	A	C2-N3-C4	5.17	113.18	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2166	A	C8-N9-C4	5.17	107.87	105.80
1	C1	879	G	N7-C8-N9	-5.17	110.52	113.10
1	C1	975	C	C6-N1-C2	5.17	122.37	120.30
29	D1	63	A	N1-C6-N6	5.17	121.70	118.60
29	D1	3099	C	N1-C2-O2	5.17	122.00	118.90
29	B1	39	A	C2-N3-C4	-5.17	108.02	110.60
29	B1	3140	G	C4-N9-C1'	5.17	133.21	126.50
1	C1	1244	A	C5-C6-N6	5.17	127.83	123.70
30	D2	13	A	C8-N9-C4	5.17	107.87	105.80
1	A1	631	G	N3-C4-C5	-5.16	126.02	128.60
1	A1	1634	C	C5-C6-N1	5.16	123.58	121.00
29	B1	32	U	N1-C2-O2	-5.16	119.19	122.80
29	B1	1056	U	C4-C5-C6	-5.16	116.60	119.70
29	B1	1224	C	C2-N1-C1'	-5.16	113.12	118.80
29	B1	3045	G	C5-C6-O6	-5.16	125.50	128.60
30	B2	82	G	C5-C6-N1	5.16	114.08	111.50
29	D1	596	C	N3-C4-N4	-5.16	114.39	118.00
29	D1	1138	U	C2-N3-C4	-5.16	123.90	127.00
29	D1	1177	G	C2-N3-C4	-5.16	109.32	111.90
29	D1	1547	G	C6-C5-N7	-5.16	127.30	130.40
29	D1	1938	U	N3-C2-O2	-5.16	118.59	122.20
29	D1	2974	U	C2-N3-C4	-5.16	123.90	127.00
29	B1	94	G	C6-C5-N7	5.16	133.50	130.40
29	D1	26	A	C4-C5-C6	5.16	119.58	117.00
29	D1	2325	G	C8-N9-C4	-5.16	104.33	106.40
29	B1	363	G	C4-C5-N7	5.16	112.86	110.80
29	B1	752	C	C5-C6-N1	5.16	123.58	121.00
29	B1	3099	C	C2-N1-C1'	5.16	124.48	118.80
29	D1	89	A	C6-C5-N7	-5.16	128.69	132.30
29	D1	513	G	C5-C6-N1	-5.16	108.92	111.50
29	D1	1318	A	C6-N1-C2	-5.16	115.50	118.60
29	D1	2716	U	C5-C4-O4	-5.16	122.80	125.90
29	D1	2740	A	N7-C8-N9	5.16	116.38	113.80
29	D1	3168	A	C5-C6-N6	-5.16	119.57	123.70
29	B1	98	G	N9-C4-C5	5.16	107.46	105.40
29	B1	222	A	C4-C5-N7	5.16	113.28	110.70
29	B1	1551	C	C6-N1-C2	5.16	122.36	120.30
29	B1	1677	G	N1-C2-N2	-5.16	111.56	116.20
29	B1	1877	U	N3-C2-O2	-5.16	118.59	122.20
29	B1	1892	G	C5-N7-C8	5.16	106.88	104.30
29	B1	3272	C	C5-C4-N4	-5.16	116.59	120.20
41	BJ	27	PRO	N-CA-CB	5.16	109.49	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	3132	C	C2-N1-C1'	-5.16	113.12	118.80
29	D1	3189	G	N1-C6-O6	5.16	123.00	119.90
29	D1	2376	G	N3-C4-N9	-5.16	122.91	126.00
29	D1	2814	G	C5-C6-O6	-5.16	125.51	128.60
1	A1	1787	C	C6-N1-C2	5.16	122.36	120.30
29	B1	676	G	N1-C2-N2	-5.16	111.56	116.20
29	B1	2102	U	C2-N1-C1'	-5.16	111.51	117.70
29	B1	1180	A	N1-C6-N6	-5.15	115.51	118.60
29	B1	2190	U	C5-C6-N1	-5.15	120.12	122.70
31	B3	11	C	C6-N1-C2	-5.15	118.24	120.30
29	D1	3205	G	C8-N9-C1'	-5.15	120.30	127.00
41	DJ	178	ARG	N-CA-C	5.15	124.92	111.00
1	A1	1777	G	C6-C5-N7	-5.15	127.31	130.40
29	B1	43	A	N7-C8-N9	-5.15	111.22	113.80
29	B1	574	U	N3-C4-O4	5.15	123.01	119.40
29	B1	2130	G	N1-C6-O6	5.15	122.99	119.90
29	D1	32	U	N1-C2-O2	-5.15	119.19	122.80
29	D1	207	U	C5-C4-O4	-5.15	122.81	125.90
29	D1	214	G	C4-N9-C1'	-5.15	119.80	126.50
29	D1	790	U	C5-C6-N1	-5.15	120.12	122.70
29	D1	1204	A	N1-C6-N6	5.15	121.69	118.60
29	D1	1640	G	C5-C6-O6	-5.15	125.51	128.60
29	D1	2661	G	C5-C6-N1	5.15	114.08	111.50
29	D1	3041	U	N3-C4-C5	5.15	117.69	114.60
29	D1	3134	A	N1-C6-N6	5.15	121.69	118.60
1	A1	1791	A	N1-C6-N6	5.15	121.69	118.60
29	B1	137	G	C5-C6-O6	-5.15	125.51	128.60
29	B1	670	C	N1-C2-O2	-5.15	115.81	118.90
29	B1	3166	C	C2-N1-C1'	-5.15	113.14	118.80
29	D1	644	G	N1-C6-O6	5.15	122.99	119.90
29	D1	948	C	C5-C4-N4	-5.15	116.59	120.20
29	D1	1499	C	C6-N1-C2	5.15	122.36	120.30
29	D1	2740	A	C4-C5-N7	5.15	113.28	110.70
29	D1	3030	G	N3-C4-C5	5.15	131.18	128.60
29	D1	3366	G	N3-C4-N9	-5.15	122.91	126.00
29	D1	617	G	N1-C6-O6	-5.15	116.81	119.90
29	D1	1380	G	N1-C6-O6	5.15	122.99	119.90
29	D1	1678	G	N3-C2-N2	-5.15	116.30	119.90
29	D1	2950	G	N1-C6-O6	5.15	122.99	119.90
1	A1	577	G	C4-C5-N7	5.15	112.86	110.80
29	B1	561	C	N3-C2-O2	5.15	125.50	121.90
29	B1	640	U	C6-N1-C1'	5.15	128.41	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	1340	G	N1-C2-N3	5.15	126.99	123.90
29	B1	1547	G	C4-C5-N7	5.15	112.86	110.80
1	C1	1745	G	N3-C4-C5	-5.15	126.03	128.60
29	D1	754	G	N3-C4-N9	-5.15	122.91	126.00
1	C1	575	C	N3-C4-C5	5.15	123.96	121.90
29	D1	573	C	C4-C5-C6	5.15	119.97	117.40
29	D1	1781	C	N3-C4-N4	5.15	121.60	118.00
1	A1	1030	A	C8-N9-C4	5.14	107.86	105.80
29	B1	607	A	N1-C2-N3	5.14	131.87	129.30
29	B1	1900	A	C6-C5-N7	-5.14	128.70	132.30
29	B1	2396	G	C8-N9-C1'	-5.14	120.31	127.00
7	CF	108	PRO	N-CA-CB	5.14	109.47	103.30
29	D1	63	A	N9-C4-C5	-5.14	103.74	105.80
29	D1	1190	A	N7-C8-N9	5.14	116.37	113.80
29	D1	1477	A	C5-C6-N1	-5.14	115.13	117.70
29	D1	1951	C	N1-C2-N3	-5.14	115.60	119.20
29	D1	3091	A	C6-N1-C2	-5.14	115.51	118.60
29	D1	3184	A	N7-C8-N9	5.14	116.37	113.80
29	D1	3219	G	N7-C8-N9	5.14	115.67	113.10
30	D2	65	G	N7-C8-N9	5.14	115.67	113.10
1	A1	1453	G	N1-C6-O6	5.14	122.98	119.90
29	B1	439	C	N1-C2-O2	5.14	121.99	118.90
29	B1	675	C	C2-N1-C1'	5.14	124.46	118.80
29	B1	1194	G	N3-C4-C5	-5.14	126.03	128.60
29	B1	1476	G	N9-C4-C5	5.14	107.46	105.40
29	B1	2641	U	C5-C6-N1	-5.14	120.13	122.70
1	C1	757	A	N1-C2-N3	5.14	131.87	129.30
17	CP	29	TYR	N-CA-C	5.14	124.89	111.00
29	D1	1333	C	N3-C4-N4	5.14	121.60	118.00
29	B1	1673	G	N3-C4-C5	5.14	131.17	128.60
29	D1	1899	G	N3-C4-C5	5.14	131.17	128.60
30	D2	44	C	C6-N1-C2	5.14	122.36	120.30
1	A1	346	G	C5-C6-O6	-5.14	125.52	128.60
1	A1	784	C	C6-N1-C1'	-5.14	114.63	120.80
1	A1	1481	C	C5-C6-N1	5.14	123.57	121.00
29	B1	1907	C	C4-C5-C6	5.14	119.97	117.40
29	D1	2697	A	C2-N3-C4	-5.14	108.03	110.60
29	D1	2898	G	C3'-C2'-C1'	5.14	105.61	101.50
1	A1	1421	A	C4-C5-N7	-5.14	108.13	110.70
29	B1	67	A	C2-N3-C4	5.14	113.17	110.60
1	C1	374	U	C6-N1-C2	5.14	124.08	121.00
29	D1	244	G	C2-N3-C4	-5.14	109.33	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AJ	124	PRO	N-CA-CB	5.14	109.47	103.30
29	B1	1427	U	C2-N1-C1'	-5.14	111.53	117.70
29	D1	1360	C	N1-C2-O2	-5.14	115.82	118.90
29	D1	2108	C	N3-C4-C5	5.14	123.95	121.90
29	D1	2913	C	C2-N3-C4	-5.14	117.33	119.90
1	A1	79	C	N1-C2-O2	5.13	121.98	118.90
1	A1	1097	U	C5-C6-N1	-5.13	120.13	122.70
29	B1	1691	U	C2-N3-C4	-5.13	123.92	127.00
29	D1	1710	C	N1-C2-O2	5.13	121.98	118.90
37	DF	4	GLN	N-CA-C	5.13	124.86	111.00
1	A1	610	G	C5-C6-O6	-5.13	125.52	128.60
29	B1	1673	G	C8-N9-C4	5.13	108.45	106.40
29	D1	985	U	C2-N1-C1'	-5.13	111.54	117.70
29	D1	3030	G	C4-C5-N7	5.13	112.85	110.80
1	A1	306	U	C6-N1-C2	5.13	124.08	121.00
11	AJ	126	PRO	N-CA-CB	5.13	109.46	103.30
29	B1	77	A	C5-C6-N6	-5.13	119.59	123.70
29	B1	1091	A	C6-N1-C2	-5.13	115.52	118.60
29	B1	2992	U	N3-C4-O4	5.13	122.99	119.40
29	D1	907	G	C4-C5-N7	5.13	112.85	110.80
1	A1	330	G	C5-C6-O6	-5.13	125.52	128.60
1	A1	1377	U	C2-N1-C1'	5.13	123.86	117.70
1	A1	1438	G	N3-C4-N9	5.13	129.08	126.00
29	B1	1751	G	C6-C5-N7	5.13	133.48	130.40
29	D1	953	G	C5-C6-O6	-5.13	125.52	128.60
2	AA	104	PRO	N-CA-CB	5.13	109.45	103.30
29	B1	1395	G	C8-N9-C4	-5.13	104.35	106.40
29	B1	1436	U	C4-C5-C6	5.13	122.78	119.70
29	B1	3097	C	C2-N1-C1'	-5.13	113.16	118.80
29	B1	3379	C	N1-C2-O2	-5.13	115.82	118.90
31	B3	58	G	N1-C6-O6	5.13	122.98	119.90
1	C1	481	A	N1-C6-N6	-5.13	115.52	118.60
29	D1	1151	U	N3-C4-O4	5.13	122.99	119.40
29	D1	2705	A	C2-N3-C4	5.13	113.16	110.60
29	D1	2834	G	C6-C5-N7	5.13	133.48	130.40
47	DR	60	PRO	N-CA-CB	5.13	109.45	103.30
29	B1	1331	U	N1-C2-O2	-5.13	119.21	122.80
29	D1	2421	U	N1-C2-O2	-5.13	119.21	122.80
30	D2	56	A	C4-C5-N7	5.13	113.26	110.70
29	B1	1510	G	N1-C6-O6	-5.12	116.83	119.90
29	B1	3278	C	C5-C6-N1	5.12	123.56	121.00
1	C1	627	C	C5-C6-N1	-5.12	118.44	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	423	G	N3-C4-C5	-5.12	126.04	128.60
29	B1	585	A	C8-N9-C4	-5.12	103.75	105.80
29	B1	1496	C	C6-N1-C1'	-5.12	114.65	120.80
29	B1	3048	A	N7-C8-N9	5.12	116.36	113.80
30	B2	13	A	N7-C8-N9	-5.12	111.24	113.80
1	C1	342	C	C6-N1-C2	5.12	122.35	120.30
1	C1	1039	A	C5-C6-N1	-5.12	115.14	117.70
29	D1	429	U	C6-N1-C2	-5.12	117.93	121.00
29	D1	1360	C	C5-C6-N1	-5.12	118.44	121.00
29	D1	1664	G	N3-C4-C5	5.12	131.16	128.60
1	A1	351	C	N1-C2-O2	-5.12	115.83	118.90
1	A1	462	G	C4-N9-C1'	-5.12	119.84	126.50
1	A1	1148	C	C6-N1-C2	-5.12	118.25	120.30
1	A1	1455	G	C2-N3-C4	5.12	114.46	111.90
29	B1	2707	C	C3'-C2'-C1'	5.12	105.60	101.50
29	B1	2782	U	C2-N3-C4	5.12	130.07	127.00
29	B1	2892	A	C6-C5-N7	-5.12	128.72	132.30
45	BP	76	PRO	N-CA-C	-5.12	98.78	112.10
50	BU	117	PRO	N-CA-CB	5.12	109.45	103.30
1	C1	58	U	C2-N1-C1'	5.12	123.85	117.70
1	C1	338	C	N3-C2-O2	-5.12	118.31	121.90
29	D1	55	G	C4-C5-N7	5.12	112.85	110.80
29	D1	1439	U	C5-C4-O4	-5.12	122.83	125.90
29	D1	2939	G	N3-C2-N2	5.12	123.48	119.90
29	D1	2969	A	N3-C4-C5	5.12	130.38	126.80
37	DF	74	VAL	N-CA-C	5.12	124.83	111.00
1	A1	1778	G	C4-C5-N7	5.12	112.85	110.80
29	B1	161	G	N3-C4-N9	5.12	129.07	126.00
1	C1	570	A	C8-N9-C4	5.12	107.85	105.80
29	D1	1226	G	C3'-C2'-C1'	5.12	105.60	101.50
29	D1	1908	A	C5-C6-N1	5.12	120.26	117.70
29	D1	2641	U	C2-N3-C4	-5.12	123.93	127.00
29	B1	220	G	N3-C4-C5	5.12	131.16	128.60
29	B1	1307	G	N1-C6-O6	5.12	122.97	119.90
29	B1	1322	U	N3-C4-O4	5.12	122.98	119.40
29	B1	2737	C	C5-C6-N1	-5.12	118.44	121.00
29	B1	2814	G	C4-C5-N7	5.12	112.85	110.80
29	B1	3000	A	C2-N3-C4	-5.12	108.04	110.60
29	D1	755	A	C5-C6-N1	5.12	120.26	117.70
29	D1	1148	G	N7-C8-N9	5.12	115.66	113.10
29	D1	2358	A	N3-C4-C5	5.12	130.38	126.80
29	D1	3257	C	N3-C4-N4	-5.12	114.42	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1335	U	C2-N1-C1'	5.12	123.84	117.70
29	B1	2648	G	C4-C5-N7	5.12	112.85	110.80
1	C1	341	A	C6-N1-C2	-5.12	115.53	118.60
29	D1	895	A	N7-C8-N9	5.12	116.36	113.80
29	D1	1861	G	C5-C6-N1	-5.12	108.94	111.50
31	D3	101	U	C2-N1-C1'	-5.12	111.56	117.70
1	A1	1567	U	C3'-C2'-C1'	5.12	105.59	101.50
29	B1	2672	G	C4-C5-N7	5.12	112.85	110.80
29	B1	2991	A	N1-C2-N3	-5.12	126.74	129.30
29	B1	3009	G	N3-C4-N9	-5.12	122.93	126.00
29	B1	3363	U	N1-C2-N3	-5.12	111.83	114.90
34	BC	170	PRO	N-CA-CB	5.12	109.44	103.30
1	C1	615	A	C6-N1-C2	-5.12	115.53	118.60
29	D1	994	G	C8-N9-C4	5.12	108.45	106.40
29	D1	2922	G	C4-C5-N7	5.12	112.85	110.80
29	D1	3266	G	C5-C6-N1	5.12	114.06	111.50
29	B1	2396	G	C6-C5-N7	-5.11	127.33	130.40
29	B1	3090	U	N3-C4-O4	5.11	122.98	119.40
1	C1	1781	A	C8-N9-C4	-5.11	103.75	105.80
11	CJ	126	PRO	N-CA-CB	5.11	109.44	103.30
29	D1	573	C	C5-C6-N1	-5.11	118.44	121.00
29	D1	1485	G	C5-C6-N1	5.11	114.06	111.50
29	B1	50	U	C6-N1-C2	-5.11	117.93	121.00
1	C1	113	U	C2-N1-C1'	-5.11	111.56	117.70
1	C1	1642	G	C4-C5-N7	5.11	112.84	110.80
29	D1	434	U	C2-N3-C4	-5.11	123.93	127.00
29	D1	624	G	C6-C5-N7	-5.11	127.33	130.40
50	DU	105	PRO	N-CA-CB	5.11	109.44	103.30
29	B1	549	U	N3-C2-O2	-5.11	118.62	122.20
29	B1	1166	G	C4-C5-N7	5.11	112.84	110.80
29	B1	1380	G	C5-C6-N1	-5.11	108.94	111.50
29	B1	2962	U	C6-N1-C1'	5.11	128.35	121.20
1	C1	351	C	N3-C4-C5	-5.11	119.86	121.90
1	C1	1418	G	C6-C5-N7	-5.11	127.33	130.40
1	C1	1420	C	C6-N1-C2	-5.11	118.25	120.30
29	D1	947	G	C5-C6-N1	5.11	114.06	111.50
29	D1	3207	U	C5-C4-O4	5.11	128.97	125.90
1	A1	314	C	C6-N1-C2	5.11	122.34	120.30
1	A1	1613	U	N1-C2-O2	5.11	126.38	122.80
29	B1	402	A	C4-N9-C1'	5.11	135.50	126.30
29	B1	2968	G	C5-C6-N1	5.11	114.06	111.50
29	B1	3059	G	C4-C5-N7	5.11	112.84	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	1486	G	N1-C6-O6	5.11	122.97	119.90
29	D1	68	C	C6-N1-C2	-5.11	118.26	120.30
29	D1	431	U	C2-N1-C1'	-5.11	111.57	117.70
29	D1	1133	A	C5-C6-N1	-5.11	115.15	117.70
29	D1	2660	G	C4-C5-N7	5.11	112.84	110.80
29	B1	214	G	C8-N9-C4	5.11	108.44	106.40
29	B1	227	G	N7-C8-N9	-5.11	110.55	113.10
29	B1	614	C	C2-N3-C4	-5.11	117.35	119.90
29	B1	624	G	C4-N9-C1'	5.11	133.14	126.50
29	B1	857	G	N1-C2-N3	5.11	126.96	123.90
29	B1	2737	C	C6-N1-C2	5.11	122.34	120.30
29	B1	2973	G	N7-C8-N9	-5.11	110.55	113.10
29	B1	3133	C	C5-C4-N4	-5.11	116.62	120.20
1	C1	1455	G	C4-C5-N7	-5.11	108.76	110.80
1	A1	439	U	C6-N1-C1'	-5.11	114.05	121.20
1	A1	479	C	C6-N1-C1'	5.11	126.93	120.80
29	B1	111	C	C5-C6-N1	-5.11	118.45	121.00
29	B1	506	U	C5-C6-N1	5.11	125.25	122.70
29	B1	556	U	C2-N3-C4	5.11	130.06	127.00
29	B1	2646	C	N1-C2-O2	-5.11	115.84	118.90
29	D1	1294	A	N3-C4-C5	-5.11	123.23	126.80
29	D1	1786	G	N9-C4-C5	5.11	107.44	105.40
29	D1	3066	U	N3-C4-C5	-5.11	111.54	114.60
29	B1	2719	U	C5-C4-O4	5.10	128.96	125.90
29	B1	2804	A	C3'-C2'-C1'	5.10	105.58	101.50
31	B3	67	U	C5-C4-O4	5.10	128.96	125.90
29	D1	715	A	C3'-C2'-C1'	5.10	105.58	101.50
1	A1	447	U	C3'-C2'-C1'	5.10	105.58	101.50
29	B1	94	G	C8-N9-C1'	5.10	133.63	127.00
29	B1	1097	G	N3-C4-C5	-5.10	126.05	128.60
29	B1	1899	G	N7-C8-N9	-5.10	110.55	113.10
29	B1	2939	G	C5-N7-C8	5.10	106.85	104.30
29	B1	3199	G	C8-N9-C1'	5.10	133.63	127.00
1	C1	594	A	C2-N3-C4	-5.10	108.05	110.60
29	D1	406	G	N9-C4-C5	-5.10	103.36	105.40
29	D1	431	U	C5-C6-N1	-5.10	120.15	122.70
29	D1	1062	A	N1-C6-N6	5.10	121.66	118.60
29	D1	1849	C	C6-N1-C2	5.10	122.34	120.30
29	D1	2679	A	N1-C6-N6	5.10	121.66	118.60
29	D1	3101	G	N1-C6-O6	5.10	122.96	119.90
29	D1	3366	G	N3-C4-C5	5.10	131.15	128.60
34	DC	239	PRO	N-CA-CB	5.10	109.42	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	437	A	N3-C4-C5	-5.10	123.23	126.80
29	B1	125	C	N1-C2-O2	5.10	121.96	118.90
29	B1	1188	U	C2-N1-C1'	-5.10	111.58	117.70
29	B1	2893	C	C6-N1-C2	5.10	122.34	120.30
29	D1	3381	U	N3-C2-O2	-5.10	118.63	122.20
1	A1	54	C	C2-N3-C4	-5.10	117.35	119.90
1	A1	1786	G	N1-C6-O6	-5.10	116.84	119.90
29	B1	1133	A	N3-C4-N9	-5.10	123.32	127.40
29	B1	1450	G	C8-N9-C1'	-5.10	120.37	127.00
29	B1	3173	G	N1-C6-O6	5.10	122.96	119.90
1	C1	627	C	C2-N1-C1'	-5.10	113.19	118.80
1	C1	1067	C	N1-C2-O2	5.10	121.96	118.90
29	D1	358	G	C5-C6-O6	-5.10	125.54	128.60
29	D1	1432	C	C5-C6-N1	5.10	123.55	121.00
29	D1	1829	G	C4-N9-C1'	5.10	133.13	126.50
29	D1	2352	A	C4-C5-N7	5.10	113.25	110.70
1	A1	1636	C	C5-C6-N1	-5.10	118.45	121.00
6	AE	144	PRO	N-CA-CB	5.10	109.42	103.30
29	B1	143	G	C5-C6-O6	-5.10	125.54	128.60
29	B1	746	A	N3-C4-C5	-5.10	123.23	126.80
29	B1	1000	C	C6-N1-C2	5.10	122.34	120.30
1	C1	798	C	C2-N1-C1'	5.10	124.41	118.80
1	C1	1220	C	N1-C2-O2	5.10	121.96	118.90
1	C1	1408	G	C8-N9-C1'	-5.10	120.37	127.00
1	C1	1620	C	C6-N1-C1'	-5.10	114.68	120.80
1	C1	1789	G	C2-N3-C4	-5.10	109.35	111.90
29	D1	552	G	N9-C4-C5	5.10	107.44	105.40
29	D1	1793	C	C6-N1-C1'	-5.10	114.68	120.80
29	D1	1900	A	C8-N9-C4	-5.10	103.76	105.80
29	D1	1912	U	C5-C6-N1	5.10	125.25	122.70
29	B1	86	G	C6-C5-N7	5.10	133.46	130.40
29	B1	1371	G	N3-C4-N9	5.10	129.06	126.00
29	B1	1477	A	C5-C6-N1	-5.10	115.15	117.70
29	D1	524	U	C3'-C2'-C1'	5.10	105.58	101.50
29	D1	3198	U	C5-C4-O4	-5.10	122.84	125.90
1	A1	88	U	C5-C4-O4	5.09	128.96	125.90
29	B1	1209	G	N1-C2-N3	5.09	126.96	123.90
29	B1	1481	A	C8-N9-C4	5.09	107.84	105.80
29	B1	2215	A	C2-N3-C4	-5.09	108.05	110.60
31	B3	97	A	C8-N9-C4	5.09	107.84	105.80
1	C1	1579	U	C2-N1-C1'	5.09	123.81	117.70
29	D1	625	G	C6-N1-C2	5.09	128.16	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	DN	67	PRO	N-CA-CB	5.09	109.41	103.30
1	A1	1468	U	C5-C4-O4	-5.09	122.84	125.90
1	A1	1777	G	C4-N9-C1'	5.09	133.12	126.50
29	B1	2912	G	N7-C8-N9	5.09	115.65	113.10
1	A1	1591	C	N3-C4-N4	-5.09	114.44	118.00
29	B1	152	U	C3'-C2'-C1'	5.09	105.57	101.50
29	B1	394	G	N9-C4-C5	5.09	107.44	105.40
29	B1	531	G	N3-C4-N9	-5.09	122.94	126.00
29	B1	1508	C	N3-C4-C5	-5.09	119.86	121.90
29	B1	3220	G	C5-C6-O6	-5.09	125.55	128.60
1	C1	792	U	C2-N1-C1'	5.09	123.81	117.70
29	D1	698	U	C2-N1-C1'	5.09	123.81	117.70
35	DD	249	ILE	N-CA-C	-5.09	97.25	111.00
29	B1	754	G	C8-N9-C4	5.09	108.44	106.40
29	B1	999	G	C6-N1-C2	-5.09	122.05	125.10
29	B1	1178	G	C5-C6-N1	5.09	114.05	111.50
29	B1	1387	G	C2-N3-C4	-5.09	109.36	111.90
30	D2	65	G	C6-C5-N7	-5.09	127.35	130.40
30	B2	15	C	C6-N1-C2	5.09	122.33	120.30
1	C1	784	C	N1-C2-O2	5.09	121.95	118.90
29	D1	985	U	C5-C6-N1	-5.09	120.16	122.70
29	D1	1899	G	C5-C6-N1	-5.09	108.96	111.50
29	D1	2400	G	N1-C6-O6	5.09	122.95	119.90
1	A1	389	G	C5-C6-O6	-5.09	125.55	128.60
29	B1	2597	U	N1-C2-N3	5.09	117.95	114.90
29	B1	2780	A	N3-C4-N9	5.09	131.47	127.40
29	B1	2907	G	C8-N9-C4	-5.09	104.37	106.40
29	B1	3148	U	C5-C6-N1	-5.09	120.16	122.70
29	B1	3231	U	C2-N3-C4	-5.09	123.95	127.00
1	C1	426	G	C8-N9-C4	5.09	108.43	106.40
29	D1	278	U	N3-C2-O2	5.09	125.76	122.20
1	C1	1045	C	N3-C4-N4	-5.08	114.44	118.00
29	B1	1155	C	N1-C2-O2	-5.08	115.85	118.90
29	B1	2691	A	C2-N3-C4	5.08	113.14	110.60
29	B1	1054	A	N7-C8-N9	-5.08	111.26	113.80
29	B1	2147	A	C4-C5-N7	5.08	113.24	110.70
29	B1	3271	G	N1-C2-N3	-5.08	120.85	123.90
29	D1	834	U	N1-C2-O2	5.08	126.36	122.80
29	D1	1207	G	C6-C5-N7	-5.08	127.35	130.40
29	D1	1397	C	N1-C2-O2	-5.08	115.85	118.90
29	D1	2201	G	N1-C6-O6	5.08	122.95	119.90
29	D1	3296	A	C8-N9-C4	5.08	107.83	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	625	G	N7-C8-N9	-5.08	110.56	113.10
29	B1	651	G	C2-N3-C4	-5.08	109.36	111.90
1	C1	960	U	N3-C2-O2	-5.08	118.64	122.20
29	D1	362	U	N3-C4-O4	5.08	122.96	119.40
29	D1	1365	G	N1-C2-N3	5.08	126.95	123.90
29	D1	2364	G	N9-C4-C5	-5.08	103.37	105.40
29	D1	3134	A	C5-C6-N6	-5.08	119.64	123.70
1	A1	149	C	C2-N1-C1'	5.08	124.39	118.80
1	A1	420	A	C2-N3-C4	-5.08	108.06	110.60
1	A1	1604	U	C2-N1-C1'	5.08	123.79	117.70
29	B1	1095	U	C2-N1-C1'	5.08	123.80	117.70
29	B1	2525	G	C4-N9-C1'	-5.08	119.90	126.50
29	B1	2806	U	N1-C2-N3	5.08	117.95	114.90
29	D1	513	G	N1-C2-N3	5.08	126.95	123.90
29	D1	805	G	C8-N9-C4	-5.08	104.37	106.40
29	D1	2368	A	C6-C5-N7	-5.08	128.75	132.30
29	D1	2982	A	N9-C4-C5	5.08	107.83	105.80
31	D3	100	U	C5-C4-O4	-5.08	122.85	125.90
29	B1	2618	G	N3-C4-N9	-5.08	122.95	126.00
29	D1	574	U	C5-C4-O4	-5.08	122.85	125.90
29	D1	2395	G	N1-C2-N3	5.08	126.95	123.90
1	A1	986	G	C5-C6-N1	-5.08	108.96	111.50
29	B1	501	A	N9-C4-C5	-5.08	103.77	105.80
29	B1	1124	U	N3-C4-C5	5.08	117.65	114.60
29	B1	3329	U	N3-C4-O4	-5.08	115.85	119.40
29	D1	429	U	N3-C4-C5	-5.08	111.56	114.60
29	D1	1158	A	N1-C6-N6	-5.08	115.56	118.60
29	D1	1525	G	N9-C4-C5	-5.08	103.37	105.40
29	D1	2740	A	C5-N7-C8	-5.08	101.36	103.90
29	D1	2904	U	N3-C4-O4	-5.08	115.85	119.40
1	A1	1438	G	C4-N9-C1'	5.07	133.09	126.50
29	B1	45	A	C4-C5-C6	-5.07	114.46	117.00
29	B1	1898	G	C4-C5-N7	-5.07	108.77	110.80
29	B1	3320	A	C5-C6-N1	-5.07	115.16	117.70
1	C1	354	C	N1-C2-O2	-5.07	115.86	118.90
11	CJ	35	PRO	N-CA-CB	5.07	109.39	103.30
29	D1	726	G	C4-C5-C6	5.07	121.84	118.80
29	D1	1894	U	C5-C6-N1	-5.07	120.16	122.70
29	D1	3236	U	N3-C2-O2	-5.07	118.65	122.20
31	D3	136	G	N3-C4-N9	-5.07	122.95	126.00
29	B1	2372	A	C8-N9-C1'	-5.07	118.57	127.70
29	B1	2652	U	C3'-C2'-C1'	5.07	105.56	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	666	A	N3-C4-C5	5.07	130.35	126.80
29	D1	746	A	C6-N1-C2	-5.07	115.56	118.60
29	D1	2840	C	N3-C4-N4	5.07	121.55	118.00
29	D1	2948	C	C3'-C2'-C1'	5.07	105.56	101.50
1	A1	551	G	C4-C5-N7	5.07	112.83	110.80
29	B1	656	A	C8-N9-C4	-5.07	103.77	105.80
29	B1	857	G	N3-C2-N2	-5.07	116.35	119.90
29	B1	1880	U	C2-N3-C4	-5.07	123.96	127.00
29	B1	2719	U	N1-C2-N3	5.07	117.94	114.90
1	C1	1651	A	N9-C4-C5	-5.07	103.77	105.80
29	D1	659	G	N3-C4-C5	-5.07	126.06	128.60
29	D1	1307	G	C6-C5-N7	-5.07	127.36	130.40
30	D2	46	A	N1-C6-N6	-5.07	115.56	118.60
1	A1	45	U	C3'-C2'-C1'	5.07	105.56	101.50
29	B1	2174	G	C4-N9-C1'	-5.07	119.91	126.50
29	D1	2856	G	C4-C5-N7	5.07	112.83	110.80
29	D1	3200	G	C4-N9-C1'	-5.07	119.91	126.50
29	B1	1066	G	C8-N9-C4	-5.07	104.37	106.40
29	B1	1125	U	N1-C2-O2	-5.07	119.25	122.80
29	B1	2122	G	N3-C4-C5	5.07	131.13	128.60
1	C1	1634	C	O4'-C1'-N1	-5.07	104.15	108.20
29	D1	1098	A	C2-N3-C4	-5.07	108.07	110.60
29	D1	1899	G	C4-C5-N7	-5.07	108.77	110.80
29	D1	2639	G	N1-C6-O6	5.07	122.94	119.90
29	D1	2652	U	C3'-C2'-C1'	5.07	105.55	101.50
29	D1	2752	U	C6-N1-C2	-5.07	117.96	121.00
29	B1	575	G	N3-C4-N9	-5.07	122.96	126.00
29	B1	719	U	N3-C4-C5	5.07	117.64	114.60
29	B1	1850	A	C2-N3-C4	-5.07	108.07	110.60
29	B1	2889	C	C2-N3-C4	-5.07	117.37	119.90
29	D1	661	G	C6-C5-N7	-5.07	127.36	130.40
29	D1	3104	U	C5-C4-O4	-5.07	122.86	125.90
1	A1	1753	A	C8-N9-C4	5.06	107.83	105.80
1	C1	1512	G	C6-C5-N7	-5.06	127.36	130.40
29	D1	1147	G	C8-N9-C4	5.06	108.43	106.40
29	B1	196	G	C2-N3-C4	5.06	114.43	111.90
29	B1	1401	A	N1-C2-N3	-5.06	126.77	129.30
29	B1	2961	G	C4-N9-C1'	5.06	133.08	126.50
31	B3	129	C	C5-C4-N4	-5.06	116.66	120.20
1	C1	338	C	N1-C2-O2	5.06	121.94	118.90
1	C1	592	A	C6-N1-C2	5.06	121.64	118.60
1	C1	1046	G	C4-N9-C1'	5.06	133.08	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	674	G	N3-C4-C5	5.06	131.13	128.60
29	D1	2699	G	C5-C6-O6	-5.06	125.56	128.60
29	D1	2853	A	C4-C5-C6	-5.06	114.47	117.00
29	D1	2999	U	C6-N1-C2	-5.06	117.96	121.00
1	A1	1025	A	N9-C4-C5	5.06	107.83	105.80
29	B1	713	U	C5-C6-N1	-5.06	120.17	122.70
29	D1	676	G	C8-N9-C4	-5.06	104.38	106.40
29	D1	1440	G	C6-C5-N7	5.06	133.44	130.40
29	D1	1589	A	C4-C5-N7	5.06	113.23	110.70
1	A1	686	C	C5-C4-N4	-5.06	116.66	120.20
29	B1	407	A	N1-C6-N6	-5.06	115.56	118.60
29	B1	958	C	C6-N1-C1'	-5.06	114.73	120.80
29	B1	1398	U	C3'-C2'-C1'	5.06	105.55	101.50
29	B1	2362	C	C2-N3-C4	5.06	122.43	119.90
29	B1	3367	C	N3-C4-C5	5.06	123.92	121.90
35	BD	75	PRO	N-CA-CB	5.06	109.37	103.30
1	C1	865	A	N7-C8-N9	-5.06	111.27	113.80
1	C1	1567	U	C5-C4-O4	-5.06	122.86	125.90
29	D1	1301	A	C2-N3-C4	-5.06	108.07	110.60
29	D1	2863	G	C4-C5-N7	-5.06	108.78	110.80
29	D1	2896	A	C4-C5-N7	-5.06	108.17	110.70
1	A1	62	A	C4-C5-N7	-5.06	108.17	110.70
1	A1	389	G	C5-C6-N1	5.06	114.03	111.50
1	A1	1033	C	C5-C6-N1	-5.06	118.47	121.00
1	A1	1647	U	C2-N3-C4	5.06	130.03	127.00
29	B1	814	U	C6-N1-C2	5.06	124.03	121.00
29	B1	918	C	C6-N1-C2	5.06	122.32	120.30
29	B1	1056	U	N3-C2-O2	-5.06	118.66	122.20
31	B3	131	A	C6-N1-C2	5.06	121.63	118.60
29	D1	220	G	N9-C4-C5	-5.06	103.38	105.40
29	D1	2641	U	N3-C2-O2	-5.06	118.66	122.20
29	D1	2957	G	C5-C6-N1	-5.06	108.97	111.50
29	B1	3177	G	C4-C5-N7	-5.06	108.78	110.80
29	B1	406	G	N9-C4-C5	-5.05	103.38	105.40
29	B1	953	G	C4-C5-N7	5.05	112.82	110.80
29	B1	1833	G	C8-N9-C4	5.05	108.42	106.40
29	B1	3111	U	N3-C2-O2	-5.05	118.66	122.20
1	C1	650	U	C2-N1-C1'	5.05	123.76	117.70
1	C1	1159	C	C5-C6-N1	5.05	123.53	121.00
1	C1	1595	U	C2-N3-C4	5.05	130.03	127.00
29	D1	2291	A	C4-C5-N7	5.05	113.23	110.70
29	D1	2667	A	N3-C4-C5	-5.05	123.26	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	DY	71	PRO	N-CA-CB	5.05	109.36	103.30
1	A1	1757	G	C4-C5-N7	5.05	112.82	110.80
29	B1	1381	A	N3-C4-C5	5.05	130.34	126.80
29	D1	2353	G	C8-N9-C1'	-5.05	120.43	127.00
1	A1	1139	A	N9-C4-C5	-5.05	103.78	105.80
1	A1	1428	G	C4-C5-N7	5.05	112.82	110.80
29	B1	504	A	C4-N9-C1'	5.05	135.39	126.30
29	B1	2281	A	C4-C5-C6	5.05	119.53	117.00
29	B1	2989	U	N1-C2-O2	-5.05	119.26	122.80
29	D1	968	G	C2-N3-C4	-5.05	109.37	111.90
29	D1	1710	C	C5-C4-N4	-5.05	116.66	120.20
29	D1	2875	U	C2-N1-C1'	5.05	123.76	117.70
53	DX	23	PRO	N-CA-CB	5.05	109.36	103.30
29	B1	429	U	N1-C2-O2	-5.05	119.27	122.80
29	B1	3230	G	C5-C6-O6	5.05	131.63	128.60
1	C1	374	U	N3-C4-C5	5.05	117.63	114.60
29	D1	233	C	C6-N1-C2	5.05	122.32	120.30
29	D1	1507	G	C5-N7-C8	-5.05	101.78	104.30
29	B1	7	C	N1-C2-O2	5.05	121.93	118.90
29	B1	1658	G	C2-N3-C4	-5.05	109.38	111.90
29	D1	2719	U	C5-C6-N1	-5.05	120.18	122.70
1	A1	1006	C	N1-C2-O2	-5.05	115.87	118.90
1	A1	1136	U	N1-C2-O2	5.05	126.33	122.80
29	B1	677	A	C4-C5-N7	5.05	113.22	110.70
29	B1	1002	A	N1-C6-N6	-5.05	115.57	118.60
29	B1	1618	G	C2-N3-C4	5.05	114.42	111.90
29	B1	1902	G	C6-C5-N7	-5.05	127.37	130.40
1	C1	1028	C	N3-C4-C5	5.05	123.92	121.90
29	D1	675	C	N3-C4-C5	5.05	123.92	121.90
29	D1	790	U	N1-C2-O2	-5.05	119.27	122.80
29	D1	1303	A	N3-C4-C5	5.05	130.33	126.80
29	B1	1550	C	N3-C2-O2	5.04	125.43	121.90
29	B1	2275	A	C2-N3-C4	-5.04	108.08	110.60
29	D1	2681	U	C5-C6-N1	5.04	125.22	122.70
29	D1	3244	A	N1-C2-N3	-5.04	126.78	129.30
38	DG	193	PRO	N-CA-CB	5.04	109.35	103.30
29	B1	644	G	N1-C6-O6	5.04	122.93	119.90
29	B1	729	C	N3-C2-O2	-5.04	118.37	121.90
29	B1	831	G	C8-N9-C4	5.04	108.42	106.40
29	B1	984	G	C4-N9-C1'	-5.04	119.94	126.50
29	B1	1152	G	N3-C4-N9	-5.04	122.97	126.00
29	B1	2525	G	N3-C4-C5	5.04	131.12	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B1	2685	C	C2-N1-C1'	5.04	124.35	118.80
29	B1	2917	G	C4-N9-C1'	-5.04	119.94	126.50
29	B1	2973	G	C8-N9-C4	5.04	108.42	106.40
29	B1	3312	U	N1-C2-O2	5.04	126.33	122.80
30	B2	10	C	C5-C6-N1	5.04	123.52	121.00
30	B2	96	U	N1-C2-O2	-5.04	119.27	122.80
31	B3	10	A	C8-N9-C4	-5.04	103.78	105.80
1	C1	318	U	C5-C6-N1	-5.04	120.18	122.70
1	C1	1754	A	C6-N1-C2	-5.04	115.57	118.60
11	CJ	124	PRO	N-CA-CB	5.04	109.35	103.30
29	D1	566	G	N1-C6-O6	-5.04	116.87	119.90
29	D1	944	C	C2-N1-C1'	-5.04	113.25	118.80
29	D1	1063	G	C2-N3-C4	-5.04	109.38	111.90
1	A1	1669	U	N1-C2-O2	-5.04	119.27	122.80
29	B1	790	U	N3-C4-C5	5.04	117.62	114.60
29	B1	2755	C	C6-N1-C2	5.04	122.32	120.30
1	C1	59	C	N3-C2-O2	-5.04	118.37	121.90
1	C1	425	A	C5-C6-N1	5.04	120.22	117.70
29	D1	910	G	C4-C5-N7	5.04	112.82	110.80
29	D1	1786	G	C4-C5-N7	-5.04	108.78	110.80
29	B1	822	G	C4-N9-C1'	-5.04	119.95	126.50
29	B1	1868	G	N3-C4-C5	5.04	131.12	128.60
29	B1	3200	G	N3-C4-N9	-5.04	122.98	126.00
1	C1	384	G	C8-N9-C4	5.04	108.42	106.40
29	D1	744	A	N3-C4-C5	-5.04	123.27	126.80
29	D1	1899	G	C5-N7-C8	5.04	106.82	104.30
29	D1	2607	G	C4-C5-C6	5.04	121.82	118.80
29	D1	2909	U	C5-C6-N1	-5.04	120.18	122.70
1	A1	1124	A	C8-N9-C4	5.04	107.81	105.80
29	B1	630	A	C5-N7-C8	-5.04	101.38	103.90
29	B1	3114	A	N7-C8-N9	-5.04	111.28	113.80
30	B2	47	C	C4-C5-C6	-5.04	114.88	117.40
41	BJ	178	ARG	N-CA-C	5.04	124.61	111.00
1	C1	1377	U	C6-N1-C1'	-5.04	114.15	121.20
29	D1	343	U	N1-C2-O2	5.04	126.33	122.80
29	D1	563	U	C5-C6-N1	5.04	125.22	122.70
29	D1	2149	A	C8-N9-C4	5.04	107.81	105.80
29	D1	2982	A	C4-C5-C6	-5.04	114.48	117.00
29	D1	3332	U	C2-N1-C1'	-5.04	111.66	117.70
1	C1	1634	C	N1-C2-O2	5.04	121.92	118.90
29	D1	281	G	C5-C6-O6	-5.04	125.58	128.60
29	D1	3038	U	C3'-C2'-C1'	5.04	105.53	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A1	1365	C	N1-C2-O2	-5.04	115.88	118.90
1	A1	1418	G	N7-C8-N9	5.04	115.62	113.10
1	A1	1428	G	C6-C5-N7	-5.04	127.38	130.40
1	A1	1547	A	N3-C4-C5	5.04	130.32	126.80
29	B1	304	G	N9-C4-C5	-5.04	103.39	105.40
29	B1	882	A	C5-N7-C8	5.04	106.42	103.90
29	B1	909	G	C2-N3-C4	-5.04	109.38	111.90
29	B1	2610	G	C5-C6-N1	5.04	114.02	111.50
29	B1	2653	C	C5-C4-N4	-5.04	116.67	120.20
29	B1	3130	A	C5-C6-N6	-5.04	119.67	123.70
29	B1	3328	G	C8-N9-C4	5.04	108.42	106.40
1	C1	364	G	C4-C5-N7	-5.04	108.79	110.80
29	D1	724	U	C2-N3-C4	-5.04	123.98	127.00
29	D1	2883	U	C4-C5-C6	5.04	122.72	119.70
29	D1	3200	G	N1-C6-O6	-5.04	116.88	119.90
30	D2	49	G	N3-C4-N9	5.04	129.02	126.00
45	DP	109	PRO	N-CA-CB	5.04	109.34	103.30
29	B1	669	U	N3-C4-O4	5.03	122.92	119.40
29	B1	719	U	C4-C5-C6	-5.03	116.68	119.70
29	B1	1404	G	C2-N3-C4	-5.03	109.38	111.90
29	B1	2668	U	N3-C2-O2	-5.03	118.68	122.20
29	B1	2828	G	C8-N9-C1'	-5.03	120.46	127.00
29	B1	3069	G	C4-C5-N7	5.03	112.81	110.80
1	C1	797	G	C8-N9-C4	5.03	108.41	106.40
29	D1	327	A	C4-C5-C6	5.03	119.52	117.00
29	D1	529	A	N3-C4-C5	5.03	130.32	126.80
29	D1	1170	A	N1-C6-N6	5.03	121.62	118.60
29	D1	1877	U	N3-C2-O2	-5.03	118.68	122.20
29	B1	362	U	C5-C4-O4	-5.03	122.88	125.90
29	B1	857	G	C5-C6-N1	-5.03	108.98	111.50
29	D1	352	A	C6-C5-N7	5.03	135.82	132.30
1	A1	306	U	C2-N3-C4	-5.03	123.98	127.00
1	A1	1008	G	C8-N9-C1'	-5.03	120.46	127.00
29	B1	98	G	C5-C6-N1	-5.03	108.98	111.50
29	B1	834	U	C2-N3-C4	5.03	130.02	127.00
29	B1	1190	A	C8-N9-C4	-5.03	103.79	105.80
29	B1	2935	U	N1-C2-O2	-5.03	119.28	122.80
29	B1	3210	A	N3-C4-C5	5.03	130.32	126.80
1	C1	563	U	N1-C2-O2	5.03	126.32	122.80
1	C1	1144	U	N3-C4-O4	-5.03	115.88	119.40
1	C1	1417	A	N9-C4-C5	-5.03	103.79	105.80
29	B1	215	G	N7-C8-N9	5.03	115.61	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	556	U	C2-N3-C4	5.03	130.02	127.00
29	B1	103	G	C4-C5-N7	5.03	112.81	110.80
29	B1	364	G	C4-N9-C1'	5.03	133.04	126.50
29	B1	536	U	N3-C4-O4	5.03	122.92	119.40
1	C1	246	G	C8-N9-C1'	5.03	133.54	127.00
1	C1	784	C	N3-C4-C5	5.03	123.91	121.90
1	C1	1756	A	N7-C8-N9	5.03	116.31	113.80
29	D1	2144	A	C8-N9-C4	5.03	107.81	105.80
29	B1	916	G	C4-N9-C1'	5.03	133.03	126.50
29	B1	1305	U	C2-N1-C1'	-5.03	111.67	117.70
29	B1	3269	U	C6-N1-C1'	-5.03	114.17	121.20
31	B3	129	C	C6-N1-C2	5.03	122.31	120.30
29	D1	1097	G	N3-C4-N9	-5.03	122.98	126.00
29	D1	1314	C	N3-C2-O2	-5.03	118.38	121.90
29	D1	3024	A	C2-N3-C4	-5.03	108.09	110.60
1	A1	1429	G	N9-C4-C5	5.02	107.41	105.40
29	B1	693	A	C4-C5-C6	5.02	119.51	117.00
29	B1	1405	U	C5-C6-N1	-5.02	120.19	122.70
29	B1	3096	C	N1-C2-O2	-5.02	115.89	118.90
1	C1	1004	U	N3-C2-O2	-5.02	118.68	122.20
29	D1	304	G	N3-C4-N9	5.02	129.01	126.00
29	D1	1703	U	C5-C4-O4	5.02	128.91	125.90
29	D1	3100	U	N3-C2-O2	-5.02	118.68	122.20
29	B1	727	G	C6-C5-N7	-5.02	127.39	130.40
29	B1	815	G	N1-C6-O6	5.02	122.91	119.90
29	B1	1586	G	C5-C6-O6	5.02	131.61	128.60
29	B1	1793	C	C6-N1-C1'	-5.02	114.77	120.80
29	B1	2183	A	N7-C8-N9	5.02	116.31	113.80
29	B1	2315	G	C5-C6-O6	-5.02	125.59	128.60
29	D1	3038	U	C5-C4-O4	-5.02	122.89	125.90
30	D2	120	C	N1-C2-N3	5.02	122.72	119.20
29	B1	674	G	C4-C5-N7	5.02	112.81	110.80
1	C1	757	A	C4-C5-C6	5.02	119.51	117.00
1	C1	1073	G	C2-N3-C4	5.02	114.41	111.90
29	B1	518	G	N1-C2-N2	5.02	120.72	116.20
29	B1	651	G	N1-C2-N3	5.02	126.91	123.90
29	B1	859	G	C6-N1-C2	-5.02	122.09	125.10
29	B1	1494	U	C5-C6-N1	-5.02	120.19	122.70
29	B1	3208	G	C5-C6-N1	5.02	114.01	111.50
1	C1	1486	G	C6-N1-C2	5.02	128.11	125.10
29	D1	380	U	C2-N3-C4	5.02	130.01	127.00
29	D1	1518	U	C2-N3-C4	-5.02	123.99	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D1	2768	U	C6-N1-C2	5.02	124.01	121.00
29	D1	3130	A	C4-N9-C1'	5.02	135.34	126.30
1	A1	1579	U	C6-N1-C1'	-5.02	114.18	121.20
29	B1	529	A	N3-C4-N9	-5.02	123.39	127.40
29	B1	744	A	C6-C5-N7	5.02	135.81	132.30
29	B1	2146	C	N3-C2-O2	-5.02	118.39	121.90
29	B1	2267	C	N3-C2-O2	5.02	125.41	121.90
29	B1	3243	A	C5-C6-N1	5.02	120.21	117.70
30	B2	26	C	N3-C4-C5	5.02	123.91	121.90
1	C1	1472	C	N3-C2-O2	-5.02	118.39	121.90
29	D1	1120	A	N3-C4-C5	-5.02	123.29	126.80
29	D1	2935	U	C2-N3-C4	-5.02	123.99	127.00
29	D1	3258	U	N3-C4-C5	-5.02	111.59	114.60
33	DB	188	LYS	N-CA-C	-5.02	97.45	111.00
29	B1	1840	U	C2-N1-C1'	-5.02	111.68	117.70
29	B1	2436	U	N3-C2-O2	5.02	125.71	122.20
29	B1	3124	G	N3-C2-N2	-5.02	116.39	119.90
30	B2	8	G	C5-C6-N1	5.02	114.01	111.50
29	D1	288	C	C4-C5-C6	5.02	119.91	117.40
29	D1	1134	G	N3-C4-N9	-5.02	122.99	126.00
29	D1	2366	C	N3-C4-C5	5.02	123.91	121.90
29	D1	2906	C	C2-N3-C4	-5.02	117.39	119.90
29	D1	3279	A	C5-C6-N1	-5.02	115.19	117.70
1	A1	1097	U	C2-N1-C1'	-5.01	111.68	117.70
1	A1	1422	A	C5-C6-N1	5.01	120.21	117.70
29	B1	790	U	C2-N1-C1'	-5.01	111.68	117.70
29	B1	934	G	C4-N9-C1'	5.01	133.02	126.50
29	B1	1874	A	N1-C2-N3	5.01	131.81	129.30
29	B1	2385	G	C8-N9-C1'	-5.01	120.48	127.00
43	BN	14	LEU	N-CA-C	5.01	124.54	111.00
1	C1	1541	G	N1-C2-N2	-5.01	111.69	116.20
29	D1	3030	G	N1-C6-O6	5.01	122.91	119.90
29	B1	2869	U	C6-N1-C2	-5.01	117.99	121.00
31	B3	92	A	N3-C4-N9	-5.01	123.39	127.40
29	D1	834	U	C5-C4-O4	5.01	128.91	125.90
29	D1	1169	A	C6-C5-N7	5.01	135.81	132.30
29	D1	2722	U	N3-C4-O4	5.01	122.91	119.40
43	DN	54	PRO	N-CA-CB	5.01	109.31	103.30
29	B1	608	A	C5-N7-C8	-5.01	101.39	103.90
29	B1	1389	G	C3'-C2'-C1'	5.01	105.51	101.50
29	B1	3060	C	N1-C2-O2	-5.01	115.89	118.90
57	Bb	31	ASN	N-CA-C	5.01	124.53	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C1	569	C	C5-C4-N4	-5.01	116.69	120.20
1	C1	587	C	N1-C2-O2	5.01	121.91	118.90
1	C1	1760	G	C2-N3-C4	5.01	114.41	111.90
29	D1	2342	U	C2-N3-C4	-5.01	123.99	127.00
29	D1	2896	A	N1-C2-N3	5.01	131.81	129.30
31	D3	102	U	N1-C2-O2	-5.01	119.29	122.80
29	B1	68	C	C6-N1-C2	-5.01	118.30	120.30
29	B1	2889	C	N3-C4-C5	5.01	123.90	121.90
29	D1	288	C	N1-C2-N3	5.01	122.71	119.20
29	D1	1141	C	N3-C4-C5	5.01	123.90	121.90
29	D1	3089	C	C2-N1-C1'	5.01	124.31	118.80
29	B1	2551	U	N3-C4-O4	5.01	122.91	119.40
1	C1	444	C	N1-C2-N3	-5.01	115.69	119.20
1	C1	1595	U	C6-N1-C2	-5.01	118.00	121.00
29	D1	597	G	C6-C5-N7	-5.01	127.39	130.40
29	D1	1420	C	C2-N1-C1'	-5.01	113.29	118.80
1	A1	125	U	C3'-C2'-C1'	5.01	105.50	101.50
1	A1	1653	C	N1-C2-O2	-5.01	115.90	118.90
30	B2	98	C	N3-C4-C5	5.01	123.90	121.90
29	D1	573	C	N1-C2-N3	5.01	122.70	119.20
29	D1	1928	G	N7-C8-N9	-5.01	110.60	113.10
29	D1	2988	C	N3-C4-C5	5.01	123.90	121.90
29	D1	3136	G	C8-N9-C4	-5.01	104.40	106.40
29	D1	3352	U	N1-C2-O2	5.01	126.30	122.80
29	B1	2201	G	C4-C5-N7	5.00	112.80	110.80
29	D1	614	C	C4-C5-C6	-5.00	114.90	117.40
1	A1	1458	G	C8-N9-C4	-5.00	104.40	106.40
29	B1	15	C	C6-N1-C2	-5.00	118.30	120.30
29	B1	1804	A	C5-N7-C8	-5.00	101.40	103.90
29	D1	1621	A	N1-C6-N6	-5.00	115.60	118.60
29	D1	2368	A	C4-C5-C6	5.00	119.50	117.00
29	B1	2193	U	C3'-C2'-C1'	5.00	105.50	101.50
29	B1	3095	U	N3-C4-O4	5.00	122.90	119.40
1	C1	63	G	C4-C5-N7	-5.00	108.80	110.80
29	D1	2176	U	N3-C2-O2	-5.00	118.70	122.20
29	D1	2329	C	N3-C2-O2	5.00	125.40	121.90
29	D1	2661	G	N1-C6-O6	-5.00	116.90	119.90
29	D1	3207	U	C5-C6-N1	-5.00	120.20	122.70
29	D1	3332	U	C2-N3-C4	5.00	130.00	127.00
30	D2	117	A	C5-C6-N1	-5.00	115.20	117.70

There are no chirality outliers.

All (68) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	AB	224	PHE	Peptide
3	AB	225	LEU	Peptide
17	AP	28	ASN	Peptide
18	AQ	41	ILE	Peptide
23	Ab	14	UNK	Peptide
24	Ac	63	UNK	Peptide
29	B1	1884	A	Sidechain
29	B1	308	A	Sidechain
29	B1	3184	A	Sidechain
34	BC	239	PRO	Peptide
34	BC	313	HIS	Peptide
34	BC	4	ARG	Peptide
34	BC	95	THR	Peptide
34	BC	98	GLY	Peptide
35	BD	143	GLU	Peptide
36	BE	23	ARG	Peptide
37	BF	38	THR	Peptide
37	BF	60	ASP	Peptide
37	BF	69	PHE	Peptide
37	BF	91	VAL	Peptide
38	BG	165	ASP	Peptide
42	BK	51	ARG	Peptide
45	BP	121	PRO	Peptide
45	BP	130	LYS	Peptide
45	BP	56	ASP	Peptide
45	BP	58	LEU	Peptide
49	BT	49	GLN	Peptide
51	BV	54	LEU	Peptide
54	BY	1	MET	Peptide
54	BY	61	PHE	Peptide
56	Ba	24	SER	Peptide
57	Bb	122	PRO	Peptide
22	Bo	20	UNK	Peptide
3	CB	224	PHE	Peptide
3	CB	225	LEU	Peptide
17	CP	28	ASN	Peptide
18	CQ	41	ILE	Peptide
23	Cb	83	UNK	Peptide
29	D1	1884	A	Sidechain
29	D1	308	A	Sidechain
29	D1	3184	A	Sidechain
34	DC	239	PRO	Peptide

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Mol	Chain	Res	Type	Group
34	DC	281	LYS	Peptide
34	DC	313	HIS	Peptide
34	DC	4	ARG	Peptide
34	DC	95	THR	Peptide
34	DC	98	GLY	Peptide
35	DD	125	ALA	Peptide
35	DD	143	GLU	Peptide
36	DE	23	ARG	Peptide
37	DF	38	THR	Peptide
37	DF	60	ASP	Peptide
37	DF	69	PHE	Peptide
37	DF	91	VAL	Peptide
38	DG	165	ASP	Peptide
42	DK	51	ARG	Peptide
44	DO	187	ARG	Peptide
45	DP	121	PRO	Peptide
45	DP	130	LYS	Peptide
45	DP	57	PHE	Peptide
45	DP	58	LEU	Peptide
45	DP	75	ALA	Peptide
49	DT	49	GLN	Peptide
51	DV	54	LEU	Peptide
54	DY	1	MET	Peptide
54	DY	61	PHE	Peptide
56	Da	24	SER	Peptide
57	Db	122	PRO	Peptide

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	38107	0	19170	5867	0
1	C1	38107	0	19169	6035	0
2	AA	1090	0	508	112	0
2	CA	1090	0	508	119	0
3	AB	1074	0	502	131	0
3	CB	1074	0	502	141	0
4	AC	928	0	448	85	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	CC	928	0	448	89	0
5	AD	836	0	391	107	0
5	CD	836	0	391	111	0
6	AE	777	0	362	86	0
6	CE	777	0	362	89	0
7	AF	382	0	164	27	0
7	CF	382	0	164	25	0
8	AG	580	0	266	67	0
8	CG	580	0	266	61	0
9	AH	627	0	312	61	0
9	CH	627	0	312	77	0
10	AI	596	0	272	56	0
10	CI	596	0	272	71	0
11	AJ	658	0	307	80	0
11	CJ	658	0	307	83	0
12	AK	332	0	146	26	0
12	CK	332	0	146	21	0
13	AL	591	0	261	72	0
13	CL	591	0	261	77	0
14	AM	521	0	251	66	0
14	CM	521	0	251	67	0
15	AN	551	0	229	82	0
15	CN	551	0	229	77	0
16	AO	622	0	283	58	0
16	CO	622	0	283	51	0
17	AP	566	0	260	75	0
17	CP	566	0	260	74	0
18	AQ	332	0	149	16	0
18	CQ	312	0	135	17	0
19	AR	230	0	100	10	0
19	CR	230	0	100	11	0
20	AS	190	0	85	47	0
20	CS	190	0	85	45	0
21	AT	1543	0	743	94	0
21	CT	1543	0	743	103	0
22	Aa	100	0	25	0	0
22	Bo	100	0	23	0	0
22	Ca	100	0	23	0	0
23	Ab	525	0	141	0	0
23	Cb	525	0	138	0	0
24	Ac	465	0	122	0	0
24	Cc	465	0	120	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	Ad	175	0	39	0	0
25	Cd	175	0	41	0	0
26	Ae	105	0	25	0	0
26	Bj	105	0	23	0	0
26	Dj	105	0	24	0	0
27	Af	55	0	15	0	0
28	Ah	205	0	51	0	0
28	Ch	205	0	50	0	0
29	B1	68577	0	34452	11488	0
29	D1	68577	0	34452	11458	0
30	B2	2579	0	1304	604	0
30	D2	2579	0	1304	619	0
31	B3	3353	0	1695	663	0
31	D3	3353	0	1695	615	0
32	BA	1055	0	453	34	0
32	DA	1055	0	453	36	0
33	BB	1106	0	512	95	0
33	DB	1106	0	512	108	0
34	BC	1791	0	839	262	0
34	DC	1791	0	839	274	0
35	BD	1312	0	651	166	0
35	DD	1312	0	651	155	0
36	BE	1412	0	670	216	0
36	DE	1412	0	670	207	0
37	BF	873	0	400	151	0
37	DF	873	0	400	144	0
38	BG	1061	0	492	138	0
38	DG	1061	0	492	140	0
39	BH	856	0	432	75	0
39	DH	856	0	432	64	0
40	BI	942	0	414	88	0
40	DI	942	0	414	87	0
41	BJ	1027	0	468	98	0
41	DJ	1027	0	468	99	0
42	BK	810	0	360	126	0
42	DK	810	0	360	122	0
43	BN	593	0	299	99	0
43	DN	593	0	299	112	0
44	BO	923	0	423	128	0
44	DO	923	0	423	114	0
45	BP	967	0	468	145	0
45	DP	967	0	468	154	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	BQ	761	0	371	101	0
46	DQ	761	0	371	111	0
47	BR	706	0	340	94	0
47	DR	706	0	340	90	0
48	BS	931	0	460	66	0
48	DS	931	0	460	75	0
49	BT	586	0	269	85	0
49	DT	586	0	269	72	0
50	BU	631	0	306	38	0
50	DU	631	0	306	40	0
51	BV	291	0	131	38	0
51	DV	291	0	131	34	0
52	BW	468	0	213	38	0
52	DW	468	0	213	43	0
53	BX	530	0	240	48	0
53	DX	530	0	240	41	0
54	BY	727	0	346	102	0
54	DY	727	0	346	98	0
55	BZ	481	0	224	32	0
55	DZ	481	0	224	31	0
56	Ba	425	0	191	0	0
56	Da	425	0	191	0	0
57	Bb	618	0	284	0	0
57	Db	618	0	284	0	0
58	Bc	339	0	155	0	0
58	Dc	339	0	155	0	0
59	Bd	352	0	161	0	0
59	Dd	352	0	161	0	0
60	Be	240	0	105	0	0
60	De	240	0	105	0	0
61	Bf	467	0	210	0	0
61	Df	467	0	210	0	0
62	Bg	407	0	203	0	0
62	Dg	407	0	203	0	0
63	Bh	220	0	57	0	0
63	Dh	220	0	53	0	0
64	Bi	60	0	16	0	0
64	Di	60	0	14	0	0
65	Bk	80	0	20	0	0
65	Dk	80	0	21	0	0
66	Bl	95	0	21	0	0
67	Bm	45	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
68	Bn	135	0	34	0	0
69	Bp	40	0	11	0	0
70	Bq	85	0	25	0	0
71	Br	115	0	27	0	0
72	DL	679	0	325	49	0
73	DM	641	0	281	65	0
74	A1	714	0	0	109	0
74	AL	7	0	0	0	0
74	AS	7	0	0	18	0
74	AT	7	0	0	1	0
74	Ac	7	0	0	0	0
74	B1	1547	0	0	220	0
74	B2	70	0	0	12	0
74	B3	84	0	0	14	0
74	BC	7	0	0	1	0
74	BO	7	0	0	0	0
74	BT	7	0	0	2	0
74	Bd	14	0	0	0	0
74	Bg	7	0	0	0	0
74	C1	707	0	0	107	0
74	CI	7	0	0	0	0
74	CS	14	0	0	16	0
74	CT	7	0	0	0	0
74	D1	1575	0	0	223	0
74	D2	63	0	0	18	0
74	D3	84	0	0	28	0
74	DC	7	0	0	0	0
74	DE	7	0	0	0	0
74	DJ	7	0	0	0	0
74	DO	14	0	0	5	0
74	DT	7	0	0	0	0
74	Dd	14	0	0	0	0
74	Dg	7	0	0	0	0
All	All	309610	0	149262	44156	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 99.

All (44156) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:592:A:H2'	29:B1:593:C:C4'	1.31	1.55
29:B1:606:C:H3'	29:B1:607:A:C8	1.39	1.54
29:D1:606:C:H3'	29:D1:607:A:C8	1.43	1.52
1:A1:825:U:C5	1:A1:847:A:N1	1.82	1.45
1:C1:825:U:C5	1:C1:847:A:N1	1.84	1.45
29:B1:592:A:C2'	29:B1:593:C:H4'	1.48	1.43
1:C1:650:U:H3	1:C1:684:A:N6	1.13	1.43
1:A1:650:U:H3	1:A1:684:A:N6	1.16	1.43
1:C1:825:U:H5	1:C1:847:A:N1	0.96	1.43
1:C1:743:U:N3	1:C1:809:A:C2	1.86	1.43
29:D1:516:A:H3'	29:D1:517:G:C8	1.55	1.42
30:B2:12:U:H3'	30:B2:13:A:C2	1.56	1.40
41:BJ:177:ASP:HA	41:BJ:179:PRO:N	1.35	1.39
1:A1:825:U:H5	1:A1:847:A:N1	0.94	1.38
1:C1:66:U:H3	1:C1:71:A:N6	1.19	1.38
29:B1:516:A:H3'	29:B1:517:G:C8	1.57	1.38
41:DJ:177:ASP:HA	41:DJ:179:PRO:N	1.40	1.36
1:C1:173:A:C2	1:C1:174:U:H1'	1.59	1.35
29:D1:562:C:H2'	29:D1:563:U:C6	1.59	1.35
29:D1:511:G:N2	29:D1:580:C:N3	1.75	1.35
1:A1:66:U:H3	1:A1:71:A:N6	1.19	1.35
30:D2:12:U:H3'	30:D2:13:A:C2	1.60	1.35
1:C1:143:G:O6	1:C1:172:C:N4	1.61	1.34
29:B1:562:C:H2'	29:B1:563:U:C6	1.64	1.33
29:B1:592:A:C2'	29:B1:593:C:C4'	2.06	1.31
1:C1:243:G:O6	1:C1:250:C:N4	1.61	1.31
1:A1:992:A:H2	1:A1:1012:U:N3	1.27	1.30
29:D1:2673:A:N6	29:D1:2681:U:O4	1.62	1.30
29:B1:2673:A:N6	29:B1:2681:U:O4	1.61	1.30
29:D1:644:G:H4'	29:D1:1153:A:C2	1.67	1.29
29:B1:513:G:N2	29:B1:577:C:N3	1.79	1.28
1:C1:10:G:OP1	1:C1:1633:A:H5'	1.32	1.28
1:C1:992:A:H2	1:C1:1012:U:N3	1.32	1.28
29:B1:3342:A:N6	29:B1:3363:U:H3	1.28	1.27
29:B1:576:C:H2'	29:B1:577:C:C5'	1.64	1.27
29:D1:531:G:N2	29:D1:561:C:O2	1.67	1.27
29:D1:3342:A:N6	29:D1:3363:U:H3	1.31	1.27
37:DF:41:ILE:N	37:DF:85:ILE:HA	1.50	1.27
29:B1:511:G:N2	29:B1:580:C:N3	1.82	1.26
45:BP:124:LEU:HA	45:BP:126:VAL:N	1.48	1.26
29:B1:515:C:H2'	29:B1:516:A:O4'	1.33	1.26
29:B1:592:A:C3'	29:B1:593:C:H4'	1.63	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:422:A:H1'	29:D1:423:A:C5'	1.65	1.26
29:D1:513:G:N2	29:D1:577:C:N3	1.83	1.25
29:D1:515:C:H2'	29:D1:516:A:O4'	1.31	1.25
1:C1:62:A:OP2	1:C1:62:A:H3'	1.37	1.25
29:D1:284:A:C2	29:D1:306:A:H1'	1.71	1.25
29:D1:378:A:H3'	29:D1:378:A:N3	1.51	1.25
30:B2:11:A:C2	36:BE:16:PHE:HA	1.71	1.25
29:B1:592:A:N3	29:B1:593:C:H1'	1.49	1.24
29:B1:574:U:C2'	29:B1:575:G:H5''	1.67	1.24
29:B1:715:A:C2	29:B1:784:A:H4'	1.73	1.24
29:D1:3317:U:H3'	29:D1:3317:U:OP1	1.34	1.24
29:D1:2667:A:H3'	29:D1:2667:A:N3	1.53	1.23
1:A1:448:C:H2'	1:A1:449:C:C6	1.74	1.23
1:C1:250:C:O2'	1:C1:251:A:H5'	1.34	1.23
45:DP:124:LEU:HA	45:DP:126:VAL:N	1.54	1.23
29:D1:2611:U:H2'	29:D1:2612:U:C6	1.72	1.23
29:B1:378:A:H3'	29:B1:378:A:N3	1.52	1.22
29:B1:1441:G:C2'	29:B1:1442:U:H5''	1.68	1.22
29:D1:118:U:O4	29:D1:150:A:N6	1.72	1.22
29:D1:576:C:H2'	29:D1:577:C:C5'	1.67	1.22
1:A1:243:G:C2	1:A1:251:A:N1	2.07	1.22
31:D3:113:U:H1'	31:D3:114:G:OP2	1.36	1.22
1:C1:1524:A:H2'	1:C1:1525:A:C8	1.74	1.22
1:C1:173:A:C6	1:C1:174:U:C6	2.28	1.21
29:D1:574:U:C2'	29:D1:575:G:H5''	1.68	1.21
37:DF:41:ILE:H	37:DF:85:ILE:CA	1.53	1.20
29:D1:1479:U:H3'	29:D1:1480:G:C5'	1.70	1.20
29:D1:574:U:H2'	29:D1:575:G:C5'	1.71	1.20
29:B1:286:U:H2'	29:B1:287:G:C8	1.74	1.20
29:B1:644:G:H4'	29:B1:1153:A:C2	1.75	1.20
1:A1:160:C:H2'	1:A1:161:U:O4'	1.40	1.20
1:C1:243:G:N1	1:C1:251:A:C6	2.08	1.20
31:B3:113:U:H1'	31:B3:114:G:OP2	1.33	1.20
29:B1:606:C:H2'	29:B1:607:A:C1'	1.72	1.20
1:C1:1201:G:H3'	1:C1:1201:G:N3	1.57	1.20
29:B1:562:C:H2'	29:B1:563:U:C5	1.77	1.19
29:B1:531:G:N2	29:B1:561:C:O2	1.73	1.19
29:B1:750:G:N2	29:B1:784:A:H1'	1.54	1.19
29:B1:829:U:H3	29:B1:895:A:N6	1.38	1.19
29:B1:3047:U:O2'	29:B1:3048:A:H5''	1.41	1.19
29:B1:406:G:H1'	31:B3:16:G:N2	1.58	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:448:C:H2'	1:C1:449:C:C6	1.75	1.19
29:B1:1479:U:H3'	29:B1:1480:G:C5'	1.70	1.19
29:B1:574:U:H2'	29:B1:575:G:C5'	1.73	1.19
30:D2:12:U:H5'	30:D2:68:C:C1'	1.72	1.19
1:A1:1201:G:N3	1:A1:1201:G:H3'	1.55	1.19
29:D1:286:U:H2'	29:D1:287:G:C8	1.78	1.19
29:B1:618:C:H2'	29:B1:619:A:C8	1.78	1.19
29:D1:3210:A:H3'	29:D1:3211:C:C6	1.77	1.18
29:B1:606:C:C3'	29:B1:607:A:C8	2.25	1.18
1:C1:186:C:N4	1:C1:199:G:H1	1.41	1.18
1:A1:84:A:H2'	1:A1:85:A:H5'	1.23	1.18
1:A1:686:C:H2'	1:A1:687:G:C8	1.79	1.18
29:B1:284:A:C2	29:B1:306:A:H1'	1.79	1.18
29:B1:3317:U:OP1	29:B1:3317:U:H3'	1.41	1.18
1:C1:1348:A:H5''	15:CN:12:GLN:N	1.58	1.18
29:D1:1323:G:H3'	29:D1:1324:U:H5''	1.19	1.18
29:B1:1196:C:C5	29:B1:1197:A:N7	2.11	1.18
6:CE:80:LEU:HA	6:CE:81:VAL:CB	1.71	1.18
29:D1:606:C:C3'	29:D1:607:A:C8	2.27	1.18
1:A1:66:U:N3	1:A1:71:A:N6	1.92	1.18
1:C1:243:G:C2	1:C1:251:A:C2	2.32	1.18
46:BQ:10:ASN:H	46:BQ:11:PRO:CA	1.57	1.18
29:B1:2667:A:N3	29:B1:2667:A:H3'	1.55	1.17
46:BQ:10:ASN:N	46:BQ:11:PRO:HA	1.51	1.17
29:B1:2684:C:C6	29:B1:2684:C:H5'	1.77	1.17
29:B1:3219:G:C8	29:B1:3257:C:H5''	1.79	1.17
31:B3:40:A:H2'	31:B3:41:A:H8	1.02	1.17
29:B1:1192:C:OP1	29:B1:1192:C:H3'	1.45	1.17
29:B1:2754:G:H3'	29:B1:2755:C:H5'	1.19	1.17
29:B1:717:C:H41	29:B1:721:G:H5'	1.03	1.17
29:D1:1441:G:C2'	29:D1:1442:U:H5''	1.75	1.17
29:D1:2987:A:H2'	29:D1:2988:C:C6	1.79	1.17
1:C1:686:C:H2'	1:C1:687:G:C8	1.77	1.17
29:B1:3300:U:OP2	29:B1:3300:U:H6	1.28	1.16
29:B1:3390:G:H2'	29:B1:3391:A:O4'	1.44	1.16
29:D1:750:G:N2	29:D1:784:A:H1'	1.58	1.16
1:A1:1201:G:H2'	1:A1:1202:A:H4'	1.19	1.16
29:B1:3210:A:H3'	29:B1:3211:C:C6	1.78	1.16
29:D1:618:C:H2'	29:D1:619:A:C8	1.79	1.16
1:A1:992:A:C2	1:A1:1012:U:N3	2.14	1.16
29:D1:715:A:C2	29:D1:784:A:H4'	1.79	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:827:C:N3	1:C1:846:G:O6	1.79	1.16
6:AE:80:LEU:HA	6:AE:81:VAL:CB	1.73	1.16
29:B1:750:G:C2	29:B1:784:A:H1'	1.80	1.16
29:D1:3149:G:C2	29:D1:3150:A:H1'	1.79	1.16
1:C1:66:U:N3	1:C1:71:A:N6	1.93	1.16
29:D1:3390:G:H2'	29:D1:3391:A:O4'	1.44	1.16
1:A1:1204:A:H3'	1:A1:1205:C:H5''	1.20	1.16
29:D1:2684:C:H6	29:D1:2684:C:H5'	1.08	1.16
29:D1:1186:G:H2'	29:D1:1187:C:H5'	1.18	1.16
37:BF:41:ILE:N	37:BF:85:ILE:HA	1.61	1.16
1:C1:160:C:H2'	1:C1:161:U:O4'	1.43	1.16
29:B1:575:G:H8	29:B1:575:G:H5'	1.03	1.16
29:B1:1212:A:H2'	29:B1:1213:G:H5''	1.17	1.16
1:C1:142:G:N7	1:C1:266:A:C6	2.14	1.16
1:C1:335:U:H3'	1:C1:336:G:C8	1.79	1.16
1:A1:1458:G:H5'	1:A1:1459:C:C5	1.81	1.16
21:CT:289:ALA:HA	21:CT:305:TYR:HA	1.22	1.16
30:B2:12:U:H5'	30:B2:68:C:C1'	1.77	1.15
1:C1:1240:U:H2'	1:C1:1241:G:H5'	1.22	1.15
29:B1:3201:C:O2'	29:B1:3202:G:H5'	1.44	1.15
1:C1:1631:A:H2'	1:C1:1632:C:O4'	1.46	1.15
29:D1:563:U:H3'	29:D1:564:G:C5'	1.74	1.15
29:D1:3320:A:H2'	29:D1:3321:C:C6	1.79	1.15
29:D1:592:A:C4	29:D1:593:C:H1'	1.80	1.15
1:A1:1458:G:C5'	1:A1:1459:C:H5	1.59	1.15
29:B1:1839:A:H5''	29:B1:1840:U:OP1	1.45	1.15
29:B1:3391:A:H2'	29:B1:3392:U:H5''	1.18	1.15
29:B1:2611:U:H2'	29:B1:2612:U:C6	1.81	1.15
29:D1:1192:C:H3'	29:D1:1192:C:OP1	1.44	1.15
1:A1:1273:G:C4'	1:A1:1274:C:H5'	1.77	1.15
29:D1:3201:C:O2'	29:D1:3202:G:H5'	1.45	1.15
29:B1:3320:A:H2'	29:B1:3321:C:C6	1.82	1.15
29:B1:515:C:H3'	29:B1:516:A:H5''	1.18	1.15
29:B1:951:A:H2'	29:B1:952:A:H5''	1.16	1.15
1:C1:142:G:C5	1:C1:266:A:N6	2.14	1.15
29:D1:1212:A:H2'	29:D1:1213:G:H5''	1.20	1.15
46:DQ:10:ASN:N	46:DQ:11:PRO:HA	1.47	1.15
29:B1:363:G:H2'	29:B1:364:G:H5''	1.29	1.14
29:B1:1415:U:H2'	29:B1:1416:C:C6	1.80	1.14
29:D1:2690:G:H2'	29:D1:2690:G:N3	1.56	1.14
29:D1:2277:C:H5''	29:D1:2317:A:H4'	1.28	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3210:A:H3'	29:B1:3211:C:H6	1.04	1.14
29:B1:591:G:C2'	29:B1:592:A:H5'	1.77	1.14
29:D1:1779:C:H4'	29:D1:1780:G:H5''	1.25	1.14
29:D1:282:G:H21	29:D1:286:U:H4'	1.09	1.14
1:C1:243:G:C6	1:C1:251:A:N6	2.14	1.14
29:B1:2684:C:H6	29:B1:2684:C:C5'	1.58	1.14
29:D1:562:C:H2'	29:D1:563:U:C5	1.82	1.14
29:D1:606:C:H2'	29:D1:607:A:C1'	1.77	1.14
1:A1:650:U:H2'	1:A1:651:G:H5''	1.30	1.14
1:A1:329:G:H2'	1:A1:330:G:H8	0.99	1.14
21:AT:289:ALA:HA	21:AT:305:TYR:HA	1.20	1.14
29:B1:118:U:O4	29:B1:150:A:N6	1.78	1.14
29:D1:3027:A:H2'	29:D1:3028:G:C8	1.83	1.14
29:B1:422:A:H1'	29:B1:423:A:C5'	1.79	1.13
29:B1:576:C:H2'	29:B1:577:C:H5''	1.29	1.13
29:B1:750:G:H2'	29:B1:751:A:H8	1.10	1.13
1:C1:1201:G:H2'	1:C1:1202:A:H4'	1.16	1.13
29:B1:2687:G:N3	29:B1:2687:G:H3'	1.62	1.13
29:B1:1482:A:H4'	29:B1:1483:G:OP2	1.45	1.13
29:B1:2779:A:H8	29:B1:2779:A:H5'	1.07	1.13
29:B1:3012:A:H2'	29:B1:3013:U:H5''	1.22	1.13
29:B1:563:U:H3'	29:B1:564:G:C5'	1.79	1.13
1:C1:540:G:H1'	1:C1:541:A:OP1	1.48	1.13
1:C1:173:A:C5	1:C1:174:U:H6	1.66	1.13
1:A1:364:G:N2	1:A1:381:C:C2	2.17	1.13
29:B1:3149:G:C2	29:B1:3150:A:H1'	1.83	1.13
29:D1:829:U:H3	29:D1:895:A:N6	1.45	1.13
29:D1:717:C:H41	29:D1:721:G:H5'	1.11	1.13
1:A1:186:C:N4	1:A1:199:G:H1	1.45	1.13
29:B1:2684:C:H6	29:B1:2684:C:H5'	1.04	1.13
30:D2:25:G:C2	30:D2:26:C:C4	2.36	1.13
30:D2:68:C:O2	30:D2:69:C:H1'	1.49	1.13
46:DQ:10:ASN:H	46:DQ:11:PRO:CA	1.58	1.12
6:CE:122:VAL:O	6:CE:125:ALA:HB3	1.49	1.12
1:A1:509:G:H2'	1:A1:510:G:H8	1.12	1.12
29:B1:1154:A:H4'	29:B1:1155:C:OP2	1.49	1.12
1:C1:84:A:H2'	1:C1:85:A:H5'	1.25	1.12
1:C1:992:A:H2'	1:C1:993:A:H5'	1.27	1.12
29:D1:3149:G:N2	29:D1:3150:A:H1'	1.64	1.12
29:D1:3391:A:H2'	29:D1:3392:U:H5''	1.21	1.12
30:D2:63:A:H3'	30:D2:64:A:C5'	1.77	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:406:G:H1'	31:D3:16:G:N2	1.64	1.12
15:AN:54:GLY:HA3	15:AN:92:ASP:H	1.11	1.12
29:D1:2636:A:H5''	29:D1:2637:A:H5'	1.32	1.12
29:D1:593:C:H2'	29:D1:594:U:H4'	1.17	1.12
29:B1:383:G:H2'	29:B1:385:A:O5'	1.49	1.12
37:DF:21:THR:N	37:DF:112:THR:HA	1.64	1.12
29:B1:3251:U:H2'	29:B1:3252:G:C8	1.85	1.12
1:A1:402:C:H2'	1:A1:403:G:H5'	1.27	1.12
29:B1:394:G:N2	29:B1:396:A:H2'	1.63	1.12
29:B1:42:C:H2'	29:B1:43:A:C5'	1.80	1.12
29:D1:2779:A:H5'	29:D1:2779:A:H8	1.07	1.12
1:C1:1348:A:C5'	15:CN:12:GLN:H	1.63	1.12
1:A1:1524:A:H2'	1:A1:1525:A:C8	1.84	1.12
29:B1:3233:C:H2'	29:B1:3234:A:H8	1.07	1.12
1:A1:1780:G:H1'	29:B1:2262:A:O2'	1.48	1.12
29:B1:1558:A:OP1	29:B1:1559:A:H1'	1.49	1.12
1:C1:978:A:N6	1:C1:1024:U:H3	1.47	1.12
1:C1:1141:G:H3'	1:C1:1142:A:H5''	1.32	1.12
29:B1:2643:A:H5'	29:B1:2644:C:OP2	1.48	1.12
30:B2:35:C:H42	30:B2:47:C:H1'	0.97	1.12
1:A1:540:G:H1'	1:A1:541:A:OP1	1.49	1.11
29:D1:2107:A:H2'	29:D1:2108:C:H6	1.15	1.11
29:D1:2362:C:N4	29:D1:2376:G:O6	1.82	1.11
29:D1:325:A:H3'	29:D1:327:A:P	1.90	1.11
29:D1:515:C:H3'	29:D1:516:A:H5''	1.16	1.11
30:B2:12:U:H5'	30:B2:68:C:H1'	1.14	1.11
29:B1:2523:A:H1'	29:B1:2524:A:C5'	1.79	1.11
29:B1:10:C:N4	31:B3:148:G:H1	1.47	1.11
29:D1:993:G:H21	29:D1:2637:A:H3'	1.11	1.11
29:D1:334:A:H2'	29:D1:335:G:H8	1.15	1.11
29:B1:3117:C:H2'	29:B1:3118:C:H5'	1.29	1.11
29:B1:952:A:H2'	29:B1:953:G:H5''	1.22	1.11
29:B1:606:C:H2'	29:B1:607:A:H1'	1.26	1.11
29:B1:611:A:H3'	29:B1:612:U:H5''	1.24	1.11
31:D3:40:A:H2'	31:D3:41:A:H8	1.02	1.11
1:A1:61:A:H4'	1:A1:62:A:O5'	1.44	1.11
1:A1:329:G:H2'	1:A1:330:G:C8	1.84	1.11
29:B1:3190:C:N3	29:B1:3202:G:N2	1.98	1.11
29:D1:3251:U:H2'	29:D1:3252:G:C8	1.83	1.11
29:B1:1323:G:H3'	29:B1:1324:U:H5''	1.27	1.11
37:BF:21:THR:HA	37:BF:111:LEU:C	1.68	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1196:C:C5	29:D1:1197:A:N7	2.17	1.11
29:D1:591:G:C2'	29:D1:592:A:H5'	1.80	1.11
29:D1:2684:C:H5'	29:D1:2684:C:C6	1.85	1.11
15:AN:68:ARG:HA	15:AN:79:TRP:HA	1.13	1.11
29:B1:3027:A:H2'	29:B1:3028:G:C8	1.83	1.11
29:D1:1415:U:H2'	29:D1:1416:C:H6	1.03	1.11
29:B1:2271:A:H2'	29:B1:2272:G:H5''	1.30	1.11
29:B1:1901:A:O3'	29:B1:2918:G:H5'	1.49	1.11
29:D1:3150:A:H3'	29:D1:3151:U:H5'	1.32	1.11
29:D1:951:A:C2'	29:D1:952:A:H5''	1.80	1.11
1:A1:173:A:C5	1:A1:174:U:C6	2.37	1.11
29:B1:1232:C:H2'	29:B1:1233:G:H4'	1.26	1.11
1:A1:992:A:H2'	1:A1:993:A:H5'	1.32	1.10
1:A1:1631:A:C4	1:A1:1638:G:N2	2.19	1.10
29:D1:593:C:H2'	29:D1:594:U:C4'	1.79	1.10
29:D1:3219:G:C8	29:D1:3257:C:H5''	1.84	1.10
29:B1:591:G:N2	29:B1:592:A:H1'	1.64	1.10
29:B1:591:G:H2'	29:B1:592:A:H5'	1.26	1.10
29:B1:282:G:N2	29:B1:286:U:H4'	1.67	1.10
29:B1:563:U:H3'	29:B1:564:G:H5''	1.29	1.10
1:C1:992:A:C2	1:C1:1012:U:N3	2.19	1.10
29:D1:2271:A:C2'	29:D1:2272:G:H5''	1.81	1.10
1:C1:650:U:H2'	1:C1:651:G:H5''	1.33	1.10
30:B2:63:A:H3'	30:B2:64:A:C5'	1.81	1.10
15:CN:68:ARG:HA	15:CN:79:TRP:HA	1.13	1.10
29:D1:3382:U:H3'	29:D1:3383:G:H4'	1.15	1.10
30:B2:25:G:C2	30:B2:26:C:C4	2.39	1.10
6:AE:122:VAL:O	6:AE:125:ALA:HB3	1.50	1.10
2:AA:186:GLY:HA2	2:AA:187:ALA:HB2	1.31	1.10
1:A1:1141:G:H3'	1:A1:1142:A:H5''	1.34	1.10
29:B1:1779:C:H4'	29:B1:1780:G:H5''	1.28	1.10
29:D1:3117:C:H2'	29:D1:3118:C:H5'	1.28	1.10
29:D1:421:G:C8	29:D1:421:G:H3'	1.87	1.10
29:B1:2684:C:H2'	29:B1:2685:C:H6	1.08	1.10
1:C1:1573:A:H4'	1:C1:1574:G:H5'	1.18	1.10
1:A1:1573:A:H4'	1:A1:1574:G:H5'	1.18	1.10
37:BF:41:ILE:H	37:BF:85:ILE:CA	1.62	1.10
29:D1:3233:C:H2'	29:D1:3234:A:H8	1.13	1.10
29:B1:1697:A:H2'	29:B1:1698:C:H5'	1.32	1.10
29:B1:2262:A:H3'	29:B1:2263:C:H5''	1.31	1.10
29:B1:2328:U:H2'	29:B1:2329:C:H5''	1.29	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:322:G:H4'	1:A1:323:A:OP1	1.47	1.10
1:A1:1240:U:H2'	1:A1:1241:G:H5'	1.23	1.10
1:C1:887:A:H1'	9:CH:122:PRO:CB	1.82	1.10
29:B1:2771:U:H3'	29:B1:2772:C:H5''	1.31	1.10
29:B1:2987:A:H2'	29:B1:2988:C:H6	1.14	1.10
29:B1:431:U:H2'	29:B1:432:G:H8	1.05	1.10
1:C1:364:G:N2	1:C1:381:C:C2	2.18	1.10
1:C1:1045:C:H2'	1:C1:1045:C:O2	1.49	1.10
1:C1:129:U:C5	1:C1:264:G:C6	2.40	1.10
1:C1:142:G:C5	1:C1:266:A:C6	2.40	1.10
1:C1:824:G:H4'	1:C1:825:U:H5'	1.26	1.10
29:B1:2667:A:N6	29:B1:2690:G:N1	1.98	1.10
1:A1:243:G:C2	1:A1:251:A:C2	2.38	1.10
29:D1:3202:G:OP2	29:D1:3202:G:H3'	1.50	1.10
29:B1:592:A:N3	29:B1:593:C:C1'	2.15	1.09
1:C1:65:A:H4'	1:C1:66:U:OP1	1.51	1.09
29:D1:576:C:H2'	29:D1:577:C:H5''	1.23	1.09
29:D1:383:G:H2'	29:D1:385:A:O5'	1.47	1.09
1:C1:243:G:C2	1:C1:251:A:N1	2.20	1.09
1:A1:243:G:C6	1:A1:251:A:N6	2.20	1.09
29:D1:3190:C:N3	29:D1:3202:G:N2	2.00	1.09
29:B1:3242:G:H1	29:B1:3244:A:H2'	1.07	1.09
30:D2:35:C:H42	30:D2:47:C:H1'	1.02	1.09
1:A1:416:A:H4'	1:A1:417:A:OP2	1.50	1.09
29:B1:2250:G:N2	29:B1:2267:C:O2	1.82	1.09
37:BF:21:THR:N	37:BF:112:THR:HA	1.67	1.09
1:A1:629:U:H2'	1:A1:630:A:H8	1.06	1.09
29:B1:2277:C:H5''	29:B1:2317:A:H4'	1.33	1.09
1:C1:629:U:H2'	1:C1:630:A:H8	1.12	1.09
29:D1:2146:C:H2'	29:D1:2147:A:H5'	1.21	1.09
29:D1:575:G:H5'	29:D1:575:G:H8	1.14	1.09
29:B1:1303:A:H8	29:B1:1304:A:C5	1.70	1.09
29:D1:3300:U:OP2	29:D1:3300:U:H6	1.33	1.09
29:D1:537:A:N6	29:D1:556:U:N3	1.99	1.09
29:D1:563:U:H3'	29:D1:564:G:H5''	1.20	1.09
29:B1:966:U:H2'	29:B1:967:A:C8	1.87	1.09
30:B2:68:C:O2	30:B2:69:C:H1'	1.52	1.09
30:D2:10:C:O3'	30:D2:13:A:N7	1.84	1.09
1:C1:329:G:H2'	1:C1:330:G:H8	1.04	1.09
29:D1:618:C:H2'	29:D1:619:A:H8	0.93	1.09
29:D1:2523:A:H1'	29:D1:2524:A:C5'	1.82	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CN:54:GLY:HA3	15:CN:92:ASP:H	1.14	1.09
29:B1:1441:G:H2'	29:B1:1442:U:H5''	1.31	1.09
1:A1:1231:U:H1'	1:A1:1258:U:H4'	1.30	1.09
1:C1:416:A:H4'	1:C1:417:A:OP2	1.42	1.09
1:A1:694:U:H5''	1:A1:695:U:C5	1.88	1.09
29:B1:2992:U:H2'	29:B1:2993:G:H5'	1.19	1.09
29:B1:716:A:H2'	29:B1:717:C:C4'	1.83	1.09
29:D1:2250:G:N2	29:D1:2267:C:O2	1.86	1.09
29:D1:431:U:H2'	29:D1:432:G:H8	1.15	1.09
1:A1:243:G:N2	1:A1:251:A:C2	2.19	1.09
29:D1:72:C:H2'	29:D1:73:C:H5'	1.34	1.09
29:B1:2270:A:H5''	29:B1:2270:A:C8	1.87	1.08
29:B1:716:A:C2'	29:B1:717:C:H4'	1.83	1.08
29:D1:951:A:H2'	29:D1:952:A:C5'	1.81	1.08
29:D1:2385:G:H4'	29:D1:2386:A:OP1	1.48	1.08
29:D1:2808:A:H4'	29:D1:2809:C:O5'	1.52	1.08
1:A1:1219:A:H5'	1:A1:1220:C:H5	1.17	1.08
29:D1:2687:G:H3'	29:D1:2687:G:N3	1.67	1.08
29:B1:2271:A:C2'	29:B1:2272:G:H5''	1.84	1.08
29:D1:1558:A:OP1	29:D1:1559:A:H1'	1.54	1.08
29:D1:42:C:H2'	29:D1:43:A:C5'	1.83	1.08
29:D1:606:C:H2'	29:D1:607:A:H1'	1.32	1.08
1:A1:824:G:H4'	1:A1:825:U:H5'	1.26	1.08
1:C1:219:A:N6	1:C1:843:U:H1'	1.68	1.08
29:B1:2690:G:H2'	29:B1:2690:G:N3	1.62	1.08
1:A1:243:G:N1	1:A1:251:A:C6	2.22	1.08
1:C1:1499:G:O6	1:C1:1508:U:O2	1.69	1.08
29:D1:2684:C:C5'	29:D1:2684:C:H6	1.67	1.08
29:B1:3150:A:H3'	29:B1:3151:U:H5'	1.31	1.08
29:B1:591:G:N2	29:B1:592:A:C1'	2.17	1.08
29:B1:592:A:C4	29:B1:593:C:C1'	2.37	1.08
29:D1:2151:C:H6	29:D1:2151:C:H5'	1.10	1.08
29:D1:2271:A:H2'	29:D1:2272:G:H5''	1.26	1.08
30:B2:35:C:H42	30:B2:47:C:C1'	1.66	1.08
36:BE:97:ALA:HA	36:BE:100:ALA:HB3	1.31	1.08
29:D1:2771:U:H3'	29:D1:2772:C:H5''	1.31	1.08
29:B1:1479:U:C3'	29:B1:1480:G:H5''	1.81	1.08
31:B3:40:A:H2'	31:B3:41:A:C8	1.88	1.08
29:D1:1303:A:H2	29:D1:2887:A:N1	1.49	1.08
29:D1:611:A:H3'	29:D1:612:U:H5''	1.27	1.08
29:D1:1503:A:H3'	29:D1:1504:A:H5''	1.12	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1458:G:H5'	1:A1:1459:C:H5	1.00	1.08
1:C1:1097:U:O2'	1:C1:1098:U:H5'	1.54	1.08
29:D1:750:G:C2	29:D1:784:A:H1'	1.87	1.08
1:C1:257:A:H2'	1:C1:258:C:H5'	1.36	1.08
29:D1:1191:U:H2'	29:D1:1191:U:O2	1.51	1.08
29:D1:3321:C:O2'	29:D1:3322:A:H3'	1.54	1.08
1:A1:65:A:H4'	1:A1:66:U:OP1	1.51	1.08
1:A1:1348:A:H5''	15:AN:12:GLN:H	1.11	1.08
29:B1:383:G:H3'	29:B1:384:A:H5''	1.34	1.08
29:B1:3382:U:H3'	29:B1:3383:G:H4'	1.17	1.08
29:B1:2328:U:C2'	29:B1:2329:C:H5''	1.84	1.07
1:C1:1100:G:H4'	1:C1:1101:G:OP1	1.34	1.07
29:D1:592:A:C2'	29:D1:593:C:H4'	1.84	1.07
29:D1:3210:A:H3'	29:D1:3211:C:H6	1.04	1.07
29:D1:2523:A:H1'	29:D1:2524:A:H5'	1.15	1.07
8:CG:51:GLY:HA2	8:CG:53:LEU:N	1.67	1.07
29:D1:1232:C:H4'	73:DM:35:SER:HA	1.34	1.07
29:B1:2213:A:H2'	29:B1:2214:A:C8	1.89	1.07
21:AT:9:LEU:HA	21:AT:313:TRP:HA	1.33	1.07
29:B1:3392:U:N3	29:B1:3393:U:C4	2.22	1.07
29:D1:1441:G:H2'	29:D1:1442:U:H5''	1.33	1.07
29:D1:3099:C:O2'	29:D1:3100:U:O5'	1.72	1.07
29:D1:3101:G:C2'	29:D1:3102:G:H5''	1.84	1.07
29:D1:432:G:H2'	29:D1:433:A:H8	1.11	1.07
1:A1:173:A:C2	1:A1:174:U:H1'	1.89	1.07
30:D2:12:U:H5'	30:D2:68:C:H1'	1.09	1.07
1:A1:257:A:H2'	1:A1:258:C:H5'	1.32	1.07
30:D2:11:A:C2	36:DE:16:PHE:HA	1.89	1.07
1:C1:1231:U:H1'	1:C1:1258:U:H4'	1.32	1.07
29:D1:3232:G:N2	29:D1:3255:U:O2	1.85	1.07
20:CS:49:ASP:H	20:CS:50:ILE:HA	1.06	1.07
29:B1:524:U:H2'	29:B1:525:C:H6	1.19	1.07
29:B1:1875:G:H2'	29:B1:1876:U:H5''	1.34	1.07
29:B1:517:G:OP2	29:B1:517:G:H3'	1.53	1.07
29:B1:612:U:H1'	29:B1:613:G:C8	1.90	1.07
29:D1:1196:C:H5	29:D1:1197:A:N6	1.50	1.07
29:D1:1479:U:C3'	29:D1:1480:G:H5''	1.82	1.07
29:D1:1226:G:H2'	29:D1:1227:C:H6	1.20	1.07
1:C1:1204:A:H3'	1:C1:1205:C:H5''	1.13	1.07
29:D1:1062:A:H3'	29:D1:1063:G:N7	1.69	1.07
29:B1:72:C:C2'	29:B1:73:C:H5'	1.84	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2754:G:H3'	29:D1:2755:C:H5'	1.35	1.07
29:B1:644:G:H4'	29:B1:1153:A:H2	0.93	1.07
29:B1:2146:C:H2'	29:B1:2147:A:H5'	1.35	1.07
1:A1:1100:G:H4'	1:A1:1101:G:OP1	1.34	1.07
1:A1:1631:A:H2'	1:A1:1632:C:O4'	1.52	1.07
29:B1:284:A:H2	29:B1:306:A:H1'	1.04	1.07
31:B3:19:C:H2'	31:B3:20:U:H6	1.19	1.07
1:C1:142:G:O6	1:C1:266:A:N7	1.88	1.07
1:C1:509:G:H2'	1:C1:510:G:H8	1.19	1.07
29:D1:10:C:N4	31:D3:148:G:H1	1.53	1.07
29:D1:511:G:N2	29:D1:579:G:C2	2.23	1.07
29:B1:618:C:H2'	29:B1:619:A:H8	0.92	1.07
37:DF:21:THR:HA	37:DF:111:LEU:C	1.74	1.07
21:CT:9:LEU:HA	21:CT:313:TRP:HA	1.36	1.07
29:B1:3149:G:N2	29:B1:3150:A:H1'	1.68	1.07
29:D1:2987:A:H2'	29:D1:2988:C:H6	1.00	1.07
29:D1:1192:C:H3'	29:D1:1192:C:P	1.95	1.07
29:D1:3151:U:P	29:D1:3152:U:OP1	2.13	1.07
1:C1:1724:U:H2'	1:C1:1725:U:H5	1.18	1.07
1:C1:329:G:H2'	1:C1:330:G:C8	1.88	1.07
29:D1:3195:U:H2'	29:D1:3196:U:O2	1.53	1.07
1:A1:1045:C:O2	1:A1:1045:C:H2'	1.55	1.06
29:B1:1879:A:O2'	29:B1:1880:U:H4'	1.55	1.06
29:B1:1435:A:H5'	29:B1:1436:U:H5''	1.35	1.06
29:B1:282:G:H21	29:B1:286:U:H4'	0.91	1.06
29:B1:3090:U:C6	29:B1:3090:U:H5''	1.89	1.06
29:D1:531:G:H2'	29:D1:532:A:C8	1.89	1.06
29:D1:952:A:H2'	29:D1:953:G:H5''	1.33	1.06
1:A1:827:C:N3	1:A1:846:G:O6	1.88	1.06
1:A1:1273:G:H4'	1:A1:1274:C:C5'	1.83	1.06
29:D1:3261:C:H2'	29:D1:3261:C:O2	1.46	1.06
20:AS:49:ASP:H	20:AS:50:ILE:CA	1.67	1.06
29:B1:2808:A:H4'	29:B1:2809:C:O5'	1.55	1.06
29:D1:3012:A:H2'	29:D1:3013:U:H5''	1.30	1.06
1:C1:743:U:C4	1:C1:809:A:C2	2.43	1.06
1:C1:1204:A:H3'	1:C1:1205:C:C5'	1.84	1.06
44:BO:185:ALA:C	44:BO:187:ARG:HA	1.73	1.06
29:D1:3242:G:H1	29:D1:3244:A:H2'	1.06	1.06
1:C1:44:U:H5'	1:C1:45:U:C5	1.91	1.06
29:D1:2667:A:N6	29:D1:2690:G:N1	2.03	1.06
29:D1:591:G:H2'	29:D1:592:A:H5'	1.36	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:409:A:H61	31:D3:15:G:H1'	1.20	1.06
1:C1:1273:G:H4'	1:C1:1274:C:H5'	1.09	1.06
1:C1:1273:G:C4'	1:C1:1274:C:H5'	1.84	1.06
29:B1:334:A:H2'	29:B1:335:G:H8	1.16	1.06
29:D1:3314:A:H2'	34:DC:119:TYR:N	1.71	1.06
29:B1:847:A:H2'	29:B1:848:A:C8	1.91	1.06
17:AP:109:ARG:N	17:AP:110:LYS:HA	1.70	1.06
29:B1:3321:C:O2'	29:B1:3322:A:H3'	1.55	1.06
29:D1:3055:U:H2'	29:D1:3085:G:H1	1.19	1.06
29:D1:65:A:H4'	29:D1:66:A:O5'	1.53	1.06
1:A1:827:C:H2'	1:A1:828:U:C2	1.90	1.06
30:B2:10:C:O3'	30:B2:13:A:N7	1.89	1.06
1:A1:1525:A:H2'	1:A1:1526:A:C8	1.89	1.06
29:D1:1062:A:H3'	29:D1:1063:G:C5	1.91	1.06
29:B1:1415:U:H2'	29:B1:1416:C:H6	0.90	1.06
29:B1:2107:A:H2'	29:B1:2108:C:H6	1.14	1.06
1:C1:402:C:H2'	1:C1:403:G:H5'	1.06	1.06
29:D1:3122:A:H2'	29:D1:3123:A:H5''	1.06	1.06
29:B1:72:C:H2'	29:B1:73:C:H5'	1.31	1.06
20:AS:49:ASP:H	20:AS:50:ILE:HA	1.07	1.06
29:B1:14:U:H4'	29:B1:15:C:OP2	1.55	1.05
29:B1:2390:A:H4'	29:B1:3307:A:C2	1.90	1.05
1:A1:686:C:H2'	1:A1:687:G:H8	1.12	1.05
29:D1:394:G:N2	29:D1:396:A:H2'	1.68	1.05
29:B1:811:U:H2'	29:B1:812:G:H8	1.22	1.05
29:B1:2111:G:N2	51:BV:49:ILE:HA	1.71	1.05
29:B1:743:C:H2'	29:B1:744:A:H5'	1.05	1.05
29:D1:2353:G:C6	29:D1:2354:C:H5	1.73	1.05
29:D1:560:G:O2'	29:D1:561:C:H5'	1.54	1.05
29:D1:363:G:H2'	29:D1:364:G:H5''	1.38	1.05
31:D3:19:C:H2'	31:D3:20:U:H6	1.18	1.05
1:C1:827:C:C2	1:C1:846:G:O6	2.08	1.05
29:B1:1056:U:H2'	29:B1:1057:A:O4'	1.56	1.05
29:B1:1196:C:H5	29:B1:1197:A:N6	1.54	1.05
29:D1:72:C:C2'	29:D1:73:C:H5'	1.86	1.05
29:D1:1626:U:OP1	29:D1:1626:U:H4'	1.56	1.05
29:B1:1495:U:H5''	29:B1:1496:C:H5	1.20	1.05
29:B1:610:G:N3	29:B1:610:G:H3'	1.70	1.05
31:D3:40:A:H2'	31:D3:41:A:C8	1.90	1.05
29:D1:743:C:H2'	29:D1:744:A:H5'	1.05	1.05
1:A1:173:A:C6	1:A1:174:U:C6	2.44	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:250:C:OP2	1:A1:250:C:H3'	1.56	1.05
1:A1:1281:G:H2'	1:A1:1282:U:C6	1.92	1.05
1:A1:1141:G:C3'	1:A1:1142:A:H5''	1.85	1.05
29:B1:3144:G:H4'	29:B1:3145:C:OP2	1.27	1.05
29:B1:3327:G:C4	29:B1:3328:G:N7	2.23	1.05
29:B1:3342:A:N6	29:B1:3363:U:C4	2.25	1.05
29:B1:776:U:H5'	29:B1:777:U:H5''	1.34	1.05
29:D1:725:G:H2'	29:D1:726:G:H5''	1.37	1.05
1:C1:173:A:C5	1:C1:174:U:C6	2.40	1.05
29:D1:340:C:H2'	29:D1:341:G:C8	1.92	1.05
29:D1:383:G:H3'	29:D1:384:A:H5''	1.34	1.05
30:B2:74:C:H2'	30:B2:75:G:H5'	1.06	1.05
30:D2:74:C:C2'	30:D2:75:G:H5'	1.87	1.05
44:DO:185:ALA:C	44:DO:187:ARG:HA	1.77	1.05
29:B1:1439:U:H2'	29:B1:1440:G:H8	1.22	1.05
29:B1:3122:A:C2'	29:B1:3123:A:H5''	1.84	1.05
29:B1:3334:U:H5'	29:B1:3371:G:N2	1.71	1.05
29:B1:811:U:H2'	29:B1:812:G:C8	1.92	1.05
29:B1:537:A:N6	29:B1:556:U:N3	2.04	1.05
29:D1:937:G:H22	29:D1:960:U:H5'	1.15	1.05
30:B2:11:A:H8	30:B2:13:A:O2'	1.39	1.05
1:C1:1458:G:C5'	1:C1:1459:C:H5	1.70	1.05
29:B1:2754:G:H3'	29:B1:2755:C:C5'	1.87	1.05
30:D2:25:G:C6	30:D2:26:C:N4	2.24	1.05
2:CA:186:GLY:HA2	2:CA:187:ALA:HB2	1.33	1.05
29:B1:3101:G:C2'	29:B1:3102:G:H5''	1.86	1.04
29:B1:716:A:H2'	29:B1:717:C:H4'	1.38	1.04
29:B1:776:U:C5'	29:B1:777:U:H5''	1.86	1.04
1:C1:173:A:C2	1:C1:174:U:C1'	2.39	1.04
29:D1:716:A:H2'	29:D1:717:C:C4'	1.86	1.04
1:A1:113:U:H5''	1:A1:114:C:H5'	1.36	1.04
1:C1:1240:U:C2'	1:C1:1241:G:H5'	1.87	1.04
1:A1:1347:U:H5'	15:AN:10:GLU:HA	1.38	1.04
29:B1:2161:G:H5''	29:B1:2162:U:OP2	1.55	1.04
29:B1:1796:G:H5''	29:B1:1797:A:OP1	1.55	1.04
29:D1:1056:U:H2'	29:D1:1057:A:O4'	1.56	1.04
29:D1:644:G:C4'	29:D1:1153:A:H2	1.69	1.04
29:D1:3090:U:H5''	29:D1:3090:U:C6	1.93	1.04
29:D1:642:U:H4'	29:D1:1116:G:O6	1.57	1.04
29:D1:776:U:C5'	29:D1:777:U:H5''	1.88	1.04
1:C1:1273:G:H4'	1:C1:1274:C:C5'	1.88	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1604:U:H3'	1:A1:1605:G:H5''	1.39	1.04
29:B1:3195:U:H2'	29:B1:3196:U:O2	1.58	1.04
30:B2:46:A:H3'	30:B2:46:A:N3	1.70	1.04
20:CS:49:ASP:H	20:CS:50:ILE:CA	1.70	1.04
1:C1:1420:C:C5	1:C1:1421:A:H8	1.74	1.04
29:B1:3261:C:O2	29:B1:3261:C:H2'	1.48	1.04
29:B1:575:G:C8	29:B1:575:G:H5'	1.93	1.04
29:B1:81:C:O2'	29:B1:82:C:H5'	1.56	1.04
29:B1:2148:U:H4'	29:B1:2149:A:OP1	1.51	1.04
29:B1:515:C:C3'	29:B1:516:A:H5''	1.87	1.04
29:D1:1696:A:H2'	29:D1:1697:A:C8	1.92	1.04
29:D1:517:G:OP2	29:D1:517:G:H3'	1.57	1.04
29:D1:811:U:H2'	29:D1:812:G:C8	1.93	1.04
1:C1:264:G:H3'	1:C1:265:A:H5'	1.40	1.04
29:D1:2270:A:H5''	29:D1:2270:A:C8	1.92	1.04
29:D1:2684:C:H2'	29:D1:2685:C:H6	1.13	1.04
29:B1:2523:A:H1'	29:B1:2524:A:H5'	1.08	1.04
29:D1:208:C:H2'	29:D1:209:A:H5'	1.34	1.04
29:B1:773:G:O2'	29:B1:774:G:H8	1.38	1.04
29:B1:2326:A:H5''	29:B1:2327:U:OP2	1.57	1.04
29:D1:1435:A:H5'	29:D1:1436:U:H5''	1.37	1.04
29:D1:3047:U:O2'	29:D1:3048:A:H5''	1.55	1.04
1:C1:509:G:H2'	1:C1:510:G:C8	1.92	1.04
29:D1:1495:U:C2	29:D1:1842:A:H2	1.73	1.04
29:D1:3327:G:C4	29:D1:3328:G:N7	2.25	1.04
29:D1:384:A:H3'	29:D1:385:A:H8	1.19	1.04
29:D1:773:G:O2'	29:D1:774:G:H8	1.39	1.04
1:C1:1196:A:H4'	1:C1:1197:C:H5''	1.39	1.04
44:DO:39:ALA:H	44:DO:62:TYR:HA	1.22	1.04
29:B1:1062:A:H3'	29:B1:1063:G:C5	1.93	1.04
29:B1:421:G:H3'	29:B1:421:G:C8	1.92	1.04
29:B1:1879:A:OP2	29:B1:1879:A:H3'	1.57	1.04
29:D1:2328:U:C2'	29:D1:2329:C:H5''	1.88	1.04
29:D1:2992:U:H2'	29:D1:2993:G:H5'	1.08	1.04
29:D1:575:G:H2'	29:D1:576:C:C6	1.93	1.04
29:D1:2148:U:H4'	29:D1:2149:A:OP1	1.53	1.04
29:D1:715:A:H2	29:D1:784:A:H4'	0.89	1.04
34:DC:154:TYR:H	34:DC:155:ALA:HB2	1.22	1.04
1:C1:700:C:H2'	1:C1:701:U:C6	1.91	1.04
16:CO:54:ASP:HA	16:CO:59:GLY:HA2	1.40	1.04
29:D1:1100:U:H2'	29:D1:1101:G:H8	1.23	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:989:U:H2'	1:A1:990:C:C6	1.93	1.03
29:B1:937:G:H22	29:B1:960:U:H5'	1.19	1.03
1:C1:364:G:N2	1:C1:381:C:N1	2.06	1.03
29:D1:592:A:H2'	29:D1:593:C:H4'	1.38	1.03
29:D1:588:G:H4'	29:D1:589:A:N7	1.70	1.03
30:D2:63:A:C3'	30:D2:64:A:H5''	1.87	1.03
1:C1:1347:U:H5'	15:CN:10:GLU:HA	1.39	1.03
29:D1:3242:G:H1'	29:D1:3246:G:H22	1.21	1.03
39:DH:194:THR:CB	39:DH:195:SER:HA	1.86	1.03
41:BJ:161:GLY:HA2	41:BJ:162:GLN:CB	1.88	1.03
29:B1:3151:U:P	29:B1:3152:U:OP1	2.16	1.03
29:D1:2262:A:H3'	29:D1:2263:C:H5''	1.37	1.03
29:D1:2390:A:H4'	29:D1:3307:A:C2	1.93	1.03
1:C1:1458:G:H5'	1:C1:1459:C:H5	1.22	1.03
29:D1:1065:A:N3	29:D1:1065:A:H3'	1.73	1.03
29:B1:1079:A:H2'	29:B1:1080:A:C8	1.92	1.03
46:DQ:76:PHE:HA	46:DQ:78:VAL:H	1.16	1.03
1:A1:887:A:H1'	9:AH:122:PRO:CB	1.87	1.03
29:B1:1192:C:P	29:B1:1192:C:H3'	1.98	1.03
29:B1:716:A:C3'	29:B1:717:C:H4'	1.88	1.03
1:C1:97:C:H1'	1:C1:426:G:H5'	1.40	1.03
29:D1:3387:U:H2'	29:D1:3388:C:C5	1.92	1.03
29:D1:3047:U:C2	29:D1:3048:A:C2	2.46	1.03
29:D1:515:C:C3'	29:D1:516:A:H5''	1.87	1.03
1:C1:1255:G:H4'	1:C1:1256:A:OP1	1.57	1.03
1:A1:1376:C:H2'	1:A1:1377:U:H5	1.21	1.03
17:AP:109:ARG:H	17:AP:110:LYS:HA	1.19	1.03
8:AG:51:GLY:HA2	8:AG:53:LEU:N	1.72	1.03
29:B1:1212:A:C2'	29:B1:1213:G:H5''	1.88	1.03
29:B1:596:C:H3'	29:B1:597:G:H5''	1.41	1.03
29:B1:1399:A:OP2	29:B1:1399:A:H4'	1.58	1.03
29:B1:65:A:H4'	29:B1:66:A:O5'	1.57	1.03
29:B1:750:G:H2'	29:B1:751:A:C8	1.94	1.03
29:D1:716:A:C2'	29:D1:717:C:H4'	1.87	1.03
1:C1:978:A:N6	1:C1:1024:U:N3	2.03	1.03
29:D1:3392:U:N3	29:D1:3393:U:C4	2.25	1.03
29:D1:524:U:H2'	29:D1:525:C:H6	1.24	1.03
1:A1:1499:G:O6	1:A1:1508:U:O2	1.74	1.03
30:D2:46:A:N3	30:D2:46:A:H3'	1.73	1.03
29:B1:3262:U:OP2	29:B1:3262:U:C6	2.11	1.03
1:C1:1649:G:H2'	1:C1:1650:U:C6	1.93	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3144:G:H4'	29:D1:3145:C:OP2	1.22	1.03
29:B1:829:U:H4'	29:B1:866:A:H2	1.20	1.03
1:A1:26:A:H2'	1:A1:27:U:C6	1.94	1.03
29:B1:208:C:H2'	29:B1:209:A:H5'	1.41	1.03
29:B1:363:G:C2'	29:B1:364:G:H5''	1.88	1.03
29:B1:726:G:C6	29:B1:727:G:N1	2.27	1.03
29:D1:1839:A:H5''	29:D1:1840:U:OP1	1.57	1.03
29:D1:2636:A:H5''	29:D1:2637:A:C5'	1.89	1.03
1:C1:1724:U:H2'	1:C1:1725:U:C5	1.94	1.03
1:A1:1204:A:H3'	1:A1:1205:C:C5'	1.89	1.03
29:B1:3201:C:OP1	29:B1:3201:C:H6	1.42	1.03
29:D1:3140:G:H8	29:D1:3140:G:H5''	1.17	1.03
29:D1:511:G:N2	29:D1:580:C:C4	2.27	1.02
29:D1:584:G:H2'	29:D1:585:A:H8	1.22	1.02
29:D1:829:U:H4'	29:D1:866:A:H2	1.21	1.02
29:D1:943:U:H3'	54:DY:10:LYS:HA	1.37	1.02
29:D1:284:A:H2	29:D1:306:A:H1'	1.00	1.02
29:D1:591:G:N2	29:D1:592:A:H1'	1.73	1.02
29:D1:716:A:H2'	29:D1:717:C:H4'	1.41	1.02
1:A1:448:C:H2'	1:A1:449:C:H6	1.05	1.02
1:C1:249:U:H3'	1:C1:250:C:H5'	1.40	1.02
1:C1:1480:G:H5'	1:C1:1480:G:H8	1.19	1.02
29:D1:3218:A:O2'	29:D1:3219:G:H3'	1.58	1.02
1:A1:25:C:N4	1:A1:367:A:H1'	1.73	1.02
29:B1:3307:A:H8	29:B1:3307:A:O5'	1.40	1.02
1:A1:520:A:H2'	1:A1:521:A:H8	1.23	1.02
29:B1:2385:G:H4'	29:B1:2386:A:OP1	1.57	1.02
1:C1:172:C:O2'	1:C1:173:A:H5''	1.56	1.02
29:D1:3090:U:H5''	29:D1:3090:U:H6	1.21	1.02
29:D1:659:G:H2'	29:D1:660:A:C8	1.95	1.02
29:D1:716:A:C3'	29:D1:717:C:H4'	1.88	1.02
1:C1:520:A:H2'	1:C1:521:A:H8	1.20	1.02
1:A1:335:U:H3'	1:A1:336:G:C8	1.94	1.02
1:A1:1542:G:H22	1:A1:1568:C:H2'	1.23	1.02
29:B1:3202:G:H3'	29:B1:3202:G:OP2	1.58	1.02
29:B1:1062:A:H3'	29:B1:1063:G:N7	1.73	1.02
44:BO:39:ALA:H	44:BO:62:TYR:HA	1.19	1.02
1:A1:1097:U:O2'	1:A1:1098:U:H5'	1.55	1.02
29:B1:1653:G:H2'	29:B1:1654:A:H5'	1.41	1.02
29:B1:431:U:H2'	29:B1:432:G:C8	1.93	1.02
1:C1:1073:G:O6	1:C1:1074:G:C6	2.12	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:402:C:C2'	1:C1:403:G:H5'	1.90	1.02
29:D1:106:A:H2'	29:D1:107:A:C8	1.94	1.02
29:D1:523:A:H2'	29:D1:524:U:H5'	1.41	1.02
29:D1:596:C:H3'	29:D1:596:C:O2	1.59	1.02
29:D1:14:U:H4'	29:D1:15:C:OP2	1.54	1.02
30:B2:64:A:N1	30:B2:111:U:O4	1.93	1.02
30:B2:12:U:C3'	30:B2:13:A:H2	1.72	1.02
1:A1:142:G:N2	1:A1:173:A:N1	2.07	1.02
29:D1:1186:G:H2'	29:D1:1187:C:C5'	1.88	1.02
47:DR:117:ALA:HB3	47:DR:118:GLY:HA2	1.41	1.02
1:A1:1752:U:H2'	1:A1:1753:A:C8	1.93	1.02
29:D1:2213:A:H2'	29:D1:2214:A:C8	1.95	1.02
29:B1:3342:A:N6	29:B1:3363:U:N3	1.94	1.02
29:D1:3377:G:O2'	29:D1:3378:C:OP1	1.77	1.02
29:B1:2797:C:H3'	29:B1:2798:C:H5'	1.41	1.02
42:DK:50:ALA:HB3	42:DK:63:GLU:H	1.24	1.02
1:A1:1240:U:C2'	1:A1:1241:G:H5'	1.90	1.02
29:B1:384:A:O5'	29:B1:384:A:H8	1.42	1.02
29:D1:3172:A:H1'	29:D1:3173:G:C8	1.95	1.02
29:B1:2554:A:N1	33:BB:86:GLN:HA	1.75	1.02
29:B1:421:G:N2	29:B1:2365:C:H1'	1.74	1.02
29:B1:3342:A:N6	29:B1:3363:U:O4	1.91	1.02
29:D1:1482:A:H4'	29:D1:1483:G:OP2	1.57	1.02
29:D1:106:A:H2'	29:D1:107:A:H8	1.24	1.02
29:D1:3101:G:H2'	29:D1:3102:G:H5''	1.39	1.02
1:C1:1542:G:N2	1:C1:1568:C:H2'	1.74	1.02
1:A1:1542:G:N2	1:A1:1568:C:H2'	1.74	1.02
30:B2:35:C:N4	30:B2:47:C:H1'	1.74	1.02
30:B2:25:G:C6	30:B2:26:C:N4	2.27	1.02
29:B1:1065:A:H3'	29:B1:1065:A:N3	1.73	1.02
29:B1:2656:A:H4'	29:B1:2657:A:OP1	1.56	1.01
29:B1:3121:U:O2	29:B1:3122:A:C8	2.13	1.01
29:B1:511:G:N2	29:B1:579:G:C2	2.28	1.01
29:D1:43:A:N6	29:D1:2802:A:H2	1.57	1.01
29:D1:516:A:C3'	29:D1:517:G:C8	2.43	1.01
29:D1:784:A:H2'	29:D1:785:G:C8	1.96	1.01
30:D2:74:C:H2'	30:D2:75:G:H5'	1.04	1.01
1:C1:1378:U:O5'	1:C1:1379:C:H5''	1.59	1.01
29:B1:1100:U:H2'	29:B1:1101:G:H8	1.24	1.01
17:CP:109:ARG:N	17:CP:110:LYS:HA	1.75	1.01
5:CD:153:GLY:HA3	5:CD:154:ALA:HB3	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:43:A:N6	29:B1:2802:A:H2	1.57	1.01
29:B1:3099:C:O2'	29:B1:3100:U:O5'	1.77	1.01
29:B1:106:A:H2'	29:B1:107:A:H8	1.23	1.01
1:C1:61:A:O5'	1:C1:62:A:H5'	1.61	1.01
29:D1:3342:A:N6	29:D1:3363:U:N3	1.98	1.01
1:C1:686:C:H2'	1:C1:687:G:H8	1.08	1.01
29:B1:2673:A:N6	29:B1:2681:U:C4	2.28	1.01
1:A1:1365:C:H2'	1:A1:1366:U:O4'	1.60	1.01
40:DI:63:LYS:HA	40:DI:66:ALA:HB3	1.42	1.01
36:DE:272:TYR:H	36:DE:273:ARG:HA	1.22	1.01
1:A1:1099:U:OP1	1:A1:1099:U:H4'	1.58	1.01
29:B1:1503:A:C3'	29:B1:1504:A:H5''	1.89	1.01
29:B1:325:A:H3'	29:B1:327:A:P	2.01	1.01
29:B1:963:G:H8	29:B1:963:G:H5'	1.25	1.01
1:C1:1141:G:C3'	1:C1:1142:A:H5''	1.85	1.01
1:C1:402:C:O2	1:C1:403:G:H4'	1.59	1.01
29:D1:1481:A:O2'	29:D1:1858:A:H2'	1.60	1.01
29:D1:726:G:C6	29:D1:727:G:N1	2.29	1.01
29:B1:993:G:H21	29:B1:2637:A:H3'	1.20	1.01
1:A1:199:G:HO2'	1:A1:200:A:H8	1.05	1.01
1:A1:129:U:C5	1:A1:264:G:C6	2.49	1.01
30:D2:13:A:H5'	30:D2:112:G:H1'	1.37	1.01
29:B1:2684:C:H2'	29:B1:2685:C:C6	1.95	1.01
1:C1:1525:A:H2'	1:C1:1526:A:C8	1.96	1.01
29:D1:1415:U:H2'	29:D1:1416:C:C6	1.94	1.01
29:D1:3262:U:OP2	29:D1:3262:U:C6	2.13	1.01
29:B1:1628:C:O2'	29:B1:1630:U:H5'	1.60	1.01
18:CQ:57:TYR:CB	18:CQ:58:ARG:HA	1.90	1.01
29:B1:1378:U:H2'	29:B1:1379:G:C8	1.95	1.01
29:B1:264:G:C6	29:B1:265:A:C6	2.49	1.01
1:A1:364:G:N2	1:A1:381:C:N1	2.07	1.01
29:B1:1218:U:H2'	29:B1:1219:C:H5'	1.40	1.01
29:B1:2777:G:H2'	29:B1:2777:G:N3	1.71	1.01
29:B1:3055:U:H2'	29:B1:3085:G:H1	1.25	1.01
1:C1:1110:G:H8	1:C1:1110:G:H5'	1.25	1.01
29:D1:1879:A:O2'	29:D1:1880:U:H4'	1.59	1.01
30:B2:9:C:H2'	30:B2:13:A:H62	1.21	1.01
1:C1:1362:U:H3'	1:C1:1363:U:O4'	1.58	1.01
1:A1:1255:G:H4'	1:A1:1256:A:OP1	1.56	1.01
1:A1:1377:U:H2'	1:A1:1378:U:H4'	1.41	1.01
46:DQ:112:LEU:HA	46:DQ:151:THR:O	1.58	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3274:A:C8	29:D1:3275:U:H2'	1.95	1.01
34:BC:51:ALA:HB3	34:BC:78:VAL:O	1.60	1.01
29:B1:124:U:H2'	29:B1:125:C:O4'	1.61	1.01
1:A1:1110:G:H8	1:A1:1110:G:H5'	1.22	1.01
29:B1:209:A:O2'	29:B1:210:U:C2	2.13	1.01
29:B1:1503:A:H3'	29:B1:1504:A:H5''	1.01	1.01
29:D1:2817:A:H4'	29:D1:2818:U:OP2	1.58	1.01
29:D1:776:U:H5'	29:D1:777:U:H5''	1.37	1.01
29:B1:955:U:H2'	29:B1:956:U:C6	1.96	1.01
1:C1:322:G:H4'	1:C1:323:A:OP1	1.57	1.01
1:C1:1197:C:OP1	1:C1:1197:C:H4'	1.59	1.01
1:C1:1604:U:H3'	1:C1:1605:G:H5''	1.42	1.01
29:B1:3242:G:H1'	29:B1:3246:G:H22	1.22	1.01
29:D1:1647:A:H2'	29:D1:1648:A:H5'	1.42	1.01
1:A1:1281:G:H2'	1:A1:1282:U:H6	1.19	1.01
7:AF:122:ILE:H	7:AF:144:ALA:HB3	1.24	1.01
1:C1:1752:U:H2'	1:C1:1753:A:H8	1.26	1.01
1:A1:609:U:H5''	1:A1:610:G:C5	1.95	1.00
29:B1:284:A:H2	29:B1:306:A:C1'	1.72	1.00
29:B1:1191:U:H2'	29:B1:1191:U:O2	1.61	1.00
29:B1:743:C:C2'	29:B1:744:A:H5'	1.91	1.00
29:B1:761:A:N1	29:B1:770:G:N2	2.07	1.00
29:D1:1212:A:C2'	29:D1:1213:G:H5''	1.90	1.00
29:D1:2779:A:H5'	29:D1:2779:A:C8	1.96	1.00
29:D1:722:G:N2	29:D1:748:U:O2	1.93	1.00
1:C1:151:G:H1	1:C1:163:G:H22	1.05	1.00
29:D1:592:A:H2'	29:D1:593:C:C4'	1.90	1.00
31:D3:76:C:H4'	31:D3:77:A:OP1	1.56	1.00
1:C1:1365:C:H2'	1:C1:1366:U:O4'	1.61	1.00
1:A1:1362:U:H3'	1:A1:1363:U:O4'	1.61	1.00
1:A1:1200:G:H4'	1:A1:1201:G:OP2	1.62	1.00
37:BF:41:ILE:H	37:BF:85:ILE:HA	0.87	1.00
29:B1:3028:G:N2	29:B1:3029:A:N3	2.09	1.00
20:AS:49:ASP:N	20:AS:50:ILE:HA	1.70	1.00
1:A1:127:G:C6	1:A1:179:A:C5	2.44	1.00
29:B1:2353:G:C5	29:B1:2354:C:H5	1.78	1.00
29:D1:2131:A:H2'	29:D1:2132:C:H5''	1.40	1.00
29:D1:1947:G:H5''	29:D1:1948:G:OP2	1.60	1.00
39:BH:194:THR:CB	39:BH:195:SER:HA	1.89	1.00
29:D1:124:U:H2'	29:D1:125:C:O4'	1.61	1.00
1:A1:1764:C:OP1	1:A1:1771:U:H4'	1.60	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2393:G:C6	29:B1:2982:A:C2	2.48	1.00
29:B1:3122:A:H2'	29:B1:3123:A:H5''	1.01	1.00
29:B1:257:U:H2'	29:B1:258:G:C8	1.95	1.00
29:D1:422:A:H1'	29:D1:423:A:H5''	1.38	1.00
29:D1:880:G:C8	29:D1:882:A:C8	2.50	1.00
30:D2:11:A:H8	30:D2:13:A:O2'	1.43	1.00
29:B1:3171:U:H1'	29:B1:3172:A:OP2	1.61	1.00
29:B1:3172:A:H1'	29:B1:3173:G:C8	1.95	1.00
1:A1:1420:C:H5	1:A1:1421:A:H8	1.05	1.00
29:B1:106:A:H2'	29:B1:107:A:C8	1.96	1.00
29:B1:3367:C:O2'	29:B1:3368:U:H5''	1.60	1.00
29:B1:2817:A:H4'	29:B1:2818:U:OP2	1.57	1.00
29:B1:775:A:O3'	29:B1:776:U:H4'	1.60	1.00
1:C1:264:G:H3'	1:C1:265:A:C5'	1.91	1.00
29:D1:1495:U:H5''	29:D1:1496:C:H5	1.22	1.00
29:D1:610:G:H3'	29:D1:610:G:N3	1.76	1.00
1:C1:827:C:C4	1:C1:846:G:O6	2.13	1.00
31:B3:69:U:C3'	31:B3:70:G:H4'	1.91	1.00
31:B3:65:A:H2'	31:B3:66:A:H8	1.23	1.00
1:A1:243:G:N1	1:A1:250:C:N3	2.08	1.00
29:D1:3144:G:C4'	29:D1:3145:C:OP2	2.09	1.00
1:A1:1753:A:H3'	1:A1:1754:A:H5''	1.39	1.00
29:B1:642:U:H4'	29:B1:1116:G:O6	1.62	1.00
29:B1:2987:A:H2'	29:B1:2988:C:C6	1.95	1.00
29:B1:405:U:H5	29:B1:406:G:C5	1.78	1.00
29:D1:3303:G:H4'	29:D1:3304:U:OP1	1.61	1.00
29:D1:3342:A:N6	29:D1:3363:U:O4	1.94	1.00
30:B2:74:C:C2'	30:B2:75:G:H5'	1.91	1.00
1:A1:1560:U:O2	1:A1:1560:U:H2'	1.60	1.00
1:C1:127:G:C6	1:C1:179:A:C5	2.42	1.00
1:A1:1634:C:H4'	1:A1:1635:A:O5'	1.57	1.00
29:B1:3060:C:H1'	29:B1:3331:U:H1'	1.43	1.00
1:C1:25:C:N4	1:C1:367:A:H1'	1.75	1.00
29:D1:1697:A:H2'	29:D1:1698:C:H5'	1.43	1.00
29:B1:2728:G:N3	29:B1:2728:G:H2'	1.77	1.00
29:D1:1667:A:H2'	29:D1:1668:G:C8	1.95	1.00
29:B1:3303:G:H1'	29:B1:3304:U:C5'	1.92	1.00
29:B1:829:U:N3	29:B1:895:A:N6	2.10	1.00
29:D1:3342:A:N6	29:D1:3363:U:C4	2.30	1.00
29:D1:775:A:O3'	29:D1:776:U:H4'	1.62	1.00
1:A1:1724:U:H2'	1:A1:1725:U:H5	1.26	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3201:C:P	29:D1:3201:C:H6	1.85	1.00
29:D1:1779:C:H4'	29:D1:1780:G:C5'	1.91	1.00
29:D1:2689:A:N3	29:D1:2702:A:C2	2.30	1.00
29:D1:591:G:N2	29:D1:592:A:C1'	2.25	1.00
1:A1:125:U:O2'	1:A1:126:A:H5'	1.62	1.00
1:C1:1377:U:H2'	1:C1:1378:U:H4'	1.37	1.00
29:B1:1696:A:H2'	29:B1:1697:A:C8	1.97	1.00
29:B1:1626:U:OP1	29:B1:1626:U:H4'	1.59	1.00
29:D1:1079:A:H2'	29:D1:1080:A:C8	1.95	1.00
1:C1:170:U:P	1:C1:267:U:O2'	2.20	0.99
29:D1:1796:G:H5''	29:D1:1797:A:OP1	1.61	0.99
29:D1:2703:A:H5''	29:D1:2704:A:H5'	1.44	0.99
29:D1:3328:G:N2	29:D1:3329:U:C6	2.29	0.99
29:D1:592:A:C3'	29:D1:593:C:H4'	1.92	0.99
31:B3:76:C:H4'	31:B3:77:A:OP1	1.61	0.99
1:C1:243:G:C6	1:C1:251:A:C6	2.50	0.99
1:C1:1378:U:H5'	1:C1:1379:C:C6	1.95	0.99
1:A1:1197:C:H4'	1:A1:1197:C:OP1	1.59	0.99
29:B1:1280:C:H2'	29:B1:1281:G:C8	1.97	0.99
1:C1:1219:A:H5'	1:C1:1220:C:H5	1.22	0.99
29:B1:609:G:O2'	29:B1:610:G:H5''	1.60	0.99
29:D1:2727:A:H4'	29:D1:2728:G:OP1	1.62	0.99
29:D1:549:U:H2'	29:D1:550:A:C8	1.96	0.99
1:C1:1376:C:H2'	1:C1:1377:U:H5	1.27	0.99
29:B1:1647:A:H2'	29:B1:1648:A:H5'	1.43	0.99
16:AO:54:ASP:HA	16:AO:59:GLY:HA2	1.44	0.99
29:B1:834:U:H6	29:B1:834:U:H5''	1.26	0.99
1:A1:509:G:H2'	1:A1:510:G:C8	1.96	0.99
29:B1:2948:C:H2'	29:B1:2949:U:H6	1.24	0.99
29:B1:3048:A:H62	29:B1:3090:U:H3'	1.25	0.99
29:B1:3377:G:O2'	29:B1:3378:C:OP1	1.79	0.99
29:B1:866:A:C8	29:B1:867:G:C8	2.50	0.99
29:D1:3122:A:C2'	29:D1:3123:A:H5''	1.91	0.99
29:D1:81:C:O2'	29:D1:82:C:H5'	1.60	0.99
30:B2:12:U:C3'	30:B2:13:A:C2	2.43	0.99
29:B1:3233:C:H2'	29:B1:3234:A:C8	1.97	0.99
29:B1:423:A:H2'	29:B1:424:G:C8	1.97	0.99
29:D1:2326:A:H5''	29:D1:2327:U:OP2	1.62	0.99
1:A1:825:U:H5	1:A1:847:A:C6	1.80	0.99
1:C1:250:C:H2'	1:C1:251:A:H8	1.27	0.99
36:BE:272:TYR:H	36:BE:273:ARG:HA	1.22	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1688:U:H2'	29:D1:1689:U:C5	1.97	0.99
1:A1:897:C:N3	1:A1:914:G:N2	2.11	0.99
29:B1:549:U:H2'	29:B1:550:A:C8	1.97	0.99
29:B1:594:U:O2	29:B1:594:U:H2'	1.58	0.99
1:C1:1146:G:C8	1:C1:1635:A:H2	1.80	0.99
29:D1:2328:U:H2'	29:D1:2329:C:H5''	1.39	0.99
29:D1:421:G:H8	29:D1:421:G:H3'	1.20	0.99
29:D1:591:G:H21	29:D1:592:A:H1'	1.27	0.99
29:D1:754:G:H22	29:D1:778:U:H3	1.05	0.99
29:B1:3215:A:O5'	29:B1:3218:A:O4'	1.80	0.99
29:B1:2213:A:H2'	29:B1:2214:A:H8	1.16	0.99
29:D1:2754:G:H3'	29:D1:2755:C:C5'	1.92	0.99
36:DE:97:ALA:HA	36:DE:100:ALA:HB3	1.40	0.99
50:DU:80:ARG:O	50:DU:98:ASN:HA	1.60	0.99
29:B1:3273:A:C6	29:B1:3274:A:N7	2.30	0.99
29:B1:3303:G:H4'	29:B1:3304:U:OP1	1.56	0.99
29:B1:504:A:H3'	29:B1:504:A:H8	1.23	0.99
29:D1:2255:A:O5'	74:D1:3415:OHX:N1	1.96	0.99
29:D1:2728:G:N3	29:D1:2728:G:H2'	1.76	0.99
29:D1:208:C:H2'	29:D1:209:A:C5'	1.93	0.99
47:DR:154:GLY:H	47:DR:155:MET:HA	1.27	0.99
29:B1:1439:U:H2'	29:B1:1440:G:C8	1.98	0.99
29:B1:880:G:C8	29:B1:882:A:C8	2.51	0.99
29:D1:2252:A:H2'	29:D1:2253:G:H8	1.27	0.99
29:D1:2255:A:O5'	74:D1:3415:OHX:N2	1.96	0.99
1:C1:825:U:H5	1:C1:847:A:C6	1.80	0.99
30:D2:7:G:H1	30:D2:114:U:H3	1.10	0.99
1:C1:1467:C:O2'	1:C1:1468:U:H5'	1.63	0.99
1:C1:921:U:O2'	1:C1:922:G:H5'	1.63	0.99
29:B1:208:C:H2'	29:B1:209:A:C5'	1.93	0.99
29:B1:2255:A:C4	74:B1:3438:OHX:N5	2.30	0.99
29:B1:504:A:H2	29:B1:587:U:C2	1.79	0.99
29:B1:715:A:H2	29:B1:784:A:H4'	0.82	0.99
29:D1:384:A:H8	29:D1:384:A:O5'	1.43	0.99
29:B1:3242:G:N2	29:B1:3245:A:N7	2.08	0.99
17:CP:109:ARG:H	17:CP:110:LYS:HA	1.27	0.99
1:A1:97:C:H1'	1:A1:426:G:H5'	1.42	0.99
29:B1:2779:A:C8	29:B1:2779:A:H5'	1.98	0.99
1:C1:10:G:OP1	1:C1:1633:A:C5'	2.10	0.99
1:C1:96:G:H1	1:C1:387:A:N6	1.61	0.99
29:D1:1331:U:H4'	29:D1:1332:A:OP2	1.62	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:517:G:OP2	29:D1:517:G:H8	1.44	0.99
29:D1:951:A:H2'	29:D1:952:A:H5''	1.00	0.99
29:B1:2698:G:H2'	29:B1:2699:G:H5''	1.40	0.99
1:C1:1348:A:H5''	15:CN:12:GLN:H	0.83	0.99
18:AQ:57:TYR:CB	18:AQ:58:ARG:HA	1.92	0.99
29:B1:3392:U:C4	29:B1:3393:U:O4	2.16	0.99
29:B1:592:A:H2'	29:B1:593:C:O4'	1.62	0.99
29:B1:781:G:C2'	29:B1:782:U:H5'	1.93	0.99
29:D1:417:A:H2'	29:D1:418:A:C8	1.98	0.99
1:A1:1273:G:H4'	1:A1:1274:C:H5'	1.02	0.99
1:A1:1022:C:H4'	1:A1:1124:A:H61	1.28	0.99
34:BC:154:TYR:H	34:BC:155:ALA:HB2	1.27	0.99
29:B1:406:G:H1'	31:B3:16:G:H22	1.23	0.98
29:B1:516:A:C3'	29:B1:517:G:C8	2.45	0.98
1:C1:1099:U:OP1	1:C1:1099:U:H4'	1.59	0.98
29:D1:154:U:H4'	29:D1:155:G:OP2	1.59	0.98
29:D1:781:G:C2'	29:D1:782:U:H5'	1.92	0.98
29:B1:384:A:H3'	29:B1:385:A:H8	1.24	0.98
31:D3:16:G:O6	74:D3:212:OHX:N5	1.96	0.98
29:B1:1779:C:H4'	29:B1:1780:G:C5'	1.93	0.98
29:B1:409:A:H61	31:B3:15:G:H1'	1.24	0.98
1:C1:402:C:H2'	1:C1:403:G:C5'	1.93	0.98
29:D1:3321:C:C2	29:D1:3322:A:C8	2.50	0.98
29:D1:432:G:H2'	29:D1:433:A:C8	1.96	0.98
29:B1:1715:A:H3'	29:B1:1716:U:H5''	1.46	0.98
1:A1:1628:U:H2'	1:A1:1629:G:H8	1.28	0.98
29:B1:3391:A:C2	29:B1:3392:U:C6	2.52	0.98
38:BG:73:GLY:HA2	38:BG:74:SER:O	1.62	0.98
1:C1:989:U:H2'	1:C1:990:C:C6	1.98	0.98
29:D1:282:G:N2	29:D1:286:U:H4'	1.78	0.98
29:D1:576:C:C2'	29:D1:577:C:H5''	1.94	0.98
37:DF:41:ILE:H	37:DF:85:ILE:HA	0.81	0.98
1:C1:524:U:H2'	1:C1:527:A:H2	1.29	0.98
29:D1:1189:C:H4'	29:D1:1192:C:H5	1.25	0.98
29:D1:1607:U:H1'	29:D1:1608:C:OP1	1.64	0.98
29:D1:3022:G:O2'	29:D1:3023:U:OP2	1.78	0.98
29:D1:2673:A:N6	29:D1:2681:U:C4	2.28	0.98
1:A1:1724:U:H2'	1:A1:1725:U:C5	1.98	0.98
1:A1:1348:A:H5''	15:AN:12:GLN:N	1.77	0.98
1:A1:1378:U:O5'	1:A1:1379:C:H5''	1.63	0.98
21:AT:213:SER:O	21:AT:220:ILE:HA	1.63	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1504:A:H2'	29:B1:1505:C:H6	1.27	0.98
29:B1:3389:U:H4'	29:B1:3390:G:H5''	1.41	0.98
29:B1:822:G:H2'	29:B1:823:C:H6	1.27	0.98
29:B1:1688:U:H2'	29:B1:1689:U:C5	1.97	0.98
29:B1:725:G:H2'	29:B1:726:G:H5''	1.45	0.98
29:D1:2739:A:H5''	29:D1:2740:A:OP2	1.62	0.98
29:D1:284:A:H2	29:D1:306:A:C1'	1.75	0.98
30:B2:63:A:C3'	30:B2:64:A:H5''	1.93	0.98
30:D2:9:C:H2'	30:D2:13:A:H62	1.25	0.98
30:B2:92:A:H2'	30:B2:93:C:O4'	1.64	0.98
29:B1:3201:C:P	29:B1:3201:C:H6	1.85	0.98
29:D1:210:U:OP2	29:D1:210:U:C6	2.17	0.98
29:D1:1678:G:H2'	29:D1:1679:A:H8	1.29	0.98
1:A1:25:C:C4	1:A1:367:A:H1'	1.97	0.98
1:A1:40:A:H2'	1:A1:41:A:H8	1.29	0.98
29:B1:1503:A:H3'	29:B1:1504:A:C5'	1.93	0.98
29:B1:551:A:H2'	29:B1:552:G:O4'	1.64	0.98
30:B2:13:A:H5'	30:B2:112:G:H1'	1.43	0.98
30:D2:12:U:H3'	30:D2:13:A:H2	0.84	0.98
46:BQ:112:LEU:HA	46:BQ:151:THR:O	1.63	0.98
1:C1:1420:C:H5	1:C1:1421:A:H8	0.99	0.98
29:B1:1153:A:N7	29:B1:1154:A:C6	2.32	0.98
29:B1:1156:C:C3'	29:B1:1157:G:H5''	1.93	0.98
29:B1:1506:A:O2'	29:B1:1507:G:H5'	1.63	0.98
29:B1:3303:G:H1'	29:B1:3304:U:H5'	1.42	0.98
29:B1:592:A:H2'	29:B1:593:C:C3'	1.93	0.98
1:C1:524:U:H2'	1:C1:527:A:C2	1.99	0.98
29:D1:2703:A:H5''	29:D1:2704:A:C5'	1.93	0.98
29:D1:42:C:H2'	29:D1:43:A:H5''	0.99	0.98
29:D1:612:U:H1'	29:D1:613:G:C8	1.98	0.98
29:D1:743:C:C2'	29:D1:744:A:H5'	1.92	0.98
29:D1:1416:C:O2	29:D1:1416:C:H2'	1.61	0.98
30:D2:34:C:H2'	30:D2:34:C:O2	1.59	0.98
29:B1:1286:A:N3	29:B1:1287:A:H1'	1.79	0.98
29:B1:2107:A:H2'	29:B1:2108:C:C6	1.98	0.98
29:B1:2223:A:O2'	29:B1:2224:A:H8	1.45	0.98
1:C1:427:C:C5'	1:C1:427:C:H6	1.76	0.98
1:C1:557:G:O2'	1:C1:558:U:H4'	1.64	0.98
29:D1:1194:G:C8	29:D1:1319:G:H4'	1.99	0.98
29:D1:1213:G:H8	29:D1:1213:G:H5'	1.27	0.98
29:D1:1875:G:H2'	29:D1:1876:U:H5''	1.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1458:G:H5'	1:C1:1459:C:C5	1.98	0.98
29:D1:3201:C:H2'	29:D1:3202:G:H8	1.28	0.98
29:B1:3321:C:C2	29:B1:3322:A:C8	2.51	0.98
29:B1:585:A:H2'	29:B1:586:C:C6	1.99	0.98
29:B1:659:G:H2'	29:B1:660:A:C8	1.97	0.98
29:B1:807:A:H5'	29:B1:808:A:OP2	1.62	0.98
1:C1:96:G:H1	1:C1:387:A:H61	0.98	0.98
1:C1:591:A:H2'	1:C1:592:A:C8	1.97	0.98
29:D1:1399:A:H4'	29:D1:1399:A:OP2	1.62	0.98
29:D1:3260:G:H3'	29:D1:3261:C:H5''	1.45	0.98
29:D1:3277:U:H2'	29:D1:3278:C:H5'	1.43	0.98
29:B1:2593:A:H4'	29:B1:2594:C:H5'	1.46	0.98
29:B1:2270:A:H5''	29:B1:2270:A:H8	1.25	0.97
29:D1:1226:G:H2'	29:D1:1227:C:C6	1.99	0.97
29:D1:2797:C:H3'	29:D1:2798:C:H5'	1.46	0.97
29:D1:866:A:C8	29:D1:867:G:C8	2.52	0.97
29:B1:2680:A:H2'	42:BK:53:THR:O	1.62	0.97
29:B1:3201:C:H2'	29:B1:3202:G:H8	1.26	0.97
29:B1:1478:C:H2'	29:B1:1479:U:C6	1.99	0.97
29:B1:592:A:C4	29:B1:593:C:O4'	2.17	0.97
29:D1:980:A:H61	29:D1:1104:G:H8	1.00	0.97
29:D1:2643:A:H5'	29:D1:2644:C:OP2	1.63	0.97
29:D1:2712:U:O2'	29:D1:2743:A:H4'	1.64	0.97
5:AD:153:GLY:HA3	5:AD:154:ALA:HB3	1.45	0.97
29:B1:1875:G:C2'	29:B1:1876:U:H5''	1.92	0.97
29:B1:884:A:N7	29:B1:2139:A:N3	2.12	0.97
29:B1:560:G:O2'	29:B1:561:C:H5'	1.62	0.97
1:C1:40:A:H2'	1:C1:41:A:H8	1.30	0.97
29:D1:3027:A:H2'	29:D1:3028:G:H8	1.24	0.97
29:D1:784:A:H3'	29:D1:785:G:H5''	1.44	0.97
1:A1:452:A:H2'	1:A1:453:U:H5''	1.44	0.97
29:D1:2684:C:H2'	29:D1:2685:C:C6	1.99	0.97
29:D1:1079:A:C8	36:DE:141:PRO:CB	2.46	0.97
41:DJ:161:GLY:HA2	41:DJ:162:GLN:CB	1.94	0.97
29:B1:1131:G:C4	29:B1:2373:A:C2	2.52	0.97
29:B1:645:A:C8	29:B1:649:A:N6	2.32	0.97
29:D1:3037:U:O2'	29:D1:3038:U:H5'	1.63	0.97
29:B1:2616:C:H2'	29:B1:2617:U:H5'	1.46	0.97
1:A1:1616:G:H21	1:A1:1618:C:H41	1.12	0.97
29:D1:3024:A:H2'	29:D1:3024:A:N3	1.78	0.97
29:D1:592:A:N3	29:D1:593:C:H1'	1.78	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AT:180:ALA:HB3	21:AT:190:ALA:O	1.64	0.97
43:DN:76:ALA:HA	43:DN:79:ALA:HB3	1.43	0.97
1:A1:33:U:H1'	1:A1:468:A:H2	1.27	0.97
1:A1:629:U:H2'	1:A1:630:A:C8	1.98	0.97
29:B1:1560:G:N1	29:B1:1579:C:O2	1.98	0.97
29:D1:531:G:H2'	29:D1:532:A:H8	1.27	0.97
29:D1:834:U:H5''	29:D1:834:U:H6	1.28	0.97
1:A1:1109:G:H1	1:A1:1136:U:H3	1.10	0.97
29:B1:1941:C:H42	29:B1:2107:A:H61	1.13	0.97
29:B1:2304:C:O2'	29:B1:2305:G:H5'	1.64	0.97
29:B1:784:A:H2'	29:B1:785:G:C8	1.99	0.97
29:D1:2107:A:H2'	29:D1:2108:C:C6	1.98	0.97
29:D1:2633:U:O2'	29:D1:2634:U:H5'	1.63	0.97
29:D1:3060:C:H1'	29:D1:3331:U:H1'	1.46	0.97
29:D1:3127:A:H3'	29:D1:3128:G:H8	1.30	0.97
29:B1:1793:C:H1'	29:B1:1794:G:OP1	1.63	0.97
29:B1:2113:A:H2'	29:B1:2114:C:H5'	1.41	0.97
1:C1:40:A:H2'	1:C1:41:A:C8	1.99	0.97
1:C1:452:A:H2'	1:C1:453:U:H5''	1.44	0.97
29:D1:2353:G:C5	29:D1:2354:C:H5	1.83	0.97
29:D1:2698:G:C2'	29:D1:2699:G:H5''	1.94	0.97
29:D1:504:A:H2	29:D1:587:U:N3	1.61	0.97
1:A1:228:G:HO2'	1:A1:229:U:H6	1.12	0.97
1:A1:1378:U:H5'	1:A1:1379:C:C6	1.98	0.97
29:D1:1383:G:H4'	35:DD:241:GLY:HA2	1.47	0.97
1:A1:518:A:H2'	1:A1:519:C:H5''	1.45	0.97
29:B1:3056:U:C2	29:B1:3056:U:OP1	2.18	0.97
38:BG:66:LYS:O	38:BG:69:ALA:HB3	1.64	0.97
1:C1:87:C:H3'	1:C1:88:U:H5''	1.46	0.97
29:D1:1154:A:H4'	29:D1:1155:C:OP2	1.61	0.97
29:D1:3011:A:H8	29:D1:3012:A:H1'	1.28	0.97
29:D1:585:A:H2'	29:D1:586:C:C6	1.99	0.97
31:D3:69:U:C3'	31:D3:70:G:H4'	1.95	0.97
31:B3:65:A:H2'	31:B3:66:A:C8	1.99	0.97
29:D1:3226:A:H2'	29:D1:3227:A:O4'	1.64	0.97
1:A1:394:C:H42	1:A1:401:A:H62	1.08	0.97
29:B1:278:U:H2'	29:B1:279:U:H6	1.29	0.97
29:B1:42:C:C2'	29:B1:43:A:H5''	1.94	0.97
29:B1:673:U:H2'	29:B1:674:G:H5'	1.46	0.97
29:D1:3023:U:H2'	29:D1:3024:A:C8	1.99	0.97
29:D1:504:A:H2	29:D1:587:U:C2	1.83	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:243:G:O6	1:C1:251:A:N6	1.95	0.97
29:B1:1186:G:H2'	29:B1:1187:C:H5'	1.43	0.97
1:C1:1092:A:C4	1:C1:1094:G:C8	2.53	0.97
29:B1:588:G:H4'	29:B1:589:A:N7	1.80	0.96
29:B1:754:G:H22	29:B1:778:U:H3	1.05	0.96
31:B3:37:A:H61	31:B3:104:A:H2'	1.25	0.96
31:B3:104:A:H5''	31:B3:105:A:H8	1.30	0.96
29:D1:1303:A:C2	29:D1:2887:A:N1	2.33	0.96
29:B1:3218:A:O2'	29:B1:3219:G:H3'	1.64	0.96
29:B1:2523:A:C1'	29:B1:2524:A:H5'	1.95	0.96
30:D2:35:C:H42	30:D2:47:C:C1'	1.77	0.96
29:B1:3260:G:H3'	29:B1:3261:C:H5''	1.47	0.96
29:B1:623:U:H2'	29:B1:624:G:C8	1.99	0.96
29:B1:2324:A:H5''	29:B1:2325:G:OP2	1.63	0.96
29:B1:1901:A:H5''	29:B1:2919:A:OP1	1.64	0.96
1:C1:361:C:N3	1:C1:384:G:C2	2.33	0.96
1:C1:59:C:C5	1:C1:62:A:N6	2.33	0.96
29:D1:2168:A:C2	29:D1:2170:U:H1'	2.00	0.96
33:DB:182:ALA:O	33:DB:184:ARG:N	1.98	0.96
1:A1:173:A:H3'	1:A1:174:U:H5''	1.44	0.96
29:B1:1255:C:H2'	29:B1:1256:G:H4'	1.43	0.96
29:D1:3260:G:C2	29:D1:3261:C:H4'	2.00	0.96
29:B1:3391:A:C2'	29:B1:3392:U:H5''	1.94	0.96
29:D1:417:A:H2'	29:D1:418:A:H8	1.29	0.96
1:C1:743:U:N3	1:C1:809:A:N3	2.00	0.96
30:D2:64:A:N1	30:D2:111:U:O4	1.97	0.96
29:B1:3226:A:H2'	29:B1:3227:A:O4'	1.66	0.96
1:A1:1753:A:H61	1:A1:1754:A:N6	1.63	0.96
1:A1:489:C:O2	1:A1:498:G:N2	1.98	0.96
29:B1:1846:C:O2	29:B1:1846:C:H2'	1.62	0.96
29:B1:2285:C:H5	29:B1:2286:U:C2	1.83	0.96
29:B1:3377:G:C8	74:B1:3450:OHX:N4	2.33	0.96
29:D1:2113:A:H2'	29:D1:2114:C:H5'	1.43	0.96
1:A1:824:G:C4'	1:A1:825:U:H5'	1.96	0.96
1:A1:1420:C:C5	1:A1:1421:A:H8	1.82	0.96
29:D1:1687:U:H3'	29:D1:1687:U:OP1	1.64	0.96
36:DE:99:TYR:HA	36:DE:165:GLY:HA3	1.45	0.96
29:B1:625:G:H2'	29:B1:626:U:H6	1.27	0.96
18:CQ:41:ILE:HA	18:CQ:44:GLN:H	1.25	0.96
30:D2:92:A:H2'	30:D2:93:C:O4'	1.64	0.96
1:A1:96:G:H1	1:A1:387:A:N6	1.63	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3327:G:C5	29:B1:3328:G:N7	2.34	0.96
30:B2:11:A:H1'	30:B2:67:G:H21	1.27	0.96
20:CS:23:VAL:O	74:CS:101:OHX:N6	1.98	0.96
29:B1:3136:G:C5	29:B1:3137:C:C5	2.53	0.96
1:A1:1718:G:H2'	1:A1:1719:A:H5''	1.47	0.96
29:D1:3242:G:H22	29:D1:3244:A:H8	1.13	0.96
1:A1:1087:A:H3'	1:A1:1088:A:H8	1.30	0.96
1:C1:1099:U:C5	1:C1:1100:G:O6	2.18	0.96
1:C1:26:A:H2'	1:C1:27:U:C6	2.01	0.96
1:C1:629:U:H2'	1:C1:630:A:C8	2.00	0.96
29:D1:118:U:C4	29:D1:150:A:N6	2.32	0.96
29:D1:2224:A:H2'	29:D1:2225:U:O4'	1.63	0.96
29:D1:2616:C:H2'	29:D1:2617:U:H5'	1.48	0.96
29:D1:2777:G:N3	29:D1:2777:G:H2'	1.80	0.96
29:D1:278:U:H2'	29:D1:279:U:H6	1.28	0.96
29:D1:829:U:N3	29:D1:895:A:N6	2.14	0.96
34:DC:50:LYS:CB	34:DC:333:LYS:H	1.78	0.96
1:A1:264:G:H3'	1:A1:265:A:C5'	1.95	0.96
30:D2:74:C:O3'	74:D2:201:OHX:N1	1.98	0.96
31:D3:16:G:O6	74:D3:212:OHX:N3	1.97	0.96
29:D1:3215:A:O5'	29:D1:3218:A:H5''	1.64	0.96
1:C1:700:C:H2'	1:C1:701:U:H6	1.25	0.96
29:B1:1557:A:H2'	29:B1:1558:A:O4'	1.64	0.96
29:B1:2168:A:C2	29:B1:2170:U:H1'	2.01	0.96
29:B1:3122:A:H2'	29:B1:3123:A:C5'	1.95	0.96
29:B1:592:A:N9	29:B1:593:C:O4'	1.98	0.96
1:C1:452:A:H2'	1:C1:453:U:C5'	1.95	0.96
29:D1:2897:A:H2'	29:D1:2899:C:H5''	1.48	0.96
29:D1:2161:G:H5''	29:D1:2162:U:OP2	1.65	0.96
35:DD:148:ILE:HA	35:DD:149:PRO:O	1.66	0.96
1:C1:897:C:N3	1:C1:914:G:N2	2.12	0.96
47:BR:98:LYS:HA	47:BR:117:ALA:HB1	1.48	0.96
29:B1:150:A:C8	29:B1:151:A:N7	2.33	0.96
1:C1:1119:G:H2'	1:C1:1120:U:H6	1.27	0.96
29:D1:1464:G:N2	29:D1:1466:G:H3'	1.80	0.96
29:D1:257:U:H2'	29:D1:258:G:C8	2.00	0.96
29:D1:3099:C:O2'	29:D1:3100:U:H6	1.48	0.96
1:C1:249:U:H3'	1:C1:250:C:C5'	1.95	0.96
1:A1:1583:A:O2'	1:A1:1584:G:H5'	1.66	0.96
21:CT:180:ALA:HB3	21:CT:190:ALA:O	1.64	0.96
1:A1:44:U:H5'	1:A1:45:U:C5	2.01	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1879:A:H3'	29:D1:1879:A:OP2	1.65	0.96
29:D1:2847:A:H5'	29:D1:2848:G:OP2	1.65	0.96
1:C1:824:G:C4'	1:C1:825:U:H5'	1.96	0.96
29:D1:3201:C:H2'	29:D1:3202:G:C8	2.01	0.96
54:BY:111:LYS:HA	54:BY:128:ARG:CB	1.96	0.96
1:C1:489:C:O2	1:C1:498:G:N2	1.97	0.96
29:B1:1120:A:H5'	29:B1:1121:U:OP2	1.66	0.95
29:B1:3314:A:H2'	34:BC:119:TYR:N	1.81	0.95
29:B1:584:G:H2'	29:B1:585:A:H8	1.30	0.95
30:D2:12:U:C3'	30:D2:13:A:H2	1.77	0.95
1:C1:1274:C:H6	1:C1:1427:A:H62	1.12	0.95
29:B1:3232:G:N2	29:B1:3255:U:O2	1.96	0.95
29:D1:3261:C:P	29:D1:3262:U:OP1	2.24	0.95
30:B2:2:G:H1	30:B2:119:U:H3	1.03	0.95
1:C1:1784:C:H2'	1:C1:1785:U:H6	1.27	0.95
29:B1:576:C:C2'	29:B1:577:C:H5''	1.96	0.95
29:B1:595:G:H1	29:B1:609:G:C4'	1.78	0.95
29:B1:715:A:H2	29:B1:784:A:C4'	1.78	0.95
29:D1:1660:C:O2'	29:D1:1661:G:H5''	1.64	0.95
29:D1:2628:A:H1'	29:D1:2798:C:C4	2.01	0.95
29:D1:606:C:C4	29:D1:607:A:C6	2.54	0.95
1:A1:836:U:H2'	1:A1:837:G:C8	2.02	0.95
36:DE:141:PRO:CB	36:DE:142:PHE:HA	1.96	0.95
45:BP:8:VAL:HA	45:BP:34:VAL:O	1.65	0.95
1:A1:400:A:H4'	1:A1:401:A:H5'	1.47	0.95
29:B1:1331:U:H4'	29:B1:1332:A:OP2	1.65	0.95
29:B1:826:G:H21	29:B1:1589:A:H62	1.14	0.95
1:C1:480:G:H22	1:C1:508:U:H3	1.12	0.95
29:D1:1479:U:H3'	29:D1:1480:G:H5''	0.96	0.95
30:B2:63:A:H3'	30:B2:64:A:H5''	0.98	0.95
30:D2:12:U:C5'	30:D2:68:C:O2'	2.14	0.95
1:A1:1350:U:OP2	1:A1:1351:G:H8	1.49	0.95
1:A1:1092:A:C4	1:A1:1094:G:C8	2.54	0.95
29:B1:1303:A:C8	29:B1:1304:A:C6	2.53	0.95
29:B1:1479:U:H3'	29:B1:1480:G:H5''	0.95	0.95
29:B1:819:U:H2'	29:B1:820:A:H8	1.31	0.95
29:D1:2698:G:H2'	29:D1:2699:G:H5''	1.46	0.95
29:B1:1464:G:N2	29:B1:1466:G:H3'	1.82	0.95
1:A1:1752:U:H2'	1:A1:1753:A:H8	1.23	0.95
29:B1:3392:U:C2	29:B1:3393:U:C4	2.54	0.95
29:B1:531:G:H2'	29:B1:532:A:C8	2.00	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1018:U:H2'	1:C1:1019:A:C8	2.00	0.95
1:C1:394:C:H2'	1:C1:395:U:H5'	1.49	0.95
29:D1:644:G:H4'	29:D1:1153:A:H2	0.79	0.95
29:D1:1786:G:H2'	29:D1:1787:A:C8	2.01	0.95
29:D1:3391:A:C2'	29:D1:3392:U:H5''	1.95	0.95
29:D1:556:U:H2'	29:D1:557:A:C1'	1.97	0.95
1:A1:827:C:C2	1:A1:846:G:O6	2.17	0.95
29:D1:3215:A:O5'	29:D1:3218:A:O4'	1.83	0.95
29:B1:132:C:H2'	29:B1:132:C:O2	1.65	0.95
29:D1:2501:U:H4'	29:D1:2502:A:OP1	1.66	0.95
29:B1:1660:C:O2'	29:B1:1661:G:H5''	1.66	0.95
29:B1:3387:U:H2'	29:B1:3388:C:C5	2.01	0.95
1:A1:264:G:H3'	1:A1:265:A:H5'	1.46	0.95
30:D2:12:U:C3'	30:D2:13:A:C2	2.49	0.95
1:C1:1350:U:OP2	1:C1:1351:G:H8	1.47	0.95
29:B1:3201:C:H2'	29:B1:3202:G:C8	2.00	0.95
1:A1:1753:A:N6	1:A1:1754:A:N6	2.13	0.95
47:BR:117:ALA:HB3	47:BR:118:GLY:HA2	1.47	0.95
1:A1:1007:C:O2	1:A1:1007:C:H2'	1.67	0.95
29:B1:1297:C:H2'	29:B1:1298:C:H5'	1.49	0.95
29:B1:2362:C:N4	29:B1:2376:G:O6	1.98	0.95
29:B1:42:C:H2'	29:B1:43:A:H5''	0.97	0.95
1:C1:142:G:N1	1:C1:173:A:N1	2.00	0.95
29:D1:3392:U:C4	29:D1:3393:U:O4	2.19	0.95
30:B2:9:C:C2'	30:B2:13:A:H62	1.78	0.95
1:A1:1227:A:H4'	1:A1:1230:A:C6	2.01	0.95
29:D1:1628:C:O2'	29:D1:1630:U:H5'	1.64	0.95
29:D1:645:A:C8	29:D1:649:A:N6	2.34	0.95
9:AH:100:ALA:O	9:AH:104:ALA:HB2	1.67	0.95
29:B1:3006:A:N1	29:B1:3143:C:O2'	2.00	0.95
29:B1:611:A:OP1	29:B1:611:A:H4'	1.64	0.95
29:B1:3150:A:H5''	34:BC:134:SER:HA	1.48	0.95
34:DC:51:ALA:HB3	34:DC:78:VAL:O	1.67	0.95
35:BD:63:GLU:O	35:BD:75:PRO:HA	1.67	0.95
29:B1:3022:G:O2'	29:B1:3023:U:OP2	1.83	0.95
36:BE:111:GLN:H	36:BE:114:GLY:C	1.70	0.95
1:A1:1022:C:H4'	1:A1:1124:A:N6	1.81	0.95
29:D1:1011:A:H61	29:D1:1039:U:H3	0.99	0.95
29:B1:26:A:H2'	29:B1:27:C:C6	2.01	0.95
29:B1:2276:G:C5	29:B1:2277:C:C5	2.55	0.95
29:B1:518:G:H22	29:B1:572:A:H61	1.09	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:596:C:H3'	29:B1:596:C:O2	1.66	0.95
29:B1:726:G:N3	29:B1:744:A:C6	2.34	0.95
31:B3:40:A:H8	31:B3:40:A:H5'	1.31	0.95
29:D1:1903:U:O2	29:D1:1905:G:H5''	1.66	0.95
29:D1:2223:A:O2'	29:D1:2224:A:H8	1.47	0.95
29:D1:423:A:H2'	29:D1:424:G:C8	2.02	0.95
29:D1:504:A:H8	29:D1:504:A:H3'	1.30	0.95
30:B2:7:G:H1	30:B2:114:U:H3	1.13	0.95
30:B2:12:U:C5'	30:B2:68:C:O2'	2.15	0.95
29:D1:72:C:C3'	29:D1:73:C:H5'	1.96	0.95
29:D1:3006:A:N1	29:D1:3143:C:O2'	1.98	0.95
29:B1:2092:A:H3'	29:B1:2093:A:H5''	1.47	0.95
1:C1:1129:U:H5''	1:C1:1130:G:OP2	1.65	0.95
36:DE:43:LYS:H	49:DT:69:LYS:CB	1.79	0.95
29:B1:953:G:H4'	29:B1:954:U:C6	2.02	0.95
29:D1:1593:A:H2'	29:D1:1594:A:C8	2.01	0.95
29:D1:551:A:H2'	29:D1:552:G:O4'	1.66	0.95
1:C1:340:U:H3'	1:C1:341:A:H8	1.32	0.95
1:A1:1600:A:O2'	1:A1:1602:C:H5	1.48	0.95
29:B1:3172:A:H1'	29:B1:3173:G:N7	1.82	0.95
29:D1:3201:C:H6	29:D1:3201:C:OP1	1.48	0.95
30:D2:28:C:H5''	30:D2:29:C:OP2	1.66	0.95
29:D1:3242:G:N2	29:D1:3245:A:N7	2.14	0.95
29:B1:3261:C:P	29:B1:3262:U:OP1	2.24	0.95
29:B1:1667:A:H2'	29:B1:1668:G:C8	2.00	0.95
1:A1:524:U:H2'	1:A1:527:A:C2	2.02	0.94
29:B1:13:A:C2	29:B1:15:C:H5'	2.02	0.94
29:B1:524:U:H2'	29:B1:525:C:C6	2.01	0.94
29:D1:2992:U:H2'	29:D1:2993:G:C5'	1.96	0.94
29:D1:811:U:H2'	29:D1:812:G:H8	1.25	0.94
29:D1:966:U:H2'	29:D1:967:A:C8	2.01	0.94
29:D1:3198:U:H2'	29:D1:3199:G:C8	2.02	0.94
41:BJ:89:VAL:O	41:BJ:136:PHE:HA	1.67	0.94
29:B1:1838:G:H5''	29:B1:1839:A:OP1	1.66	0.94
29:B1:3330:A:H2'	29:B1:3331:U:C6	2.03	0.94
29:B1:3393:U:O2'	29:B1:3394:U:H5'	1.65	0.94
29:D1:1129:A:H2'	29:D1:1130:A:H5'	1.47	0.94
29:D1:3324:C:H2'	29:D1:3325:G:H8	1.32	0.94
29:B1:2699:G:H5'	29:B1:2699:G:C8	2.02	0.94
29:D1:3278:C:H5''	29:D1:3279:A:OP2	1.66	0.94
43:DN:33:ALA:HB1	43:DN:48:GLY:H	1.32	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:96:G:H1	1:A1:387:A:H61	0.97	0.94
29:B1:118:U:C4	29:B1:150:A:N6	2.34	0.94
29:B1:3144:G:C4'	29:B1:3145:C:OP2	2.16	0.94
29:B1:3300:U:C6	29:B1:3300:U:OP2	2.20	0.94
29:B1:591:G:H21	29:B1:592:A:C1'	1.80	0.94
1:C1:16:G:H2'	1:C1:17:C:C6	2.01	0.94
29:D1:1560:G:N1	29:D1:1579:C:O2	2.00	0.94
29:D1:3064:U:O2'	29:D1:3065:G:H5'	1.67	0.94
29:D1:3307:A:H8	29:D1:3307:A:O5'	1.47	0.94
29:D1:3389:U:H4'	29:D1:3390:G:H5''	1.46	0.94
29:D1:706:A:C5	29:D1:714:G:N2	2.36	0.94
29:D1:761:A:N1	29:D1:770:G:N2	2.15	0.94
31:B3:55:U:H2'	31:B3:56:G:H8	1.32	0.94
1:A1:336:G:H2'	1:A1:337:G:H5''	1.48	0.94
29:B1:3278:C:H5''	29:B1:3279:A:OP2	1.67	0.94
31:B3:128:U:H5''	31:B3:129:C:H5	1.31	0.94
29:D1:1264:G:H2'	29:D1:1264:G:OP2	1.67	0.94
29:B1:1063:G:H5'	29:B1:1098:A:P	2.07	0.94
29:B1:2361:A:N6	29:B1:2377:G:O6	2.00	0.94
29:B1:3099:C:O2'	29:B1:3100:U:H6	1.49	0.94
29:B1:16:A:H61	31:B3:143:U:H3	1.08	0.94
29:D1:963:G:H8	29:D1:963:G:H5'	1.28	0.94
30:D2:98:C:H5'	30:D2:99:G:OP2	1.66	0.94
1:A1:73:U:O4	1:A1:80:A:N6	1.98	0.94
1:C1:1753:A:N6	1:C1:1754:A:N6	2.15	0.94
1:A1:557:G:O2'	1:A1:558:U:H4'	1.64	0.94
29:B1:1495:U:H5''	29:B1:1496:C:C5	2.01	0.94
29:B1:327:A:H2	29:B1:328:U:C4	1.85	0.94
29:B1:3324:C:H2'	29:B1:3325:G:H8	1.30	0.94
29:B1:591:G:C2	29:B1:592:A:N9	2.36	0.94
29:D1:1557:A:H2'	29:D1:1558:A:O4'	1.68	0.94
29:D1:2417:U:C5	29:D1:2606:G:N7	2.34	0.94
29:D1:264:G:C6	29:D1:265:A:C6	2.55	0.94
29:D1:584:G:H2'	29:D1:585:A:C8	2.03	0.94
29:B1:2689:A:N3	29:B1:2702:A:C2	2.36	0.94
29:B1:3215:A:O5'	29:B1:3218:A:H5''	1.66	0.94
2:AA:177:LEU:O	2:AA:181:VAL:CB	2.14	0.94
20:CS:49:ASP:N	20:CS:50:ILE:HA	1.74	0.94
29:D1:1063:G:H1'	29:D1:1064:A:O5'	1.68	0.94
29:B1:342:A:H4'	29:B1:344:A:N7	1.83	0.94
29:B1:2173:U:H2'	29:B1:2174:G:C8	2.03	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1657:U:H4'	1:A1:1658:G:O5'	1.64	0.94
29:D1:993:G:N2	29:D1:2637:A:H3'	1.81	0.94
29:B1:1593:A:H2'	29:B1:1594:A:C8	2.03	0.94
29:D1:3242:G:N1	29:D1:3244:A:H2'	1.82	0.94
1:C1:1752:U:H2'	1:C1:1753:A:C8	2.00	0.94
29:B1:1648:A:H2'	29:B1:1649:U:O4'	1.67	0.94
1:A1:938:G:N2	1:A1:942:G:C4	2.35	0.94
29:B1:1213:G:H5'	29:B1:1213:G:H8	1.30	0.94
29:B1:1607:U:H1'	29:B1:1608:C:OP1	1.68	0.94
29:B1:35:A:H1'	29:B1:810:A:O2'	1.67	0.94
29:B1:517:G:H8	29:B1:517:G:OP2	1.49	0.94
29:B1:518:G:OP2	29:B1:518:G:H8	1.50	0.94
29:B1:3140:G:H8	29:B1:3140:G:H5''	1.30	0.94
29:B1:432:G:H2'	29:B1:433:A:H8	1.32	0.94
29:D1:1340:G:H2'	29:D1:1341:U:C6	2.03	0.94
29:D1:2285:C:H5	29:D1:2286:U:C2	1.85	0.94
29:D1:2293:C:H5	29:D1:2294:U:H5	1.14	0.94
29:D1:2826:U:O2'	29:D1:2827:U:H5'	1.68	0.94
29:D1:1303:A:H8	29:D1:1304:A:C5	1.84	0.94
1:C1:1644:C:O2'	29:D1:2262:A:C8	2.20	0.94
29:D1:3078:U:H4'	29:D1:3079:U:O5'	1.67	0.94
29:D1:518:G:OP2	29:D1:518:G:H8	1.50	0.94
31:D3:132:G:H2'	31:D3:133:G:H8	1.32	0.94
31:D3:37:A:H61	31:D3:104:A:H2'	1.30	0.94
1:A1:1348:A:C5'	15:AN:12:GLN:H	1.81	0.94
2:CA:177:LEU:O	2:CA:181:VAL:CB	2.15	0.94
36:DE:111:GLN:H	36:DE:114:GLY:C	1.70	0.94
30:D2:95:A:H2'	30:D2:96:U:C6	2.02	0.94
29:B1:2883:U:H2'	29:B1:2884:C:H6	1.29	0.94
29:B1:1011:A:H61	29:B1:1039:U:H3	1.04	0.94
1:A1:16:G:H2'	1:A1:17:C:C6	2.03	0.94
29:B1:644:G:C4'	29:B1:1153:A:H2	1.81	0.94
29:B1:2252:A:H2'	29:B1:2253:G:H8	1.33	0.94
29:B1:3127:A:H3'	29:B1:3128:G:H8	1.32	0.94
29:B1:980:A:H61	29:B1:1104:G:H8	1.03	0.94
1:C1:62:A:C2	1:C1:63:G:N7	2.36	0.94
1:C1:827:C:H2'	1:C1:828:U:C2	2.03	0.94
1:A1:87:C:H3'	1:A1:88:U:H5''	1.48	0.94
1:A1:1480:G:H5'	1:A1:1480:G:H8	1.30	0.94
1:A1:1573:A:H4'	1:A1:1574:G:C5'	1.97	0.94
31:B3:129:C:H2'	31:B3:130:C:C6	2.03	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2583:C:H2'	29:B1:2584:G:C8	2.02	0.94
1:A1:606:A:C8	1:A1:608:U:H5	1.86	0.94
29:B1:2946:A:C4	29:B1:2982:A:N6	2.35	0.94
29:B1:514:G:H2'	29:B1:515:C:C2	2.03	0.94
29:B1:754:G:N2	29:B1:778:U:H3	1.66	0.94
29:D1:1495:U:H5''	29:D1:1496:C:C5	2.02	0.94
29:D1:2146:C:H2'	29:D1:2147:A:C5'	1.98	0.94
29:D1:2689:A:H4'	29:D1:2690:G:H5'	1.45	0.94
29:D1:3011:A:C8	29:D1:3012:A:H1'	2.01	0.94
29:D1:342:A:H4'	29:D1:344:A:N7	1.83	0.94
38:DG:80:GLN:HA	38:DG:81:HIS:CB	1.97	0.94
1:A1:151:G:H1	1:A1:163:G:H22	1.10	0.94
29:D1:2680:A:OP2	29:D1:2681:U:C5	2.21	0.94
1:C1:1573:A:H4'	1:C1:1574:G:C5'	1.98	0.94
1:C1:1590:G:H2'	1:C1:1591:C:C5	2.03	0.94
1:A1:1484:G:H21	1:A1:1606:C:H1'	1.32	0.94
6:CE:114:TYR:HA	6:CE:119:ALA:HB3	1.50	0.94
29:B1:1063:G:H1'	29:B1:1064:A:O5'	1.68	0.94
1:C1:921:U:H2'	1:C1:922:G:H8	1.32	0.94
39:BH:99:PRO:CB	39:BH:237:ILE:H	1.81	0.94
29:B1:591:G:C2	29:B1:592:A:C4	2.56	0.93
1:C1:1099:U:O2'	1:C1:1100:G:C4	2.21	0.93
1:C1:129:U:C5	1:C1:264:G:C5	2.56	0.93
1:C1:1564:U:H2'	1:C1:1565:C:C6	2.03	0.93
29:D1:3233:C:H2'	29:D1:3234:A:C8	2.03	0.93
29:D1:3264:G:H2'	29:D1:3265:C:H5''	1.49	0.93
29:D1:2513:U:H1'	29:D1:2514:U:OP1	1.69	0.93
29:B1:1191:U:OP2	29:B1:1192:C:C5	2.21	0.93
29:B1:1416:C:H2'	29:B1:1416:C:O2	1.69	0.93
29:B1:3386:G:H2'	29:B1:3387:U:C6	2.03	0.93
29:B1:421:G:H8	29:B1:421:G:H3'	1.28	0.93
34:BC:118:PHE:HA	34:BC:119:TYR:CB	1.95	0.93
1:C1:1007:C:H2'	1:C1:1007:C:O2	1.66	0.93
1:C1:125:U:O2'	1:C1:126:A:H5'	1.66	0.93
29:D1:1157:G:H2'	29:D1:1158:A:O4'	1.68	0.93
29:D1:3136:G:C5	29:D1:3137:C:C5	2.56	0.93
35:DD:12:THR:CB	35:DD:13:GLY:HA3	1.98	0.93
1:A1:59:C:C5	1:A1:62:A:N6	2.36	0.93
1:A1:40:A:H2'	1:A1:41:A:C8	2.04	0.93
29:B1:722:G:N2	29:B1:748:U:O2	2.01	0.93
1:C1:171:A:O2'	1:C1:172:C:H5''	1.67	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:638:U:H3'	1:C1:639:U:H5'	1.47	0.93
29:D1:1223:A:N1	29:D1:1285:G:H5''	1.82	0.93
29:D1:2850:G:OP1	29:D1:2850:G:H4'	1.66	0.93
29:D1:3114:A:N7	29:D1:3115:C:C5	2.36	0.93
29:B1:2698:G:C2'	29:B1:2699:G:H5''	1.98	0.93
31:B3:132:G:H2'	31:B3:133:G:C8	2.03	0.93
1:C1:1291:G:H22	1:C1:1324:G:H1	1.03	0.93
29:B1:2353:G:C6	29:B1:2354:C:H5	1.85	0.93
1:A1:1018:U:H2'	1:A1:1019:A:C8	2.02	0.93
50:BU:80:ARG:O	50:BU:98:ASN:HA	1.68	0.93
29:B1:346:C:N4	29:B1:348:A:H3'	1.84	0.93
29:D1:2151:C:C6	29:D1:2151:C:H5'	2.02	0.93
37:DF:56:LYS:CB	37:DF:63:LEU:HA	1.98	0.93
29:D1:2680:A:H61	42:DK:56:THR:C	1.71	0.93
31:B3:129:C:H2'	31:B3:130:C:H6	1.30	0.93
29:B1:72:C:C3'	29:B1:73:C:H5'	1.97	0.93
1:A1:868:G:H1	1:A1:960:U:H3	1.05	0.93
1:C1:25:C:C4	1:C1:367:A:H1'	2.03	0.93
29:D1:1157:G:H5'	29:D1:1157:G:C8	2.03	0.93
29:D1:1157:G:H5'	29:D1:1157:G:H8	1.31	0.93
29:D1:1793:C:H1'	29:D1:1794:G:OP1	1.68	0.93
29:D1:3135:U:C5	29:D1:3136:G:C5	2.55	0.93
31:D3:128:U:H5''	31:D3:129:C:H5	1.30	0.93
45:BP:124:LEU:CA	45:BP:126:VAL:N	2.32	0.93
1:C1:1160:A:H2'	1:C1:1161:C:H6	1.33	0.93
1:C1:1160:A:H2'	1:C1:1161:C:C6	2.02	0.93
1:C1:1198:G:H3'	1:C1:1199:G:C5'	1.97	0.93
29:B1:3198:U:H3'	29:B1:3199:G:H8	1.31	0.93
29:B1:3274:A:C8	29:B1:3275:U:H2'	2.04	0.93
29:B1:2501:U:H4'	29:B1:2502:A:OP1	1.66	0.93
30:D2:2:G:H1	30:D2:119:U:H3	1.09	0.93
29:B1:1495:U:C2	29:B1:1842:A:H2	1.86	0.93
29:B1:3078:U:H4'	29:B1:3079:U:O5'	1.67	0.93
1:C1:23:G:H1'	1:C1:368:U:H5'	1.51	0.93
29:D1:1478:C:H2'	29:D1:1479:U:C6	2.04	0.93
29:D1:3149:G:C2	29:D1:3150:A:C1'	2.51	0.93
29:B1:2703:A:H5''	29:B1:2704:A:H5'	1.46	0.93
30:D2:12:U:C5'	30:D2:68:C:H1'	1.96	0.93
1:C1:1484:G:H21	1:C1:1606:C:H1'	1.34	0.93
1:A1:638:U:H3'	1:A1:639:U:H5'	1.50	0.93
46:BQ:76:PHE:HA	46:BQ:78:VAL:H	1.30	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2537:U:H3	29:D1:2542:U:H3	1.11	0.93
29:B1:1189:C:H4'	29:B1:1192:C:H5	1.31	0.93
29:B1:504:A:H2	29:B1:587:U:N3	1.65	0.93
1:C1:1109:G:H1	1:C1:1136:U:H3	0.93	0.93
29:D1:1504:A:H2'	29:D1:1505:C:H6	1.33	0.93
29:D1:575:G:C8	29:D1:575:G:H5'	2.04	0.93
1:A1:827:C:C4	1:A1:846:G:O6	2.20	0.93
29:B1:2650:U:H5''	29:B1:2651:G:OP2	1.68	0.93
30:B2:12:U:H3'	30:B2:13:A:H2	0.82	0.93
1:C1:250:C:HO2'	1:C1:251:A:H5'	1.30	0.93
1:C1:1200:G:H4'	1:C1:1201:G:OP2	1.66	0.93
29:B1:3242:G:H22	29:B1:3244:A:H8	1.06	0.93
1:A1:978:A:N6	1:A1:1024:U:N3	2.17	0.93
29:B1:1129:A:C6	29:B1:1130:A:C6	2.57	0.93
29:B1:1190:A:H2	29:B1:1191:U:H6	1.10	0.93
29:B1:264:G:H3'	29:B1:265:A:C8	2.04	0.93
29:B1:286:U:H2'	29:B1:287:G:H8	1.12	0.93
29:B1:3013:U:H4'	29:B1:3013:U:OP1	1.67	0.93
29:B1:421:G:H21	29:B1:2365:C:H1'	1.30	0.93
29:B1:504:A:C8	29:B1:504:A:H3'	2.03	0.93
29:B1:86:G:H22	29:B1:98:G:H2'	1.31	0.93
29:D1:1194:G:H4'	29:D1:1320:C:OP1	1.67	0.93
29:D1:1504:A:H3'	29:D1:1505:C:H5''	1.48	0.93
29:D1:2144:A:C2	29:D1:2281:A:C5	2.57	0.93
29:D1:406:G:H1'	31:D3:16:G:H22	1.31	0.93
29:D1:334:A:H2'	29:D1:335:G:C8	2.04	0.93
29:D1:3172:A:H1'	29:D1:3173:G:N7	1.82	0.93
29:D1:3222:U:H3	29:D1:3263:G:H1	0.97	0.93
46:DQ:76:PHE:HA	46:DQ:78:VAL:N	1.84	0.93
1:A1:1649:G:H2'	1:A1:1650:U:C6	2.03	0.93
29:B1:1628:C:H4'	29:B1:1630:U:H2'	1.50	0.93
29:D1:3271:G:C2	29:D1:3272:C:OP1	2.21	0.93
29:B1:7:C:H3'	29:B1:7:C:O2	1.69	0.93
43:BN:76:ALA:HA	43:BN:79:ALA:HB3	1.49	0.93
29:D1:363:G:C2'	29:D1:364:G:H5''	1.98	0.93
29:D1:822:G:H2'	29:D1:823:C:H6	1.34	0.93
1:C1:973:A:C1'	29:D1:847:A:C2	2.51	0.93
1:C1:1204:A:C3'	1:C1:1205:C:H5''	1.99	0.93
1:C1:1480:G:H5'	1:C1:1480:G:C8	2.03	0.93
30:D2:35:C:N4	30:D2:47:C:H1'	1.83	0.93
29:D1:1274:A:H2'	29:D1:1275:C:H5''	1.47	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2173:U:H2'	29:B1:2174:G:H8	1.33	0.93
1:A1:921:U:O2'	1:A1:922:G:H5'	1.67	0.93
29:B1:2251:G:H1'	29:B1:2252:A:OP1	1.68	0.93
29:B1:2396:G:O2'	29:B1:2398:A:H4'	1.69	0.93
1:C1:394:C:H42	1:C1:401:A:N6	1.67	0.93
1:C1:448:C:H2'	1:C1:449:C:H6	1.12	0.93
29:D1:1846:C:O2	29:D1:1846:C:H2'	1.68	0.93
29:D1:562:C:H2'	29:D1:563:U:H6	1.34	0.93
29:D1:826:G:HO2'	29:D1:1589:A:H8	1.11	0.93
31:D3:65:A:H2'	31:D3:66:A:C8	2.04	0.93
29:B1:3201:C:OP1	29:B1:3201:C:C6	2.21	0.93
36:DE:134:ALA:HB3	36:DE:136:GLU:H	1.33	0.93
3:AB:219:GLY:O	3:AB:221:THR:N	2.01	0.93
29:D1:2120:A:O2'	29:D1:2121:G:O5'	1.85	0.93
1:A1:594:A:H4'	1:A1:595:G:H5'	1.51	0.92
29:B1:1560:G:N1	29:B1:1579:C:C2	2.37	0.92
29:B1:1903:U:O2	29:B1:1905:G:H5''	1.68	0.92
29:D1:1653:G:H2'	29:D1:1654:A:H5'	1.50	0.92
29:D1:2252:A:H2'	29:D1:2253:G:C8	2.04	0.92
29:D1:2315:G:C2	29:D1:2316:G:N7	2.37	0.92
29:D1:425:G:H5''	29:D1:425:G:C8	2.04	0.92
29:D1:750:G:H2'	29:D1:751:A:H8	1.34	0.92
1:C1:1347:U:H4'	1:C1:1348:A:OP2	1.67	0.92
29:D1:3262:U:OP2	29:D1:3262:U:H6	1.51	0.92
31:B3:132:G:H2'	31:B3:133:G:H8	1.31	0.92
34:DC:118:PHE:HA	34:DC:119:TYR:CB	1.97	0.92
29:B1:3260:G:C2	29:B1:3261:C:H4'	2.03	0.92
29:B1:249:U:H4'	29:B1:250:U:OP1	1.68	0.92
29:B1:2850:G:OP1	29:B1:2850:G:H4'	1.69	0.92
1:C1:44:U:C5'	1:C1:45:U:H5	1.83	0.92
29:D1:1941:C:H42	29:D1:2107:A:H61	1.16	0.92
29:D1:3104:U:H2'	29:D1:3105:U:H5'	1.48	0.92
1:C1:243:G:N1	1:C1:251:A:N1	2.17	0.92
1:C1:1457:C:C5	1:C1:1559:A:N6	2.36	0.92
1:C1:1560:U:H2'	1:C1:1560:U:O2	1.65	0.92
29:B1:2754:G:C3'	29:B1:2755:C:H5'	1.99	0.92
29:D1:1278:A:O2'	29:D1:1279:C:H6	1.51	0.92
13:CL:37:GLY:HA3	13:CL:102:ALA:HA	1.50	0.92
1:A1:1099:U:O2'	1:A1:1100:G:C4	2.21	0.92
29:B1:153:U:H4'	29:B1:158:G:H21	1.34	0.92
29:B1:1481:A:O2'	29:B1:1858:A:H2'	1.70	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2268:U:H2'	29:B1:2269:U:H5	1.33	0.92
29:B1:22:G:C4	29:B1:23:A:C8	2.56	0.92
29:B1:3299:A:O2'	29:B1:3300:U:P	2.28	0.92
29:B1:360:G:C6	29:B1:361:A:N6	2.38	0.92
1:C1:199:G:HO2'	1:C1:200:A:H8	1.04	0.92
1:C1:609:U:H5''	1:C1:610:G:C5	2.03	0.92
29:D1:1405:U:H2'	29:D1:1406:A:H8	1.35	0.92
29:D1:3137:C:H2'	29:D1:3137:C:O2	1.69	0.92
30:D2:11:A:H1'	30:D2:67:G:H21	1.32	0.92
6:AE:114:TYR:HA	6:AE:119:ALA:HB3	1.50	0.92
29:B1:3264:G:H2'	29:B1:3265:C:H5''	1.51	0.92
29:D1:1678:G:H2'	29:D1:1679:A:C8	2.05	0.92
1:C1:1280:C:H2'	1:C1:1281:G:C8	2.04	0.92
29:B1:118:U:H3	29:B1:150:A:N6	1.66	0.92
29:B1:591:G:H21	29:B1:592:A:H1'	1.24	0.92
1:C1:1626:U:C2'	1:C1:1627:U:H5'	1.98	0.92
31:D3:14:C:H3'	31:D3:15:G:H8	1.33	0.92
36:DE:28:THR:C	36:DE:30:TYR:H	1.65	0.92
30:D2:74:C:O3'	74:D2:201:OHX:N4	2.00	0.92
1:A1:1250:U:C4	1:A1:1251:U:O4	2.22	0.92
1:A1:1600:A:H4'	1:A1:1600:A:OP1	1.67	0.92
29:B1:3210:A:C3'	29:B1:3211:C:C6	2.53	0.92
29:D1:2523:A:C1'	29:D1:2524:A:H5'	1.99	0.92
29:D1:2129:U:H2'	29:D1:2130:G:C8	2.03	0.92
29:D1:2092:A:H3'	29:D1:2093:A:H5''	1.49	0.92
29:D1:132:C:H2'	29:D1:132:C:O2	1.66	0.92
47:BR:154:GLY:H	47:BR:155:MET:HA	1.30	0.92
29:B1:2537:U:H3	29:B1:2542:U:H3	1.10	0.92
1:A1:546:U:H2'	1:A1:547:U:C6	2.04	0.92
29:B1:1941:C:H42	29:B1:2107:A:N6	1.68	0.92
29:B1:2147:A:H5'	29:B1:2147:A:H8	1.34	0.92
29:B1:325:A:H3'	29:B1:327:A:OP1	1.69	0.92
29:B1:592:A:H2'	29:B1:593:C:C2'	1.99	0.92
29:B1:3044:G:O3'	34:BC:12:GLY:HA2	1.69	0.92
1:C1:394:C:H42	1:C1:401:A:H62	0.95	0.92
1:C1:73:U:O4	1:C1:80:A:N6	2.02	0.92
29:D1:3047:U:C2	29:D1:3048:A:H2	1.82	0.92
31:D3:129:C:H2'	31:D3:130:C:H6	1.33	0.92
1:C1:1458:G:N3	1:C1:1458:G:H2'	1.82	0.92
29:B1:1697:A:C2'	29:B1:1698:C:H5'	1.99	0.92
30:D2:91:G:H2'	30:D2:92:A:H8	1.31	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DH:99:PRO:CB	39:DH:237:ILE:H	1.82	0.92
29:B1:100:A:H2'	29:B1:101:G:C8	2.05	0.92
29:B1:784:A:H3'	29:B1:785:G:H5''	1.50	0.92
1:C1:938:G:N2	1:C1:942:G:C4	2.38	0.92
29:D1:1503:A:C3'	29:D1:1504:A:H5''	1.99	0.92
29:D1:155:G:N7	29:D1:157:A:C2	2.38	0.92
29:D1:512:U:C2	29:D1:579:G:C2	2.58	0.92
1:A1:322:G:C4'	1:A1:323:A:OP1	2.17	0.92
36:DE:159:VAL:O	36:DE:161:GLY:N	2.03	0.92
36:BE:42:ALA:HB1	49:BT:69:LYS:CB	2.00	0.92
1:A1:394:C:H2'	1:A1:395:U:H5'	1.52	0.92
29:B1:518:G:N2	29:B1:572:A:H61	1.67	0.92
29:B1:578:A:O2'	29:B1:579:G:OP2	1.87	0.92
29:B1:727:G:N2	29:B1:741:U:H3	1.67	0.92
29:D1:826:G:O2'	29:D1:1589:A:H8	1.52	0.92
29:D1:22:G:C4	29:D1:23:A:C8	2.58	0.92
29:D1:3334:U:H5'	29:D1:3371:G:N2	1.83	0.92
29:D1:421:G:C8	29:D1:421:G:C3'	2.52	0.92
30:D2:98:C:H3'	30:D2:99:G:H5''	1.50	0.92
1:C1:836:U:H2'	1:C1:837:G:C8	2.04	0.92
1:C1:250:C:H2'	1:C1:251:A:C8	2.05	0.92
1:A1:243:G:C2	1:A1:251:A:C6	2.57	0.92
1:A1:1203:A:H2	1:A1:1556:A:H1'	1.35	0.92
35:BD:12:THR:CB	35:BD:13:GLY:HA3	1.99	0.92
32:BA:67:ILE:HA	32:BA:112:ALA:HB2	1.52	0.92
29:D1:7:C:H3'	29:D1:7:C:O2	1.68	0.92
29:B1:1947:G:H5''	29:B1:1948:G:OP2	1.69	0.92
11:CJ:93:HIS:CB	11:CJ:94:GLN:HA	2.00	0.92
1:A1:540:G:C1'	1:A1:541:A:OP1	2.18	0.92
29:B1:1503:A:C8	29:B1:1503:A:H5''	2.04	0.92
29:B1:2147:A:H8	29:B1:2147:A:C5'	1.83	0.92
29:B1:2417:U:C5	29:B1:2606:G:N7	2.37	0.92
1:C1:540:G:C1'	1:C1:541:A:OP1	2.16	0.92
1:C1:61:A:H4'	1:C1:62:A:H5'	1.50	0.92
29:D1:2268:U:H2'	29:D1:2269:U:H5	1.34	0.92
29:D1:286:U:H2'	29:D1:287:G:H8	1.28	0.92
29:D1:585:A:H5''	29:D1:586:C:OP2	1.69	0.92
29:D1:975:C:H2'	29:D1:976:U:C6	2.05	0.92
1:A1:173:A:C5	1:A1:174:U:H6	1.82	0.92
1:A1:126:A:N1	1:A1:292:U:H1'	1.84	0.92
1:C1:1600:A:H4'	1:C1:1600:A:OP1	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:35:VAL:O	45:BP:104:VAL:HA	1.67	0.92
35:BD:148:ILE:HA	35:BD:149:PRO:O	1.69	0.92
5:CD:161:ASP:HA	5:CD:162:VAL:CB	1.99	0.92
1:A1:468:A:N6	1:A1:595:G:C5	2.38	0.92
29:B1:186:U:H5''	29:B1:187:A:OP2	1.69	0.92
29:D1:3303:G:H1'	29:D1:3304:U:C5'	1.99	0.92
29:D1:421:G:N2	29:D1:2365:C:H1'	1.85	0.92
29:D1:42:C:C2'	29:D1:43:A:H5''	1.96	0.92
29:D1:556:U:H2'	29:D1:557:A:H1'	1.50	0.92
1:C1:1227:A:H4'	1:C1:1230:A:C6	2.04	0.92
1:A1:1592:A:H2'	1:A1:1593:A:H8	1.35	0.92
29:B1:3198:U:H2'	29:B1:3199:G:C8	2.05	0.92
29:D1:209:A:O2'	29:D1:210:U:C2	2.21	0.92
29:D1:3242:G:C1'	29:D1:3246:G:H22	1.83	0.92
1:A1:986:G:H1'	1:A1:987:G:H5'	1.51	0.92
29:B1:1661:G:OP1	29:B1:1661:G:H4'	1.69	0.92
29:B1:1687:U:H3'	29:B1:1687:U:OP1	1.68	0.92
29:B1:3149:G:C2	29:B1:3150:A:C1'	2.53	0.92
29:B1:726:G:N3	29:B1:744:A:N6	2.18	0.92
29:B1:739:G:H2'	29:B1:740:G:C8	2.04	0.92
1:C1:291:G:H2'	1:C1:292:U:C6	2.05	0.92
29:D1:951:A:C2	29:D1:1369:A:C2	2.57	0.92
29:D1:2287:C:O2	29:D1:2298:U:O4'	1.85	0.92
45:BP:124:LEU:CB	45:BP:126:VAL:H	1.83	0.92
29:B1:379:C:H5''	29:B1:379:C:H6	1.35	0.92
29:B1:3277:U:H2'	29:B1:3278:C:H5'	1.50	0.92
29:D1:1062:A:O2'	29:D1:1063:G:OP1	1.87	0.92
1:A1:1392:U:H2'	1:A1:1393:C:C6	2.03	0.92
1:C1:1784:C:H2'	1:C1:1785:U:C6	2.05	0.92
1:A1:921:U:H2'	1:A1:922:G:H8	1.35	0.92
1:A1:350:U:H4'	1:A1:352:A:C8	2.04	0.92
36:BE:134:ALA:HB3	36:BE:136:GLU:H	1.35	0.92
29:D1:2583:C:H2'	29:D1:2584:G:C8	2.05	0.92
1:A1:480:G:H22	1:A1:508:U:H3	1.13	0.91
29:B1:1405:U:H2'	29:B1:1406:A:H8	1.33	0.91
29:B1:2315:G:C2	29:B1:2316:G:N7	2.37	0.91
31:B3:139:U:H2'	31:B3:140:G:C8	2.06	0.91
29:D1:431:U:H2'	29:D1:432:G:C8	2.03	0.91
29:D1:673:U:H2'	29:D1:674:G:H5'	1.52	0.91
29:D1:2680:A:P	29:D1:2681:U:C5	2.63	0.91
1:A1:1160:A:H2'	1:A1:1161:C:C6	2.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1195:C:H41	11:AJ:142:TYR:HA	1.35	0.91
1:A1:1196:A:H4'	1:A1:1197:C:H5''	1.49	0.91
29:D1:3382:U:C3'	29:D1:3383:G:H4'	2.00	0.91
1:A1:1129:U:H5''	1:A1:1130:G:OP2	1.68	0.91
1:A1:591:A:H2'	1:A1:592:A:C8	2.05	0.91
29:B1:3365:U:H2'	29:B1:3366:G:H8	1.34	0.91
29:B1:556:U:H2'	29:B1:557:A:C1'	2.00	0.91
29:D1:153:U:H4'	29:D1:158:G:H21	1.33	0.91
29:D1:1875:G:C2'	29:D1:1876:U:H5''	2.01	0.91
29:D1:955:U:H2'	29:D1:956:U:C6	2.05	0.91
1:A1:1160:A:H2'	1:A1:1161:C:H6	1.33	0.91
9:CH:100:ALA:O	9:CH:104:ALA:HB2	1.70	0.91
29:B1:3353:G:H3'	29:B1:3354:U:H5'	1.52	0.91
1:A1:23:G:H1'	1:A1:368:U:H5'	1.49	0.91
29:B1:2147:A:H2'	29:B1:2148:U:C6	2.05	0.91
29:B1:394:G:H1	29:B1:397:A:H5''	1.34	0.91
29:D1:1176:C:H5''	29:D1:1177:G:H5''	1.52	0.91
29:D1:1222:G:H4'	29:D1:1223:A:OP2	1.69	0.91
29:D1:150:A:C8	29:D1:151:A:N7	2.39	0.91
29:D1:3055:U:H2'	29:D1:3085:G:N1	1.85	0.91
29:D1:609:G:O2'	29:D1:610:G:H5''	1.70	0.91
1:C1:1542:G:H22	1:C1:1568:C:H2'	1.30	0.91
29:B1:3231:U:H3	29:B1:3256:G:H1	1.13	0.91
1:A1:1291:G:H22	1:A1:1324:G:H1	1.03	0.91
29:D1:1350:A:H5'	29:D1:1351:U:H5	1.34	0.91
1:A1:624:G:H1'	1:A1:1027:A:C4	2.06	0.91
1:A1:1110:G:C8	1:A1:1110:G:H5'	2.05	0.91
29:B1:2370:G:C5	29:B1:2371:G:N7	2.39	0.91
29:B1:2255:A:C5	74:B1:3438:OHX:N6	2.39	0.91
1:C1:33:U:H1'	1:C1:468:A:H2	1.34	0.91
29:D1:1439:U:H2'	29:D1:1440:G:H8	1.35	0.91
29:D1:1901:A:H5''	29:D1:1902:G:OP2	1.71	0.91
29:D1:2136:C:H5'	29:D1:2137:U:OP2	1.71	0.91
29:D1:2656:A:H4'	29:D1:2657:A:OP1	1.69	0.91
31:D3:71:A:H4'	31:D3:72:A:OP1	1.70	0.91
37:DF:92:SER:O	37:DF:94:GLU:N	2.03	0.91
1:C1:1345:A:H2'	1:C1:1346:A:C5	2.04	0.91
1:A1:1590:G:H2'	1:A1:1591:C:C5	2.05	0.91
29:B1:2565:U:H2'	29:B1:2566:C:C6	2.05	0.91
29:B1:1638:A:N3	29:B1:1709:C:H1'	1.85	0.91
1:A1:1580:C:H2'	1:A1:1581:C:C6	2.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2565:U:H2'	29:D1:2566:C:C6	2.06	0.91
29:D1:1715:A:H3'	29:D1:1716:U:H5''	1.49	0.91
1:A1:1630:U:H4'	1:A1:1765:A:OP1	1.70	0.91
29:B1:2146:C:H2'	29:B1:2147:A:C5'	2.00	0.91
29:D1:2608:G:H2'	29:D1:2609:A:H8	1.34	0.91
29:D1:2992:U:C2'	29:D1:2993:G:H5'	2.00	0.91
29:D1:3029:A:H3'	29:D1:3030:G:H5''	1.49	0.91
29:D1:3330:A:H2'	29:D1:3331:U:C6	2.05	0.91
29:D1:807:A:H5'	29:D1:808:A:OP2	1.71	0.91
29:B1:3242:G:N1	29:B1:3244:A:H2'	1.85	0.91
8:CG:51:GLY:HA2	8:CG:53:LEU:H	1.22	0.91
1:C1:1281:G:H2'	1:C1:1282:U:H6	1.33	0.91
1:A1:978:A:N6	1:A1:1024:U:H3	1.66	0.91
1:A1:1099:U:C5	1:A1:1100:G:O6	2.24	0.91
29:B1:2812:C:H2'	29:B1:2813:A:H8	1.32	0.91
29:B1:2873:U:O2'	29:B1:2874:G:H5'	1.71	0.91
29:B1:2918:G:C2	29:B1:2919:A:N7	2.37	0.91
29:B1:511:G:N2	29:B1:580:C:C4	2.38	0.91
1:C1:169:A:HO2'	1:C1:171:A:H8	1.12	0.91
1:C1:400:A:H4'	1:C1:401:A:H5'	1.52	0.91
1:C1:986:G:H1'	1:C1:987:G:H5'	1.51	0.91
29:D1:2640:A:H2'	29:D1:2641:U:H6	1.35	0.91
1:A1:750:U:C2'	1:A1:751:G:H5'	2.01	0.91
1:C1:1274:C:OP2	1:C1:1428:G:P	2.28	0.91
1:A1:1376:C:H2'	1:A1:1377:U:C5	2.05	0.91
29:D1:400:G:H1'	29:D1:401:U:OP2	1.70	0.91
29:D1:3231:U:H3	29:D1:3256:G:H1	0.95	0.91
29:D1:2172:A:H2'	29:D1:2173:U:H5'	1.52	0.91
41:BJ:93:PRO:HA	41:BJ:127:ALA:HB2	1.50	0.91
29:B1:3321:C:O2'	29:B1:3322:A:H8	1.54	0.91
29:B1:611:A:H3'	29:B1:612:U:C5'	2.01	0.91
29:B1:775:A:C2'	29:B1:776:U:H4'	2.01	0.91
29:B1:829:U:H4'	29:B1:866:A:C2	2.05	0.91
1:C1:546:U:H2'	1:C1:547:U:C6	2.05	0.91
29:D1:3013:U:OP1	29:D1:3013:U:H4'	1.67	0.91
31:D3:55:U:H2'	31:D3:56:G:H8	1.33	0.91
29:B1:2636:A:H5''	29:B1:2637:A:C5'	2.00	0.91
1:C1:110:U:H5''	1:C1:111:U:OP2	1.71	0.91
1:A1:1480:G:C5'	1:A1:1480:G:H8	1.84	0.91
29:D1:1063:G:H5'	29:D1:1098:A:O5'	1.70	0.91
29:D1:1648:A:H2'	29:D1:1649:U:O4'	1.69	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BF:86:ALA:HB1	37:BF:87:THR:HA	1.51	0.91
29:B1:2862:U:O2'	29:B1:2863:G:H5'	1.69	0.91
1:A1:1756:A:O5'	1:A1:1756:A:H8	1.50	0.91
29:B1:2350:C:H4'	29:B1:3308:C:O2'	1.71	0.91
29:B1:595:G:N1	29:B1:610:G:OP1	2.04	0.91
29:D1:1452:A:H1'	29:D1:2347:U:H5''	1.52	0.91
29:D1:3123:A:H2'	29:D1:3124:G:H5'	1.53	0.91
29:D1:953:G:H4'	29:D1:954:U:C6	2.05	0.91
1:A1:650:U:N3	1:A1:684:A:N6	1.93	0.91
29:B1:2628:A:H1'	29:B1:2798:C:C4	2.06	0.91
1:A1:162:A:H3'	1:A1:163:G:H8	1.36	0.91
1:C1:113:U:H5''	1:C1:114:C:H5'	1.53	0.91
1:C1:1250:U:C4	1:C1:1251:U:O4	2.23	0.91
1:C1:1203:A:H2	1:C1:1556:A:H1'	1.31	0.91
29:D1:3210:A:C3'	29:D1:3211:C:H6	1.83	0.91
29:B1:3210:A:C3'	29:B1:3211:C:H6	1.83	0.91
29:D1:1272:C:H2'	29:D1:1273:A:O4'	1.71	0.91
29:D1:2593:A:H4'	29:D1:2594:C:H5'	1.51	0.91
1:A1:1291:G:H2'	1:A1:1292:G:H8	1.36	0.91
29:B1:1340:G:H2'	29:B1:1341:U:C6	2.06	0.91
12:AK:48:ASN:HA	12:AK:51:ALA:HB3	1.52	0.91
21:CT:213:SER:O	21:CT:220:ILE:HA	1.68	0.91
1:A1:942:G:OP1	1:A1:977:A:H1'	1.71	0.91
29:B1:154:U:H4'	29:B1:155:G:OP2	1.67	0.91
1:C1:1634:C:H2'	1:C1:1634:C:O2	1.67	0.91
29:D1:1838:G:H5''	29:D1:1839:A:OP1	1.68	0.91
29:D1:3122:A:H2'	29:D1:3123:A:C5'	1.99	0.91
1:C1:218:A:H61	1:C1:844:A:H1'	1.35	0.91
29:B1:3215:A:C5'	29:B1:3218:A:H5''	2.00	0.91
29:D1:2915:U:H2'	29:D1:2915:U:O2	1.69	0.91
53:DX:19:TYR:O	53:DX:21:THR:N	2.03	0.91
1:C1:763:G:H2'	1:C1:764:U:C6	2.06	0.91
29:B1:1303:A:C8	29:B1:1304:A:C5	2.59	0.91
29:B1:3318:G:N3	29:B1:3318:G:H2'	1.86	0.91
29:B1:606:C:C4	29:B1:607:A:C6	2.58	0.91
29:D1:2611:U:H2'	29:D1:2612:U:H6	1.28	0.91
29:D1:2812:C:H2'	29:D1:2813:A:H8	1.34	0.91
29:D1:1303:A:H2	29:D1:2887:A:C2	1.88	0.91
29:D1:524:U:H2'	29:D1:525:C:C6	2.06	0.91
29:D1:249:U:H4'	29:D1:250:U:OP1	1.68	0.91
29:D1:2833:A:H2'	29:D1:2834:G:H5'	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1435:G:H4'	1:A1:1436:A:OP2	1.70	0.91
29:B1:1902:G:H2'	29:B1:1903:U:O4'	1.70	0.90
29:B1:3376:A:H5''	29:B1:3376:A:N3	1.86	0.90
29:B1:512:U:C2	29:B1:579:G:C2	2.58	0.90
29:B1:584:G:H2'	29:B1:585:A:C8	2.06	0.90
1:C1:162:A:H3'	1:C1:163:G:H8	1.34	0.90
29:D1:1156:C:C3'	29:D1:1157:G:H5''	2.01	0.90
29:D1:1506:A:O2'	29:D1:1507:G:H5'	1.71	0.90
29:D1:3023:U:H2'	29:D1:3024:A:H8	1.35	0.90
29:D1:504:A:H3'	29:D1:504:A:C8	2.06	0.90
29:B1:993:G:N2	29:B1:2637:A:H3'	1.86	0.90
1:A1:1197:C:H5'	1:A1:1198:G:OP2	1.71	0.90
1:A1:1363:U:H2'	1:A1:1364:G:C1'	2.01	0.90
29:B1:1196:C:H5	29:B1:1197:A:H62	0.91	0.90
29:B1:3184:A:H5''	29:B1:3184:A:H8	1.35	0.90
43:BN:33:ALA:HB1	43:BN:48:GLY:H	1.35	0.90
29:B1:275:U:O2'	29:B1:276:U:H5'	1.71	0.90
1:A1:524:U:H2'	1:A1:527:A:H2	1.32	0.90
29:B1:150:A:H2'	29:B1:151:A:H8	1.34	0.90
29:B1:1448:U:H5	29:B1:2355:G:C2	1.89	0.90
29:B1:3047:U:C2	29:B1:3048:A:C2	2.59	0.90
29:B1:3090:U:H5''	29:B1:3090:U:H6	1.21	0.90
29:B1:3137:C:H2'	29:B1:3137:C:O2	1.70	0.90
29:D1:1131:G:C4	29:D1:2373:A:C2	2.60	0.90
29:D1:826:G:H21	29:D1:1589:A:H62	1.14	0.90
29:D1:360:G:C6	29:D1:361:A:N6	2.39	0.90
29:D1:414:U:O2'	29:D1:415:G:H5'	1.69	0.90
29:B1:2727:A:H4'	29:B1:2728:G:OP1	1.69	0.90
47:DR:98:LYS:HA	47:DR:117:ALA:HB1	1.51	0.90
29:D1:884:A:N7	29:D1:2139:A:N3	2.19	0.90
29:B1:1303:A:H2	29:B1:2887:A:C2	1.89	0.90
1:C1:357:G:C4	1:C1:358:U:C5	2.59	0.90
1:C1:526:A:N3	1:C1:526:A:H2'	1.84	0.90
1:C1:62:A:C3'	1:C1:62:A:OP2	2.17	0.90
1:C1:811:A:HO2'	1:C1:858:G:H8	1.17	0.90
29:D1:346:C:N4	29:D1:348:A:H3'	1.85	0.90
1:A1:78:A:H4'	1:A1:79:C:OP2	1.71	0.90
1:C1:1348:A:H8	1:C1:1348:A:O5'	1.54	0.90
29:B1:3215:A:OP2	29:B1:3218:A:C8	2.23	0.90
29:D1:3174:A:H1'	29:D1:3175:U:H5''	1.53	0.90
29:D1:3215:A:C5'	29:D1:3218:A:H5''	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BE:159:VAL:O	36:BE:161:GLY:N	2.03	0.90
29:B1:1913:A:C4	29:B1:2120:A:C8	2.59	0.90
1:A1:1144:U:O4'	1:A1:1300:A:C2	2.23	0.90
29:B1:1289:G:H4'	29:B1:1290:A:OP1	1.68	0.90
29:B1:1441:G:H2'	29:B1:1442:U:C5'	2.00	0.90
29:B1:2253:G:O6	29:B1:2263:C:N4	2.04	0.90
29:B1:1303:A:H2	29:B1:2887:A:N1	1.69	0.90
29:B1:407:A:O2'	29:B1:408:A:H5'	1.72	0.90
29:B1:726:G:H1'	29:B1:744:A:N1	1.87	0.90
1:C1:1144:U:H2'	1:C1:1145:U:C6	2.06	0.90
29:D1:1902:G:H2'	29:D1:1903:U:O4'	1.72	0.90
29:D1:2324:A:H5''	29:D1:2325:G:OP2	1.71	0.90
29:D1:264:G:H3'	29:D1:265:A:C8	2.07	0.90
29:D1:2655:U:H4'	29:D1:2656:A:C5'	2.01	0.90
29:D1:308:A:C2	29:D1:2782:U:N3	2.39	0.90
74:D1:3408:OHX:N2	74:D1:3582:OHX:N5	2.18	0.90
29:D1:35:A:H1'	29:D1:810:A:O2'	1.72	0.90
29:D1:611:A:OP1	29:D1:611:A:H4'	1.71	0.90
31:D3:65:A:H2'	31:D3:66:A:H8	1.34	0.90
29:D1:2741:C:O3'	37:DF:19:LYS:HA	77.26	0.90
29:D1:2111:G:N2	51:DV:49:ILE:HA	1.84	0.90
29:B1:2673:A:O2'	42:BK:107:ASP:HA	1.70	0.90
1:C1:1557:U:P	1:C1:1560:U:O4	2.28	0.90
1:A1:1602:C:H3'	1:A1:1603:U:H6	1.36	0.90
29:B1:334:A:H2'	29:B1:335:G:C8	2.05	0.90
29:D1:1218:U:H5''	29:D1:1219:C:OP2	1.71	0.90
1:A1:955:A:H4'	1:A1:1074:G:O2'	1.72	0.90
1:A1:527:A:P	1:A1:528:U:H3'	2.11	0.90
29:B1:1532:C:H2'	29:B1:1533:U:C6	2.06	0.90
29:B1:156:G:C8	29:B1:157:A:H1'	2.07	0.90
29:B1:210:U:OP2	29:B1:210:U:C6	2.23	0.90
29:B1:513:G:N2	29:B1:577:C:C2	2.39	0.90
29:B1:750:G:H22	29:B1:784:A:H1'	1.33	0.90
29:B1:8:C:H2'	29:B1:9:U:C6	2.06	0.90
1:C1:871:G:O2'	1:C1:872:G:H8	1.55	0.90
29:D1:1560:G:N1	29:D1:1579:C:C2	2.38	0.90
29:D1:1884:A:C5	29:D1:1885:U:N3	2.39	0.90
29:D1:2640:A:C4	29:D1:2641:U:C5	2.60	0.90
29:D1:2386:A:C4	29:D1:2994:A:C2	2.60	0.90
29:D1:430:U:H2'	29:D1:431:U:C6	2.05	0.90
29:D1:562:C:C2'	29:D1:563:U:C6	2.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:829:A:O2'	1:C1:830:U:OP2	1.89	0.90
1:C1:750:U:C2'	1:C1:751:G:H5'	2.02	0.90
29:D1:1273:A:C8	29:D1:1274:A:C8	2.60	0.90
29:D1:3353:G:H3'	29:D1:3354:U:H5'	1.51	0.90
29:D1:2652:U:H2'	29:D1:2653:C:C6	2.07	0.90
36:BE:49:TYR:HA	36:BE:50:ARG:CB	2.01	0.90
1:A1:400:A:H4'	1:A1:401:A:C5'	2.01	0.90
29:B1:394:G:C2	29:B1:396:A:H2'	2.06	0.90
29:B1:745:C:C4	29:B1:746:A:N6	2.40	0.90
1:C1:1101:G:OP2	1:C1:1101:G:H8	1.53	0.90
29:D1:1339:C:H2'	29:D1:1340:G:C8	2.06	0.90
29:D1:1448:U:H5	29:D1:2355:G:C2	1.88	0.90
29:D1:13:A:C2	29:D1:15:C:H5'	2.06	0.90
45:DP:124:LEU:CB	45:DP:126:VAL:H	1.84	0.90
29:D1:126:U:HO2'	29:D1:127:G:H8	0.94	0.90
29:B1:625:G:H2'	29:B1:626:U:C6	2.06	0.90
1:A1:782:U:H4'	1:A1:783:G:O5'	1.72	0.90
1:A1:29:U:O2	1:A1:597:G:O6	1.88	0.90
29:B1:2948:C:H2'	29:B1:2949:U:C6	2.05	0.90
29:B1:641:C:H2'	29:B1:642:U:O4'	1.72	0.90
29:B1:884:A:N7	29:B1:2139:A:C4	2.40	0.90
1:C1:992:A:H2	1:C1:1012:U:H3	0.92	0.90
29:D1:1153:A:N7	29:D1:1154:A:C6	2.40	0.90
29:D1:1450:G:O5'	29:D1:1450:G:H8	1.55	0.90
29:D1:26:A:H2'	29:D1:27:C:C6	2.07	0.90
29:D1:726:G:N3	29:D1:744:A:C6	2.39	0.90
45:DP:124:LEU:CA	45:DP:126:VAL:N	2.34	0.90
29:B1:3262:U:OP2	29:B1:3262:U:H6	1.53	0.90
5:AD:161:ASP:HA	5:AD:162:VAL:CB	2.01	0.90
6:CE:71:PHE:O	6:CE:75:ALA:HB2	1.71	0.90
1:C1:1580:C:H2'	1:C1:1581:C:C6	2.07	0.90
15:CN:22:ILE:HA	15:CN:118:VAL:HA	1.51	0.90
1:A1:1628:U:H2'	1:A1:1629:G:C8	2.07	0.90
1:A1:427:C:C5'	1:A1:427:C:H6	1.83	0.90
29:B1:2299:A:C5	29:B1:2300:G:C8	2.60	0.90
29:B1:2826:U:O2'	29:B1:2827:U:H5'	1.72	0.90
29:B1:3090:U:C6	29:B1:3090:U:C5'	2.55	0.90
29:B1:750:G:N2	29:B1:784:A:C1'	2.34	0.90
1:C1:1146:G:H8	1:C1:1635:A:H2	1.14	0.90
1:C1:1642:G:O6	74:C1:1901:OHX:N3	2.05	0.90
1:C1:380:U:H2'	1:C1:381:C:C6	2.07	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2997:G:H1'	29:D1:2998:U:O5'	1.70	0.90
29:D1:511:G:N2	29:D1:580:C:C2	2.38	0.90
31:D3:139:U:H2'	31:D3:140:G:C8	2.07	0.90
1:A1:62:A:C2	1:A1:63:G:N7	2.40	0.90
1:C1:1363:U:H2'	1:C1:1364:G:C1'	2.02	0.90
1:C1:1375:A:H2'	1:C1:1376:C:N1	1.87	0.90
29:D1:3264:G:C2'	29:D1:3265:C:H5''	2.02	0.90
29:B1:2771:U:H3'	29:B1:2772:C:C5'	2.02	0.90
29:B1:2353:G:C5	29:B1:2354:C:C5	2.60	0.90
29:B1:1108:U:H2'	29:B1:1109:U:H6	1.35	0.90
29:B1:2270:A:H2'	29:B1:2271:A:C8	2.07	0.90
29:D1:1439:U:H2'	29:D1:1440:G:C8	2.07	0.90
29:D1:2405:C:H2'	29:D1:2405:C:O2	1.70	0.90
29:D1:2997:G:H1'	29:D1:2998:U:P	2.12	0.90
29:D1:3300:U:C6	29:D1:3300:U:OP2	2.23	0.90
29:D1:3318:G:N3	29:D1:3318:G:H2'	1.85	0.90
29:D1:757:C:H2'	29:D1:757:C:O2	1.70	0.90
1:C1:1198:G:H3'	1:C1:1199:G:H5'	1.53	0.90
29:B1:1199:C:C2	74:B1:3587:OHX:N6	2.40	0.90
29:B1:2877:G:H1	29:B1:2949:U:H3	1.18	0.90
1:C1:444:C:H42	1:C1:460:A:H62	1.15	0.90
29:D1:2259:A:H3'	29:D1:2260:U:C6	2.06	0.90
29:D1:2353:G:C6	29:D1:2354:C:C5	2.59	0.90
36:BE:28:THR:C	36:BE:30:TYR:H	1.71	0.90
1:C1:243:G:N2	1:C1:251:A:C2	2.40	0.90
1:C1:1600:A:O2'	1:C1:1602:C:H5	1.55	0.90
1:A1:1347:U:H4'	1:A1:1348:A:OP2	1.70	0.90
1:A1:1467:C:H5'	1:A1:1602:C:OP1	1.70	0.90
29:D1:3210:A:C3'	29:D1:3211:C:C6	2.53	0.90
29:B1:1065:A:H1'	29:B1:1093:A:H61	1.37	0.90
29:D1:1667:A:H2'	29:D1:1668:G:H8	1.31	0.90
1:A1:721:U:H4'	1:A1:722:G:OP2	1.71	0.90
29:B1:1862:U:H5''	29:B1:1863:G:OP2	1.72	0.90
1:A1:992:A:C2	1:A1:1012:U:C2	2.60	0.89
1:A1:871:G:O2'	1:A1:872:G:H8	1.53	0.89
29:B1:2143:A:C2'	29:B1:2144:A:H5'	2.02	0.89
29:B1:284:A:C2	29:B1:306:A:C8	2.60	0.89
1:C1:556:A:H5''	1:C1:558:U:OP2	1.72	0.89
29:D1:3327:G:C5	29:D1:3328:G:N7	2.40	0.89
29:D1:383:G:H3'	29:D1:385:A:OP2	1.70	0.89
29:D1:774:G:C2'	29:D1:775:A:H5'	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:784:A:H2'	29:D1:785:G:H8	1.36	0.89
1:C1:228:G:HO2'	1:C1:229:U:H6	1.13	0.89
1:A1:289:U:H2'	1:A1:289:U:O2	1.71	0.89
1:A1:243:G:H2'	1:A1:244:A:H8	1.34	0.89
1:A1:1198:G:H3'	1:A1:1199:G:C5'	2.00	0.89
1:A1:1444:A:H5'	1:A1:1446:A:N7	1.87	0.89
29:D1:405:U:H5	29:D1:406:G:C5	1.87	0.89
30:B2:34:C:H2'	30:B2:34:C:O2	1.72	0.89
29:B1:3028:G:C2	29:B1:3029:A:N3	2.40	0.89
30:D2:41:G:H5'	30:D2:42:A:OP2	1.70	0.89
36:BE:99:TYR:HA	36:BE:165:GLY:HA3	1.52	0.89
29:D1:2834:G:HO2'	29:D1:2835:U:H6	0.91	0.89
29:D1:1638:A:N3	29:D1:1709:C:H1'	1.84	0.89
1:C1:1734:U:H2'	1:C1:1735:U:C6	2.07	0.89
1:A1:1119:G:H2'	1:A1:1120:U:H6	1.37	0.89
1:A1:43:A:C2'	1:A1:44:U:H5''	2.02	0.89
29:B1:2143:A:H2'	29:B1:2144:A:H5'	1.53	0.89
29:B1:2251:G:O2'	29:B1:2252:A:H5''	1.72	0.89
29:B1:2807:U:O2'	29:B1:2808:A:H5''	1.71	0.89
29:B1:3063:C:H2'	29:B1:3064:U:H6	1.36	0.89
29:B1:400:G:H1'	29:B1:401:U:OP2	1.72	0.89
29:D1:1503:A:H3'	29:D1:1504:A:C5'	2.01	0.89
29:D1:515:C:H3'	29:D1:516:A:C5'	2.02	0.89
29:D1:637:C:HO2'	29:D1:638:C:H6	0.92	0.89
29:D1:775:A:C2'	29:D1:776:U:H4'	2.01	0.89
30:D2:14:U:O5'	30:D2:14:U:C6	2.25	0.89
1:C1:250:C:C2	1:C1:251:A:C8	2.61	0.89
29:B1:2680:A:OP2	29:B1:2681:U:C5	2.25	0.89
1:A1:328:A:H2'	1:A1:329:G:C8	2.07	0.89
1:C1:1558:U:C6	1:C1:1559:A:H5''	2.07	0.89
1:A1:1457:C:C5	1:A1:1559:A:N6	2.40	0.89
29:B1:3190:C:H42	29:B1:3202:G:H1	1.18	0.89
1:C1:1313:A:H2'	1:C1:1315:U:H5'	1.55	0.89
1:C1:1281:G:H2'	1:C1:1282:U:C6	2.06	0.89
54:BY:80:THR:C	54:BY:82:ILE:H	1.75	0.89
34:BC:294:GLY:HA2	34:BC:296:THR:N	1.87	0.89
1:A1:402:C:O2	1:A1:403:G:H4'	1.72	0.89
29:B1:195:U:H4'	29:B1:1391:C:H5	1.37	0.89
29:B1:2151:C:H6	29:B1:2151:C:H5'	1.35	0.89
29:B1:33:G:N2	29:B1:50:U:C4	2.40	0.89
1:C1:44:U:C5'	1:C1:45:U:C5	2.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2276:G:C5	29:D1:2277:C:C5	2.60	0.89
29:D1:2946:A:C4	29:D1:2982:A:N6	2.39	0.89
29:D1:360:G:H2'	29:D1:361:A:C8	2.08	0.89
29:D1:514:G:H2'	29:D1:515:C:C2	2.07	0.89
29:D1:591:G:C2	29:D1:592:A:C4	2.61	0.89
1:C1:228:G:C2	1:C1:229:U:C2	2.60	0.89
29:B1:2703:A:H5''	29:B1:2704:A:C5'	2.03	0.89
1:A1:291:G:H2'	1:A1:292:U:C6	2.05	0.89
1:A1:328:A:H2'	1:A1:329:G:H8	1.37	0.89
29:B1:3024:A:H2'	29:B1:3024:A:N3	1.85	0.89
29:D1:2771:U:H3'	29:D1:2772:C:C5'	2.03	0.89
29:B1:2215:A:H2'	29:B1:2215:A:N3	1.87	0.89
36:BE:42:ALA:HB3	49:BT:69:LYS:O	1.70	0.89
29:B1:1702:U:H3	29:B1:1743:G:H1	1.17	0.89
5:AD:197:GLU:H	5:AD:200:ASN:H	1.14	0.89
14:AM:115:GLU:O	14:AM:122:ARG:HA	1.71	0.89
11:AJ:12:LYS:HA	11:AJ:17:THR:HA	1.53	0.89
29:B1:1129:A:H2'	29:B1:1130:A:H5'	1.54	0.89
29:B1:2712:U:O2'	29:B1:2743:A:H4'	1.72	0.89
29:B1:3150:A:N6	29:B1:3152:U:O4	2.04	0.89
29:B1:726:G:C2	29:B1:727:G:C6	2.59	0.89
1:C1:1628:U:H2'	1:C1:1629:G:H8	1.35	0.89
29:D1:3189:G:H2'	29:D1:3190:C:H6	1.35	0.89
29:B1:3382:U:C3'	29:B1:3383:G:H4'	2.01	0.89
1:C1:1649:G:H2'	1:C1:1650:U:H6	1.38	0.89
29:D1:1913:A:C4	29:D1:2120:A:C8	2.61	0.89
29:B1:2379:U:H2'	29:B1:2380:U:C6	2.08	0.89
29:B1:2833:A:H2'	29:B1:2834:G:H5'	1.55	0.89
29:B1:2869:U:H5''	29:B1:2870:C:OP2	1.71	0.89
29:B1:514:G:H2'	29:B1:515:C:N1	1.88	0.89
29:B1:562:C:C2'	29:B1:563:U:C6	2.54	0.89
1:C1:1109:G:O6	1:C1:1136:U:O4	1.91	0.89
1:C1:357:G:H2'	1:C1:358:U:H6	1.37	0.89
1:C1:868:G:H1	1:C1:960:U:H3	1.12	0.89
1:C1:1100:G:C8	16:CO:76:SER:HA	2.08	0.89
29:D1:2948:C:H2'	29:D1:2949:U:H6	1.38	0.89
29:D1:3321:C:O2'	29:D1:3322:A:H8	1.56	0.89
1:C1:827:C:N3	1:C1:846:G:C6	2.40	0.89
1:A1:1592:A:H2'	1:A1:1593:A:C8	2.07	0.89
29:B1:618:C:C2	29:B1:619:A:N7	2.40	0.89
29:D1:3201:C:C6	29:D1:3201:C:OP1	2.25	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3140:G:C8	29:D1:3140:G:H5''	2.08	0.89
1:A1:1313:A:H2'	1:A1:1315:U:H5'	1.52	0.89
34:BC:93:VAL:CB	34:BC:155:ALA:HB1	2.02	0.89
29:B1:1350:A:H5'	29:B1:1351:U:H5	1.37	0.89
29:B1:2948:C:O2'	29:B1:2949:U:H5'	1.73	0.89
29:D1:1941:C:H42	29:D1:2107:A:N6	1.69	0.89
31:D3:69:U:C2	31:D3:70:G:H1'	2.07	0.89
29:B1:2699:G:H8	29:B1:2699:G:H5'	1.35	0.89
1:A1:1564:U:H2'	1:A1:1565:C:C6	2.08	0.89
29:D1:3382:U:H3'	29:D1:3383:G:C4'	2.01	0.89
1:A1:1392:U:H2'	1:A1:1393:C:H6	1.38	0.89
38:BG:80:GLN:HA	38:BG:81:HIS:CB	2.01	0.89
47:DR:128:ALA:HA	47:DR:131:ALA:HB3	1.54	0.89
29:D1:835:G:O2'	29:D1:857:G:N2	2.05	0.89
1:C1:1222:C:H2'	1:C1:1223:A:H8	1.37	0.89
29:B1:1156:C:H3'	29:B1:1157:G:H5''	1.53	0.89
29:B1:2254:U:O2	29:B1:2261:G:N2	2.05	0.89
1:C1:1099:U:C4	1:C1:1100:G:O6	2.26	0.89
1:C1:1150:G:C4	1:C1:1766:A:OP1	2.26	0.89
1:C1:85:A:HO2'	1:C1:86:A:H8	0.95	0.89
29:D1:2667:A:C3'	29:D1:2667:A:N3	2.34	0.89
29:D1:2918:G:C2	29:D1:2919:A:N7	2.40	0.89
1:C1:1684:U:H3'	1:C1:1684:U:O2	1.73	0.89
1:C1:320:U:H4'	1:C1:321:C:OP1	1.73	0.89
29:B1:2673:A:O3'	42:BK:106:ILE:O	1.91	0.89
1:A1:1474:G:H2'	1:A1:1475:A:H8	1.37	0.89
29:B1:3027:A:H2'	29:B1:3028:G:H8	1.24	0.89
36:BE:141:PRO:CB	36:BE:142:PHE:HA	2.00	0.89
29:B1:3274:A:H1'	29:B1:3275:U:O5'	1.73	0.89
29:B1:3271:G:C2	29:B1:3272:C:OP1	2.26	0.89
1:A1:1050:G:C4	1:A1:1051:G:H1'	2.07	0.89
29:B1:1605:A:OP1	29:B1:1835:A:OP1	1.90	0.89
29:B1:2252:A:H2'	29:B1:2253:G:C8	2.08	0.89
29:B1:2847:A:H5'	29:B1:2848:G:OP2	1.72	0.89
29:B1:417:A:H2'	29:B1:418:A:C8	2.07	0.89
29:B1:421:G:C8	29:B1:421:G:C3'	2.56	0.89
1:C1:151:G:H1	1:C1:163:G:N2	1.71	0.89
1:C1:43:A:C2	1:C1:378:A:N6	2.41	0.89
29:D1:1901:A:H5''	29:D1:2919:A:OP1	1.73	0.89
31:D3:132:G:H2'	31:D3:133:G:C8	2.07	0.89
31:D3:70:G:H5'	31:D3:71:A:C8	2.07	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DG:69:ALA:HB1	38:DG:75:TYR:H	1.35	0.89
30:D2:16:U:H2'	30:D2:17:A:H8	1.37	0.89
29:B1:2680:A:P	29:B1:2681:U:C5	2.66	0.89
30:B2:25:G:C5	30:B2:26:C:N4	2.41	0.89
1:A1:1753:A:C6	1:A1:1754:A:C6	2.61	0.89
34:BC:50:LYS:CB	34:BC:333:LYS:H	1.86	0.89
30:D2:95:A:H2'	30:D2:96:U:H6	1.33	0.89
45:DP:8:VAL:HA	45:DP:34:VAL:O	1.73	0.89
34:DC:294:GLY:HA2	34:DC:296:THR:N	1.88	0.89
29:B1:1299:U:H2'	29:B1:1300:G:O4'	1.73	0.89
29:B1:3150:A:H3'	29:B1:3151:U:C5'	2.03	0.89
29:D1:3107:U:O2'	29:D1:3108:G:H5'	1.72	0.89
29:D1:430:U:C2'	29:D1:431:U:H5'	2.03	0.89
29:D1:513:G:N2	29:D1:577:C:C2	2.41	0.89
29:D1:743:C:H4'	47:DR:142:GLY:HA2	1.52	0.89
29:D1:2244:A:O2'	33:DB:222:ALA:HB3	1.72	0.89
1:A1:829:A:O2'	1:A1:830:U:OP2	1.90	0.89
30:B2:12:U:C5'	30:B2:68:C:H1'	2.01	0.89
1:A1:190:C:H3'	1:A1:191:C:H5''	1.54	0.89
30:D2:63:A:H3'	30:D2:64:A:H5''	0.91	0.89
29:B1:1196:C:C6	29:B1:1197:A:N7	2.41	0.89
29:D1:2213:A:H2'	29:D1:2214:A:H8	1.30	0.89
29:B1:1289:G:H2'	29:B1:1290:A:H8	1.37	0.89
29:B1:2923:U:C2	29:B1:2924:U:H5	1.91	0.89
29:B1:327:A:C2	29:B1:328:U:C5	2.61	0.89
29:B1:3334:U:H5'	29:B1:3371:G:H21	1.33	0.89
29:B1:542:G:H2'	29:B1:543:C:C6	2.08	0.89
29:B1:829:U:H3	29:B1:895:A:H61	1.19	0.89
1:C1:28:A:H2'	1:C1:29:U:C6	2.07	0.89
1:C1:78:A:H4'	1:C1:79:C:OP2	1.71	0.89
29:D1:2251:G:H1'	29:D1:2252:A:OP1	1.72	0.89
29:D1:2699:G:H5'	29:D1:2699:G:C8	2.07	0.89
29:D1:2689:A:N3	29:D1:2702:A:H2	1.65	0.89
29:D1:3365:U:H2'	29:D1:3366:G:H8	1.37	0.89
29:D1:336:A:O2'	29:D1:337:G:H5'	1.72	0.89
29:D1:607:A:OP2	29:D1:607:A:H8	1.56	0.89
29:D1:781:G:H2'	29:D1:782:U:H5'	1.54	0.89
1:C1:250:C:C2'	1:C1:251:A:H5'	2.02	0.89
1:C1:328:A:H2'	1:C1:329:G:C8	2.08	0.89
42:BK:50:ALA:HB3	42:BK:63:GLU:H	1.37	0.89
1:A1:249:U:H3'	1:A1:250:C:H5'	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1602:C:H3'	1:C1:1603:U:H6	1.38	0.89
46:BQ:5:GLY:H	46:BQ:6:ALA:HA	1.37	0.89
29:D1:3201:C:O4'	29:D1:3201:C:OP2	1.89	0.89
29:B1:3023:U:H2'	29:B1:3024:A:C8	2.07	0.89
1:A1:720:G:H4'	1:A1:721:U:OP1	1.69	0.89
9:CH:64:ALA:HA	9:CH:68:ALA:H	1.36	0.89
29:B1:3011:A:H8	29:B1:3012:A:H1'	1.35	0.88
29:B1:3314:A:H5''	34:BC:119:TYR:H	1.38	0.88
29:B1:64:G:O2'	29:B1:77:A:H1'	1.73	0.88
29:B1:726:G:N1	29:B1:727:G:C6	2.40	0.88
1:C1:61:A:H4'	1:C1:62:A:C5'	2.02	0.88
29:D1:2877:G:H1	29:D1:2949:U:H3	1.19	0.88
29:D1:2393:G:C6	29:D1:2982:A:C2	2.61	0.88
31:D3:63:G:N2	31:D3:98:U:O2	2.04	0.88
29:B1:993:G:N3	29:B1:2637:A:H2'	1.87	0.88
1:A1:1467:C:O2'	1:A1:1468:U:H5'	1.73	0.88
1:C1:1055:U:O2	1:C1:1064:G:N2	2.05	0.88
29:B1:3217:C:H6	29:B1:3220:G:HO2'	1.20	0.88
29:D1:370:U:O2	29:D1:403:C:N3	2.06	0.88
29:D1:1716:U:H3'	29:D1:1717:U:H4'	1.55	0.88
29:B1:1072:G:H2'	29:B1:1073:U:H6	1.38	0.88
1:A1:1763:A:C3'	1:A1:1764:C:H5''	2.02	0.88
1:A1:861:U:C5	1:A1:862:A:C8	2.60	0.88
29:B1:3101:G:H2'	29:B1:3102:G:H5''	1.52	0.88
1:C1:400:A:H4'	1:C1:401:A:C5'	2.02	0.88
29:D1:2279:A:C8	29:D1:2288:G:C6	2.62	0.88
29:D1:2376:G:C6	29:D1:2377:G:C6	2.61	0.88
29:D1:3303:G:H1'	29:D1:3304:U:H5'	1.54	0.88
29:D1:3328:G:N2	29:D1:3329:U:C5	2.42	0.88
29:B1:2636:A:H5''	29:B1:2637:A:H5'	1.53	0.88
31:B3:88:A:H2'	31:B3:89:A:C5	2.08	0.88
1:C1:1203:A:C2	1:C1:1556:A:H1'	2.08	0.88
29:B1:3198:U:C3'	29:B1:3199:G:H8	1.84	0.88
29:D1:3219:G:OP1	29:D1:3220:G:H5''	1.74	0.88
29:D1:1241:U:H2'	29:D1:1243:G:OP2	1.73	0.88
29:B1:1064:A:C2	29:B1:1095:U:N3	2.39	0.88
1:C1:1575:G:H2'	1:C1:1575:G:N3	1.86	0.88
6:AE:66:ASP:C	6:AE:68:LYS:H	1.73	0.88
1:A1:1101:G:H8	1:A1:1101:G:OP2	1.57	0.88
1:A1:361:C:N3	1:A1:384:G:C2	2.41	0.88
29:B1:3011:A:C8	29:B1:3012:A:H1'	2.07	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3308:C:H5	29:B1:3309:G:C2	1.92	0.88
29:B1:606:C:H2'	29:B1:607:A:N9	1.87	0.88
29:B1:774:G:C2'	29:B1:775:A:H5'	2.03	0.88
29:D1:1297:C:H2'	29:D1:1298:C:H5'	1.54	0.88
29:D1:2370:G:C5	29:D1:2371:G:N7	2.41	0.88
29:D1:3063:C:H2'	29:D1:3064:U:H6	1.36	0.88
1:A1:825:U:O4	1:A1:847:A:N6	2.05	0.88
29:B1:2727:A:C6	29:B1:2728:G:O6	2.27	0.88
1:A1:1375:A:H2'	1:A1:1376:C:C6	2.07	0.88
29:D1:3209:A:C2	29:D1:3210:A:C2	2.62	0.88
29:B1:3218:A:O2'	29:B1:3219:G:O5'	1.91	0.88
29:D1:3219:G:H8	29:D1:3257:C:OP1	1.56	0.88
30:B2:28:C:H5''	30:B2:29:C:OP2	1.74	0.88
30:D2:40:C:O2	42:DK:69:VAL:HA	1.72	0.88
29:D1:1628:C:H4'	29:D1:1630:U:H2'	1.53	0.88
29:B1:1362:G:O2'	29:B1:1363:A:H5'	1.73	0.88
46:DQ:154:GLU:HA	46:DQ:155:GLU:CB	2.04	0.88
29:D1:1023:C:H3'	29:D1:1024:G:H4'	1.55	0.88
1:A1:1055:U:O2	1:A1:1064:G:N2	2.06	0.88
29:B1:11:A:H1'	29:B1:1557:A:N6	1.88	0.88
29:B1:1445:U:H5''	29:B1:1446:A:OP2	1.72	0.88
29:B1:1449:A:C2	29:B1:2356:A:C4	2.61	0.88
29:B1:2997:G:H1'	29:B1:2998:U:O5'	1.72	0.88
29:B1:3160:U:H3	29:B1:3290:G:H1	1.19	0.88
37:BF:56:LYS:CB	37:BF:63:LEU:HA	2.03	0.88
29:D1:1193:A:N7	29:D1:1194:G:N1	2.21	0.88
29:D1:1224:C:H5''	29:D1:1225:A:OP2	1.73	0.88
29:D1:594:U:O4	29:D1:610:G:OP1	1.91	0.88
31:D3:129:C:H2'	31:D3:130:C:C6	2.07	0.88
1:C1:328:A:H2'	1:C1:329:G:H8	1.38	0.88
1:C1:1616:G:H21	1:C1:1618:C:H41	1.12	0.88
1:A1:1348:A:H8	1:A1:1348:A:O5'	1.55	0.88
29:B1:3174:A:H1'	29:B1:3175:U:H5''	1.54	0.88
36:BE:97:ALA:HA	36:BE:100:ALA:CB	2.03	0.88
29:D1:1100:U:H2'	29:D1:1101:G:C8	2.09	0.88
29:B1:534:U:H6	29:B1:534:U:O5'	1.54	0.88
29:D1:2851:A:H2'	29:D1:2852:C:O4'	1.71	0.88
29:D1:3392:U:C2	29:D1:3393:U:C4	2.62	0.88
29:D1:594:U:O2	29:D1:595:G:C4	2.26	0.88
29:D1:826:G:O2'	29:D1:1589:A:C8	2.25	0.88
29:D1:996:A:H2'	29:D1:997:A:O4'	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:94:C:H4'	31:D3:95:G:OP2	1.71	0.88
1:C1:1480:G:C5'	1:C1:1480:G:H8	1.85	0.88
29:B1:3382:U:H3'	29:B1:3383:G:C4'	2.02	0.88
29:B1:1079:A:C6	29:B1:1080:A:C6	2.62	0.88
29:B1:623:U:H2'	29:B1:624:G:H8	1.30	0.88
1:A1:1007:C:H5''	1:A1:1008:G:OP2	1.73	0.88
29:B1:1547:G:H2'	29:B1:1548:C:C6	2.08	0.88
29:B1:407:A:C2	31:B3:17:A:H1'	2.08	0.88
1:C1:10:G:H5'	1:C1:1633:A:H3'	1.55	0.88
1:C1:1763:A:C3'	1:C1:1764:C:H5''	2.03	0.88
1:C1:518:A:H2'	1:C1:519:C:H5''	1.53	0.88
29:D1:2650:U:H5''	29:D1:2651:G:OP2	1.73	0.88
29:D1:2869:U:H5''	29:D1:2870:C:OP2	1.72	0.88
29:D1:3150:A:H3'	29:D1:3151:U:C5'	2.04	0.88
29:D1:379:C:H6	29:D1:379:C:H5''	1.37	0.88
29:D1:407:A:C2	31:D3:17:A:H1'	2.09	0.88
1:C1:1481:C:H1'	1:C1:1482:C:O5'	1.73	0.88
1:A1:1558:U:C6	1:A1:1559:A:H5''	2.08	0.88
29:D1:623:U:H2'	29:D1:624:G:C8	2.09	0.88
29:D1:3314:A:H5''	34:DC:119:TYR:H	1.39	0.88
29:B1:1100:U:H2'	29:B1:1101:G:C8	2.07	0.88
1:A1:1434:U:O3'	1:A1:1435:G:H3'	1.72	0.88
29:D1:2601:A:O2'	29:D1:2602:G:H5'	1.73	0.88
2:AA:146:LEU:HA	2:AA:160:ILE:HA	1.53	0.88
1:C1:1022:C:H4'	1:C1:1124:A:N6	1.89	0.88
1:A1:606:A:N7	1:A1:608:U:H5	1.71	0.88
29:B1:53:G:H5'	29:B1:812:G:H4'	1.55	0.88
29:D1:156:G:C8	29:D1:157:A:H1'	2.08	0.88
29:D1:2807:U:O2'	29:D1:2808:A:H5''	1.73	0.88
29:D1:3322:A:H2'	29:D1:3323:A:H8	1.39	0.88
29:D1:534:U:H6	29:D1:534:U:O5'	1.55	0.88
31:D3:19:C:H2'	31:D3:20:U:C6	2.07	0.88
31:B3:74:U:OP2	31:B3:76:C:C2	2.27	0.88
29:D1:2672:G:O3'	42:DK:105:GLY:HA2	1.74	0.88
1:A1:320:U:H4'	1:A1:321:C:OP1	1.72	0.88
1:A1:1174:C:H2'	1:A1:1175:U:C6	2.09	0.88
29:B1:3201:C:O4'	29:B1:3201:C:OP2	1.91	0.88
29:B1:1324:U:H6	29:B1:1324:U:C5'	1.86	0.88
29:D1:2520:A:C4	29:D1:2521:U:N3	2.41	0.88
29:D1:1625:A:H3'	29:D1:1626:U:C5'	2.04	0.88
8:AG:51:GLY:HA2	8:AG:53:LEU:H	1.33	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BY:137:LYS:O	54:BY:140:ALA:HB3	1.74	0.88
29:B1:1157:G:H2'	29:B1:1158:A:O4'	1.73	0.88
29:B1:2834:G:O2'	29:B1:2835:U:H6	1.56	0.88
29:B1:606:C:C2'	29:B1:607:A:C1'	2.52	0.88
29:B1:757:C:H2'	29:B1:757:C:O2	1.73	0.88
1:C1:361:C:N3	1:C1:384:G:N2	2.22	0.88
29:D1:1180:A:C4	29:D1:1182:A:C8	2.62	0.88
29:D1:1288:U:O2'	29:D1:1289:G:H5''	1.73	0.88
29:D1:150:A:H2'	29:D1:151:A:H8	1.38	0.88
29:D1:1547:G:H2'	29:D1:1548:C:C6	2.09	0.88
29:D1:2293:C:C5	29:D1:2294:U:H5	1.91	0.88
37:DF:40:LEU:HA	37:DF:85:ILE:CB	2.04	0.88
31:B3:70:G:C8	31:B3:71:A:C6	2.62	0.88
1:A1:1271:G:H2'	1:A1:1272:U:C6	2.08	0.88
29:D1:3198:U:H3'	29:D1:3199:G:H8	1.36	0.88
29:D1:3352:U:H2'	29:D1:3354:U:H4'	1.56	0.88
29:D1:1063:G:H5'	29:D1:1098:A:P	2.13	0.88
54:BY:131:SER:C	54:BY:133:LEU:H	1.77	0.88
6:AE:62:ARG:H	6:AE:63:ASP:CB	1.86	0.88
1:C1:373:G:H2'	1:C1:374:U:C6	2.07	0.88
47:BR:96:PHE:HA	47:BR:97:PRO:CB	2.01	0.88
29:B1:1019:G:H1	29:B1:1033:U:H3	0.90	0.88
1:A1:444:C:H42	1:A1:460:A:H62	1.22	0.88
29:B1:1440:G:H2'	29:B1:1441:G:H8	1.37	0.88
29:B1:159:A:O2'	29:B1:160:G:H5'	1.74	0.88
29:B1:422:A:H1'	29:B1:423:A:H5''	1.55	0.88
1:C1:1110:G:H5'	1:C1:1110:G:C8	2.08	0.88
1:C1:71:A:N3	1:C1:72:A:N7	2.22	0.88
29:D1:1378:U:H2'	29:D1:1379:G:C8	2.09	0.88
29:D1:1781:C:O2'	29:D1:1782:U:H5'	1.73	0.88
29:D1:2353:G:C5	29:D1:2354:C:C5	2.61	0.88
1:A1:450:U:H2'	1:A1:451:A:C8	2.08	0.88
1:A1:1345:A:H2'	1:A1:1346:A:C5	2.09	0.88
30:D2:23:A:H3'	30:D2:24:A:H8	1.37	0.88
29:B1:3242:G:C1'	29:B1:3246:G:H22	1.87	0.88
54:BY:131:SER:O	54:BY:133:LEU:N	2.06	0.88
29:B1:2942:C:H6	29:B1:2942:C:H3'	1.38	0.88
3:CB:219:GLY:O	3:CB:221:THR:N	2.05	0.88
29:B1:1152:G:H8	29:B1:1152:G:O5'	1.56	0.88
29:B1:1378:U:H2'	29:B1:1379:G:H8	1.35	0.88
29:B1:1844:C:C2	29:B1:1845:G:C8	2.62	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2262:A:H3'	29:B1:2263:C:C5'	2.03	0.88
29:B1:750:G:H22	29:B1:784:A:C1'	1.86	0.88
31:B3:40:A:C8	31:B3:40:A:H5'	2.07	0.88
1:C1:1764:C:OP1	1:C1:1771:U:H4'	1.73	0.88
1:C1:1771:U:H2'	1:C1:1772:C:H6	1.38	0.88
1:C1:190:C:H3'	1:C1:191:C:H5''	1.56	0.88
1:C1:316:A:OP1	1:C1:316:A:H4'	1.74	0.88
1:C1:955:A:H4'	1:C1:1074:G:O2'	1.73	0.88
29:D1:3056:U:C2	29:D1:3056:U:OP1	2.27	0.88
29:D1:3308:C:H5	29:D1:3309:G:C2	1.92	0.88
29:D1:43:A:N7	29:D1:2803:A:N6	2.22	0.88
30:B2:14:U:C6	30:B2:14:U:O5'	2.27	0.88
31:B3:69:U:C2	31:B3:70:G:H1'	2.09	0.88
29:B1:1640:G:O2'	29:B1:1641:U:H6	1.57	0.88
29:B1:126:U:HO2'	29:B1:127:G:H8	0.93	0.88
29:B1:1716:U:H3'	29:B1:1717:U:H4'	1.53	0.88
36:DE:134:ALA:HB3	36:DE:136:GLU:N	1.88	0.88
5:AD:144:GLU:HA	5:AD:160:VAL:O	1.73	0.88
1:A1:93:A:C8	1:A1:398:G:H2'	2.09	0.87
29:B1:3078:U:H4'	29:B1:3079:U:C5'	2.04	0.87
29:B1:835:G:O2'	29:B1:857:G:N2	2.07	0.87
29:B1:951:A:C2'	29:B1:952:A:H5''	2.03	0.87
1:C1:555:A:H3'	1:C1:555:A:OP2	1.73	0.87
29:D1:591:G:C2	29:D1:592:A:N9	2.42	0.87
29:D1:608:A:N6	29:D1:609:G:N7	2.21	0.87
31:D3:88:A:H2'	31:D3:89:A:C5	2.08	0.87
1:C1:1050:G:C4	1:C1:1051:G:H1'	2.08	0.87
29:D1:3217:C:H6	29:D1:3220:G:HO2'	1.19	0.87
1:A1:1222:C:H2'	1:A1:1223:A:H8	1.38	0.87
52:DW:69:SER:H	52:DW:72:ALA:HB3	1.39	0.87
5:CD:197:GLU:H	5:CD:200:ASN:H	1.21	0.87
1:A1:394:C:H42	1:A1:401:A:N6	1.72	0.87
29:B1:155:G:N7	29:B1:157:A:C2	2.41	0.87
29:B1:2655:U:H4'	29:B1:2656:A:C5'	2.04	0.87
29:D1:1441:G:H2'	29:D1:1442:U:C5'	2.04	0.87
29:D1:1778:G:H4'	29:D1:1779:C:N3	1.89	0.87
29:D1:3028:G:N2	29:D1:3029:A:N3	2.22	0.87
31:D3:104:A:H5''	31:D3:105:A:H8	1.40	0.87
30:B2:12:U:H5'	30:B2:68:C:O2'	1.73	0.87
1:C1:250:C:C2	1:C1:251:A:N7	2.42	0.87
1:A1:1487:A:H2'	1:A1:1488:G:H8	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:404:G:C2	29:D1:405:U:H1'	2.09	0.87
31:B3:123:G:H5''	74:B3:206:OHX:N1	1.88	0.87
29:B1:342:A:N1	29:B1:349:A:C8	2.42	0.87
29:B1:3222:U:H3	29:B1:3263:G:H1	1.22	0.87
29:B1:1640:G:OP1	29:B1:1738:C:H5''	1.72	0.87
29:B1:1667:A:H2'	29:B1:1668:G:H8	1.36	0.87
37:DF:86:ALA:HB1	37:DF:87:THR:HA	1.54	0.87
1:A1:528:U:H4'	1:A1:529:A:O5'	1.74	0.87
29:B1:2306:C:H6	29:B1:2306:C:H3'	1.38	0.87
29:B1:3012:A:C2'	29:B1:3013:U:H5''	2.04	0.87
29:B1:717:C:N4	29:B1:721:G:H5'	1.89	0.87
1:C1:973:A:H4'	29:D1:848:A:N3	1.89	0.87
29:D1:1317:A:O2'	29:D1:1318:A:H3'	1.73	0.87
29:D1:158:G:N7	29:D1:159:A:H1'	1.89	0.87
29:D1:3041:U:O2'	29:D1:3042:U:H5'	1.74	0.87
29:D1:323:A:C8	29:D1:324:A:N7	2.41	0.87
29:D1:608:A:H3'	29:D1:608:A:C8	2.10	0.87
29:D1:829:U:H4'	29:D1:866:A:C2	2.08	0.87
31:D3:40:A:H5'	31:D3:40:A:H8	1.39	0.87
1:C1:1375:A:H2'	1:C1:1376:C:C6	2.08	0.87
1:A1:1190:C:H4'	1:A1:1191:U:OP1	1.71	0.87
1:A1:1203:A:C2	1:A1:1556:A:H1'	2.08	0.87
1:A1:1575:G:N3	1:A1:1575:G:H2'	1.85	0.87
29:B1:1255:C:C4	74:B1:3567:OHX:N2	2.42	0.87
29:B1:1186:G:H2'	29:B1:1187:C:C5'	2.04	0.87
36:DE:199:ILE:O	36:DE:201:GLY:HA2	1.74	0.87
42:DK:27:GLY:HA2	42:DK:29:ARG:H	1.39	0.87
6:CE:62:ARG:H	6:CE:63:ASP:CB	1.86	0.87
1:A1:1763:A:OP2	1:A1:1768:G:OP2	1.91	0.87
1:A1:380:U:H2'	1:A1:381:C:C6	2.09	0.87
29:B1:1190:A:C2	29:B1:1191:U:H6	1.92	0.87
29:B1:405:U:C5	29:B1:406:G:C5	2.62	0.87
29:D1:1164:G:H2'	29:D1:1165:A:H8	1.40	0.87
29:D1:2271:A:H2'	29:D1:2272:G:C5'	2.05	0.87
29:D1:3151:U:OP2	29:D1:3152:U:OP1	1.92	0.87
29:D1:327:A:H2	29:D1:328:U:C4	1.93	0.87
29:D1:726:G:N1	29:D1:727:G:C6	2.42	0.87
30:B2:13:A:C2	30:B2:13:A:O5'	2.28	0.87
29:D1:3190:C:H42	29:D1:3202:G:H1	1.22	0.87
1:C1:888:U:H5''	1:C1:889:U:OP2	1.73	0.87
34:DC:153:LYS:CB	34:DC:155:ALA:HB2	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1661:U:H2'	1:C1:1662:G:C8	2.08	0.87
37:BF:2:SER:O	38:BG:79:ALA:HB3	1.74	0.87
29:B1:366:A:N6	29:B1:367:A:C2	2.42	0.87
40:BI:63:LYS:HA	40:BI:66:ALA:HB3	1.56	0.87
1:A1:1141:G:H3'	1:A1:1142:A:C5'	2.05	0.87
29:B1:515:C:H3'	29:B1:516:A:C5'	2.04	0.87
38:BG:69:ALA:HB1	38:BG:75:TYR:H	1.38	0.87
29:D1:2253:G:O6	29:D1:2263:C:N4	2.07	0.87
29:D1:3090:U:C5'	29:D1:3090:U:C6	2.57	0.87
29:D1:641:C:O2'	29:D1:642:U:OP1	1.93	0.87
29:D1:726:G:C2	29:D1:727:G:C6	2.62	0.87
29:B1:2702:A:C8	29:B1:2704:A:N6	2.43	0.87
30:B2:11:A:H2	36:BE:16:PHE:HA	1.37	0.87
1:A1:1204:A:OP1	1:A1:1204:A:H4'	1.74	0.87
29:B1:618:C:C2'	29:B1:619:A:H8	1.85	0.87
1:C1:417:A:H8	1:C1:417:A:O5'	1.55	0.87
29:D1:884:A:N7	29:D1:2139:A:C4	2.42	0.87
9:CH:60:ALA:O	9:CH:63:ALA:HB3	1.75	0.87
50:DU:133:SER:O	50:DU:135:VAL:N	2.06	0.87
29:B1:2990:G:H2'	29:B1:2991:A:H5'	1.55	0.87
29:B1:414:U:O2'	29:B1:415:G:H5'	1.74	0.87
29:B1:942:U:OP1	29:B1:1434:G:N7	2.06	0.87
31:B3:40:A:C2'	31:B3:41:A:H8	1.87	0.87
1:C1:283:U:H2'	1:C1:284:G:O4'	1.75	0.87
1:C1:93:A:C8	1:C1:398:G:H2'	2.09	0.87
29:D1:2699:G:H8	29:D1:2699:G:H5'	1.40	0.87
29:D1:720:A:C8	29:D1:720:A:O5'	2.28	0.87
1:A1:836:U:H2'	1:A1:837:G:H8	1.40	0.87
31:B3:63:G:N2	31:B3:98:U:O2	2.08	0.87
6:CE:123:HIS:O	6:CE:125:ALA:N	2.07	0.87
1:C1:1291:G:N2	1:C1:1324:G:H1	1.72	0.87
29:B1:1062:A:O2'	29:B1:1063:G:OP1	1.92	0.87
1:C1:1022:C:H4'	1:C1:1124:A:H61	1.38	0.87
34:BC:161:LEU:HA	34:BC:179:ALA:O	1.75	0.87
1:A1:1626:U:C2'	1:A1:1627:U:H5'	2.05	0.87
29:B1:1139:G:H8	29:B1:1139:G:C5'	1.87	0.87
29:B1:3316:A:H61	29:B1:3388:C:N4	1.73	0.87
29:B1:592:A:OP2	29:B1:592:A:H8	1.56	0.87
1:C1:404:G:H2'	1:C1:405:C:H6	1.39	0.87
29:D1:3315:G:O2'	29:D1:3316:A:C8	2.27	0.87
29:D1:1186:G:C2'	29:D1:1187:C:H5'	2.02	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3262:U:H2'	29:D1:3263:G:H8	1.39	0.87
1:C1:1578:U:O2'	1:C1:1579:U:H5'	1.75	0.87
29:B1:1792:C:O3'	29:B1:1793:C:H3'	1.72	0.87
29:B1:2966:G:O2'	29:B1:2967:A:H5'	1.73	0.87
29:B1:3105:U:H5	29:B1:3128:G:H21	1.22	0.87
29:B1:523:A:H2'	29:B1:524:U:H5'	1.54	0.87
1:C1:861:U:C5	1:C1:862:A:C8	2.63	0.87
29:D1:1191:U:O2	29:D1:1191:U:C2'	2.21	0.87
29:D1:504:A:H2	29:D1:587:U:H3	1.12	0.87
29:D1:636:C:C5	29:D1:2378:C:O4'	2.27	0.87
29:D1:726:G:H1'	29:D1:744:A:N1	1.89	0.87
29:D1:993:G:N3	29:D1:2637:A:H2'	1.90	0.87
29:D1:3218:A:C2'	29:D1:3219:G:H3'	2.04	0.87
44:DO:185:ALA:O	44:DO:187:ARG:HA	1.74	0.87
29:B1:834:U:H5''	29:B1:834:U:C6	2.10	0.87
54:DY:111:LYS:HA	54:DY:128:ARG:CB	2.04	0.87
1:A1:93:A:C4	1:A1:399:A:C2	2.62	0.87
29:B1:3330:A:H2'	29:B1:3331:U:H6	1.36	0.87
29:B1:585:A:H5''	29:B1:586:C:OP2	1.73	0.87
29:B1:609:G:H3'	29:B1:609:G:P	2.14	0.87
1:C1:1100:G:C4'	1:C1:1101:G:OP1	2.21	0.87
1:C1:594:A:H4'	1:C1:595:G:H5'	1.54	0.87
1:C1:869:A:H2'	1:C1:870:C:O4'	1.73	0.87
31:B3:81:U:H3'	31:B3:82:U:H5''	1.57	0.87
31:B3:92:A:H2'	31:B3:93:U:H5'	1.57	0.87
1:C1:1491:U:H5''	1:C1:1492:A:H3'	1.57	0.87
29:D1:187:A:H1'	29:D1:211:A:N6	1.89	0.87
29:B1:3225:C:H42	29:B1:3261:C:N4	1.73	0.87
29:D1:2834:G:C4	29:D1:2835:U:C5	2.63	0.87
1:A1:1221:A:H2'	1:A1:1222:C:C6	2.09	0.87
42:BK:27:GLY:HA2	42:BK:29:ARG:H	1.39	0.87
29:B1:2888:U:C5	29:B1:2910:A:C6	2.63	0.87
1:A1:8:U:C5	1:A1:1140:G:O6	2.28	0.86
29:B1:1678:G:H2'	29:B1:1679:A:H8	1.40	0.86
29:B1:518:G:H22	29:B1:572:A:N6	1.70	0.86
1:C1:162:A:H3'	1:C1:163:G:C8	2.10	0.86
1:C1:407:A:H2'	1:C1:408:C:H6	1.39	0.86
29:D1:315:C:C2	29:D1:316:U:C5	2.62	0.86
29:D1:720:A:H8	29:D1:720:A:O5'	1.58	0.86
29:D1:727:G:N2	29:D1:741:U:H3	1.71	0.86
38:DG:49:ALA:O	38:DG:51:TYR:N	2.07	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1236:G:H3'	29:B1:1237:G:H4'	1.56	0.86
44:BO:185:ALA:O	44:BO:187:ARG:HA	1.75	0.86
29:B1:1625:A:H3'	29:B1:1626:U:C5'	2.05	0.86
29:B1:1508:C:OP2	29:B1:1509:A:OP2	1.91	0.86
29:B1:3352:U:H2'	29:B1:3354:U:H4'	1.56	0.86
29:B1:2888:U:C4	29:B1:2910:A:C2	2.63	0.86
32:BA:178:VAL:O	32:BA:182:GLN:CB	2.23	0.86
1:A1:811:A:HO2'	1:A1:858:G:H8	1.23	0.86
29:B1:1680:G:N3	29:B1:1681:U:C6	2.44	0.86
29:B1:190:U:C5	29:B1:224:C:H1'	2.09	0.86
29:B1:2293:C:H5	29:B1:2294:U:H5	1.20	0.86
29:B1:745:C:N4	29:B1:746:A:N6	2.22	0.86
1:C1:267:U:H2'	1:C1:267:U:O2	1.72	0.86
1:C1:59:C:C6	1:C1:62:A:N6	2.42	0.86
29:D1:3160:U:H3	29:D1:3290:G:H1	1.20	0.86
29:D1:3316:A:N6	29:D1:3320:A:N1	2.21	0.86
29:D1:3330:A:H2'	29:D1:3331:U:H6	1.40	0.86
29:D1:754:G:N2	29:D1:778:U:H3	1.71	0.86
29:D1:828:A:H5''	29:D1:829:U:OP2	1.75	0.86
29:D1:952:A:H1'	29:D1:1114:U:O2'	1.74	0.86
1:A1:228:G:C2	1:A1:229:U:C2	2.63	0.86
1:A1:151:G:H1	1:A1:163:G:N2	1.72	0.86
29:D1:3176:G:H2'	29:D1:3177:G:C5'	2.05	0.86
29:D1:1257:C:H2'	29:D1:1257:C:O2	1.73	0.86
1:A1:1221:A:H2'	1:A1:1222:C:H6	1.40	0.86
11:AJ:93:HIS:CB	11:AJ:94:GLN:HA	2.06	0.86
13:AL:96:LYS:CB	13:AL:97:ASP:HA	2.05	0.86
1:A1:33:U:H1'	1:A1:468:A:C2	2.10	0.86
1:A1:609:U:H5''	1:A1:610:G:N7	1.90	0.86
29:B1:31:C:C2'	29:B1:32:U:H5'	2.05	0.86
29:B1:859:G:N2	29:B1:861:C:H1'	1.91	0.86
29:B1:936:A:H5''	29:B1:937:G:OP1	1.75	0.86
29:D1:1178:G:H2'	29:D1:1179:A:H5'	1.57	0.86
29:D1:688:G:H1'	29:D1:692:A:H61	1.39	0.86
1:A1:267:U:H2'	1:A1:267:U:O2	1.72	0.86
1:A1:288:A:N3	1:A1:289:U:H5	1.73	0.86
1:A1:452:A:H2'	1:A1:453:U:C5'	2.04	0.86
1:A1:1678:A:H2	1:A1:1725:U:H3	1.17	0.86
1:A1:1250:U:N3	1:A1:1251:U:C4	2.44	0.86
1:A1:1274:C:H6	1:A1:1427:A:H62	1.19	0.86
1:A1:1480:G:C8	1:A1:1480:G:H5'	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1621:A:H2'	29:D1:1622:U:C6	2.09	0.86
1:C1:782:U:H4'	1:C1:783:G:O5'	1.75	0.86
1:A1:28:A:H2'	1:A1:29:U:C6	2.11	0.86
29:B1:1154:A:H5'	29:B1:1155:C:H5	1.39	0.86
29:B1:417:A:H2'	29:B1:418:A:H8	1.40	0.86
29:B1:688:G:H1'	29:B1:692:A:H61	1.40	0.86
1:C1:450:U:H2'	1:C1:451:A:C8	2.11	0.86
1:C1:973:A:H1'	29:D1:847:A:C2	2.09	0.86
1:C1:976:G:H5''	1:C1:977:A:OP1	1.74	0.86
29:D1:1190:A:H2	29:D1:1191:U:H6	1.23	0.86
29:D1:1442:U:H5'	29:D1:1442:U:H6	1.40	0.86
29:D1:1303:A:C2	29:D1:2887:A:C6	2.63	0.86
29:D1:3334:U:H5'	29:D1:3371:G:H21	1.39	0.86
29:D1:606:C:H2'	29:D1:607:A:N9	1.90	0.86
31:D3:81:U:H3'	31:D3:82:U:H5''	1.58	0.86
1:C1:1161:C:H1'	1:C1:1620:C:N4	1.90	0.86
1:A1:1481:C:H1'	1:A1:1482:C:O5'	1.76	0.86
1:A1:415:C:O2	1:A1:418:G:N1	2.07	0.86
29:B1:1640:G:C4	29:B1:1641:U:C5	2.63	0.86
1:A1:1047:G:H1	1:A1:1071:U:H3	0.88	0.86
1:A1:526:A:N3	1:A1:526:A:H2'	1.88	0.86
29:B1:285:A:H2	29:B1:304:G:O3'	1.58	0.86
29:B1:3064:U:O2'	29:B1:3065:G:H5'	1.76	0.86
29:B1:41:G:C8	29:B1:42:C:C5	2.62	0.86
37:BF:92:SER:O	37:BF:94:GLU:N	2.08	0.86
1:C1:126:A:N1	1:C1:292:U:H1'	1.90	0.86
29:D1:1782:U:H2'	29:D1:1783:U:O4'	1.76	0.86
29:D1:2143:A:C2'	29:D1:2144:A:H5'	2.05	0.86
29:D1:282:G:P	29:D1:282:G:H3'	2.16	0.86
29:D1:517:G:OP2	29:D1:517:G:C8	2.27	0.86
31:D3:138:A:H2	31:D3:139:U:C2	1.93	0.86
29:B1:2689:A:H4'	29:B1:2690:G:H5'	1.56	0.86
31:B3:55:U:H3	31:B3:62:C:H41	1.22	0.86
1:A1:1684:U:O2	1:A1:1684:U:H3'	1.74	0.86
1:C1:1444:A:H5'	1:C1:1446:A:N7	1.90	0.86
29:B1:3218:A:C2'	29:B1:3219:G:H3'	2.05	0.86
29:D1:394:G:H1	29:D1:397:A:H5''	1.39	0.86
1:A1:763:G:H2'	1:A1:764:U:C6	2.10	0.86
43:DN:26:GLY:O	43:DN:27:GLN:O	1.94	0.86
1:A1:14:C:P	3:AB:161:LYS:O	2.34	0.86
29:B1:659:G:N1	29:B1:1432:C:O2	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1781:C:O2'	29:B1:1782:U:H5'	1.74	0.86
29:D1:2361:A:N6	29:D1:2377:G:O6	2.08	0.86
1:C1:825:U:O4	1:C1:847:A:N6	2.07	0.86
29:B1:2667:A:N3	29:B1:2667:A:C3'	2.37	0.86
31:B3:94:C:H4'	31:B3:95:G:OP2	1.74	0.86
1:C1:1350:U:OP2	1:C1:1351:G:C8	2.28	0.86
1:A1:1375:A:H2'	1:A1:1376:C:N1	1.89	0.86
15:AN:22:ILE:HA	15:AN:118:VAL:HA	1.54	0.86
36:DE:128:GLU:CB	36:DE:129:TYR:HA	2.06	0.86
41:DJ:93:PRO:HA	41:DJ:127:ALA:HB2	1.58	0.86
29:B1:1193:A:N7	29:B1:1194:G:N1	2.23	0.86
29:B1:2714:G:C8	29:B1:2716:U:C6	2.64	0.86
29:B1:828:A:H5''	29:B1:829:U:OP2	1.74	0.86
1:C1:1073:G:C6	1:C1:1074:G:C6	2.63	0.86
1:C1:515:A:OP2	74:C1:1933:OHX:N2	2.09	0.86
29:D1:1193:A:C8	29:D1:1194:G:C2	2.64	0.86
31:D3:139:U:H2'	31:D3:140:G:H8	1.41	0.86
29:B1:2684:C:C6	29:B1:2684:C:C5'	2.47	0.86
1:C1:1244:A:N3	1:C1:1244:A:H2'	1.88	0.86
1:C1:1558:U:H6	1:C1:1559:A:H5''	1.41	0.86
29:B1:1023:C:H3'	29:B1:1024:G:H4'	1.56	0.86
29:B1:1658:G:H2'	29:B1:1659:U:H6	1.41	0.86
29:B1:405:U:O4	29:B1:406:G:C2	2.28	0.86
29:B1:501:A:N6	29:B1:502:U:O4	2.09	0.86
29:B1:775:A:C3'	29:B1:776:U:H4'	2.05	0.86
31:B3:139:U:H2'	31:B3:140:G:H8	1.40	0.86
1:C1:1000:C:H5	1:C1:1003:A:OP2	1.57	0.86
29:D1:116:A:C2	29:D1:265:A:OP2	2.28	0.86
29:D1:1294:A:H8	29:D1:1294:A:H5''	1.41	0.86
29:D1:3102:G:H8	29:D1:3102:G:H5'	1.39	0.86
29:D1:535:G:H3'	29:D1:536:U:H5	1.39	0.86
29:D1:53:G:H5'	29:D1:812:G:H4'	1.57	0.86
29:D1:580:C:C2	29:D1:581:U:H5	1.92	0.86
1:A1:173:A:N1	1:A1:174:U:H1'	1.91	0.86
30:D2:9:C:C2'	30:D2:13:A:H62	1.86	0.86
17:CP:132:LEU:N	17:CP:133:LEU:HA	1.89	0.86
1:A1:555:A:H2	1:A1:556:A:C2	1.94	0.86
1:A1:976:G:H5''	1:A1:977:A:OP1	1.76	0.86
29:B1:1507:G:H8	29:B1:1507:G:OP2	1.58	0.86
29:B1:3085:G:H5'	29:B1:3331:U:OP1	1.75	0.86
29:B1:3313:U:O2'	29:B1:3314:A:C8	2.28	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3392:U:N3	29:B1:3393:U:O4	2.07	0.86
29:B1:39:A:C8	29:B1:41:G:OP2	2.28	0.86
29:B1:432:G:H2'	29:B1:433:A:C8	2.09	0.86
29:B1:556:U:H2'	29:B1:557:A:H1'	1.58	0.86
1:C1:520:A:H2'	1:C1:521:A:C8	2.09	0.86
1:C1:521:A:H4'	1:C1:522:U:OP1	1.75	0.86
29:D1:1130:A:H2'	29:D1:1132:C:C6	2.09	0.86
29:D1:2270:A:H8	29:D1:2270:A:H5''	1.37	0.86
29:D1:3391:A:C2	29:D1:3392:U:C6	2.63	0.86
29:D1:559:A:C4	29:D1:560:G:N7	2.43	0.86
1:C1:972:G:N2	29:D1:846:A:H61	1.71	0.86
30:B2:97:A:H2'	30:B2:98:C:C6	2.10	0.86
1:A1:1487:A:H2'	1:A1:1488:G:C8	2.10	0.86
29:D1:3198:U:C3'	29:D1:3199:G:H8	1.88	0.86
29:B1:1623:G:O6	29:B1:1822:C:N4	2.07	0.86
32:BA:154:THR:HA	32:BA:155:ILE:O	1.76	0.86
1:A1:1756:A:N6	74:A1:1901:OHX:N5	2.23	0.86
29:B1:1194:G:C4	29:B1:1309:U:O2	2.29	0.86
29:B1:210:U:H3	35:BD:162:THR:H	1.20	0.86
29:B1:2379:U:H2'	29:B1:2380:U:H6	1.38	0.86
29:B1:3135:U:C5	29:B1:3136:G:C5	2.64	0.86
29:B1:404:G:C2	29:B1:405:U:H1'	2.11	0.86
29:B1:43:A:H62	29:B1:2802:A:H2	1.23	0.86
29:D1:2350:C:H4'	29:D1:3308:C:O2'	1.76	0.86
29:D1:354:U:H2'	29:D1:354:U:O2	1.76	0.86
29:D1:542:G:H2'	29:D1:543:C:C6	2.11	0.86
1:A1:112:A:H4'	1:A1:113:U:OP1	1.76	0.86
1:A1:1263:G:C2	1:A1:1264:G:H1'	2.10	0.86
29:D1:3313:U:O2'	29:D1:3314:A:C8	2.29	0.86
29:D1:2131:A:C2'	29:D1:2132:C:H5''	2.05	0.86
1:C1:979:A:C2	1:C1:1775:U:H4'	2.09	0.86
13:AL:37:GLY:HA3	13:AL:102:ALA:HA	1.55	0.86
29:B1:2132:C:H6	29:B1:2132:C:H5'	1.39	0.86
13:CL:121:ALA:HB3	13:CL:124:GLY:HA3	1.55	0.86
29:B1:1383:G:H4'	35:BD:241:GLY:HA2	1.55	0.86
1:A1:1138:A:C2	1:A1:1139:A:C5	2.64	0.85
1:A1:121:U:H2'	1:A1:122:U:O4'	1.76	0.85
1:A1:533:U:H3'	1:A1:534:A:H8	1.41	0.85
29:B1:1129:A:N6	29:B1:1130:A:N6	2.24	0.85
29:B1:2259:A:H3'	29:B1:2260:U:C6	2.11	0.85
29:B1:776:U:H3'	29:B1:777:U:C5'	2.04	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1440:G:H2'	29:D1:1441:G:H8	1.40	0.85
29:D1:1495:U:H2'	29:D1:1842:A:C2	2.12	0.85
29:D1:3393:U:O2'	29:D1:3394:U:H5'	1.75	0.85
29:D1:969:C:H5''	29:D1:970:A:OP2	1.76	0.85
31:D3:40:A:C2'	31:D3:41:A:H8	1.87	0.85
1:C1:847:A:H2'	1:C1:848:C:C5'	2.05	0.85
1:C1:1274:C:OP2	1:C1:1428:G:O5'	1.94	0.85
1:A1:1274:C:OP2	1:A1:1428:G:P	2.34	0.85
29:B1:3201:C:C2	29:B1:3202:G:C8	2.64	0.85
30:B2:41:G:H5'	30:B2:42:A:OP2	1.76	0.85
29:D1:3264:G:C3'	29:D1:3265:C:H5''	2.06	0.85
1:A1:643:G:N2	1:A1:692:C:C2	2.44	0.85
17:AP:132:LEU:N	17:AP:133:LEU:HA	1.91	0.85
6:AE:71:PHE:O	6:AE:75:ALA:HB2	1.76	0.85
29:B1:158:G:N7	29:B1:159:A:H1'	1.91	0.85
29:B1:1448:U:H5	29:B1:2355:G:N2	1.72	0.85
1:C1:54:C:H2'	1:C1:55:A:H5'	1.57	0.85
29:D1:2270:A:H2'	29:D1:2271:A:C8	2.10	0.85
29:D1:591:G:H21	29:D1:592:A:C1'	1.85	0.85
29:D1:743:C:H2'	29:D1:744:A:C5'	2.01	0.85
29:D1:750:G:H22	29:D1:784:A:H1'	1.40	0.85
29:D1:937:G:H22	29:D1:960:U:C5'	1.87	0.85
31:D3:55:U:H3	31:D3:62:C:H41	1.24	0.85
1:A1:71:A:N3	1:A1:72:A:N7	2.24	0.85
1:A1:1458:G:C5'	1:A1:1459:C:C5	2.51	0.85
1:A1:1591:C:H2'	1:A1:1592:A:C8	2.11	0.85
29:B1:382:U:H2'	29:B1:383:G:H4'	1.55	0.85
29:B1:3212:C:N3	29:B1:3213:A:H2	1.74	0.85
29:B1:3189:G:H2'	29:B1:3190:C:H6	1.40	0.85
29:D1:3219:G:C2	29:D1:3258:U:OP2	2.29	0.85
29:D1:1383:G:H4'	35:DD:241:GLY:CA	2.06	0.85
29:B1:122:A:H2'	29:B1:123:A:H8	1.40	0.85
29:B1:2932:U:C6	29:B1:2935:U:H5	1.93	0.85
29:B1:425:G:C8	29:B1:425:G:H5''	2.10	0.85
29:B1:781:G:H2'	29:B1:782:U:H5'	1.55	0.85
1:C1:33:U:H1'	1:C1:468:A:C2	2.11	0.85
1:C1:468:A:N6	1:C1:595:G:C5	2.44	0.85
29:D1:155:G:P	29:D1:155:G:H8	1.97	0.85
29:D1:1661:G:OP1	29:D1:1661:G:H4'	1.73	0.85
29:D1:592:A:H2'	29:D1:593:C:C3'	2.06	0.85
29:D1:607:A:OP2	29:D1:607:A:C8	2.29	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DG:69:ALA:CB	38:DG:75:TYR:H	1.90	0.85
1:A1:225:A:H61	1:A1:836:U:H3	1.20	0.85
29:B1:2689:A:N3	29:B1:2702:A:H2	1.74	0.85
30:B2:61:G:H2'	30:B2:62:U:C6	2.11	0.85
1:A1:1722:A:H8	1:A1:1723:U:C6	1.94	0.85
1:C1:1378:U:H5'	1:C1:1379:C:H6	1.40	0.85
1:A1:1542:G:H8	1:A1:1542:G:OP2	1.59	0.85
29:D1:1065:A:H1'	29:D1:1093:A:H61	1.40	0.85
1:C1:1420:C:H5	1:C1:1421:A:C8	1.90	0.85
29:D1:2942:C:H6	29:D1:2942:C:H3'	1.40	0.85
1:C1:1435:G:H4'	1:C1:1436:A:OP2	1.76	0.85
29:B1:2205:U:H2'	29:B1:2206:G:H5'	1.58	0.85
1:A1:618:U:H5''	1:A1:1030:A:C2	2.12	0.85
1:A1:1646:C:O2	1:A1:1646:C:H2'	1.74	0.85
1:A1:402:C:H2'	1:A1:403:G:C5'	2.05	0.85
29:B1:1782:U:H2'	29:B1:1783:U:O4'	1.75	0.85
29:B1:2113:A:H2'	29:B1:2114:C:C5'	2.06	0.85
29:B1:2808:A:N7	29:B1:2955:U:H4'	1.91	0.85
29:B1:3000:A:H2'	29:B1:3001:C:C6	2.11	0.85
29:B1:3315:G:O2'	29:B1:3316:A:C8	2.30	0.85
29:B1:512:U:C2	29:B1:579:G:N1	2.44	0.85
31:B3:8:C:H2'	31:B3:9:A:H8	1.38	0.85
74:B1:3492:OHX:N5	54:BY:20:GLY:HA2	1.92	0.85
1:C1:606:A:H4'	1:C1:607:G:H3'	1.58	0.85
29:D1:118:U:H3	29:D1:150:A:N6	1.73	0.85
29:D1:896:A:H62	29:D1:2133:U:H3	1.23	0.85
29:D1:2395:G:H2'	29:D1:2396:G:H5'	1.59	0.85
29:D1:2808:A:N7	29:D1:2955:U:H4'	1.91	0.85
29:D1:847:A:H2'	29:D1:848:A:C8	2.09	0.85
29:D1:618:C:C2	29:D1:619:A:N7	2.44	0.85
29:B1:2353:G:C6	29:B1:2354:C:C5	2.64	0.85
1:C1:895:G:H2'	1:C1:896:U:O4'	1.75	0.85
1:A1:357:G:C4	1:A1:358:U:C5	2.65	0.85
1:A1:1291:G:N2	1:A1:1324:G:H1	1.73	0.85
29:D1:2889:C:O2'	29:D1:2890:A:H5'	1.77	0.85
9:CH:70:LYS:O	9:CH:73:GLU:CB	2.25	0.85
1:A1:612:U:H4'	1:A1:1099:U:C5	2.11	0.85
1:A1:1634:C:H2'	1:A1:1634:C:O2	1.75	0.85
1:A1:521:A:H4'	1:A1:522:U:OP1	1.76	0.85
29:B1:3301:U:C2	29:B1:3301:U:OP1	2.30	0.85
31:B3:19:C:C5	31:B3:20:U:H5	1.94	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1030:A:H3'	1:C1:1031:U:H5'	1.58	0.85
1:C1:313:U:C5	1:C1:1118:G:C2	2.64	0.85
29:D1:1286:A:H4'	29:D1:1287:A:OP1	1.75	0.85
29:D1:1528:G:H2'	29:D1:1529:A:H8	1.42	0.85
29:D1:2167:A:H2'	29:D1:2168:A:C8	2.11	0.85
30:D2:61:G:H2'	30:D2:62:U:C6	2.11	0.85
1:C1:1678:A:H2	1:C1:1725:U:H3	1.20	0.85
1:C1:335:U:H3'	1:C1:336:G:H8	1.40	0.85
1:C1:1163:A:N6	1:C1:1164:G:C6	2.45	0.85
1:C1:1584:G:N3	11:CJ:124:PRO:HA	1.91	0.85
29:B1:3219:G:H8	29:B1:3257:C:OP1	1.57	0.85
29:B1:70:A:C2	29:B1:71:A:O2'	2.29	0.85
29:B1:1621:A:H2'	29:B1:1622:U:C6	2.11	0.85
1:C1:1280:C:H2'	1:C1:1281:G:H8	1.41	0.85
29:D1:836:A:H1'	29:D1:858:A:C2	2.11	0.85
1:A1:1139:A:H2'	1:A1:1140:G:O5'	1.75	0.85
29:B1:1176:C:H5''	29:B1:1177:G:H5''	1.56	0.85
29:B1:2608:G:H2'	29:B1:2609:A:H8	1.41	0.85
29:B1:518:G:OP2	29:B1:518:G:C8	2.28	0.85
29:B1:576:C:C2'	29:B1:577:C:C5'	2.52	0.85
29:B1:743:C:H2'	29:B1:744:A:C5'	2.01	0.85
1:C1:1791:A:O2'	1:C1:1793:G:H5'	1.76	0.85
1:C1:193:U:H4'	1:C1:194:U:OP2	1.74	0.85
29:D1:2714:G:C8	29:D1:2716:U:C6	2.65	0.85
29:D1:284:A:H62	29:D1:2785:A:H4'	1.42	0.85
29:D1:723:U:H2'	29:D1:724:U:H5'	1.58	0.85
29:D1:775:A:C3'	29:D1:776:U:H4'	2.07	0.85
29:B1:992:A:N1	29:B1:993:G:N7	2.24	0.85
31:B3:70:G:H5'	31:B3:71:A:C8	2.09	0.85
30:D2:46:A:O5'	30:D2:46:A:N3	2.10	0.85
5:CD:144:GLU:HA	5:CD:160:VAL:O	1.76	0.85
29:B1:140:C:H2'	29:B1:141:C:C6	2.12	0.85
1:A1:1728:A:H2'	1:A1:1729:C:H6	1.38	0.85
29:B1:2136:C:H5'	29:B1:2137:U:OP2	1.76	0.85
29:B1:2381:G:O2'	29:B1:2382:G:H5'	1.76	0.85
1:C1:606:A:C8	1:C1:608:U:H5	1.94	0.85
29:D1:1128:U:O2	29:D1:1128:U:H2'	1.77	0.85
29:D1:1580:A:H3'	29:D1:1581:C:C5'	2.07	0.85
1:A1:842:C:H2'	1:A1:843:U:C6	2.11	0.85
29:B1:2680:A:N6	42:BK:56:THR:O	2.09	0.85
30:D2:25:G:C5	30:D2:26:C:N4	2.44	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:883:C:H42	1:C1:945:U:H3	1.24	0.85
29:D1:1687:U:O3'	29:D1:1688:U:H4'	1.77	0.85
45:BP:99:LEU:O	45:BP:101:ARG:N	2.10	0.85
40:DI:111:PHE:HA	40:DI:112:ILE:C	1.96	0.85
36:BE:223:PHE:C	36:BE:225:GLY:HA3	1.97	0.85
29:B1:257:U:H2'	29:B1:258:G:H8	1.38	0.85
29:B1:3333:G:H1	29:B1:3370:A:HO2'	1.24	0.85
31:B3:19:C:H2'	31:B3:20:U:C6	2.10	0.85
29:D1:2279:A:O5'	29:D1:2280:A:H5''	1.77	0.85
29:D1:2847:A:H3'	29:D1:2848:G:H8	1.42	0.85
29:D1:2932:U:C6	29:D1:2935:U:H5	1.95	0.85
29:D1:580:C:N3	29:D1:581:U:H5	1.74	0.85
29:D1:819:U:H2'	29:D1:820:A:H8	1.40	0.85
30:B2:114:U:H5'	30:B2:115:G:OP2	1.75	0.85
1:C1:1274:C:OP2	1:C1:1428:G:OP1	1.95	0.85
29:B1:3264:G:C2'	29:B1:3265:C:H5''	2.06	0.85
29:B1:2120:A:O2'	29:B1:2121:G:O5'	1.94	0.85
1:C1:1222:C:H2'	1:C1:1223:A:C8	2.11	0.85
29:B1:1072:G:H2'	29:B1:1073:U:C6	2.11	0.85
29:B1:2287:C:O2	29:B1:2298:U:O4'	1.95	0.85
1:A1:1784:C:H2'	1:A1:1785:U:H6	1.41	0.85
29:D1:1640:G:OP1	29:D1:1738:C:H5''	1.77	0.85
29:D1:2306:C:H3'	29:D1:2306:C:H6	1.42	0.85
29:B1:1580:A:H3'	29:B1:1581:C:C5'	2.06	0.85
29:B1:116:A:C2	29:B1:265:A:OP2	2.30	0.85
29:B1:2932:U:H2'	29:B1:2932:U:O2	1.76	0.85
29:B1:2992:U:H2'	29:B1:2993:G:C5'	2.05	0.85
29:B1:323:A:C8	29:B1:324:A:N7	2.44	0.85
29:B1:824:C:H2'	29:B1:825:U:C6	2.12	0.85
29:B1:952:A:H2'	29:B1:953:G:C5'	2.05	0.85
1:C1:172:C:O2'	1:C1:173:A:H8	1.60	0.85
29:D1:1455:U:H4'	29:D1:1456:A:OP2	1.74	0.85
29:D1:3104:U:C2'	29:D1:3105:U:H5'	2.07	0.85
29:D1:382:U:H2'	29:D1:383:G:H4'	1.59	0.85
29:D1:776:U:H3'	29:D1:777:U:C5'	2.05	0.85
29:D1:871:U:H2'	29:D1:872:U:C6	2.12	0.85
1:C1:844:A:N7	74:C1:1917:OHX:N4	2.25	0.85
1:C1:842:C:H2'	1:C1:843:U:C6	2.12	0.85
30:D2:12:U:H5'	30:D2:68:C:O2'	1.77	0.85
1:C1:112:A:H4'	1:C1:113:U:OP1	1.75	0.85
1:C1:336:G:H2'	1:C1:337:G:H5''	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2677:G:N1	29:D1:2679:A:C5	2.45	0.85
1:A1:1458:G:N3	1:A1:1458:G:H2'	1.90	0.85
29:B1:3190:C:H2'	29:B1:3190:C:O2	1.77	0.85
29:D1:210:U:O4	35:DD:161:LYS:HA	1.76	0.85
29:D1:394:G:C2	29:D1:396:A:H2'	2.11	0.85
29:B1:3261:C:C2'	29:B1:3261:C:O2	2.25	0.85
1:A1:888:U:H5''	1:A1:889:U:OP2	1.76	0.85
1:C1:914:G:H4'	1:C1:915:A:O5'	1.76	0.85
1:C1:1299:G:H2'	1:C1:1300:A:C8	2.12	0.85
37:DF:12:SER:N	37:DF:116:LYS:HA	1.91	0.85
1:A1:1631:A:C5	1:A1:1636:C:N4	2.43	0.85
1:A1:992:A:H2	1:A1:1012:U:H3	0.90	0.85
29:B1:1503:A:H8	29:B1:1503:A:H5''	1.39	0.85
29:B1:1504:A:H3'	29:B1:1505:C:H5''	1.57	0.85
29:B1:3141:A:H5'	29:B1:3143:C:C2	2.10	0.85
29:B1:430:U:C2'	29:B1:431:U:H5'	2.07	0.85
29:B1:773:G:O2'	29:B1:774:G:C8	2.24	0.85
29:B1:810:A:H5''	29:B1:811:U:OP2	1.76	0.85
29:B1:934:G:C4	29:B1:935:U:C5	2.63	0.85
29:B1:210:U:H3	35:BD:162:THR:N	1.75	0.85
38:BG:74:SER:CB	38:BG:75:TYR:HA	2.06	0.85
29:D1:2716:U:H3'	29:D1:2717:U:H5''	1.59	0.85
29:D1:564:G:O3'	29:D1:564:G:OP1	1.94	0.85
29:D1:1196:C:O2	30:D2:86:U:O4'	1.95	0.85
31:B3:96:A:H3'	31:B3:97:A:H5''	1.57	0.85
30:B2:11:A:N1	36:BE:15:ARG:O	2.09	0.85
1:C1:1376:C:H2'	1:C1:1377:U:C5	2.11	0.85
29:B1:2513:U:H1'	29:B1:2514:U:OP1	1.76	0.85
34:BC:79:VAL:O	34:BC:321:PHE:HA	1.77	0.85
29:B1:355:A:C2	29:B1:365:A:C4	2.64	0.85
50:BU:118:VAL:O	50:BU:137:VAL:HA	1.77	0.85
37:BF:12:SER:N	37:BF:116:LYS:HA	1.91	0.85
29:B1:1313:G:H2'	29:B1:1314:C:H6	1.42	0.84
29:B1:2997:G:H1'	29:B1:2998:U:P	2.16	0.84
29:B1:404:G:N2	29:B1:405:U:H1'	1.92	0.84
1:C1:587:C:H2'	1:C1:588:U:O4'	1.76	0.84
29:D1:2251:G:O2'	29:D1:2252:A:H5''	1.75	0.84
29:D1:553:U:H2'	29:D1:554:A:O4'	1.77	0.84
31:D3:8:C:H2'	31:D3:9:A:H8	1.41	0.84
29:D1:2682:C:N3	29:D1:2683:U:C5	2.45	0.84
1:C1:1521:G:C6	74:C1:1930:OHX:N1	2.45	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1259:U:O5'	1:A1:1259:U:H6	1.59	0.84
1:A1:1573:A:C4'	1:A1:1574:G:H5'	2.06	0.84
30:B2:95:A:H2'	30:B2:96:U:C6	2.12	0.84
29:D1:625:G:H8	29:D1:625:G:H5'	1.40	0.84
29:D1:3204:C:H5'	43:DN:88:ALA:HB3	1.58	0.84
1:A1:694:U:H5''	1:A1:695:U:H5	1.42	0.84
29:D1:3071:U:O2'	29:D1:3072:C:H5'	1.76	0.84
29:D1:834:U:H5''	29:D1:834:U:C6	2.11	0.84
29:D1:2873:U:O2'	29:D1:2874:G:H5'	1.76	0.84
29:D1:1019:G:H1	29:D1:1033:U:H3	0.88	0.84
1:A1:776:G:C2	1:A1:785:U:C2	2.64	0.84
29:D1:2768:U:O2'	29:D1:2769:A:H5'	1.76	0.84
1:A1:1631:A:C6	1:A1:1636:C:H5	1.94	0.84
1:A1:555:A:C2	1:A1:556:A:C2	2.66	0.84
29:B1:1452:A:H1'	29:B1:2347:U:H5''	1.58	0.84
29:B1:160:G:H1	29:B1:261:U:H3	1.23	0.84
29:B1:2393:G:N1	29:B1:2982:A:H2	1.74	0.84
29:B1:717:C:H5'	29:B1:719:U:O4'	1.76	0.84
29:B1:953:G:H3'	29:B1:953:G:H8	1.41	0.84
1:C1:44:U:H5'	1:C1:45:U:C4	2.10	0.84
29:D1:1461:A:C4	29:D1:1462:A:C8	2.66	0.84
29:D1:265:A:O4'	29:D1:265:A:OP1	1.95	0.84
29:D1:3299:A:N3	29:D1:3300:U:C5	2.45	0.84
29:D1:597:G:C4	29:D1:598:A:C8	2.65	0.84
1:A1:162:A:H3'	1:A1:163:G:C8	2.10	0.84
1:A1:62:A:H4'	1:A1:63:G:OP2	1.74	0.84
29:D1:378:A:C3'	29:D1:378:A:N3	2.39	0.84
1:C1:1243:G:H2'	1:C1:1244:A:C8	2.11	0.84
1:C1:1557:U:O5'	1:C1:1560:U:O4	1.94	0.84
1:C1:1591:C:H2'	1:C1:1592:A:C8	2.12	0.84
29:D1:404:G:N2	29:D1:405:U:H1'	1.92	0.84
29:D1:1681:U:O2	29:D1:1681:U:H2'	1.77	0.84
29:B1:3274:A:H1'	29:B1:3275:U:P	2.16	0.84
1:C1:1663:G:H2'	1:C1:1664:C:H6	1.42	0.84
29:D1:3179:U:O2'	29:D1:3180:A:OP1	1.94	0.84
29:D1:275:U:O2'	29:D1:276:U:H5'	1.77	0.84
1:A1:119:A:H2'	1:A1:120:U:O4'	1.77	0.84
1:A1:1636:C:C2	1:A1:1765:A:N6	2.46	0.84
1:A1:404:G:H2'	1:A1:405:C:H6	1.40	0.84
1:A1:94:U:H2'	1:A1:95:G:O4'	1.76	0.84
29:B1:1153:A:N7	29:B1:1154:A:C5	2.44	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1158:A:O2'	29:B1:1330:A:H2	1.60	0.84
29:B1:2272:G:H5'	29:B1:2272:G:N3	1.91	0.84
29:B1:3324:C:O2'	29:B1:3325:G:H5'	1.76	0.84
29:B1:415:G:H2'	29:B1:416:A:H8	1.43	0.84
29:B1:517:G:C8	29:B1:517:G:OP2	2.29	0.84
29:B1:547:G:H3'	29:B1:548:G:C8	2.12	0.84
29:B1:641:C:O2'	29:B1:642:U:OP1	1.93	0.84
29:B1:751:A:H2'	29:B1:751:A:N3	1.92	0.84
29:B1:945:C:C2	29:B1:946:U:C5	2.65	0.84
1:C1:629:U:C2'	1:C1:630:A:H8	1.89	0.84
29:D1:1213:G:C8	29:D1:1213:G:H5'	2.10	0.84
29:D1:536:U:P	29:D1:536:U:H6	2.00	0.84
29:B1:969:C:H5''	29:B1:970:A:OP2	1.77	0.84
1:A1:175:G:N7	74:A1:1915:OHX:N2	2.24	0.84
1:C1:1429:G:H2'	1:C1:1430:U:H6	1.42	0.84
30:B2:91:G:C4	30:B2:92:A:C8	2.65	0.84
6:CE:80:LEU:CA	6:CE:81:VAL:CB	2.55	0.84
29:D1:207:U:H2'	29:D1:208:C:H6	1.42	0.84
29:D1:2205:U:H2'	29:D1:2206:G:H5'	1.58	0.84
1:A1:1735:U:H2'	1:A1:1736:G:C8	2.13	0.84
36:DE:49:TYR:HA	36:DE:50:ARG:CB	2.07	0.84
1:A1:1073:G:O6	1:A1:1074:G:C6	2.29	0.84
29:B1:1191:U:O2	29:B1:1191:U:C2'	2.25	0.84
29:B1:1685:C:C5	29:B1:3069:G:N2	2.44	0.84
29:B1:2998:U:C6	29:B1:2998:U:H5''	2.11	0.84
29:B1:3315:G:H1'	29:B1:3320:A:C8	2.13	0.84
29:B1:550:A:C8	29:B1:550:A:OP2	2.29	0.84
29:B1:553:U:H2'	29:B1:554:A:O4'	1.77	0.84
1:C1:125:U:O5'	1:C1:125:U:H6	1.59	0.84
1:C1:1634:C:H4'	1:C1:1635:A:O5'	1.75	0.84
1:C1:427:C:O4'	1:C1:459:G:O2'	1.96	0.84
29:D1:2150:G:H2'	29:D1:2151:C:H5''	1.58	0.84
29:D1:284:A:C2	29:D1:306:A:C1'	2.53	0.84
29:D1:740:G:C6	29:D1:741:U:H5	1.96	0.84
29:D1:750:G:N2	29:D1:784:A:C1'	2.39	0.84
29:D1:826:G:H2'	29:D1:827:A:H8	1.42	0.84
29:D1:8:C:H2'	29:D1:9:U:C6	2.11	0.84
29:D1:943:U:OP1	54:DY:13:GLY:HA2	1.77	0.84
1:A1:129:U:C5	1:A1:264:G:C5	2.64	0.84
1:C1:1215:C:O2'	1:C1:1216:C:H5'	1.77	0.84
1:C1:1258:U:H2'	1:C1:1259:U:O4'	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1560:U:O2	1:A1:1561:U:H5	1.60	0.84
29:D1:3187:A:C2	29:D1:3188:G:C4	2.66	0.84
29:B1:3244:A:C8	29:B1:3245:A:N7	2.44	0.84
36:BE:100:ALA:C	36:BE:102:GLY:H	1.77	0.84
29:B1:661:G:N1	29:B1:802:C:C6	2.45	0.84
46:BQ:154:GLU:HA	46:BQ:155:GLU:CB	2.08	0.84
29:B1:1157:G:C2	29:B1:1158:A:H1'	2.13	0.84
29:B1:1193:A:C8	29:B1:1194:G:C2	2.65	0.84
29:B1:2851:A:H2'	29:B1:2852:C:O4'	1.77	0.84
1:C1:174:U:H2'	1:C1:174:U:O2	1.75	0.84
1:C1:16:G:H2'	1:C1:17:C:H6	1.40	0.84
1:C1:378:A:C8	1:C1:378:A:OP1	2.31	0.84
29:D1:159:A:O2'	29:D1:160:G:H5'	1.76	0.84
29:D1:382:U:C3'	29:D1:383:G:H4'	2.06	0.84
1:C1:1204:A:OP1	1:C1:1204:A:H4'	1.78	0.84
1:C1:1377:U:C2'	1:C1:1378:U:H4'	2.07	0.84
1:A1:1491:U:H5''	1:A1:1492:A:H3'	1.57	0.84
29:D1:1323:G:C3'	29:D1:1324:U:H5''	2.03	0.84
30:B2:26:C:H2'	30:B2:27:A:O4'	1.78	0.84
34:BC:153:LYS:CB	34:BC:155:ALA:HB2	2.08	0.84
30:D2:4:U:H2'	30:D2:5:G:C8	2.12	0.84
1:C1:1657:U:H4'	1:C1:1658:G:O5'	1.77	0.84
34:DC:306:THR:O	34:DC:308:MET:N	2.11	0.84
1:C1:1547:A:H5''	1:C1:1548:G:OP2	1.77	0.84
29:B1:2147:A:C8	29:B1:2147:A:H5'	2.12	0.84
31:B3:140:G:C6	31:B3:141:C:C4	2.66	0.84
29:D1:10:C:H2'	29:D1:10:C:O2	1.75	0.84
29:D1:152:U:H2'	29:D1:153:U:H6	1.42	0.84
29:D1:2998:U:H2'	29:D1:2999:U:C6	2.12	0.84
29:D1:3333:G:O2'	29:D1:3369:G:N2	2.11	0.84
29:D1:515:C:H1'	37:DF:145:LEU:HA	1.59	0.84
29:D1:592:A:C4	29:D1:593:C:C1'	2.61	0.84
29:D1:637:C:C4	29:D1:638:C:N4	2.46	0.84
29:D1:804:C:N4	29:D1:940:G:C6	2.46	0.84
29:D1:86:G:H22	29:D1:98:G:H2'	1.40	0.84
31:D3:96:A:H3'	31:D3:97:A:H5''	1.57	0.84
31:B3:71:A:H4'	31:B3:72:A:OP1	1.77	0.84
1:C1:114:C:C5	1:C1:248:U:O4	2.30	0.84
1:C1:1269:U:H4'	1:C1:1270:G:O5'	1.76	0.84
1:C1:1583:A:O2'	1:C1:1584:G:H5'	1.78	0.84
1:A1:1472:C:H4'	1:A1:1473:U:H5'	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:383:G:H3'	29:B1:385:A:OP2	1.77	0.84
29:B1:3199:G:H2'	29:B1:3200:G:C8	2.12	0.84
29:B1:2768:U:O2'	29:B1:2769:A:H5'	1.78	0.84
29:B1:2513:U:H5	29:B1:2591:A:N1	1.74	0.84
29:B1:3262:U:O2'	29:B1:3263:G:H5'	1.76	0.84
1:A1:1580:C:O2'	1:A1:1581:C:O4'	1.95	0.84
42:BK:84:LEU:HA	42:BK:89:TYR:CA	2.07	0.84
29:D1:1702:U:H3	29:D1:1743:G:H1	1.25	0.84
29:B1:1455:U:O4'	29:B1:1455:U:OP2	1.95	0.84
29:B1:2960:C:H5''	29:B1:2961:G:OP2	1.78	0.84
29:B1:531:G:H2'	29:B1:532:A:H8	1.37	0.84
29:B1:726:G:C4	29:B1:744:A:N6	2.46	0.84
31:B3:19:C:C6	31:B3:20:U:H5	1.96	0.84
1:C1:1770:U:C4	1:C1:1793:G:N2	2.45	0.84
1:C1:477:A:C4	1:C1:539:G:O6	2.30	0.84
1:C1:64:U:H5'	1:C1:65:A:OP2	1.78	0.84
29:D1:257:U:H2'	29:D1:258:G:H8	1.41	0.84
29:D1:3056:U:C2	29:D1:3079:U:C4	2.65	0.84
29:D1:3322:A:H2'	29:D1:3323:A:C8	2.12	0.84
29:D1:596:C:O2	29:D1:597:G:H5''	1.77	0.84
29:D1:606:C:N4	29:D1:607:A:N6	2.26	0.84
29:D1:796:U:H2'	29:D1:797:U:C6	2.12	0.84
30:D2:97:A:H2'	30:D2:98:C:C6	2.12	0.84
29:B1:2675:C:H41	29:B1:2676:A:N6	1.75	0.84
29:B1:2678:A:C8	29:B1:2679:A:C2	2.65	0.84
1:A1:1595:U:H6	1:A1:1596:C:N3	1.76	0.84
29:B1:3262:U:OP2	29:B1:3262:U:H3'	1.77	0.84
29:D1:3274:A:H1'	29:D1:3275:U:O5'	1.76	0.84
1:A1:357:G:H2'	1:A1:358:U:H6	1.43	0.84
36:BE:134:ALA:HB3	36:BE:136:GLU:N	1.93	0.84
1:C1:725:U:H2'	1:C1:726:C:C6	2.12	0.84
34:BC:106:TRP:O	34:BC:108:GLU:N	2.10	0.84
1:A1:1631:A:N6	1:A1:1636:C:H5	1.74	0.84
29:B1:3377:G:C4	74:B1:3450:OHX:N2	2.44	0.84
1:C1:1632:C:O2'	1:C1:1633:A:O4'	1.95	0.84
1:C1:87:C:C3'	1:C1:88:U:H5''	2.08	0.84
30:B2:98:C:H3'	30:B2:99:G:H5''	1.59	0.84
1:A1:209:U:H5'	1:A1:210:A:OP2	1.76	0.84
1:C1:1718:G:H2'	1:C1:1719:A:H5''	1.58	0.84
1:C1:246:G:C6	1:C1:247:A:C2	2.66	0.84
1:C1:1259:U:H6	1:C1:1259:U:O5'	1.61	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1591:C:H2'	1:C1:1592:A:H8	1.42	0.84
1:A1:1161:C:H1'	1:A1:1620:C:N4	1.92	0.84
29:B1:3254:G:H2'	29:B1:3254:G:N3	1.91	0.84
29:D1:3139:A:H8	29:D1:3139:A:H5'	1.41	0.84
29:B1:2603:G:H3'	29:B1:2604:U:H6	1.43	0.84
34:DC:261:MET:C	34:DC:263:SER:N	2.29	0.84
1:A1:1636:C:H4'	1:A1:1637:C:OP2	1.76	0.84
29:B1:3141:A:C5'	29:B1:3143:C:C2	2.61	0.84
29:B1:3328:G:N2	29:B1:3329:U:C6	2.45	0.84
29:B1:3361:G:H2'	29:B1:3362:A:H5'	1.60	0.84
29:B1:709:A:OP1	29:B1:709:A:H8	1.60	0.84
29:B1:804:C:N4	29:B1:940:G:C6	2.46	0.84
3:CB:163:GLY:HA3	3:CB:203:LYS:CB	2.08	0.84
29:D1:118:U:H3	29:D1:150:A:H61	0.87	0.84
29:D1:2690:G:C2'	29:D1:2690:G:N3	2.40	0.84
29:D1:2900:A:C2	29:D1:2901:G:C5	2.65	0.84
29:D1:382:U:C2'	29:D1:383:G:H4'	2.08	0.84
29:D1:606:C:C3'	29:D1:607:A:H8	1.80	0.84
29:D1:934:G:C4	29:D1:935:U:C5	2.66	0.84
1:A1:193:U:H4'	1:A1:194:U:OP2	1.74	0.84
1:C1:1521:G:N1	74:C1:1930:OHX:N5	2.25	0.84
29:B1:3029:A:H3'	29:B1:3030:G:H5''	1.60	0.84
29:D1:191:U:O2'	29:D1:192:C:H5'	1.78	0.84
29:D1:1232:C:C4'	73:DM:35:SER:HA	2.07	0.84
29:B1:1074:U:O4	29:B1:1084:A:N6	2.11	0.84
8:AG:145:THR:HA	8:AG:146:ALA:HB2	1.59	0.84
1:C1:1263:G:C2	1:C1:1264:G:H1'	2.12	0.84
29:D1:365:A:C2	29:D1:366:A:C4	2.65	0.84
1:A1:1099:U:C4	1:A1:1100:G:O6	2.31	0.84
29:B1:280:U:O2	29:B1:286:U:C2	2.31	0.84
29:B1:3322:A:H2'	29:B1:3323:A:H8	1.43	0.84
29:B1:750:G:N1	29:B1:784:A:H1'	1.92	0.84
1:C1:590:C:H2'	1:C1:591:A:H8	1.43	0.84
1:C1:606:A:N7	1:C1:608:U:H5	1.75	0.84
29:D1:1303:A:C8	29:D1:1304:A:C6	2.65	0.84
29:D1:1462:A:H2'	29:D1:1463:U:C6	2.11	0.84
29:D1:3118:C:H2'	29:D1:3119:U:H6	1.41	0.84
1:A1:847:A:H2'	1:A1:848:C:C5'	2.08	0.84
31:B3:74:U:O3'	31:B3:89:A:H2'	1.78	0.84
1:C1:243:G:H2'	1:C1:244:A:H8	1.40	0.84
1:A1:1722:A:C8	1:A1:1723:U:C6	2.66	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1274:C:H2'	1:C1:1274:C:O2	1.77	0.84
1:A1:1474:G:H2'	1:A1:1475:A:C8	2.13	0.84
1:C1:1753:A:H61	1:C1:1754:A:N6	1.75	0.84
1:A1:895:G:H2'	1:A1:896:U:O4'	1.78	0.84
50:DU:118:VAL:O	50:DU:137:VAL:HA	1.76	0.84
29:D1:140:C:H2'	29:D1:141:C:C6	2.12	0.84
1:A1:555:A:OP2	1:A1:555:A:H3'	1.77	0.83
29:B1:1289:G:H2'	29:B1:1290:A:C8	2.12	0.83
29:B1:1782:U:OP2	29:B1:1782:U:H6	1.60	0.83
31:B3:105:A:H4'	31:B3:106:C:C5	2.12	0.83
1:C1:528:U:H4'	1:C1:529:A:O5'	1.78	0.83
29:D1:2999:U:H2'	29:D1:3000:A:C8	2.13	0.83
30:B2:105:C:H2'	30:B2:105:C:O2	1.76	0.83
29:B1:1323:G:C3'	29:B1:1324:U:H5''	2.08	0.83
29:D1:1393:A:N7	29:D1:1418:A:C8	2.45	0.83
1:A1:1647:U:H2'	1:A1:1648:A:C8	2.12	0.83
29:B1:2129:U:H2'	29:B1:2130:G:C8	2.13	0.83
29:B1:1383:G:H4'	35:BD:241:GLY:CA	2.07	0.83
29:D1:620:U:OP2	29:D1:620:U:H6	1.61	0.83
29:B1:1504:A:H2'	29:B1:1505:C:C6	2.13	0.83
29:B1:3037:U:H2'	29:B1:3038:U:H6	1.43	0.83
29:B1:420:G:H21	29:B1:2384:A:H3'	1.42	0.83
37:BF:162:SER:HA	37:BF:165:LEU:CB	2.08	0.83
1:C1:1146:G:H8	1:C1:1635:A:C2	1.96	0.83
1:C1:289:U:O2	1:C1:289:U:H2'	1.77	0.83
1:C1:618:U:H2'	1:C1:619:A:H5'	1.57	0.83
1:C1:623:A:O2'	1:C1:624:G:H5''	1.76	0.83
1:C1:983:A:H2'	1:C1:984:G:C8	2.13	0.83
29:D1:1212:A:C6	29:D1:1294:A:N1	2.45	0.83
29:D1:1289:G:H2'	29:D1:1290:A:H8	1.43	0.83
29:D1:1484:U:H1'	29:D1:1485:G:OP1	1.78	0.83
29:D1:2304:C:O2'	29:D1:2305:G:H5'	1.77	0.83
29:D1:2344:U:H5''	29:D1:2345:A:OP2	1.77	0.83
29:D1:2955:U:H2'	29:D1:2956:A:C8	2.12	0.83
29:D1:3150:A:N6	29:D1:3152:U:O4	2.11	0.83
29:D1:512:U:C2	29:D1:579:G:N1	2.47	0.83
29:D1:594:U:N3	29:D1:595:G:N1	2.26	0.83
29:D1:595:G:N1	29:D1:610:G:OP1	2.10	0.83
29:D1:745:C:N4	29:D1:746:A:N6	2.26	0.83
1:A1:827:C:N3	1:A1:846:G:C6	2.46	0.83
31:B3:76:C:H2'	53:BX:76:LEU:CB	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:177:U:H3'	1:A1:178:U:H5''	1.59	0.83
1:A1:183:U:H4'	1:A1:184:C:OP1	1.79	0.83
29:B1:2681:U:P	42:BK:51:ARG:O	2.35	0.83
1:C1:1166:A:C2	1:C1:1167:G:H1'	2.13	0.83
1:C1:1467:C:H5'	1:C1:1602:C:OP1	1.76	0.83
29:D1:3212:C:N3	29:D1:3213:A:H2	1.73	0.83
29:D1:3261:C:C2'	29:D1:3261:C:O2	2.22	0.83
29:D1:3273:A:C6	29:D1:3274:A:N7	2.47	0.83
29:D1:2159:U:H4'	29:D1:2160:G:OP2	1.74	0.83
1:C1:373:G:H2'	1:C1:374:U:H6	1.43	0.83
40:BI:111:PHE:HA	40:BI:112:ILE:C	1.98	0.83
53:BX:19:TYR:O	53:BX:21:THR:N	2.10	0.83
1:A1:1770:U:C4	1:A1:1793:G:N2	2.47	0.83
1:A1:869:A:H2'	1:A1:870:C:O4'	1.77	0.83
29:B1:1190:A:H2	29:B1:1191:U:C6	1.97	0.83
29:B1:191:U:O2'	29:B1:192:C:H5'	1.77	0.83
29:B1:2145:A:H1'	29:B1:2958:A:H4'	1.59	0.83
29:D1:1155:C:H2'	29:D1:1155:C:O2	1.76	0.83
29:D1:1191:U:OP2	29:D1:1192:C:C5	2.30	0.83
29:D1:2396:G:O2'	29:D1:2398:A:H4'	1.76	0.83
29:D1:422:A:C1'	29:D1:423:A:C5'	2.53	0.83
29:D1:518:G:C8	29:D1:518:G:OP2	2.30	0.83
29:D1:537:A:N6	29:D1:556:U:C2	2.45	0.83
1:C1:643:G:N2	1:C1:692:C:C2	2.46	0.83
29:B1:382:U:C2'	29:B1:383:G:H4'	2.07	0.83
29:B1:3283:U:H2'	29:B1:3284:G:O4'	1.77	0.83
29:D1:618:C:C2'	29:D1:619:A:H8	1.87	0.83
30:D2:30:G:N1	30:D2:49:G:C6	2.46	0.83
29:B1:336:A:O2'	29:B1:337:G:H5'	1.78	0.83
29:B1:3273:A:N1	29:B1:3274:A:C5	2.46	0.83
1:C1:239:C:H4'	1:C1:240:U:H5'	1.60	0.83
29:B1:2953:U:H2'	29:B1:2954:U:H6	1.43	0.83
29:B1:1678:G:H2'	29:B1:1679:A:C8	2.12	0.83
29:B1:2390:A:C4'	29:B1:3307:A:C2	2.61	0.83
31:B3:138:A:H2	31:B3:139:U:C2	1.95	0.83
31:B3:40:A:C4	31:B3:41:A:C8	2.67	0.83
29:D1:2262:A:H3'	29:D1:2263:C:C5'	2.07	0.83
29:D1:585:A:C3'	29:D1:586:C:H6	1.92	0.83
29:B1:955:U:H2'	29:B1:956:U:H6	1.42	0.83
1:C1:1271:G:H2'	1:C1:1272:U:C6	2.13	0.83
21:AT:301:LEU:CB	21:AT:313:TRP:O	2.25	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:661:G:C6	29:B1:802:C:C6	2.66	0.83
29:B1:2601:A:O2'	29:B1:2602:G:H5'	1.78	0.83
39:BH:219:ASP:O	39:BH:223:ALA:HB3	1.78	0.83
41:BJ:65:LEU:O	41:BJ:68:ALA:HB3	1.78	0.83
29:B1:1218:U:C2'	29:B1:1219:C:H5'	2.09	0.83
29:B1:2136:C:H3'	29:B1:2142:A:H61	1.44	0.83
29:B1:3055:U:H2'	29:B1:3085:G:N1	1.91	0.83
29:B1:550:A:H8	29:B1:550:A:OP2	1.61	0.83
29:B1:3314:A:H5''	34:BC:119:TYR:N	1.94	0.83
1:C1:1760:G:C5	1:C1:1761:U:H5	1.95	0.83
1:C1:394:C:N4	1:C1:401:A:H62	1.76	0.83
1:C1:593:U:H4'	1:C1:595:G:H4'	1.59	0.83
1:C1:62:A:N3	1:C1:63:G:N7	2.26	0.83
29:D1:1295:G:H2'	29:D1:1296:C:C6	2.13	0.83
29:D1:278:U:H2'	29:D1:279:U:C6	2.13	0.83
29:D1:3044:G:O3'	34:DC:12:GLY:HA2	1.78	0.83
29:D1:3299:A:O2'	29:D1:3300:U:P	2.36	0.83
29:D1:514:G:C3'	29:D1:515:C:C6	2.61	0.83
29:D1:952:A:H2'	29:D1:953:G:C5'	2.08	0.83
41:DJ:177:ASP:CA	41:DJ:179:PRO:N	2.35	0.83
1:A1:84:A:C2'	1:A1:85:A:H5'	2.07	0.83
1:C1:1590:G:H2'	1:C1:1591:C:C6	2.13	0.83
1:C1:1291:G:H2'	1:C1:1292:G:H8	1.42	0.83
34:DC:93:VAL:CB	34:DC:155:ALA:HB1	2.08	0.83
29:D1:2132:C:H6	29:D1:2132:C:H5'	1.43	0.83
9:AH:60:ALA:O	9:AH:63:ALA:HB3	1.77	0.83
29:D1:2880:U:C2'	29:D1:2881:C:H5'	2.09	0.83
29:B1:157:A:H4'	29:B1:158:G:OP1	1.75	0.83
29:B1:2268:U:H2'	29:B1:2269:U:C5	2.14	0.83
29:B1:3316:A:N6	29:B1:3320:A:N1	2.27	0.83
29:B1:673:U:C2'	29:B1:674:G:H5'	2.07	0.83
29:B1:718:G:O6	29:B1:786:A:N7	2.11	0.83
1:C1:149:C:H3'	1:C1:150:U:H6	1.40	0.83
1:C1:1628:U:H2'	1:C1:1629:G:C8	2.14	0.83
1:C1:1760:G:C4	1:C1:1761:U:H5	1.96	0.83
1:C1:283:U:H3'	1:C1:284:G:H5''	1.59	0.83
1:C1:291:G:H2'	1:C1:292:U:C5	2.13	0.83
29:D1:1139:G:C5'	29:D1:1139:G:H8	1.91	0.83
29:D1:911:C:H2'	29:D1:911:C:O2	1.75	0.83
45:BP:124:LEU:HA	45:BP:126:VAL:H	1.40	0.83
1:C1:1573:A:C4'	1:C1:1574:G:H5'	2.06	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1228:G:H5'	1:A1:1229:G:OP2	1.79	0.83
30:D2:25:G:C2	30:D2:26:C:N3	2.46	0.83
1:C1:1753:A:H3'	1:C1:1754:A:H5''	1.59	0.83
1:A1:1547:A:H5''	1:A1:1548:G:OP2	1.79	0.83
29:B1:1357:G:H2'	29:B1:1358:C:C6	2.13	0.83
1:A1:1215:C:O2'	1:A1:1216:C:H5'	1.77	0.83
29:B1:840:C:C2'	29:B1:841:A:H5'	2.09	0.83
29:B1:281:G:C2	29:B1:282:G:N7	2.47	0.83
29:B1:1303:A:C2	29:B1:2887:A:N1	2.46	0.83
29:B1:2932:U:O2	29:B1:2934:A:OP2	1.96	0.83
29:B1:3367:C:C2'	29:B1:3368:U:H5''	2.09	0.83
1:C1:1109:G:C2	1:C1:1110:G:C8	2.65	0.83
1:C1:1626:U:H2'	1:C1:1627:U:H5'	1.60	0.83
1:C1:183:U:H4'	1:C1:184:C:OP1	1.78	0.83
1:C1:358:U:H5''	1:C1:359:A:OP2	1.79	0.83
29:D1:1299:U:H2'	29:D1:1300:G:O4'	1.78	0.83
29:D1:422:A:C1'	29:D1:423:A:H5''	2.09	0.83
29:D1:1196:C:N3	30:D2:86:U:C5	2.47	0.83
37:DF:162:SER:HA	37:DF:165:LEU:CB	2.09	0.83
1:A1:701:U:H3'	1:A1:702:G:H5''	1.60	0.83
31:B3:80:A:H2'	31:B3:81:U:C2	2.13	0.83
29:B1:2232:A:H2'	29:B1:2233:A:O4'	1.79	0.83
1:A1:1123:C:C5	1:A1:1124:A:C5	2.67	0.83
43:BN:22:LEU:CB	43:BN:65:LEU:HA	2.08	0.83
29:B1:1786:G:H2'	29:B1:1787:A:C8	2.13	0.83
29:B1:3139:A:H8	29:B1:3139:A:H5'	1.43	0.83
29:B1:378:A:N3	29:B1:378:A:C3'	2.40	0.83
29:B1:575:G:H8	29:B1:575:G:C5'	1.90	0.83
29:B1:641:C:OP1	74:B1:3492:OHX:N1	2.12	0.83
1:C1:280:U:H3'	1:C1:281:G:H8	1.44	0.83
1:C1:29:U:O2	1:C1:597:G:O6	1.97	0.83
1:C1:427:C:H5''	1:C1:427:C:H6	1.43	0.83
29:D1:2293:C:C5	29:D1:2294:U:C5	2.66	0.83
29:D1:1226:G:H1'	29:D1:3116:G:O6	1.79	0.83
29:D1:3320:A:C6	29:D1:3321:C:N4	2.46	0.83
1:A1:259:U:C5	1:A1:261:U:O4	2.31	0.83
29:D1:2680:A:H61	42:DK:56:THR:CA	1.92	0.83
1:C1:1250:U:N3	1:C1:1251:U:C4	2.47	0.83
1:A1:1350:U:OP2	1:A1:1351:G:C8	2.30	0.83
29:D1:3283:U:H2'	29:D1:3284:G:O4'	1.79	0.83
29:D1:1064:A:C2	29:D1:1095:U:N3	2.46	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:93:VAL:H	34:DC:99:LEU:CB	1.92	0.83
1:A1:310:C:H2'	1:A1:311:U:O5'	1.79	0.83
36:BE:159:VAL:C	36:BE:161:GLY:H	1.81	0.83
36:BE:128:GLU:CB	36:BE:129:TYR:HA	2.08	0.83
46:BQ:128:ARG:H	46:BQ:139:TYR:H	1.26	0.83
34:BC:62:ARG:O	34:BC:64:GLY:N	2.11	0.83
73:DM:25:LEU:H	73:DM:191:TYR:HA	1.42	0.83
1:C1:121:U:H2'	1:C1:122:U:O4'	1.79	0.83
1:A1:1118:G:H2'	1:A1:1119:G:H8	1.43	0.83
29:B1:2278:C:N4	29:B1:2305:G:N7	2.27	0.83
29:B1:2144:A:C2	29:B1:2281:A:C5	2.65	0.83
29:B1:3316:A:H61	29:B1:3388:C:H42	1.26	0.83
29:B1:537:A:N6	29:B1:556:U:C2	2.46	0.83
29:B1:826:G:H2'	29:B1:827:A:H8	1.41	0.83
1:C1:1047:G:H1	1:C1:1071:U:H3	0.84	0.83
1:C1:1087:A:H3'	1:C1:1088:A:H8	1.44	0.83
1:C1:1139:A:H2'	1:C1:1140:G:O5'	1.77	0.83
1:C1:515:A:H61	1:C1:537:G:H1	1.27	0.83
1:C1:756:A:C5	1:C1:757:A:N7	2.47	0.83
29:D1:2918:G:N2	29:D1:2919:A:N7	2.27	0.83
29:B1:2640:A:C4	29:B1:2641:U:C5	2.66	0.83
30:B2:12:U:H2'	30:B2:13:A:N1	1.94	0.83
1:A1:1195:C:OP1	1:A1:1197:C:H1'	1.78	0.83
1:A1:1244:A:H2'	1:A1:1244:A:N3	1.91	0.83
29:B1:3176:G:H2'	29:B1:3177:G:C5'	2.08	0.83
29:B1:1231:A:H61	29:B1:1276:U:H5	1.23	0.83
1:A1:1735:U:H2'	1:A1:1736:G:H8	1.44	0.83
46:BQ:76:PHE:HA	46:BQ:78:VAL:N	1.93	0.83
10:AI:97:TYR:HA	10:AI:102:PHE:H	1.44	0.83
29:B1:1884:A:C5	29:B1:1885:U:N3	2.47	0.83
29:B1:1528:G:O2'	29:B1:1529:A:H5'	1.78	0.83
29:B1:2255:A:C6	74:B1:3438:OHX:N2	2.47	0.83
29:B1:2955:U:H2'	29:B1:2956:A:C8	2.14	0.83
29:B1:3099:C:O2'	29:B1:3100:U:P	2.36	0.83
29:B1:511:G:N2	29:B1:579:G:N1	2.26	0.83
29:B1:704:U:H6	29:B1:704:U:H3'	1.43	0.83
29:B1:947:G:H2'	29:B1:948:C:H6	1.44	0.83
1:C1:1746:A:H5''	1:C1:1747:G:OP2	1.78	0.83
1:C1:102:U:O4	1:C1:360:A:H2'	1.78	0.83
29:D1:1508:C:OP2	29:D1:1509:A:OP2	1.97	0.83
29:D1:1856:C:C2'	29:D1:1857:C:H5'	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3078:U:H4'	29:D1:3079:U:C5'	2.07	0.83
29:D1:414:U:H2'	29:D1:415:G:H8	1.43	0.83
29:D1:703:G:H2'	29:D1:703:G:N3	1.92	0.83
29:D1:937:G:N2	29:D1:960:U:H5'	1.94	0.83
1:C1:223:U:H3	1:C1:838:G:H1	1.23	0.83
15:CN:21:LYS:N	15:CN:92:ASP:HA	1.94	0.83
44:BO:186:GLY:N	44:BO:187:ARG:HA	1.93	0.83
1:A1:1398:U:O2'	1:A1:1399:C:H3'	1.78	0.83
1:C1:1092:A:C5	1:C1:1094:G:C8	2.67	0.83
29:D1:2172:A:C2'	29:D1:2173:U:H5'	2.06	0.83
29:B1:1740:U:H2'	29:B1:1741:A:H5'	1.61	0.83
1:A1:1631:A:O4'	1:A1:1764:C:O2	1.97	0.82
1:A1:606:A:C8	1:A1:608:U:C5	2.66	0.82
29:B1:2222:A:HO2'	29:B1:2223:A:H8	1.27	0.82
29:B1:2395:G:H2'	29:B1:2396:G:H5'	1.60	0.82
29:B1:2611:U:H2'	29:B1:2612:U:H6	1.44	0.82
29:B1:3104:U:H2'	29:B1:3105:U:H5'	1.59	0.82
29:D1:681:U:H1'	29:D1:682:U:H5'	1.61	0.82
35:DD:76:ARG:HA	35:DD:88:GLY:HA2	1.59	0.82
1:C1:218:A:N6	1:C1:844:A:H1'	1.93	0.82
29:D1:2675:C:H41	29:D1:2676:A:N6	1.77	0.82
1:C1:1275:A:OP1	1:C1:1275:A:C8	2.32	0.82
29:D1:3209:A:N1	29:D1:3210:A:N1	2.27	0.82
29:B1:3210:A:C5	29:B1:3211:C:N4	2.47	0.82
30:D2:23:A:C3'	30:D2:24:A:H8	1.90	0.82
29:D1:3215:A:OP2	29:D1:3218:A:C8	2.32	0.82
29:D1:2513:U:H5	29:D1:2591:A:N1	1.75	0.82
30:D2:91:G:H2'	30:D2:92:A:C8	2.13	0.82
1:C1:1734:U:C2	1:C1:1735:U:C5	2.67	0.82
29:D1:1001:G:OP2	29:D1:1001:G:H4'	1.78	0.82
1:A1:520:A:H2'	1:A1:521:A:C8	2.11	0.82
29:B1:1440:G:O2'	29:B1:1441:G:H5'	1.79	0.82
29:B1:284:A:H62	29:B1:2785:A:H4'	1.42	0.82
29:B1:562:C:H2'	29:B1:563:U:H6	1.42	0.82
29:D1:2897:A:C2	29:D1:2905:U:C2	2.67	0.82
29:D1:514:G:H2'	29:D1:515:C:N1	1.94	0.82
29:D1:547:G:H3'	29:D1:548:G:C8	2.14	0.82
31:B3:69:U:C2'	31:B3:70:G:H4'	2.09	0.82
1:A1:1201:G:C3'	1:A1:1201:G:N3	2.42	0.82
29:B1:382:U:C3'	29:B1:383:G:H4'	2.09	0.82
29:B1:2588:U:H5'	29:B1:2589:G:OP2	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:690:G:H2'	1:A1:691:C:H5'	1.60	0.82
1:A1:914:G:H3'	74:A1:1937:OHX:N6	1.93	0.82
29:D1:835:G:C2	29:D1:857:G:N3	2.47	0.82
1:A1:1222:C:H2'	1:A1:1223:A:C8	2.13	0.82
10:AI:59:LYS:O	10:AI:63:ALA:HB3	1.78	0.82
29:B1:1180:A:C4	29:B1:1182:A:C8	2.68	0.82
48:BS:18:GLY:O	48:BS:20:ARG:N	2.11	0.82
1:A1:43:A:H2'	1:A1:44:U:H5''	1.60	0.82
29:B1:2167:A:H2'	29:B1:2168:A:C8	2.14	0.82
29:B1:588:G:C5	29:B1:612:U:H5	1.96	0.82
29:D1:2299:A:C5	29:D1:2300:G:C8	2.68	0.82
29:D1:2327:U:H2'	29:D1:2327:U:O2	1.77	0.82
29:D1:2986:U:H2'	29:D1:2987:A:H8	1.42	0.82
29:D1:550:A:C8	29:D1:550:A:OP2	2.33	0.82
29:B1:2727:A:OP2	49:BT:80:VAL:O	1.97	0.82
1:A1:1274:C:OP2	1:A1:1428:G:OP1	1.96	0.82
1:A1:1591:C:H2'	1:A1:1592:A:H8	1.42	0.82
29:B1:2172:A:H2'	29:B1:2173:U:H5'	1.60	0.82
29:D1:1740:U:H2'	29:D1:1741:A:H5'	1.59	0.82
29:D1:96:G:N2	29:D1:97:U:H1'	1.93	0.82
29:D1:1492:G:H3'	29:D1:1493:G:N2	1.94	0.82
1:A1:1764:C:H2'	1:A1:1767:G:N7	1.95	0.82
29:B1:113:C:C2'	29:B1:114:A:H5'	2.09	0.82
29:B1:207:U:H2'	29:B1:208:C:H6	1.44	0.82
29:B1:3102:G:H5'	29:B1:3102:G:H8	1.43	0.82
29:D1:1877:U:H4'	29:D1:1878:G:OP2	1.80	0.82
29:D1:2294:U:O2	29:D1:2296:A:H2'	1.79	0.82
29:D1:2912:G:C5	29:D1:2913:C:N3	2.47	0.82
29:D1:3297:U:C2	29:D1:3298:C:C5	2.67	0.82
29:D1:592:A:H2'	29:D1:593:C:O2'	1.79	0.82
30:B2:106:U:C2	30:B2:107:C:C5	2.67	0.82
74:D3:202:OHX:N6	74:D3:212:OHX:N1	2.28	0.82
29:B1:344:A:C4	29:B1:345:G:C8	2.67	0.82
29:B1:2159:U:H4'	29:B1:2160:G:OP2	1.78	0.82
29:D1:3141:A:C5'	29:D1:3143:C:C2	2.62	0.82
1:A1:791:A:H2'	1:A1:792:U:H6	1.43	0.82
29:D1:2883:U:H2'	29:D1:2884:C:H6	1.42	0.82
4:AC:140:GLY:HA3	4:AC:182:LEU:HA	1.61	0.82
1:A1:44:U:C5'	1:A1:45:U:H5	1.91	0.82
29:B1:1450:G:O5'	29:B1:1450:G:H8	1.61	0.82
29:B1:150:A:H2'	29:B1:151:A:C8	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1453:A:N9	29:B1:1850:A:H2	1.77	0.82
29:B1:1304:A:C4	29:B1:2939:G:H1'	2.13	0.82
29:B1:3047:U:C2	29:B1:3048:A:H2	1.97	0.82
29:B1:370:U:O2	29:B1:403:C:N3	2.12	0.82
1:C1:1673:G:C2'	1:C1:1674:C:H5'	2.08	0.82
29:D1:1154:A:H5'	29:D1:1155:C:H5	1.43	0.82
29:D1:1339:C:H2'	29:D1:1340:G:H8	1.43	0.82
31:D3:74:U:O3'	31:D3:89:A:H2'	1.79	0.82
1:A1:149:C:H3'	1:A1:150:U:H6	1.42	0.82
29:D1:210:U:H4'	29:D1:211:A:O5'	1.78	0.82
29:D1:2754:G:C3'	29:D1:2755:C:H5'	2.10	0.82
29:D1:1072:G:H2'	29:D1:1073:U:H6	1.44	0.82
1:A1:901:G:H3'	1:A1:902:G:C8	2.14	0.82
1:A1:921:U:H2'	1:A1:922:G:C8	2.15	0.82
29:D1:1349:G:H8	29:D1:1349:G:OP2	1.62	0.82
17:AP:127:VAL:HA	17:AP:129:GLY:N	1.95	0.82
2:CA:26:ALA:HA	2:CA:164:ASN:HA	1.58	0.82
36:DE:223:PHE:C	36:DE:225:GLY:HA3	2.00	0.82
8:CG:145:THR:HA	8:CG:146:ALA:HB2	1.59	0.82
45:DP:18:ARG:C	45:DP:20:ALA:H	1.80	0.82
1:A1:364:G:C2	1:A1:381:C:C2	2.68	0.82
29:B1:3316:A:N6	29:B1:3388:C:H42	1.78	0.82
29:B1:421:G:N2	29:B1:2365:C:C1'	2.43	0.82
1:C1:1141:G:H3'	1:C1:1142:A:C5'	2.09	0.82
1:C1:818:C:H2'	1:C1:819:G:N7	1.94	0.82
1:C1:992:A:C2	1:C1:1012:U:C2	2.68	0.82
29:D1:2916:U:H5	29:D1:2935:U:HO2'	1.27	0.82
74:D1:3408:OHX:N6	74:D1:3582:OHX:N3	2.27	0.82
29:D1:717:C:H5'	29:D1:719:U:O4'	1.79	0.82
1:C1:836:U:H2'	1:C1:837:G:H8	1.44	0.82
1:A1:59:C:C6	1:A1:62:A:N6	2.45	0.82
1:C1:1478:G:H8	1:C1:1478:G:H5'	1.45	0.82
1:A1:1382:A:C5'	15:AN:59:PRO:HA	2.09	0.82
30:B2:88:G:C4	30:B2:89:G:N7	2.48	0.82
29:B1:3209:A:H3'	29:B1:3210:A:C8	2.13	0.82
29:D1:3181:C:C6	45:DP:167:TYR:CB	2.62	0.82
29:D1:3261:C:OP2	29:D1:3262:U:OP1	1.96	0.82
29:D1:3280:U:O2'	29:D1:3281:U:OP2	1.97	0.82
30:D2:30:G:N1	30:D2:49:G:N1	2.27	0.82
1:A1:1650:U:H3'	1:A1:1651:A:H8	1.44	0.82
1:A1:1661:U:H2'	1:A1:1662:G:C8	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:717:C:H2'	1:A1:718:U:H5''	1.60	0.82
17:CP:127:VAL:HA	17:CP:129:GLY:N	1.95	0.82
29:B1:3179:U:O2'	29:B1:3180:A:OP1	1.98	0.82
29:D1:1651:U:O2'	29:D1:1652:G:H5'	1.79	0.82
29:B1:1442:U:H6	29:B1:1442:U:H5'	1.45	0.82
29:B1:1798:A:C2	29:B1:1799:A:C4	2.68	0.82
29:B1:188:U:O2	29:B1:222:A:H2	1.62	0.82
29:B1:592:A:C4	29:B1:593:C:H1'	2.08	0.82
1:C1:1148:C:H2'	1:C1:1149:G:N7	1.95	0.82
29:D1:2295:A:N6	29:D1:2296:A:N6	2.27	0.82
29:D1:3386:G:H8	29:D1:3386:G:O5'	1.63	0.82
29:D1:39:A:C8	29:D1:41:G:OP2	2.31	0.82
29:D1:594:U:O4	29:D1:610:G:P	2.38	0.82
29:D1:641:C:H2'	29:D1:642:U:O4'	1.79	0.82
30:B2:64:A:N6	30:B2:111:U:C4	2.46	0.82
1:A1:1557:U:P	1:A1:1560:U:O4	2.38	0.82
29:D1:623:U:H2'	29:D1:624:G:H8	1.45	0.82
29:B1:3242:G:N2	29:B1:3244:A:H8	1.77	0.82
29:D1:3171:U:H1'	29:D1:3172:A:OP2	1.78	0.82
1:A1:1219:A:H5'	1:A1:1220:C:C5	2.10	0.82
43:BN:48:GLY:C	43:BN:50:LYS:HA	2.00	0.82
44:BO:78:GLY:CA	44:BO:79:ALA:HB2	2.10	0.82
13:CL:96:LYS:CB	13:CL:97:ASP:HA	2.09	0.82
41:DJ:89:VAL:O	41:DJ:136:PHE:HA	1.78	0.82
2:AA:35:PRO:O	2:AA:37:VAL:N	2.12	0.82
1:A1:43:A:C2	1:A1:378:A:N6	2.47	0.82
1:A1:556:A:H5''	1:A1:558:U:OP2	1.78	0.82
29:B1:2996:U:H4'	29:B1:2997:G:OP2	1.79	0.82
29:B1:592:A:OP2	29:B1:592:A:C8	2.33	0.82
29:B1:826:G:O2'	29:B1:1589:A:H8	1.61	0.82
29:B1:88:A:C2	29:B1:89:A:H1'	2.15	0.82
1:C1:1764:C:H5'	1:C1:1764:C:H6	1.43	0.82
1:C1:527:A:P	1:C1:528:U:H3'	2.19	0.82
29:D1:1289:G:H4'	29:D1:1290:A:OP1	1.78	0.82
29:D1:1593:A:H2'	29:D1:1594:A:H8	1.42	0.82
29:D1:1697:A:C2'	29:D1:1698:C:H5'	2.09	0.82
29:D1:1591:G:O2'	29:D1:1799:A:N1	2.12	0.82
29:D1:285:A:H2	29:D1:304:G:O3'	1.62	0.82
29:D1:2897:A:H2	29:D1:2905:U:C2	1.98	0.82
29:D1:2948:C:O2'	29:D1:2949:U:H5'	1.79	0.82
29:D1:3012:A:C2'	29:D1:3013:U:H5''	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:594:U:N3	29:D1:595:G:C6	2.48	0.82
29:D1:611:A:H3'	29:D1:612:U:C5'	2.10	0.82
29:D1:761:A:H3'	29:D1:762:U:H5''	1.62	0.82
74:D3:204:OHX:N6	74:D3:209:OHX:N3	2.26	0.82
35:DD:63:GLU:O	35:DD:75:PRO:HA	1.80	0.82
1:A1:169:A:N7	1:A1:171:A:N6	2.27	0.82
30:D2:12:U:O4'	30:D2:69:C:H4'	1.80	0.82
29:B1:2680:A:H3'	29:B1:2681:U:H5'	1.62	0.82
1:C1:1182:U:H2'	1:C1:1184:A:OP2	1.79	0.82
1:C1:1378:U:H3'	1:C1:1379:C:C5'	2.10	0.82
1:A1:1243:G:H2'	1:A1:1244:A:C8	2.14	0.82
29:B1:3280:U:O2'	29:B1:3281:U:OP2	1.98	0.82
29:B1:3201:C:O4'	29:B1:3201:C:P	2.37	0.82
29:D1:3184:A:H5''	29:D1:3184:A:H8	1.41	0.82
29:D1:3277:U:C2'	29:D1:3278:C:H5'	2.09	0.82
29:D1:3280:U:H2'	29:D1:3280:U:OP2	1.79	0.82
30:B2:25:G:C2	30:B2:26:C:N3	2.48	0.82
29:D1:3314:A:H5''	34:DC:119:TYR:N	1.93	0.82
1:C1:1420:C:C5	1:C1:1421:A:C8	2.65	0.82
43:DN:33:ALA:CB	43:DN:48:GLY:H	1.93	0.82
17:AP:85:ALA:HB1	17:AP:123:LYS:HA	1.62	0.82
29:B1:1750:A:O3'	29:B1:1751:G:H8	1.61	0.82
1:A1:1631:A:C2	1:A1:1632:C:H1'	2.15	0.82
1:A1:623:A:O2'	1:A1:624:G:H5''	1.80	0.82
29:B1:1108:U:H2'	29:B1:1109:U:C6	2.15	0.82
29:B1:1794:G:N1	33:BB:185:ALA:HB1	1.95	0.82
29:B1:2344:U:H5''	29:B1:2345:A:OP2	1.80	0.82
29:B1:265:A:O4'	29:B1:265:A:OP1	1.98	0.82
29:B1:2923:U:C2	29:B1:2924:U:C5	2.67	0.82
29:B1:2971:A:OP1	29:B1:2971:A:H3'	1.78	0.82
29:B1:3144:G:C6	74:B1:3428:OHX:N1	2.48	0.82
29:B1:681:U:H1'	29:B1:682:U:H5'	1.61	0.82
1:C1:556:A:C3'	1:C1:558:U:OP2	2.28	0.82
1:C1:973:A:H2'	1:C1:974:A:H8	1.44	0.82
29:D1:1532:C:H2'	29:D1:1533:U:C6	2.14	0.82
31:D3:70:G:C8	31:D3:71:A:C6	2.68	0.82
38:DG:73:GLY:HA2	38:DG:74:SER:O	1.80	0.82
1:C1:647:G:N2	1:C1:648:G:C2	2.48	0.82
1:A1:1719:A:H5'	1:A1:1720:G:OP2	1.80	0.82
29:D1:3204:C:H5'	43:DN:88:ALA:CB	2.10	0.82
29:D1:210:U:OP2	29:D1:210:U:H6	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1063:G:O2'	29:D1:1064:A:N3	2.12	0.82
1:A1:1420:C:H5	1:A1:1421:A:C8	1.95	0.82
29:D1:1074:U:O4	29:D1:1084:A:N6	2.12	0.82
1:A1:983:A:H2'	1:A1:984:G:C8	2.15	0.82
29:D1:1862:U:H5''	29:D1:1863:G:OP2	1.79	0.82
1:A1:1578:U:O2'	1:A1:1579:U:H5'	1.78	0.82
29:D1:1640:G:C4	29:D1:1641:U:C5	2.67	0.82
48:DS:151:ARG:HA	48:DS:154:ALA:HB3	1.62	0.82
29:B1:1540:U:O2	29:B1:1540:U:H2'	1.78	0.82
44:DO:79:ALA:H	44:DO:80:THR:CB	1.93	0.82
29:B1:102:C:H1'	29:B1:103:G:OP1	1.80	0.82
18:AQ:41:ILE:HA	18:AQ:44:GLN:H	1.44	0.82
1:A1:364:G:H5'	1:A1:365:G:OP2	1.80	0.82
29:B1:2405:C:H2'	29:B1:2405:C:O2	1.78	0.82
29:B1:2663:G:H5'	29:B1:2664:C:OP2	1.80	0.82
29:B1:2915:U:O2	29:B1:2915:U:H2'	1.78	0.82
29:B1:773:G:C2'	29:B1:774:G:H8	1.92	0.82
1:C1:1006:C:H5''	1:C1:1007:C:OP2	1.80	0.82
1:C1:259:U:C5	1:C1:261:U:O4	2.33	0.82
1:C1:624:G:H1'	1:C1:1027:A:C4	2.15	0.82
1:C1:862:A:C8	1:C1:963:A:C6	2.68	0.82
29:D1:1192:C:C3'	29:D1:1192:C:P	2.68	0.82
29:D1:122:A:H2'	29:D1:123:A:H8	1.45	0.82
29:D1:1471:U:O2'	29:D1:1472:U:H5'	1.80	0.82
29:D1:150:A:N7	29:D1:151:A:N6	2.27	0.82
29:D1:160:G:H1	29:D1:261:U:H3	1.24	0.82
29:D1:3327:G:C2	29:D1:3328:G:C8	2.68	0.82
29:D1:3377:G:H1'	29:D1:3378:C:OP1	1.79	0.82
29:D1:773:G:C2'	29:D1:774:G:H8	1.92	0.82
29:D1:921:A:OP1	29:D1:921:A:H3'	1.79	0.82
1:C1:690:G:H2'	1:C1:691:C:H5'	1.62	0.82
1:A1:1429:G:H2'	1:A1:1430:U:H6	1.45	0.82
6:AE:80:LEU:CA	6:AE:81:VAL:CB	2.57	0.82
29:D1:3201:C:O4'	29:D1:3201:C:P	2.38	0.82
30:B2:41:G:H2'	30:B2:41:G:N3	1.92	0.82
29:B1:1255:C:N4	74:B1:3567:OHX:N5	2.28	0.82
1:C1:1647:U:H2'	1:C1:1648:A:C8	2.15	0.82
34:BC:106:TRP:C	34:BC:108:GLU:N	2.30	0.82
6:CE:66:ASP:C	6:CE:68:LYS:H	1.80	0.82
1:A1:1771:U:H2'	1:A1:1772:C:H6	1.42	0.81
29:B1:145:G:H5''	29:B1:146:U:OP2	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:209:A:O2'	29:B1:210:U:O2	1.96	0.81
29:B1:2918:G:N2	29:B1:2919:A:N7	2.28	0.81
29:B1:46:U:H2'	29:B1:47:C:H5'	1.61	0.81
29:B1:751:A:H5''	29:B1:752:C:OP2	1.80	0.81
29:B1:953:G:H4'	29:B1:954:U:H6	1.42	0.81
1:C1:1633:A:C1'	1:C1:1634:C:OP2	2.28	0.81
1:C1:177:U:H3'	1:C1:178:U:H5''	1.59	0.81
31:D3:49:G:C6	31:D3:50:C:C5	2.68	0.81
1:C1:650:U:N3	1:C1:684:A:N6	1.90	0.81
30:D2:64:A:N6	30:D2:111:U:C4	2.48	0.81
1:C1:322:G:C4'	1:C1:323:A:OP1	2.27	0.81
1:C1:1540:G:H2'	1:C1:1541:G:O4'	1.80	0.81
1:A1:1378:U:H3'	1:A1:1379:C:C5'	2.10	0.81
29:D1:3210:A:C5	29:D1:3211:C:N4	2.48	0.81
29:D1:188:U:O2	29:D1:222:A:H2	1.63	0.81
29:D1:3218:A:O2'	29:D1:3219:G:O5'	1.98	0.81
29:D1:3260:G:H3'	29:D1:3261:C:C5'	2.06	0.81
29:B1:3260:G:H3'	29:B1:3261:C:C5'	2.08	0.81
29:D1:1080:A:C4	29:D1:1082:U:H5''	2.15	0.81
1:C1:921:U:H2'	1:C1:922:G:C8	2.14	0.81
1:A1:1657:U:H1'	1:A1:1658:G:OP2	1.80	0.81
30:D2:3:U:C2	30:D2:4:U:C5	2.68	0.81
36:BE:43:LYS:H	49:BT:69:LYS:CB	1.93	0.81
1:A1:776:G:C2	1:A1:785:U:O2	2.33	0.81
45:DP:17:GLY:O	45:DP:20:ALA:HB3	1.78	0.81
14:CM:128:GLY:O	14:CM:130:ARG:N	2.13	0.81
5:CD:63:GLN:C	5:CD:92:ARG:HA	1.99	0.81
47:BR:45:ASN:O	47:BR:46:LYS:C	2.18	0.81
40:BI:100:ASN:O	40:BI:114:VAL:HA	1.79	0.81
43:BN:10:SER:H	43:BN:11:ASN:HA	1.43	0.81
14:AM:58:ALA:O	14:AM:62:ALA:HB2	1.80	0.81
2:AA:26:ALA:HA	2:AA:164:ASN:HA	1.61	0.81
1:A1:1642:G:O6	74:A1:1901:OHX:N3	2.13	0.81
29:B1:2253:G:N7	29:B1:2254:U:C4	2.48	0.81
29:B1:363:G:C3'	29:B1:364:G:H5''	2.09	0.81
29:B1:608:A:C8	29:B1:608:A:H3'	2.15	0.81
29:B1:953:G:H3'	29:B1:953:G:C8	2.15	0.81
38:BG:49:ALA:O	38:BG:51:TYR:N	2.13	0.81
44:BO:83:LYS:H	44:BO:85:THR:N	1.78	0.81
29:D1:120:G:H5'	29:D1:121:A:OP2	1.79	0.81
29:D1:155:G:H2'	29:D1:155:G:OP1	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1939:G:C2'	29:D1:1940:G:H5'	2.10	0.81
29:D1:325:A:H3'	29:D1:327:A:OP1	1.79	0.81
29:D1:591:G:O2'	29:D1:592:A:H5'	1.79	0.81
1:A1:829:A:H1'	1:A1:830:U:O5'	1.80	0.81
30:D2:69:C:H3'	30:D2:70:U:H6	1.44	0.81
29:D1:3201:C:C2	29:D1:3202:G:C8	2.67	0.81
29:D1:69:C:N4	29:D1:70:A:H8	1.78	0.81
21:CT:301:LEU:CB	21:CT:313:TRP:O	2.28	0.81
47:DR:154:GLY:N	47:DR:155:MET:HA	1.91	0.81
29:B1:2580:A:H1'	29:B1:2581:U:OP2	1.80	0.81
6:CE:142:ASN:O	6:CE:144:PRO:N	2.13	0.81
1:A1:587:C:H2'	1:A1:588:U:O4'	1.80	0.81
29:B1:1213:G:C8	29:B1:1213:G:H5'	2.13	0.81
29:B1:120:G:H5'	29:B1:121:A:OP2	1.79	0.81
29:B1:1794:G:H4'	29:B1:1795:U:OP2	1.78	0.81
29:B1:304:G:OP2	29:B1:304:G:H3'	1.80	0.81
29:B1:3299:A:N3	29:B1:3300:U:C5	2.47	0.81
1:A1:1118:G:H2'	1:A1:1119:G:C8	2.15	0.81
29:B1:1507:G:C8	29:B1:1507:G:OP2	2.33	0.81
29:B1:411:U:O2'	29:B1:412:G:H5'	1.80	0.81
29:B1:575:G:H2'	29:B1:576:C:C6	2.15	0.81
29:B1:592:A:H2'	29:B1:593:C:C1'	2.10	0.81
29:B1:592:A:C3'	29:B1:593:C:C4'	2.46	0.81
29:B1:645:A:H4'	29:B1:646:A:OP1	1.79	0.81
29:B1:703:G:H2'	29:B1:703:G:N3	1.93	0.81
1:C1:1119:G:H2'	1:C1:1120:U:C6	2.14	0.81
1:C1:34:G:C6	1:C1:475:A:N6	2.47	0.81
1:C1:357:G:H2'	1:C1:358:U:C6	2.14	0.81
29:D1:2113:A:H2'	29:D1:2114:C:C5'	2.09	0.81
29:D1:2960:C:H5''	29:D1:2961:G:OP2	1.79	0.81
29:D1:515:C:P	29:D1:515:C:H6	2.03	0.81
29:D1:829:U:H3	29:D1:895:A:H61	1.27	0.81
29:D1:880:G:C8	29:D1:882:A:N7	2.47	0.81
29:D1:1214:U:O2'	29:D1:1215:U:H5'	1.81	0.81
29:D1:528:U:H2'	29:D1:528:U:O2	1.79	0.81
30:B2:69:C:H3'	30:B2:70:U:H6	1.44	0.81
30:B2:61:G:H2'	30:B2:62:U:H6	1.45	0.81
30:D2:12:U:H2'	30:D2:13:A:N1	1.95	0.81
1:A1:87:C:C3'	1:A1:88:U:H5''	2.09	0.81
1:A1:1201:G:H2'	1:A1:1202:A:C4'	2.06	0.81
1:A1:1204:A:C3'	1:A1:1205:C:H5''	2.06	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1523:G:H4'	1:A1:1524:A:OP2	1.80	0.81
29:B1:3212:C:C4	29:B1:3213:A:C2	2.69	0.81
29:B1:3280:U:OP2	29:B1:3280:U:H2'	1.81	0.81
29:B1:3209:A:C2	29:B1:3210:A:C2	2.68	0.81
74:D3:202:OHX:N6	74:D3:212:OHX:N3	2.28	0.81
29:D1:213:A:H2'	29:D1:214:G:O4'	1.81	0.81
6:AE:123:HIS:O	6:AE:125:ALA:N	2.12	0.81
29:D1:985:U:H2'	29:D1:986:U:H6	1.46	0.81
31:B3:22:U:H4'	31:B3:23:U:OP1	1.80	0.81
29:B1:1063:G:O2'	29:B1:1064:A:N3	2.14	0.81
29:B1:2565:U:H2'	29:B1:2566:C:H6	1.43	0.81
40:BI:63:LYS:O	40:BI:66:ALA:N	2.13	0.81
29:D1:1818:U:H2'	29:D1:1819:U:C2	2.14	0.81
1:A1:239:C:H4'	1:A1:240:U:H5'	1.59	0.81
29:B1:2716:U:H3'	29:B1:2717:U:H5''	1.62	0.81
29:B1:871:U:H2'	29:B1:872:U:C6	2.15	0.81
29:D1:980:A:N6	29:D1:1104:G:H8	1.78	0.81
29:D1:1495:U:C2	29:D1:1842:A:C2	2.65	0.81
29:D1:1782:U:H6	29:D1:1782:U:OP2	1.61	0.81
29:D1:3121:U:O2	29:D1:3122:A:C8	2.32	0.81
29:D1:385:A:C2	29:D1:386:A:C5	2.68	0.81
29:D1:572:A:C5	29:D1:573:C:C5	2.68	0.81
1:A1:283:U:H2'	1:A1:284:G:O4'	1.80	0.81
1:A1:62:A:N3	1:A1:63:G:N7	2.29	0.81
1:C1:1560:U:O2	1:C1:1561:U:H5	1.62	0.81
1:A1:1258:U:H2'	1:A1:1259:U:O4'	1.79	0.81
1:A1:1275:A:OP1	1:A1:1275:A:C8	2.33	0.81
29:D1:1927:G:N2	29:D1:1928:G:C8	2.48	0.81
29:D1:2560:C:H3'	29:D1:2561:A:H5''	1.62	0.81
1:A1:402:C:C2'	1:A1:403:G:H5'	2.08	0.81
1:A1:606:A:H4'	1:A1:607:G:H3'	1.60	0.81
29:B1:1130:A:H2'	29:B1:1132:C:C6	2.16	0.81
29:B1:1445:U:C6	29:B1:1446:A:C8	2.68	0.81
29:B1:37:U:O2	29:B1:37:U:H2'	1.78	0.81
29:B1:975:C:H2'	29:B1:976:U:C6	2.15	0.81
29:D1:1220:U:O3'	29:D1:1221:A:H4'	1.80	0.81
29:D1:1781:C:C2'	29:D1:1782:U:H5'	2.10	0.81
29:D1:726:G:N3	29:D1:744:A:N6	2.27	0.81
1:A1:825:U:C5	1:A1:847:A:C6	2.63	0.81
29:B1:993:G:O6	29:B1:1056:U:O4	1.99	0.81
1:A1:125:U:H6	1:A1:125:U:O5'	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:12:U:C2	30:D2:70:U:OP1	2.33	0.81
1:A1:321:C:O2'	1:A1:322:G:H5'	1.79	0.81
1:A1:1456:C:H5''	1:A1:1457:C:H5''	1.63	0.81
46:DQ:5:GLY:H	46:DQ:6:ALA:HA	1.45	0.81
46:DQ:9:THR:HA	46:DQ:14:SER:H	1.43	0.81
30:D2:25:G:N3	30:D2:26:C:C5	2.49	0.81
29:B1:1232:C:C2'	29:B1:1233:G:H4'	2.09	0.81
29:D1:72:C:H2'	29:D1:73:C:C5'	2.11	0.81
29:D1:3242:G:H1	29:D1:3244:A:C2'	1.92	0.81
1:C1:1402:G:H2'	1:C1:1403:C:H6	1.44	0.81
1:A1:1734:U:H2'	1:A1:1735:U:C6	2.16	0.81
29:D1:2565:U:H2'	29:D1:2566:C:H6	1.45	0.81
29:B1:1349:G:H8	29:B1:1349:G:OP2	1.63	0.81
9:AH:70:LYS:O	9:AH:73:GLU:CB	2.29	0.81
29:B1:1174:G:C2	29:B1:1175:C:C5	2.68	0.81
29:B1:210:U:H4'	29:B1:211:A:O5'	1.80	0.81
29:B1:2386:A:C4	29:B1:2994:A:C2	2.68	0.81
1:C1:1097:U:C2'	1:C1:1098:U:H5'	2.10	0.81
1:C1:1109:G:C2	1:C1:1110:G:N7	2.49	0.81
29:D1:3378:C:H2'	29:D1:3378:C:O2	1.80	0.81
29:D1:501:A:N6	29:D1:502:U:O4	2.13	0.81
29:D1:593:C:H3'	29:D1:609:G:H22	1.44	0.81
29:D1:609:G:P	29:D1:609:G:H3'	2.19	0.81
29:D1:751:A:H5''	29:D1:752:C:OP2	1.81	0.81
31:B3:49:G:C6	31:B3:50:C:C5	2.67	0.81
41:BJ:177:ASP:CA	41:BJ:179:PRO:N	2.32	0.81
1:A1:340:U:H3'	1:A1:341:A:H8	1.44	0.81
1:A1:1650:U:C3'	1:A1:1651:A:H8	1.94	0.81
29:D1:1640:G:HO2'	29:D1:1641:U:H6	0.84	0.81
29:B1:2465:G:H2'	29:B1:2466:G:H8	1.46	0.81
29:B1:1334:U:H5''	38:BG:206:LYS:O	1.80	0.81
29:D1:2861:U:H2'	29:D1:2862:U:H6	1.45	0.81
43:DN:23:ILE:C	43:DN:32:LEU:HA	2.00	0.81
17:AP:48:HIS:HA	17:AP:105:ALA:HB2	1.61	0.81
1:A1:106:U:C4	1:A1:107:C:C4	2.68	0.81
1:A1:527:A:OP1	1:A1:528:U:H3'	1.80	0.81
1:A1:989:U:H2'	1:A1:990:C:H6	1.44	0.81
29:B1:2376:G:C6	29:B1:2377:G:C6	2.69	0.81
29:B1:3141:A:H4'	29:B1:3142:A:O5'	1.80	0.81
29:B1:315:C:C2	29:B1:316:U:C5	2.69	0.81
29:B1:3365:U:H2'	29:B1:3366:G:C8	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3386:G:H2'	29:B1:3387:U:H6	1.42	0.81
29:B1:612:U:H1'	29:B1:613:G:N7	1.95	0.81
33:BB:182:ALA:O	33:BB:184:ARG:N	2.14	0.81
1:C1:871:G:HO2'	1:C1:872:G:H8	0.81	0.81
29:D1:1129:A:C6	29:D1:1130:A:C6	2.68	0.81
29:D1:1608:C:H2'	29:D1:1609:C:H5'	1.62	0.81
29:D1:2897:A:C8	29:D1:2899:C:O4'	2.33	0.81
29:D1:2390:A:C4'	29:D1:3307:A:C2	2.63	0.81
29:D1:498:A:H2'	29:D1:499:G:C8	2.16	0.81
29:D1:945:C:C2	29:D1:946:U:C5	2.69	0.81
29:D1:2680:A:OP1	29:D1:2681:U:H5	1.62	0.81
1:A1:1198:G:H3'	1:A1:1199:G:H5'	1.60	0.81
1:A1:1378:U:H5'	1:A1:1379:C:H6	1.42	0.81
1:A1:1525:A:H2'	1:A1:1526:A:H8	1.45	0.81
29:D1:1324:U:H6	29:D1:1324:U:C5'	1.93	0.81
29:B1:3244:A:C8	29:B1:3245:A:C8	2.69	0.81
1:A1:1580:C:H4'	1:A1:1581:C:OP1	1.80	0.81
2:CA:35:PRO:O	2:CA:37:VAL:N	2.14	0.81
1:A1:1092:A:C5	1:A1:1094:G:C8	2.69	0.81
29:B1:761:A:C2	29:B1:762:U:H1'	2.15	0.81
37:BF:136:GLU:C	37:BF:138:GLN:H	1.84	0.81
29:D1:563:U:H2'	29:D1:564:G:H4'	1.61	0.81
29:D1:912:G:H2'	29:D1:914:A:N7	1.96	0.81
29:D1:975:C:H2'	29:D1:976:U:C5	2.16	0.81
31:D3:140:G:C6	31:D3:141:C:C4	2.69	0.81
1:C1:742:U:H3'	1:C1:744:U:OP2	1.81	0.81
30:B2:13:A:N3	30:B2:13:A:O5'	2.14	0.81
1:A1:283:U:H3'	1:A1:284:G:H5''	1.63	0.81
29:D1:3251:U:H2'	29:D1:3252:G:H8	1.44	0.81
29:B1:1255:C:N4	74:B1:3567:OHX:N1	2.28	0.81
29:B1:72:C:H2'	29:B1:73:C:C5'	2.08	0.81
29:B1:1063:G:H5'	29:B1:1098:A:O5'	1.81	0.81
29:D1:3003:G:C2	29:D1:3004:C:C5	2.68	0.81
34:BC:93:VAL:H	34:BC:99:LEU:CB	1.92	0.81
7:CF:122:ILE:H	7:CF:144:ALA:HB3	1.45	0.81
14:CM:99:SER:HA	14:CM:102:ARG:CB	2.11	0.81
1:A1:1030:A:H3'	1:A1:1031:U:H5'	1.61	0.81
29:B1:2985:C:H2'	29:B1:2986:U:H6	1.44	0.81
29:B1:562:C:O2'	29:B1:563:U:H5'	1.81	0.81
29:B1:595:G:N1	29:B1:609:G:O4'	2.13	0.81
29:B1:607:A:H8	29:B1:607:A:OP2	1.64	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:784:A:H2'	29:B1:785:G:H8	1.40	0.81
29:B1:835:G:C2	29:B1:857:G:N3	2.49	0.81
51:BV:45:ASN:O	51:BV:47:ARG:N	2.14	0.81
1:C1:298:C:H6	1:C1:298:C:H3'	1.46	0.81
29:D1:2860:U:C5	29:D1:2938:G:H4'	2.15	0.81
29:D1:287:G:H2'	29:D1:288:C:H6	1.45	0.81
29:D1:3037:U:H2'	29:D1:3038:U:H6	1.45	0.81
29:D1:3113:A:C2	29:D1:3122:A:C4	2.69	0.81
29:D1:871:U:H2'	29:D1:872:U:H6	1.46	0.81
1:A1:85:A:O2'	1:A1:86:A:H8	1.64	0.81
1:C1:1472:C:H4'	1:C1:1473:U:H5'	1.61	0.81
1:A1:1478:G:H8	1:A1:1478:G:H5'	1.45	0.81
29:D1:3350:C:H4'	29:D1:3354:U:H5	1.46	0.81
29:D1:1623:G:O6	29:D1:1822:C:N4	2.10	0.81
1:A1:1753:A:N1	1:A1:1754:A:N1	2.29	0.81
1:A1:358:U:H5''	1:A1:359:A:OP2	1.81	0.81
29:D1:2580:A:H1'	29:D1:2581:U:P	2.20	0.81
29:D1:620:U:H4'	29:D1:621:A:OP1	1.80	0.81
45:DP:137:THR:O	45:DP:140:LYS:N	2.14	0.81
29:D1:2953:U:H2'	29:D1:2954:U:H6	1.44	0.81
53:BX:33:ALA:O	53:BX:47:ALA:HB1	1.81	0.81
1:C1:1696:G:N2	1:C1:1708:U:O2	2.14	0.81
29:B1:1455:U:H4'	29:B1:1456:A:OP2	1.81	0.81
29:B1:1777:U:H2'	29:B1:1778:G:C8	2.15	0.81
29:B1:514:G:C3'	29:B1:515:C:C6	2.64	0.81
29:B1:716:A:H2'	29:B1:717:C:C1'	2.11	0.81
37:BF:21:THR:HA	37:BF:112:THR:N	1.96	0.81
1:C1:534:A:H2'	1:C1:535:A:C8	2.15	0.81
1:C1:963:A:O2'	1:C1:964:U:H6	1.61	0.81
29:D1:993:G:O6	29:D1:1056:U:O4	1.99	0.81
29:D1:1449:A:C2	29:D1:2356:A:C4	2.70	0.81
29:D1:3135:U:C4	29:D1:3136:G:C5	2.69	0.81
29:D1:3324:C:O2'	29:D1:3325:G:H5'	1.80	0.81
31:D3:19:C:C6	31:D3:20:U:H5	1.98	0.81
31:D3:22:U:H4'	31:D3:23:U:OP1	1.81	0.81
31:D3:74:U:OP2	31:D3:76:C:C2	2.34	0.81
38:DG:83:LEU:HA	38:DG:84:VAL:CB	2.11	0.81
29:B1:2725:U:C4	29:B1:2727:A:N3	2.49	0.81
1:C1:1203:A:H4'	1:C1:1204:A:OP2	1.80	0.81
29:D1:210:U:H3	35:DD:162:THR:N	1.79	0.81
29:B1:3273:A:C5	29:B1:3274:A:C8	2.68	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1434:U:O3'	1:C1:1435:G:H3'	1.81	0.81
43:DN:10:SER:H	43:DN:11:ASN:HA	1.45	0.81
45:DP:77:SER:O	45:DP:79:ILE:N	2.14	0.81
29:B1:1167:U:H6	29:B1:1167:U:H5'	1.46	0.80
29:B1:1287:A:C2'	29:B1:1288:U:H5'	2.12	0.80
1:C1:528:U:O5'	1:C1:529:A:H4'	1.80	0.80
1:C1:518:A:H61	1:C1:535:A:H1'	1.45	0.80
1:C1:555:A:H2	1:C1:556:A:C2	1.99	0.80
29:D1:1777:U:H2'	29:D1:1778:G:C8	2.16	0.80
29:D1:3344:A:OP2	29:D1:3344:A:H2'	1.82	0.80
29:D1:41:G:C8	29:D1:42:C:C5	2.68	0.80
29:D1:611:A:H5'	29:D1:612:U:OP1	1.81	0.80
29:D1:694:C:O2	29:D1:694:C:H2'	1.81	0.80
29:D1:979:U:H4'	29:D1:980:A:OP1	1.81	0.80
30:B2:64:A:C4'	30:B2:65:G:O5'	2.29	0.80
29:D1:2680:A:OP1	29:D1:2681:U:C5	2.35	0.80
29:B1:2675:C:H41	29:B1:2676:A:H61	1.26	0.80
29:D1:625:G:H2'	29:D1:626:U:H6	1.43	0.80
29:B1:3198:U:H3'	29:B1:3199:G:C8	2.16	0.80
29:D1:402:A:H61	46:DQ:21:TYR:CB	1.94	0.80
1:A1:1657:U:C4'	1:A1:1658:G:O5'	2.29	0.80
29:D1:2582:C:H5'	29:D1:2583:C:OP2	1.80	0.80
17:CP:85:ALA:HB1	17:CP:123:LYS:HA	1.61	0.80
1:A1:1132:A:C2	1:A1:1133:A:C8	2.68	0.80
29:B1:2145:A:C1'	29:B1:2958:A:H4'	2.11	0.80
29:B1:2224:A:H2'	29:B1:2225:U:O4'	1.79	0.80
29:B1:3322:A:H2'	29:B1:3323:A:C8	2.15	0.80
29:B1:762:U:C5	74:B1:3479:OHX:N3	2.50	0.80
29:B1:414:U:H2'	29:B1:415:G:H8	1.45	0.80
29:B1:718:G:H4'	29:B1:719:U:O5'	1.81	0.80
29:B1:886:C:C2'	29:B1:887:G:H5'	2.09	0.80
1:C1:10:G:C8	1:C1:1633:A:N3	2.49	0.80
1:C1:1149:G:O6	1:C1:1629:G:N1	2.14	0.80
29:D1:281:G:C6	29:D1:282:G:O6	2.34	0.80
29:D1:304:G:OP2	29:D1:304:G:H3'	1.80	0.80
29:D1:409:A:N6	31:D3:15:G:H1'	1.96	0.80
1:A1:830:U:HO2'	1:A1:831:U:H6	1.28	0.80
29:B1:965:A:C6	29:B1:966:U:N3	2.49	0.80
31:B3:95:G:P	31:B3:95:G:H21	2.03	0.80
29:D1:1323:G:H3'	29:D1:1324:U:C5'	2.09	0.80
29:B1:3187:A:C2	29:B1:3188:G:C4	2.70	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3191:G:C4	29:D1:3202:G:N2	2.49	0.80
29:B1:2591:A:C2	29:B1:2592:G:H1'	2.15	0.80
29:B1:3264:G:C3'	29:B1:3265:C:H5''	2.11	0.80
29:B1:1705:U:O2'	29:B1:1706:C:O4'	1.99	0.80
29:D1:1307:G:O2'	29:D1:1308:A:OP2	2.00	0.80
29:B1:2485:A:H5'	32:BA:106:LYS:HA	1.61	0.80
1:C1:133:U:H1'	1:C1:134:U:OP1	1.80	0.80
53:DX:33:ALA:O	53:DX:47:ALA:HB1	1.81	0.80
1:A1:1087:A:H3'	1:A1:1088:A:C8	2.17	0.80
1:A1:1631:A:C2	1:A1:1638:G:N3	2.48	0.80
1:A1:979:A:C2	1:A1:1775:U:H4'	2.16	0.80
29:B1:10:C:H42	31:B3:148:G:H1	1.25	0.80
29:B1:1212:A:C6	29:B1:1294:A:N1	2.50	0.80
29:B1:1393:A:N7	29:B1:1418:A:C8	2.50	0.80
29:B1:1478:C:H2'	29:B1:1479:U:H6	1.41	0.80
29:B1:11:A:C1'	29:B1:1557:A:N6	2.45	0.80
29:B1:2285:C:C5	29:B1:2286:U:C2	2.68	0.80
29:B1:2382:G:H2'	29:B1:2383:C:O4'	1.81	0.80
29:B1:3307:A:C8	29:B1:3307:A:O5'	2.32	0.80
29:B1:43:A:N6	29:B1:2802:A:C2	2.47	0.80
29:B1:592:A:C2'	29:B1:593:C:O4'	2.22	0.80
29:B1:593:C:C4	29:B1:594:U:O2'	2.33	0.80
1:C1:119:A:H2'	1:C1:120:U:O4'	1.82	0.80
1:C1:86:A:O2'	1:C1:147:A:N3	2.13	0.80
1:C1:296:U:H2'	1:C1:297:U:C6	2.17	0.80
29:D1:2729:U:H4'	29:D1:2730:G:OP2	1.81	0.80
29:D1:3127:A:H3'	29:D1:3128:G:C8	2.16	0.80
29:D1:3394:U:H2'	29:D1:3395:G:N7	1.95	0.80
29:D1:422:A:H1'	29:D1:423:A:H5'	1.62	0.80
29:D1:596:C:H3'	29:D1:597:G:H5''	1.62	0.80
31:D3:19:C:C5	31:D3:20:U:H5	1.98	0.80
37:DF:161:ALA:O	37:DF:165:LEU:CB	2.29	0.80
30:D2:106:U:C2	30:D2:107:C:C5	2.69	0.80
29:B1:2672:G:O3'	42:BK:105:GLY:HA2	1.81	0.80
29:B1:2676:A:H4'	29:B1:2677:G:C8	2.15	0.80
29:B1:2678:A:H8	29:B1:2679:A:N3	1.79	0.80
1:C1:1190:C:H4'	1:C1:1191:U:OP1	1.79	0.80
1:C1:1201:G:H2'	1:C1:1202:A:C4'	2.07	0.80
30:D2:55:A:OP2	30:D2:55:A:H3'	1.81	0.80
15:AN:54:GLY:HA3	15:AN:92:ASP:N	1.95	0.80
30:B2:26:C:H4'	30:B2:27:A:OP1	1.79	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:161:LEU:HA	34:DC:179:ALA:O	1.81	0.80
1:C1:1398:U:O2'	1:C1:1399:C:H3'	1.81	0.80
36:BE:199:ILE:O	36:BE:201:GLY:HA2	1.81	0.80
1:A1:527:A:H3'	1:A1:528:U:H5'	1.62	0.80
29:B1:1157:G:N3	29:B1:1158:A:H1'	1.96	0.80
29:B1:421:G:N2	29:B1:2365:C:C2	2.50	0.80
29:B1:660:A:C2	29:B1:1435:A:H2	2.00	0.80
1:C1:380:U:H2'	1:C1:381:C:H6	1.44	0.80
1:C1:480:G:N2	1:C1:508:U:H3	1.78	0.80
29:D1:2285:C:C5	29:D1:2286:U:C2	2.69	0.80
29:D1:2743:A:H3'	29:D1:2744:U:H6	1.45	0.80
29:D1:2145:A:C1'	29:D1:2958:A:H4'	2.12	0.80
74:D1:3446:OHX:N5	74:D1:3574:OHX:N1	2.29	0.80
29:D1:578:A:O2'	29:D1:579:G:OP2	1.99	0.80
29:D1:718:G:H4'	29:D1:719:U:O5'	1.81	0.80
31:B3:70:G:H3'	31:B3:71:A:C8	2.17	0.80
1:A1:304:U:H2'	1:A1:304:U:O2	1.82	0.80
1:C1:1351:G:C5	1:C1:1352:G:N7	2.50	0.80
1:C1:1521:G:O6	74:C1:1930:OHX:N3	2.14	0.80
30:B2:91:G:C5	30:B2:92:A:N7	2.49	0.80
29:B1:3281:U:N3	29:B1:3282:U:C4	2.48	0.80
29:D1:3199:G:H3'	29:D1:3200:G:H8	1.45	0.80
29:B1:2520:A:C4	29:B1:2521:U:N3	2.50	0.80
29:B1:3019:U:C5	29:B1:3020:U:C5	2.70	0.80
30:D2:91:G:C4	30:D2:92:A:C8	2.69	0.80
43:DN:48:GLY:C	43:DN:50:LYS:HA	2.02	0.80
29:B1:1001:G:OP2	29:B1:1001:G:H4'	1.79	0.80
1:C1:1735:U:H2'	1:C1:1736:G:C8	2.17	0.80
1:A1:764:U:H3	1:A1:772:G:H1	1.27	0.80
3:AB:148:LEU:HA	3:AB:194:GLU:H	1.47	0.80
34:DC:230:THR:O	34:DC:234:GLY:HA2	1.81	0.80
54:DY:137:LYS:O	54:DY:140:ALA:HB3	1.81	0.80
14:AM:128:GLY:O	14:AM:130:ARG:N	2.14	0.80
1:A1:611:U:O2	7:AF:96:LYS:HA	1.82	0.80
29:B1:1150:A:N7	29:B1:1310:G:H5''	1.97	0.80
29:B1:1178:G:H2'	29:B1:1179:A:H5'	1.62	0.80
29:B1:164:A:N6	29:B1:165:A:C6	2.50	0.80
29:B1:1778:G:H4'	29:B1:1779:C:N3	1.96	0.80
29:B1:2272:G:H4'	29:B1:2273:G:OP1	1.81	0.80
29:B1:773:G:H2'	29:B1:774:G:C8	2.17	0.80
29:B1:2149:A:H4'	33:BB:178:PRO:O	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1654:G:H2'	1:C1:1745:G:N2	1.97	0.80
1:C1:169:A:N7	1:C1:171:A:N6	2.29	0.80
1:C1:172:C:O2'	1:C1:173:A:C5'	2.30	0.80
1:C1:20:G:H4'	1:C1:571:G:C2	2.16	0.80
1:C1:533:U:H3'	1:C1:534:A:H8	1.45	0.80
29:D1:1152:G:H8	29:D1:1152:G:O5'	1.64	0.80
29:D1:1366:A:C2	29:D1:1367:G:C4	2.69	0.80
29:D1:2295:A:C6	29:D1:2296:A:N6	2.49	0.80
29:D1:2900:A:C2	29:D1:2901:G:C8	2.69	0.80
29:D1:3305:A:C4	29:D1:3306:U:O2	2.35	0.80
29:D1:536:U:H6	29:D1:536:U:OP2	1.64	0.80
29:D1:721:G:H3'	29:D1:721:G:N3	1.96	0.80
29:D1:992:A:N1	29:D1:993:G:N7	2.29	0.80
1:C1:833:U:H3'	1:C1:834:G:H5''	1.61	0.80
29:B1:2643:A:C5'	29:B1:2644:C:OP2	2.29	0.80
29:D1:2676:A:O2'	29:D1:2677:G:H5''	1.82	0.80
45:BP:124:LEU:CA	45:BP:126:VAL:H	1.94	0.80
29:B1:1615:C:H2'	29:B1:1616:U:H6	1.46	0.80
30:D2:38:U:O2'	30:D2:40:C:H5''	1.80	0.80
29:B1:2943:G:H2'	29:B1:2944:U:O4'	1.81	0.80
45:BP:58:LEU:HA	45:BP:61:ALA:HB2	1.62	0.80
1:C1:791:A:H2'	1:C1:792:U:H6	1.46	0.80
46:DQ:33:ALA:O	46:DQ:35:ALA:N	2.14	0.80
1:A1:1696:G:N2	1:A1:1708:U:O2	2.14	0.80
1:C1:310:C:H2'	1:C1:311:U:O5'	1.82	0.80
29:B1:1303:A:H8	29:B1:1304:A:C6	1.97	0.80
29:B1:1591:G:O2'	29:B1:1799:A:N1	2.14	0.80
29:B1:2375:G:C8	29:B1:2378:C:N4	2.49	0.80
29:B1:2912:G:C6	29:B1:3130:A:C5	2.69	0.80
29:B1:3377:G:N3	74:B1:3450:OHX:N2	2.29	0.80
29:B1:504:A:C2	29:B1:587:U:O2	2.34	0.80
29:B1:637:C:C4	29:B1:638:C:N4	2.50	0.80
29:B1:759:U:C4	29:B1:773:G:C6	2.70	0.80
1:C1:313:U:H5	1:C1:1118:G:N1	1.79	0.80
1:C1:1132:A:C2	1:C1:1133:A:C8	2.70	0.80
29:D1:1174:G:C6	29:D1:1318:A:C2	2.70	0.80
29:D1:2284:C:H2'	29:D1:2285:C:O2	1.82	0.80
29:D1:325:A:H3'	29:D1:327:A:OP2	1.81	0.80
29:D1:384:A:H3'	29:D1:385:A:C8	2.11	0.80
29:D1:606:C:C2'	29:D1:607:A:C1'	2.59	0.80
29:D1:953:G:H4'	29:D1:954:U:H6	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:70:G:H3'	31:D3:71:A:C8	2.17	0.80
1:A1:735:C:H3'	1:A1:735:C:OP2	1.82	0.80
29:B1:2650:U:C5'	29:B1:2651:G:OP2	2.29	0.80
30:D2:60:G:H2'	30:D2:61:G:H8	1.46	0.80
29:B1:2522:G:H1'	29:B1:2523:A:P	2.22	0.80
29:D1:3237:U:H2'	29:D1:3238:G:C8	2.16	0.80
29:D1:190:U:C5	29:D1:224:C:H1'	2.17	0.80
29:B1:1234:G:H3'	29:B1:1235:U:C5'	2.11	0.80
30:B2:23:A:H3'	30:B2:24:A:H8	1.46	0.80
9:CH:21:ALA:H	9:CH:85:ALA:HB2	1.46	0.80
44:DO:186:GLY:N	44:DO:187:ARG:HA	1.96	0.80
40:DI:63:LYS:O	40:DI:66:ALA:N	2.14	0.80
29:D1:1912:U:O2'	29:D1:1913:A:O5'	2.00	0.80
29:B1:2580:A:H1'	29:B1:2581:U:P	2.21	0.80
1:A1:133:U:H1'	1:A1:134:U:OP1	1.80	0.80
29:D1:661:G:N1	29:D1:802:C:C6	2.50	0.80
29:D1:840:C:C2'	29:D1:841:A:H5'	2.11	0.80
1:A1:44:U:C5'	1:A1:45:U:C5	2.63	0.80
29:B1:1211:U:H2'	29:B1:1212:A:H8	1.46	0.80
29:B1:1288:U:O2'	29:B1:1289:G:H5'	1.80	0.80
29:B1:2253:G:H3'	29:B1:2254:U:C5	2.16	0.80
29:B1:2293:C:C5	29:B1:2294:U:H5	1.97	0.80
29:B1:2993:G:H2'	29:B1:2993:G:N3	1.95	0.80
29:B1:3068:U:OP1	48:BS:58:HIS:HA	1.82	0.80
29:B1:3151:U:OP2	29:B1:3152:U:OP1	1.99	0.80
29:B1:515:C:C2	29:B1:516:A:C8	2.70	0.80
29:B1:564:G:H3'	29:B1:565:U:C6	2.17	0.80
31:B3:40:A:N3	31:B3:41:A:C8	2.49	0.80
1:C1:1646:C:O2	1:C1:1646:C:H2'	1.81	0.80
1:C1:350:U:H4'	1:C1:352:A:C8	2.16	0.80
29:D1:945:C:H1'	29:D1:1407:A:H1'	1.61	0.80
29:D1:2268:U:H2'	29:D1:2269:U:C5	2.15	0.80
29:D1:1899:G:C2	29:D1:2334:U:C5	2.70	0.80
29:D1:2642:A:H5''	29:D1:2643:A:OP2	1.82	0.80
29:D1:2948:C:H2'	29:D1:2949:U:C6	2.15	0.80
29:D1:425:G:C5'	29:D1:425:G:C8	2.65	0.80
29:D1:515:C:C2	29:D1:516:A:C8	2.69	0.80
29:D1:716:A:H2'	29:D1:717:C:C1'	2.11	0.80
1:C1:743:U:N3	1:C1:809:A:H2	1.73	0.80
29:B1:2702:A:H8	29:B1:2704:A:C6	2.00	0.80
30:D2:114:U:H5'	30:D2:115:G:OP2	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:246:G:O6	1:C1:247:A:C2	2.34	0.80
1:C1:1474:G:C2	1:C1:1475:A:C5	2.70	0.80
29:D1:3203:U:C6	29:D1:3203:U:OP2	2.34	0.80
29:D1:190:U:C6	29:D1:224:C:O4'	2.35	0.80
29:D1:2173:U:H2'	29:D1:2174:G:C8	2.17	0.80
29:D1:2490:C:H1'	29:D1:2491:A:N7	1.97	0.80
34:DC:46:PHE:O	34:DC:47:LEU:CB	2.28	0.80
1:A1:515:A:N6	1:A1:537:G:H1	1.79	0.80
29:B1:1166:G:C2'	29:B1:1167:U:H5''	2.12	0.80
29:B1:1609:C:H2'	29:B1:1609:C:OP2	1.80	0.80
29:B1:288:C:H2'	29:B1:289:A:C8	2.16	0.80
29:B1:39:A:H5'	29:B1:40:A:OP2	1.81	0.80
29:B1:504:A:H2	29:B1:587:U:O2	1.64	0.80
29:B1:560:G:H2'	29:B1:561:C:C5	2.17	0.80
29:B1:761:A:H3'	29:B1:762:U:H5''	1.64	0.80
29:D1:1196:C:H5	29:D1:1197:A:H62	0.85	0.80
29:D1:1303:A:C8	29:D1:1304:A:C5	2.70	0.80
29:D1:1340:G:H2'	29:D1:1341:U:H6	1.46	0.80
29:D1:15:C:H4'	29:D1:16:A:OP1	1.82	0.80
29:D1:1844:C:C2	29:D1:1845:G:C8	2.69	0.80
29:D1:2257:C:H3'	29:D1:2258:U:H6	1.46	0.80
29:D1:3131:U:H2'	29:D1:3131:U:O2	1.81	0.80
29:D1:705:A:H4'	29:D1:706:A:H5'	1.63	0.80
40:DI:73:SER:O	40:DI:76:ASP:N	2.13	0.80
30:B2:16:U:H2'	30:B2:17:A:H8	1.46	0.80
30:D2:12:U:H5'	30:D2:68:C:C2'	2.11	0.80
1:C1:1196:A:H4'	1:C1:1197:C:C5'	2.12	0.80
1:C1:1600:A:HO2'	1:C1:1602:C:H5	0.82	0.80
74:C1:1912:OHX:N1	74:C1:2001:OHX:N2	2.29	0.80
29:D1:3189:G:N3	29:D1:3190:C:C6	2.50	0.80
15:AN:21:LYS:N	15:AN:92:ASP:HA	1.97	0.80
29:D1:1095:U:H2'	29:D1:1095:U:O2	1.81	0.80
43:BN:49:PRO:N	43:BN:50:LYS:HA	1.96	0.80
34:BC:159:ARG:O	34:BC:160:VAL:CB	2.30	0.80
17:AP:132:LEU:N	17:AP:133:LEU:CA	2.45	0.80
43:BN:23:ILE:C	43:BN:32:LEU:HA	2.01	0.80
1:A1:407:A:H2'	1:A1:408:C:H6	1.47	0.80
1:A1:515:A:H61	1:A1:537:G:H1	1.26	0.80
29:B1:1192:C:C2	29:B1:1192:C:OP2	2.35	0.80
29:B1:1781:C:C2'	29:B1:1782:U:H5'	2.12	0.80
29:B1:591:G:O2'	29:B1:592:A:H5'	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:721:G:H3'	29:B1:721:G:N3	1.96	0.80
29:B1:723:U:H2'	29:B1:724:U:H5'	1.61	0.80
1:C1:973:A:C1'	29:D1:847:A:H2	1.95	0.80
29:D1:2376:G:C6	29:D1:2377:G:O6	2.35	0.80
29:D1:2376:G:N1	29:D1:2377:G:N1	2.30	0.80
29:D1:284:A:N6	29:D1:2785:A:C4'	2.45	0.80
29:D1:3114:A:N7	29:D1:3115:C:C6	2.50	0.80
29:D1:344:A:C4	29:D1:345:G:C8	2.70	0.80
29:D1:608:A:C6	29:D1:609:G:N7	2.50	0.80
29:D1:13:A:H61	31:D3:144:G:H1	1.29	0.80
1:C1:224:C:N4	1:C1:838:G:N1	2.30	0.80
1:A1:647:G:C2	1:A1:687:G:C2	2.70	0.80
30:D2:73:C:N3	30:D2:74:C:C5	2.49	0.80
1:C1:1593:A:O2'	1:C1:1594:G:H5'	1.82	0.80
1:A1:1536:G:H2'	1:A1:1536:G:N3	1.97	0.80
6:AE:82:ARG:C	6:AE:84:GLY:H	1.84	0.80
29:D1:2684:C:C5'	29:D1:2684:C:C6	2.56	0.80
29:B1:3023:U:H2'	29:B1:3024:A:H8	1.45	0.80
29:D1:219:A:H2	29:D1:1390:A:H2'	1.46	0.80
30:D2:38:U:H3'	30:D2:40:C:OP2	1.82	0.80
9:CH:21:ALA:N	9:CH:85:ALA:HB2	1.96	0.80
29:B1:69:C:N4	29:B1:70:A:H8	1.79	0.80
29:D1:1927:G:H3'	29:D1:1927:G:N3	1.96	0.80
1:A1:521:A:H3'	1:A1:523:G:N7	1.97	0.80
29:B1:980:A:N6	29:B1:1104:G:H8	1.80	0.80
29:B1:1405:U:H2'	29:B1:1406:A:C8	2.17	0.80
29:B1:1441:G:O2'	29:B1:1442:U:H5''	1.80	0.80
29:B1:1448:U:C5	29:B1:2355:G:C2	2.69	0.80
29:B1:1484:U:H1'	29:B1:1485:G:OP1	1.80	0.80
29:B1:1687:U:O3'	29:B1:1688:U:H4'	1.79	0.80
29:B1:580:C:C2	29:B1:581:U:H5	1.99	0.80
29:B1:707:U:H5''	29:B1:782:U:O2'	1.82	0.80
1:C1:364:G:N2	1:C1:381:C:C6	2.50	0.80
29:D1:1120:A:H5'	29:D1:1121:U:OP2	1.82	0.80
29:D1:3367:C:C2'	29:D1:3368:U:H5''	2.12	0.80
37:DF:2:SER:O	38:DG:79:ALA:HB3	1.80	0.80
1:C1:1552:U:H2'	1:C1:1552:U:O2	1.82	0.80
1:A1:1243:G:C5	1:A1:1244:A:N6	2.45	0.80
1:A1:1483:A:H1'	1:A1:1524:A:H62	1.47	0.80
1:A1:1558:U:H6	1:A1:1559:A:H5''	1.44	0.80
29:B1:1596:C:H2'	29:B1:1597:C:C6	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1625:A:H3'	29:D1:1626:U:C4'	2.12	0.80
29:D1:2599:U:H2'	29:D1:2600:C:H6	1.46	0.80
1:A1:1631:A:H5'	1:A1:1764:C:O2'	1.82	0.79
29:B1:1194:G:C8	29:B1:1319:G:H4'	2.16	0.79
29:B1:118:U:H3	29:B1:150:A:H61	0.81	0.79
29:B1:3047:U:HO2'	29:B1:3048:A:H5''	1.47	0.79
29:B1:3363:U:H3'	29:B1:3364:C:H6	1.44	0.79
29:B1:608:A:H2'	29:B1:609:G:O5'	1.81	0.79
44:BO:85:THR:HA	44:BO:87:GLN:N	1.97	0.79
1:C1:1018:U:H2'	1:C1:1019:A:H8	1.47	0.79
1:C1:162:A:C3'	1:C1:163:G:H8	1.95	0.79
29:D1:3000:A:H2'	29:D1:3001:C:C6	2.17	0.79
1:A1:650:U:C2'	1:A1:651:G:H5''	2.11	0.79
29:D1:2676:A:H2	29:D1:2680:A:C6	2.00	0.79
1:C1:1242:A:C4'	10:CI:78:THR:HA	2.11	0.79
1:A1:1468:U:O2'	1:A1:1469:A:O5'	1.98	0.79
1:A1:1485:C:H3'	1:A1:1486:G:H5''	1.61	0.79
1:A1:1584:G:N3	11:AJ:124:PRO:HA	1.95	0.79
29:B1:3181:C:C6	45:BP:167:TYR:CB	2.65	0.79
29:D1:406:G:N3	31:D3:16:G:C2	2.50	0.79
29:B1:3028:G:C2	29:B1:3029:A:C2	2.70	0.79
29:D1:3141:A:H5''	29:D1:3143:C:C2	2.17	0.79
29:B1:822:G:H2'	29:B1:823:C:C6	2.13	0.79
30:D2:3:U:H2'	30:D2:4:U:H6	1.47	0.79
47:BR:154:GLY:N	47:BR:155:MET:HA	1.92	0.79
43:BN:33:ALA:CB	43:BN:48:GLY:H	1.94	0.79
29:D1:2337:C:O2'	29:D1:2338:C:H5'	1.82	0.79
45:BP:147:TRP:CB	45:BP:148:LYS:HA	2.13	0.79
1:A1:1055:U:O4	1:A1:1064:G:O6	2.01	0.79
1:A1:1109:G:C2	1:A1:1110:G:C8	2.70	0.79
1:A1:16:G:H2'	1:A1:17:C:H6	1.47	0.79
1:A1:1763:A:H3'	1:A1:1764:C:H5''	1.64	0.79
1:A1:20:G:H4'	1:A1:571:G:C2	2.16	0.79
1:A1:427:C:O4'	1:A1:459:G:O2'	2.01	0.79
29:B1:10:C:N4	31:B3:148:G:N1	2.29	0.79
29:B1:1877:U:H4'	29:B1:1878:G:OP2	1.81	0.79
29:B1:2998:U:H2'	29:B1:2999:U:C6	2.16	0.79
74:B1:3492:OHX:N1	54:BY:20:GLY:HA3	1.97	0.79
29:B1:597:G:N1	29:B1:607:A:C2	2.51	0.79
29:B1:613:G:O2'	29:B1:614:C:H5'	1.82	0.79
29:B1:720:A:C8	29:B1:720:A:O5'	2.35	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:781:G:C6	29:B1:782:U:C4	2.70	0.79
3:CB:203:LYS:O	3:CB:205:ARG:N	2.15	0.79
29:D1:2293:C:H5	29:D1:2294:U:C5	2.00	0.79
29:D1:2287:C:C2	29:D1:2298:U:O2	2.36	0.79
29:D1:2998:U:C6	29:D1:2998:U:H5''	2.17	0.79
29:D1:3090:U:O2'	29:D1:3091:A:OP1	1.98	0.79
29:D1:31:C:C2'	29:D1:32:U:H5'	2.13	0.79
29:D1:3301:U:OP1	29:D1:3301:U:C2	2.34	0.79
29:D1:592:A:H3'	29:D1:593:C:H4'	1.63	0.79
30:B2:69:C:H3'	30:B2:70:U:C6	2.17	0.79
1:A1:173:A:C2	1:A1:174:U:C1'	2.64	0.79
1:A1:1556:A:H2'	1:A1:1560:U:C4	2.17	0.79
37:BF:43:LEU:H	37:BF:84:VAL:CB	1.95	0.79
1:C1:1388:A:C5	1:C1:1411:A:C6	2.70	0.79
1:A1:353:A:N7	1:A1:354:C:C5	2.50	0.79
29:B1:1351:U:O2	29:B1:1351:U:H2'	1.80	0.79
29:D1:620:U:OP2	29:D1:620:U:C6	2.35	0.79
29:B1:2560:C:H3'	29:B1:2561:A:H5''	1.63	0.79
29:B1:1804:A:H2'	29:B1:1805:C:H6	1.46	0.79
29:B1:2490:C:H1'	29:B1:2491:A:N7	1.97	0.79
1:C1:213:A:H2'	1:C1:214:G:H5'	1.64	0.79
52:BW:69:SER:H	52:BW:72:ALA:HB3	1.46	0.79
29:B1:1139:G:C5'	29:B1:1139:G:C8	2.65	0.79
29:B1:1528:G:H2'	29:B1:1529:A:H8	1.47	0.79
29:B1:1941:C:N4	29:B1:2107:A:H61	1.79	0.79
29:B1:2739:A:H5''	29:B1:2740:A:OP2	1.83	0.79
29:B1:3063:C:H2'	29:B1:3064:U:C6	2.18	0.79
29:B1:327:A:C2	29:B1:328:U:C4	2.70	0.79
29:B1:504:A:C8	29:B1:504:A:C3'	2.63	0.79
1:C1:1028:C:H1'	1:C1:1029:U:H5''	1.65	0.79
1:C1:194:U:H4'	1:C1:195:G:O5'	1.81	0.79
1:C1:209:U:H5'	1:C1:210:A:OP2	1.82	0.79
1:C1:555:A:C2	1:C1:556:A:C2	2.70	0.79
29:D1:1941:C:N4	29:D1:2107:A:H61	1.80	0.79
29:D1:3129:A:H5''	29:D1:3130:A:OP2	1.82	0.79
29:D1:3315:G:H1'	29:D1:3320:A:C8	2.17	0.79
29:D1:384:A:C8	29:D1:384:A:O5'	2.34	0.79
29:D1:574:U:H5'	29:D1:574:U:H6	1.46	0.79
29:D1:588:G:C6	29:D1:612:U:H5	2.01	0.79
29:D1:9:U:H2'	29:D1:10:C:H5'	1.64	0.79
31:D3:40:A:H5'	31:D3:40:A:C8	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:67:U:H3'	31:D3:68:G:H8	1.47	0.79
1:A1:741:C:O2'	1:A1:742:U:O5'	2.00	0.79
1:C1:1683:C:OP2	1:C1:1683:C:H3'	1.82	0.79
1:C1:1377:U:H2'	1:C1:1378:U:C4'	2.12	0.79
1:C1:1525:A:H2'	1:C1:1526:A:H8	1.47	0.79
30:B2:91:G:H2'	30:B2:92:A:H8	1.48	0.79
29:B1:3383:G:C2	29:B1:3384:U:C4	2.71	0.79
29:B1:342:A:C2	29:B1:349:A:C8	2.70	0.79
29:B1:26:A:H2'	29:B1:27:C:H6	1.47	0.79
3:AB:185:LYS:O	3:AB:188:LEU:N	2.15	0.79
20:CS:42:CYS:O	20:CS:44:ARG:N	2.14	0.79
1:A1:1296:A:H2'	1:A1:1297:G:H5''	1.62	0.79
29:B1:150:A:N7	29:B1:151:A:N6	2.29	0.79
29:B1:1901:A:H4'	29:B1:2918:G:H4'	1.65	0.79
1:C1:1728:A:H2'	1:C1:1729:C:H6	1.45	0.79
1:C1:142:G:N7	1:C1:266:A:N1	2.30	0.79
29:D1:100:A:H2'	29:D1:101:G:C8	2.17	0.79
29:D1:1605:A:OP1	29:D1:1835:A:OP1	1.99	0.79
29:D1:2853:A:C6	29:D1:2854:U:N3	2.51	0.79
29:D1:535:G:H3'	29:D1:536:U:C5	2.16	0.79
29:D1:968:G:H2'	29:D1:969:C:C6	2.17	0.79
30:D2:68:C:O2	30:D2:69:C:C1'	2.29	0.79
29:B1:2680:A:OP1	29:B1:2681:U:C5	2.36	0.79
1:C1:1491:U:H3'	1:C1:1492:A:H2'	1.65	0.79
29:B1:3251:U:H2'	29:B1:3252:G:H8	1.45	0.79
1:A1:1327:C:H2'	1:A1:1328:G:H5'	1.65	0.79
29:D1:2450:G:H2'	29:D1:2451:G:H5'	1.65	0.79
45:DP:147:TRP:CB	45:DP:148:LYS:HA	2.13	0.79
34:DC:60:LEU:O	34:DC:62:ARG:N	2.14	0.79
7:AF:75:VAL:HA	7:AF:86:ILE:HA	1.62	0.79
29:B1:1450:G:C2	29:B1:1451:C:C5	2.70	0.79
1:C1:1073:G:N1	1:C1:1074:G:C2	2.51	0.79
1:C1:527:A:H3'	1:C1:528:U:H5'	1.63	0.79
29:D1:1054:A:H2'	29:D1:1054:A:N3	1.97	0.79
29:D1:1150:A:N7	29:D1:1310:G:H5''	1.97	0.79
29:D1:1455:U:O4'	29:D1:1455:U:OP2	2.01	0.79
29:D1:150:A:H2'	29:D1:151:A:C8	2.17	0.79
29:D1:2294:U:H5'	29:D1:2295:A:OP2	1.81	0.79
29:D1:2837:A:H2'	29:D1:2845:A:N1	1.97	0.79
29:D1:2989:U:H2'	29:D1:2990:G:O4'	1.83	0.79
31:D3:80:A:H2'	31:D3:81:U:C2	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:646:C:H3'	1:C1:647:G:H5''	1.64	0.79
1:C1:650:U:C2'	1:C1:651:G:H5''	2.13	0.79
30:B2:73:C:N3	30:B2:74:C:C5	2.50	0.79
1:C1:1474:G:H2'	1:C1:1475:A:H8	1.46	0.79
1:A1:1377:U:C2'	1:A1:1378:U:H4'	2.11	0.79
1:A1:1274:C:C6	1:A1:1427:A:N7	2.50	0.79
29:B1:1464:G:H21	29:B1:1466:G:H3'	1.47	0.79
29:B1:3174:A:O2'	29:B1:3175:U:H5'	1.81	0.79
30:B2:38:U:H3'	30:B2:40:C:OP2	1.83	0.79
30:B2:25:G:N3	30:B2:26:C:C5	2.51	0.79
1:C1:1402:G:H2'	1:C1:1403:C:C6	2.16	0.79
43:DN:49:PRO:N	43:DN:50:LYS:HA	1.96	0.79
1:C1:1735:U:H2'	1:C1:1736:G:H8	1.47	0.79
29:B1:2122:G:C6	29:B1:2332:A:C2	2.70	0.79
29:B1:1315:U:H2'	29:B1:1315:U:O2	1.81	0.79
29:B1:1908:A:N6	29:B1:1909:A:C6	2.50	0.79
29:B1:198:A:H1'	29:B1:218:G:N3	1.98	0.79
29:B1:2136:C:H3'	29:B1:2142:A:N6	1.97	0.79
74:B1:3536:OHX:N2	44:BO:84:PRO:HA	1.96	0.79
29:B1:547:G:H3'	29:B1:548:G:H8	1.47	0.79
29:B1:706:A:C5	29:B1:714:G:N2	2.51	0.79
29:B1:829:U:O2'	29:B1:866:A:N1	2.16	0.79
29:B1:911:C:O2	29:B1:911:C:H2'	1.81	0.79
31:B3:113:U:C1'	31:B3:114:G:OP2	2.24	0.79
74:B1:3492:OHX:N1	54:BY:20:GLY:CA	2.46	0.79
1:C1:515:A:N6	1:C1:537:G:H1	1.80	0.79
1:C1:817:A:H2	1:C1:855:A:H2	1.30	0.79
29:D1:1157:G:C2	29:D1:1158:A:H1'	2.17	0.79
29:D1:1174:G:C2	29:D1:1175:C:C5	2.70	0.79
29:D1:1455:U:H3'	29:D1:1456:A:H8	1.46	0.79
29:D1:1504:A:H2'	29:D1:1505:C:C6	2.18	0.79
29:D1:420:G:H21	29:D1:2384:A:H3'	1.47	0.79
29:D1:2642:A:C2	29:D1:2643:A:C5	2.70	0.79
29:D1:2947:G:C2	29:D1:2948:C:C4	2.71	0.79
29:D1:515:C:C2'	29:D1:516:A:O4'	2.24	0.79
29:D1:774:G:O2'	29:D1:775:A:H5'	1.83	0.79
29:D1:750:G:H22	29:D1:784:A:C1'	1.95	0.79
30:B2:9:C:H2'	30:B2:13:A:N6	1.97	0.79
1:A1:291:G:H2'	1:A1:292:U:C5	2.16	0.79
1:A1:1719:A:H2'	1:A1:1720:G:C5	2.16	0.79
46:BQ:10:ASN:H	46:BQ:11:PRO:HA	0.67	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:33:U:O2	30:D2:33:U:H2'	1.83	0.79
30:D2:35:C:H5'	30:D2:35:C:C6	2.17	0.79
39:DH:187:GLY:HA3	39:DH:194:THR:O	1.82	0.79
29:D1:1680:G:N3	29:D1:1681:U:C6	2.50	0.79
1:A1:280:U:H3'	1:A1:281:G:H8	1.46	0.79
29:B1:1651:U:O2'	29:B1:1652:G:H5'	1.82	0.79
44:DO:159:ARG:C	44:DO:161:ALA:H	1.85	0.79
1:A1:1040:G:H1	1:A1:1079:U:H3	1.31	0.79
1:A1:590:C:H2'	1:A1:591:A:H8	1.47	0.79
29:B1:945:C:H1'	29:B1:1407:A:H1'	1.65	0.79
29:B1:1608:C:H2'	29:B1:1609:C:H5'	1.65	0.79
29:B1:1900:A:O4'	29:B1:1901:A:C2	2.36	0.79
29:B1:3305:A:C4	29:B1:3306:U:O2	2.34	0.79
29:B1:427:C:N4	29:B1:428:A:N6	2.31	0.79
29:B1:592:A:C2	29:B1:593:C:N1	2.51	0.79
29:B1:720:A:O5'	29:B1:720:A:H8	1.64	0.79
1:C1:104:A:H2'	1:C1:106:U:OP1	1.83	0.79
1:C1:44:U:O5'	1:C1:45:U:H5	1.64	0.79
29:D1:1115:G:H3'	29:D1:1115:G:H8	1.47	0.79
29:D1:1601:U:C5	29:D1:1604:G:C6	2.71	0.79
29:D1:2420:C:H2'	29:D1:2421:U:H5'	1.63	0.79
29:D1:586:C:H2'	29:D1:586:C:O2	1.82	0.79
29:D1:796:U:H2'	29:D1:797:U:H6	1.47	0.79
29:D1:911:C:H2'	29:D1:912:G:H5'	1.64	0.79
29:D1:16:A:H61	31:D3:143:U:H3	1.28	0.79
1:A1:739:G:H2'	1:A1:740:A:H8	1.46	0.79
1:A1:827:C:H2'	1:A1:828:U:N3	1.96	0.79
29:B1:351:A:H8	31:B3:53:A:HO2'	1.30	0.79
1:A1:194:U:H4'	1:A1:195:G:O5'	1.80	0.79
30:D2:8:G:H2'	30:D2:9:C:C6	2.18	0.79
1:A1:1685:G:H22	1:A1:1718:G:H21	1.29	0.79
1:A1:1274:C:H2'	1:A1:1274:C:O2	1.83	0.79
1:A1:1540:G:H2'	1:A1:1541:G:O4'	1.81	0.79
29:B1:384:A:C8	29:B1:384:A:O5'	2.33	0.79
29:B1:3204:C:H2'	29:B1:3205:G:OP1	1.82	0.79
29:B1:1265:U:H2'	29:B1:1266:G:C8	2.18	0.79
30:B2:55:A:OP2	30:B2:55:A:H3'	1.82	0.79
29:D1:1229:G:H2'	29:D1:1230:G:C8	2.17	0.79
29:D1:2514:U:H4'	29:D1:2515:A:OP1	1.82	0.79
29:B1:331:G:N2	29:B1:332:C:C2	2.51	0.79
1:C1:1221:A:H2'	1:C1:1222:C:C6	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:148:LEU:HA	3:CB:194:GLU:H	1.48	0.79
1:C1:720:G:H2'	1:C1:721:U:H5''	1.65	0.79
13:CL:65:GLU:O	13:CL:68:ARG:N	2.16	0.79
29:B1:2900:A:C2'	29:B1:2901:G:O5'	2.30	0.79
1:A1:1109:G:C2'	1:A1:1110:G:H5''	2.13	0.79
1:A1:528:U:O5'	1:A1:529:A:H4'	1.82	0.79
1:A1:995:A:H5''	1:A1:996:U:OP2	1.83	0.79
29:B1:1524:A:H1'	29:B1:1525:G:OP1	1.81	0.79
29:B1:1798:A:H2'	29:B1:1799:A:C8	2.18	0.79
29:B1:3317:U:H3	34:BC:123:TYR:HA	1.47	0.79
29:B1:3327:G:C2	29:B1:3328:G:C8	2.71	0.79
29:B1:596:C:C3'	29:B1:596:C:O2	2.30	0.79
29:B1:694:C:H2'	29:B1:694:C:O2	1.80	0.79
29:B1:921:A:OP1	29:B1:921:A:H3'	1.82	0.79
31:B3:111:A:H8	31:B3:111:A:H5''	1.48	0.79
1:C1:258:C:O2'	1:C1:259:U:C6	2.36	0.79
29:D1:1153:A:N7	29:D1:1154:A:C5	2.51	0.79
29:D1:1440:G:O2'	29:D1:1441:G:H5'	1.82	0.79
29:D1:1504:A:H3'	29:D1:1505:C:C5'	2.12	0.79
29:D1:2997:G:N3	29:D1:2998:U:H5'	1.98	0.79
29:D1:549:U:H2'	29:D1:550:A:H8	1.47	0.79
29:D1:613:G:O2'	29:D1:614:C:H5'	1.81	0.79
1:A1:647:G:N2	1:A1:648:G:C2	2.50	0.79
1:A1:192:U:H2'	1:A1:193:U:O4'	1.83	0.79
30:D2:69:C:H3'	30:D2:70:U:C6	2.17	0.79
1:C1:1345:A:H2'	1:C1:1346:A:N7	1.96	0.79
1:C1:1385:G:N3	1:C1:1386:G:C8	2.51	0.79
1:A1:1484:G:N2	1:A1:1606:C:H1'	1.97	0.79
30:D2:26:C:H4'	30:D2:27:A:OP1	1.80	0.79
29:D1:1394:A:C8	29:D1:1395:G:C8	2.70	0.79
1:C1:415:C:O2	1:C1:418:G:N1	2.10	0.79
29:D1:3141:A:H4'	29:D1:3142:A:O5'	1.83	0.79
29:D1:3140:G:C5'	29:D1:3140:G:H8	1.96	0.79
29:D1:3072:C:H5	29:D1:3073:A:C5	2.01	0.79
29:B1:3350:C:H4'	29:B1:3354:U:H5	1.47	0.79
2:AA:145:ALA:O	2:AA:160:ILE:HA	1.82	0.79
29:D1:355:A:H2'	29:D1:356:C:O4'	1.82	0.79
11:AJ:46:PHE:C	11:AJ:48:VAL:H	1.83	0.79
1:A1:316:A:H4'	1:A1:316:A:OP1	1.82	0.79
48:BS:62:ARG:O	48:BS:65:ALA:HB3	1.81	0.79
1:A1:1102:G:H2'	1:A1:1103:U:O5'	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:15:C:H4'	29:B1:16:A:OP1	1.81	0.79
29:B1:2245:C:H2'	29:B1:2246:G:O4'	1.83	0.79
29:B1:400:G:H5''	29:B1:403:C:O2'	1.82	0.79
29:B1:515:C:P	29:B1:515:C:H6	2.06	0.79
29:B1:593:C:C2	29:B1:594:U:H4'	2.17	0.79
1:C1:149:C:H3'	1:C1:150:U:C6	2.17	0.79
1:C1:996:U:H2'	1:C1:996:U:O2	1.82	0.79
29:D1:23:A:H3'	29:D1:24:G:H8	1.48	0.79
29:D1:2650:U:H6	29:D1:2650:U:OP2	1.64	0.79
29:D1:3376:A:H5'	29:D1:3377:G:H5''	1.64	0.79
74:D1:3446:OHX:N6	74:D1:3574:OHX:N2	2.31	0.79
29:D1:39:A:H5'	29:D1:40:A:OP2	1.83	0.79
29:D1:750:G:H2'	29:D1:751:A:C8	2.16	0.79
29:D1:773:G:HO2'	29:D1:774:G:H8	0.85	0.79
1:C1:219:A:H61	1:C1:843:U:H1'	1.48	0.79
30:B2:12:U:O4'	30:B2:69:C:H4'	1.83	0.79
29:B1:2680:A:OP1	29:B1:2681:U:H5	1.65	0.79
1:A1:1250:U:C4	1:A1:1251:U:C4	2.70	0.79
1:C1:1055:U:O4	1:C1:1064:G:O6	2.00	0.79
29:B1:1196:C:N3	30:B2:86:U:C5	2.50	0.79
46:BQ:9:THR:H	46:BQ:10:ASN:HA	1.46	0.79
29:D1:3199:G:H2'	29:D1:3200:G:C8	2.18	0.79
29:D1:3254:G:H2'	29:D1:3254:G:N3	1.97	0.79
36:BE:100:ALA:O	36:BE:102:GLY:N	2.16	0.79
29:B1:2592:G:O6	74:B1:3449:OHX:N6	2.16	0.79
29:B1:847:A:H2'	29:B1:848:A:H8	1.48	0.79
1:A1:1753:A:C3'	1:A1:1754:A:H5''	2.13	0.79
29:D1:3072:C:C5	29:D1:3073:A:C5	2.70	0.79
43:DN:50:LYS:H	43:DN:53:VAL:CB	1.96	0.79
29:B1:2131:A:H2'	29:B1:2132:C:H5''	1.65	0.79
1:C1:1068:C:H2'	1:C1:1069:A:H8	1.48	0.79
29:D1:2465:G:H2'	29:D1:2466:G:H8	1.46	0.79
50:BU:133:SER:O	50:BU:135:VAL:N	2.16	0.79
1:A1:1775:U:O2'	1:A1:1776:A:H5'	1.82	0.79
29:B1:537:A:N6	29:B1:556:U:O2	2.16	0.79
29:B1:819:U:H2'	29:B1:820:A:C8	2.18	0.79
1:C1:612:U:H4'	1:C1:1099:U:C5	2.18	0.79
1:C1:1771:U:H2'	1:C1:1772:C:C6	2.17	0.79
1:C1:440:U:H3'	1:C1:441:A:H5'	1.64	0.79
1:C1:94:U:H2'	1:C1:95:G:O4'	1.82	0.79
29:D1:1609:C:H2'	29:D1:1609:C:OP2	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2143:A:H2'	29:D1:2144:A:H5'	1.65	0.79
29:D1:2146:C:C2'	29:D1:2147:A:H5'	2.07	0.79
29:D1:3116:G:O2'	29:D1:3117:C:H5'	1.84	0.79
29:D1:3308:C:C5	29:D1:3309:G:C4	2.71	0.79
29:B1:2672:G:H4'	42:BK:104:PHE:O	1.82	0.79
1:C1:1228:G:H5'	1:C1:1229:G:OP2	1.81	0.79
1:C1:1244:A:H2	1:C1:1245:G:C1'	1.95	0.79
15:AN:68:ARG:CA	15:AN:79:TRP:HA	2.05	0.79
29:D1:3262:U:OP2	29:D1:3262:U:H3'	1.82	0.79
29:B1:1593:A:H2'	29:B1:1594:A:H8	1.44	0.79
29:D1:3313:U:O2'	29:D1:3314:A:O5'	2.01	0.79
1:A1:1330:G:H2'	1:A1:1331:A:H8	1.47	0.79
1:A1:357:G:H2'	1:A1:358:U:C6	2.17	0.79
1:A1:1291:G:H2'	1:A1:1292:G:C8	2.17	0.79
47:BR:31:LYS:O	47:BR:35:PHE:N	2.16	0.79
29:D1:1362:G:O2'	29:D1:1363:A:H5'	1.83	0.79
1:C1:369:A:H5'	1:C1:370:A:OP2	1.83	0.79
1:A1:1148:C:H2'	1:A1:1149:G:N7	1.97	0.78
29:B1:1314:C:H5"	29:B1:1315:U:OP2	1.84	0.78
29:B1:1903:U:C2	29:B1:1905:G:H5"	2.17	0.78
29:B1:207:U:H2'	29:B1:208:C:C6	2.19	0.78
29:B1:2825:C:H5'	29:B1:2826:U:OP2	1.83	0.78
29:B1:2897:A:H2'	29:B1:2899:C:H5"	1.64	0.78
29:B1:3308:C:C5	29:B1:3309:G:C4	2.71	0.78
29:B1:675:C:O2	29:B1:679:U:H5'	1.82	0.78
29:B1:705:A:H4'	29:B1:706:A:H5'	1.64	0.78
29:B1:88:A:H2'	29:B1:89:A:O4'	1.83	0.78
1:C1:361:C:N4	1:C1:384:G:N1	2.29	0.78
29:D1:2932:U:H2'	29:D1:2932:U:O2	1.83	0.78
29:D1:3316:A:H61	29:D1:3388:C:N4	1.81	0.78
29:D1:3317:U:H3	34:DC:123:TYR:HA	1.49	0.78
29:D1:564:G:H3'	29:D1:565:U:C6	2.17	0.78
30:D2:98:C:C3'	30:D2:99:G:H5"	2.13	0.78
31:D3:113:U:C1'	31:D3:114:G:OP2	2.27	0.78
31:D3:69:U:C2'	31:D3:70:G:H4'	2.13	0.78
31:D3:76:C:H2'	53:DX:76:LEU:CB	2.13	0.78
1:A1:833:U:H3'	1:A1:834:G:H5"	1.63	0.78
1:C1:829:A:H1'	1:C1:830:U:O5'	1.83	0.78
30:D2:64:A:C4'	30:D2:65:G:O5'	2.30	0.78
1:C1:1250:U:C4	1:C1:1251:U:C4	2.71	0.78
1:A1:1244:A:H2	1:A1:1245:G:C1'	1.95	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1280:C:H2'	1:A1:1281:G:C8	2.18	0.78
29:D1:3274:A:H1'	29:D1:3275:U:P	2.23	0.78
1:A1:1402:G:H2'	1:A1:1403:C:H6	1.47	0.78
29:D1:1933:A:H2'	29:D1:1934:G:H5'	1.65	0.78
14:CM:115:GLU:O	14:CM:122:ARG:HA	1.83	0.78
29:B1:1818:U:H2'	29:B1:1819:U:C2	2.18	0.78
10:AI:45:PHE:CB	10:AI:46:ALA:HA	2.13	0.78
1:A1:1107:G:H3'	1:A1:1108:G:N2	1.98	0.78
1:A1:12:U:H1'	1:A1:1300:A:H1'	1.66	0.78
1:A1:361:C:N3	1:A1:384:G:N2	2.30	0.78
29:B1:195:U:H4'	29:B1:1391:C:C5	2.17	0.78
29:B1:1412:G:C5	29:B1:1413:G:N7	2.51	0.78
29:B1:2286:U:C4	29:B1:2288:G:H1'	2.18	0.78
29:B1:305:U:O2	29:B1:305:U:H2'	1.83	0.78
29:B1:3048:A:N6	29:B1:3090:U:H3'	1.98	0.78
29:B1:394:G:H22	29:B1:396:A:H2'	1.48	0.78
29:B1:430:U:H2'	29:B1:431:U:C6	2.18	0.78
29:B1:674:G:H2'	29:B1:675:C:C6	2.18	0.78
29:B1:762:U:C4	74:B1:3479:OHX:N6	2.51	0.78
1:C1:171:A:O2'	1:C1:172:C:C5'	2.30	0.78
1:C1:283:U:H3'	1:C1:284:G:C5'	2.13	0.78
29:D1:1198:C:C6	29:D1:1200:A:C8	2.72	0.78
29:D1:2309:A:H2	29:D1:2961:G:H2'	1.46	0.78
29:D1:2667:A:N6	29:D1:2690:G:C6	2.51	0.78
29:D1:3298:C:N4	29:D1:3299:A:N6	2.31	0.78
29:D1:560:G:HO2'	29:D1:561:C:H5'	1.47	0.78
29:D1:573:C:H2'	29:D1:574:U:C6	2.18	0.78
29:D1:592:A:H2'	29:D1:593:C:C2'	2.12	0.78
1:A1:699:U:H2'	1:A1:700:C:C5	2.18	0.78
1:C1:1536:G:H2'	1:C1:1536:G:N3	1.97	0.78
1:A1:1166:A:C2	1:A1:1167:G:H1'	2.18	0.78
1:A1:1619:C:C2	1:A1:1620:C:H5	2.00	0.78
29:D1:1230:G:C6	29:D1:1231:A:N7	2.51	0.78
29:D1:1263:A:H61	72:DL:135:THR:HA	1.48	0.78
29:D1:1383:G:C4'	35:DD:241:GLY:HA2	2.12	0.78
1:A1:1663:G:H2'	1:A1:1664:C:H6	1.46	0.78
29:B1:3180:A:H8	45:BP:114:LYS:CB	1.96	0.78
29:D1:2862:U:O2'	29:D1:2863:G:H5'	1.84	0.78
29:B1:1815:U:C3'	29:B1:1816:A:H5'	2.14	0.78
36:DE:18:THR:CB	36:DE:19:PRO:HA	2.14	0.78
29:D1:1815:U:C3'	29:D1:1816:A:H5'	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:54:C:H2'	1:A1:55:A:H5'	1.63	0.78
1:A1:618:U:H2'	1:A1:619:A:H5'	1.64	0.78
1:A1:973:A:H2'	1:A1:974:A:H8	1.47	0.78
29:B1:152:U:O2'	29:B1:153:U:H5'	1.83	0.78
29:B1:278:U:H2'	29:B1:279:U:C6	2.16	0.78
29:B1:2842:U:H2'	29:B1:2842:U:O2	1.82	0.78
29:B1:2990:G:C2'	29:B1:2991:A:H5'	2.12	0.78
29:B1:314:U:H2'	29:B1:315:C:C6	2.18	0.78
31:B3:2:A:O2'	31:B3:3:A:H5'	1.83	0.78
1:C1:1003:A:C8	1:C1:1005:A:C5	2.72	0.78
1:C1:26:A:OP1	1:C1:27:U:OP2	2.00	0.78
1:C1:297:U:H2'	1:C1:298:C:O5'	1.84	0.78
1:C1:364:G:C2	1:C1:381:C:C2	2.71	0.78
29:D1:1156:C:H3'	29:D1:1157:G:H5''	1.63	0.78
29:D1:1157:G:N3	29:D1:1158:A:H1'	1.97	0.78
29:D1:2147:A:H2'	29:D1:2148:U:C6	2.18	0.78
29:D1:2857:C:H2'	29:D1:2858:U:H6	1.47	0.78
29:D1:305:U:H2'	29:D1:305:U:O2	1.83	0.78
29:D1:540:U:H2'	29:D1:541:U:C6	2.19	0.78
29:D1:547:G:H3'	29:D1:548:G:H8	1.48	0.78
29:D1:745:C:C4	29:D1:746:A:N6	2.51	0.78
29:D1:64:G:O2'	29:D1:77:A:H1'	1.84	0.78
30:B2:12:U:H5'	30:B2:68:C:C2'	2.12	0.78
30:B2:64:A:H1'	30:B2:65:G:H5''	1.64	0.78
29:D1:2676:A:H4'	29:D1:2677:G:C8	2.18	0.78
1:C1:1364:G:N7	1:C1:1365:C:C5	2.51	0.78
1:A1:1516:A:H3'	1:A1:1517:U:C5'	2.13	0.78
29:B1:2172:A:C2'	29:B1:2173:U:H5'	2.13	0.78
29:B1:1063:G:O4'	29:B1:1063:G:OP1	2.01	0.78
29:B1:1640:G:H5''	29:B1:1738:C:OP1	1.83	0.78
29:D1:645:A:H4'	29:D1:646:A:OP1	1.84	0.78
29:D1:1914:G:H3'	29:D1:1915:A:H8	1.47	0.78
29:B1:605:U:H5''	29:B1:605:U:H6	1.45	0.78
1:A1:1035:G:H2'	1:A1:1036:A:O4'	1.83	0.78
1:A1:534:A:H2'	1:A1:535:A:C8	2.18	0.78
29:B1:1454:A:H5''	29:B1:1878:G:C6	2.17	0.78
29:B1:2178:A:OP1	33:BB:126:LEU:HA	1.83	0.78
29:B1:2293:C:C5	29:B1:2294:U:C5	2.72	0.78
29:B1:2326:A:C5'	29:B1:2327:U:OP2	2.31	0.78
29:B1:2420:C:H2'	29:B1:2421:U:H5'	1.65	0.78
29:B1:2837:A:H2'	29:B1:2845:A:N1	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:606:C:C3'	29:B1:607:A:H8	1.79	0.78
29:B1:937:G:H22	29:B1:960:U:C5'	1.94	0.78
29:B1:406:G:N3	31:B3:16:G:C2	2.52	0.78
1:C1:314:C:N3	1:C1:354:C:N4	2.31	0.78
1:C1:757:A:C4	1:C1:758:U:C6	2.71	0.78
29:D1:2111:G:O6	29:D1:3332:U:H3'	1.84	0.78
29:D1:2245:C:H2'	29:D1:2246:G:O4'	1.84	0.78
29:D1:2766:U:H2'	29:D1:2767:U:C6	2.18	0.78
29:D1:43:A:N6	29:D1:2802:A:C2	2.48	0.78
74:D1:3446:OHX:N3	74:D1:3574:OHX:N4	2.30	0.78
29:D1:2273:G:O6	74:D1:3582:OHX:N5	2.17	0.78
29:D1:773:G:H2'	29:D1:774:G:C8	2.17	0.78
74:D1:3543:OHX:N5	38:DG:217:PRO:HA	1.98	0.78
1:A1:284:G:H4'	1:A1:285:G:OP1	1.82	0.78
30:D2:67:G:C6	30:D2:68:C:C4	2.71	0.78
29:D1:2682:C:C4	29:D1:2683:U:H5	2.01	0.78
29:B1:3212:C:C4	29:B1:3213:A:H2	1.99	0.78
29:D1:3195:U:H2'	29:D1:3196:U:C2	2.19	0.78
30:B2:27:A:H5'	30:B2:28:C:OP2	1.82	0.78
31:B3:124:G:H5'	31:B3:125:U:OP2	1.83	0.78
29:D1:1271:A:N3	29:D1:1271:A:H2'	1.98	0.78
9:CH:22:SER:C	9:CH:24:ASN:H	1.86	0.78
29:B1:355:A:C2	29:B1:365:A:C5	2.71	0.78
29:D1:2122:G:C6	29:D1:2332:A:C2	2.71	0.78
46:BQ:98:ALA:O	46:BQ:99:ALA:C	2.21	0.78
1:A1:1299:G:H2'	1:A1:1300:A:C8	2.19	0.78
29:B1:679:U:H2'	29:B1:680:G:C8	2.19	0.78
54:BY:8:THR:O	54:BY:10:LYS:N	2.16	0.78
1:C1:437:A:H5''	1:C1:438:A:OP1	1.83	0.78
1:C1:995:A:H5''	1:C1:996:U:OP2	1.82	0.78
29:D1:2269:U:O2	29:D1:2269:U:H2'	1.83	0.78
29:D1:3316:A:N1	29:D1:3388:C:N4	2.31	0.78
29:D1:53:G:H2'	29:D1:54:C:H6	1.49	0.78
29:D1:595:G:H2'	29:D1:596:C:O4'	1.82	0.78
37:DF:6:ALA:HA	38:DG:75:TYR:HA	1.66	0.78
54:DY:8:THR:O	54:DY:10:LYS:N	2.17	0.78
29:B1:1054:A:N3	29:B1:1054:A:H2'	1.97	0.78
30:B2:108:A:H2'	30:B2:109:G:C8	2.18	0.78
30:B2:74:C:H2'	30:B2:75:G:C5'	2.02	0.78
29:B1:2680:A:H3'	29:B1:2681:U:C5'	2.13	0.78
11:CJ:81:ILE:O	11:CJ:84:ALA:HB3	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1182:U:H2'	1:A1:1184:A:OP2	1.83	0.78
29:B1:3237:U:H2'	29:B1:3238:G:C8	2.18	0.78
29:B1:2594:C:H2'	29:B1:2595:A:C8	2.17	0.78
29:B1:985:U:H2'	29:B1:986:U:H6	1.49	0.78
9:AH:22:SER:C	9:AH:24:ASN:H	1.87	0.78
1:A1:914:G:H4'	1:A1:915:A:O5'	1.82	0.78
29:B1:1927:G:N2	29:B1:1928:G:C8	2.52	0.78
34:BC:306:THR:O	34:BC:308:MET:N	2.17	0.78
29:B1:1383:G:C4'	35:BD:241:GLY:HA2	2.13	0.78
1:A1:374:U:C4	1:A1:375:U:C5	2.71	0.78
1:A1:697:C:H3'	1:A1:698:U:C5'	2.14	0.78
29:B1:2546:C:H5''	29:B1:2547:A:OP2	1.83	0.78
29:B1:1794:G:O2'	29:B1:1796:G:N2	2.17	0.78
29:B1:2407:C:H1'	29:B1:2818:U:H3	1.49	0.78
29:B1:3037:U:O2'	29:B1:3038:U:H5'	1.84	0.78
29:B1:3333:G:N2	29:B1:3371:G:C8	2.52	0.78
29:B1:807:A:H3'	29:B1:808:A:H5''	1.62	0.78
29:D1:1461:A:C5	29:D1:1462:A:N7	2.52	0.78
29:D1:2253:G:H3'	29:D1:2254:U:C5	2.18	0.78
29:D1:3363:U:H3'	29:D1:3364:C:H6	1.47	0.78
29:D1:822:G:H2'	29:D1:823:C:C6	2.19	0.78
1:C1:973:A:C4'	29:D1:847:A:H2	1.97	0.78
29:D1:960:U:H2'	29:D1:961:C:O4'	1.84	0.78
29:D1:995:U:O4	29:D1:2637:A:C5	2.36	0.78
30:D2:13:A:O5'	30:D2:13:A:C2	2.37	0.78
1:C1:1348:A:C8	1:C1:1348:A:H3'	2.18	0.78
1:C1:1487:A:H2'	1:C1:1488:G:C8	2.18	0.78
1:A1:1617:U:O2'	1:A1:1618:C:H5''	1.83	0.78
29:D1:405:U:O4	29:D1:406:G:C2	2.37	0.78
29:D1:3219:G:C8	29:D1:3257:C:OP1	2.36	0.78
31:B3:128:U:H5''	31:B3:129:C:C5	2.18	0.78
30:D2:88:G:C4	30:D2:89:G:N7	2.52	0.78
20:CS:23:VAL:C	74:CS:101:OHX:N2	2.36	0.78
1:A1:718:U:H5'	1:A1:719:U:OP2	1.84	0.78
29:B1:2465:G:H2'	29:B1:2466:G:C8	2.19	0.78
1:A1:806:A:H2'	1:A1:807:A:H5''	1.64	0.78
4:CC:140:GLY:HA3	4:CC:182:LEU:HA	1.64	0.78
13:AL:65:GLU:O	13:AL:68:ARG:N	2.15	0.78
1:A1:1765:A:OP2	74:A1:1931:OHX:N5	2.17	0.78
1:A1:44:U:O5'	1:A1:45:U:H5	1.67	0.78
1:A1:817:A:H2	1:A1:855:A:H2	1.30	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2280:A:C5	29:B1:2282:U:H5	2.02	0.78
31:B3:104:A:H5''	31:B3:105:A:C8	2.18	0.78
1:C1:93:A:C4	1:C1:399:A:C2	2.72	0.78
29:D1:1140:G:H2'	29:D1:1141:C:C6	2.19	0.78
29:D1:1448:U:H5	29:D1:2355:G:N2	1.82	0.78
29:D1:1471:U:H2'	29:D1:1472:U:H6	1.49	0.78
29:D1:2286:U:C4	29:D1:2288:G:H1'	2.17	0.78
29:D1:2374:C:N4	29:D1:2941:A:C4	2.52	0.78
29:D1:1304:A:C4	29:D1:2939:G:H1'	2.18	0.78
29:D1:781:G:C6	29:D1:782:U:C4	2.72	0.78
1:A1:646:C:H3'	1:A1:647:G:H5''	1.66	0.78
29:B1:2696:A:C8	29:B1:2697:A:N7	2.51	0.78
30:B2:68:C:H2'	30:B2:69:C:O4'	1.84	0.78
30:D2:108:A:H2'	30:D2:109:G:C8	2.18	0.78
30:D2:11:A:H2	36:DE:16:PHE:HA	1.47	0.78
1:C1:1594:G:C6	1:C1:1595:U:N3	2.52	0.78
6:CE:82:ARG:C	6:CE:84:GLY:H	1.85	0.78
46:DQ:9:THR:H	46:DQ:10:ASN:HA	1.46	0.78
29:B1:1080:A:C4	29:B1:1082:U:H5''	2.18	0.78
1:A1:883:C:H42	1:A1:945:U:H3	1.31	0.78
1:A1:1649:G:H2'	1:A1:1650:U:H6	1.48	0.78
29:D1:2561:A:H2'	29:D1:2562:A:H8	1.49	0.78
54:DY:131:SER:C	54:DY:133:LEU:H	1.86	0.78
34:DC:323:MET:O	34:DC:324:VAL:O	2.01	0.78
29:D1:2928:C:H2'	29:D1:2929:C:H5'	1.63	0.78
1:A1:1013:A:H2'	1:A1:1014:G:O4'	1.83	0.78
1:A1:996:U:O2	1:A1:996:U:H2'	1.82	0.78
29:B1:1658:G:H2'	29:B1:1659:U:C6	2.19	0.78
29:B1:2111:G:H22	51:BV:49:ILE:HA	1.48	0.78
29:B1:421:G:C2	29:B1:2365:C:C2	2.71	0.78
29:B1:3321:C:HO2'	29:B1:3322:A:H8	0.80	0.78
29:B1:580:C:N3	29:B1:581:U:H5	1.80	0.78
29:B1:937:G:N2	29:B1:960:U:H5'	1.97	0.78
29:B1:979:U:H4'	29:B1:980:A:OP1	1.81	0.78
29:B1:5:G:H22	31:B3:155:A:H1'	1.46	0.78
31:B3:1:A:C2	31:B3:2:A:C4	2.72	0.78
35:BD:16:THR:CB	35:BD:17:ALA:HA	2.14	0.78
1:C1:983:A:H2'	1:C1:984:G:H8	1.45	0.78
29:D1:1157:G:C5'	29:D1:1157:G:H8	1.96	0.78
29:D1:1449:A:H3'	29:D1:1450:G:C8	2.18	0.78
29:D1:3302:U:H3'	29:D1:3303:G:H5''	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:384:A:H5''	29:D1:385:A:OP2	1.83	0.78
29:D1:574:U:O2'	29:D1:575:G:OP1	1.99	0.78
31:D3:72:A:N3	31:D3:88:A:N1	2.32	0.78
1:C1:226:A:HO2'	1:C1:227:U:H6	1.31	0.78
29:B1:2636:A:H5''	29:B1:2637:A:O5'	1.82	0.78
30:B2:13:A:C2	30:B2:13:A:P	2.77	0.78
1:C1:336:G:H2'	1:C1:338:C:H5	1.48	0.78
1:C1:1199:G:C5	1:C1:1200:G:H1'	2.19	0.78
1:C1:1243:G:C5	1:C1:1244:A:N6	2.47	0.78
1:C1:1347:U:N3	1:C1:1376:C:N4	2.32	0.78
1:C1:1484:G:N2	1:C1:1606:C:H1'	1.99	0.78
1:C1:1523:G:H4'	1:C1:1524:A:OP2	1.82	0.78
29:B1:3176:G:H2'	29:B1:3177:G:H5''	1.66	0.78
29:D1:3203:U:OP2	29:D1:3203:U:H6	1.66	0.78
29:B1:1625:A:H3'	29:B1:1626:U:C4'	2.13	0.78
36:DE:97:ALA:HA	36:DE:100:ALA:CB	2.14	0.78
1:C1:901:G:H3'	1:C1:902:G:C8	2.18	0.78
29:B1:2883:U:H2'	29:B1:2884:C:C6	2.17	0.78
29:D1:2541:U:H2'	29:D1:2541:U:O2	1.82	0.78
29:D1:1640:G:O2'	29:D1:1641:U:H6	1.63	0.78
10:CI:77:ARG:HA	10:CI:95:GLY:H	1.48	0.78
14:AM:99:SER:HA	14:AM:102:ARG:CB	2.14	0.78
1:A1:1006:C:C6	1:A1:1007:C:H5	2.01	0.78
29:B1:1105:A:H2'	29:B1:1106:G:C8	2.19	0.78
29:B1:627:U:H4'	29:B1:1399:A:H1'	1.66	0.78
29:B1:3056:U:C2	29:B1:3079:U:C4	2.72	0.78
29:B1:3118:C:H2'	29:B1:3119:U:H6	1.48	0.78
29:B1:346:C:H41	29:B1:348:A:H3'	1.49	0.78
29:B1:409:A:N6	31:B3:15:G:H1'	1.99	0.78
29:B1:659:G:C2'	29:B1:660:A:C8	2.66	0.78
29:D1:1139:G:C5'	29:D1:1139:G:C8	2.66	0.78
29:D1:1898:G:C8	29:D1:1899:G:N7	2.52	0.78
29:D1:2650:U:C5'	29:D1:2651:G:OP2	2.32	0.78
29:D1:2727:A:C6	29:D1:2728:G:O6	2.37	0.78
29:D1:2997:G:C4	29:D1:2998:U:H5'	2.19	0.78
29:D1:573:C:H2'	29:D1:574:U:C5	2.19	0.78
29:D1:659:G:H8	29:D1:659:G:O5'	1.67	0.78
29:D1:719:U:O2'	29:D1:720:A:C8	2.35	0.78
29:D1:717:C:N4	29:D1:721:G:H5'	1.95	0.78
29:D1:744:A:C5	29:D1:745:C:C4	2.72	0.78
1:C1:1719:A:H2'	1:C1:1720:G:C5	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1233:G:N7	29:B1:1262:G:H3'	1.98	0.78
30:B2:55:A:H2	30:B2:56:A:C4	2.02	0.78
29:B1:1613:A:H2'	29:B1:1614:C:C6	2.18	0.78
29:D1:2522:G:H1'	29:D1:2523:A:P	2.22	0.78
29:D1:1277:C:H2'	29:D1:1277:C:OP2	1.84	0.78
36:DE:141:PRO:C	36:DE:143:LYS:H	1.88	0.78
36:BE:272:TYR:N	36:BE:273:ARG:HA	1.99	0.78
47:BR:18:ALA:HA	47:BR:53:PHE:CB	2.13	0.78
29:B1:2900:A:H2'	29:B1:2901:G:O5'	1.83	0.78
11:AJ:50:GLU:O	11:AJ:54:LEU:CB	2.32	0.78
29:D1:2465:G:H2'	29:D1:2466:G:C8	2.19	0.78
21:AT:181:TRP:HA	21:AT:189:GLU:H	1.47	0.78
1:A1:1667:A:H2'	1:A1:1668:G:C8	2.19	0.78
5:AD:64:VAL:HA	5:AD:89:ILE:HA	1.65	0.78
34:DC:299:ASP:HA	34:DC:302:LYS:O	1.83	0.78
1:A1:1765:A:OP2	74:A1:1931:OHX:N1	2.17	0.78
1:A1:480:G:N2	1:A1:508:U:H3	1.81	0.78
1:A1:593:U:H4'	1:A1:595:G:H4'	1.66	0.78
29:B1:1449:A:H3'	29:B1:1450:G:C8	2.18	0.78
29:B1:2151:C:O2'	29:B1:2243:A:N1	2.16	0.78
29:B1:3144:G:O6	74:B1:3428:OHX:N5	2.17	0.78
29:B1:81:C:HO2'	29:B1:82:C:H5'	1.48	0.78
29:D1:1786:G:H2'	29:D1:1787:A:H8	1.48	0.78
29:D1:2725:U:H5	29:D1:2727:A:O2'	1.67	0.78
29:D1:2743:A:H3'	29:D1:2744:U:C6	2.19	0.78
29:D1:2896:A:C2'	29:D1:2897:A:H5''	2.14	0.78
29:D1:673:U:C2'	29:D1:674:G:H5'	2.14	0.78
1:A1:737:A:H2'	1:A1:737:A:OP2	1.83	0.78
30:B2:11:A:O4'	30:B2:13:A:H2'	1.83	0.78
1:A1:274:G:H2'	1:A1:275:C:C6	2.19	0.78
30:D2:26:C:H2'	30:D2:27:A:O4'	1.82	0.78
39:BH:187:GLY:HA3	39:BH:194:THR:O	1.84	0.78
1:A1:1402:G:H2'	1:A1:1403:C:C6	2.19	0.78
29:D1:1075:A:C8	29:D1:1076:C:C6	2.71	0.78
29:B1:624:G:C2	29:B1:625:G:C8	2.72	0.78
32:BA:177:ASP:O	32:BA:181:ASN:CB	2.31	0.78
42:DK:142:LYS:O	42:DK:143:ARG:O	2.01	0.78
29:D1:2970:C:H3'	29:D1:2971:A:C5'	2.13	0.78
1:A1:1100:G:C4'	1:A1:1101:G:OP1	2.25	0.77
1:A1:606:A:C5	1:A1:608:U:H5	2.01	0.77
3:AB:163:GLY:HA3	3:AB:203:LYS:CB	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2424:A:H5''	29:B1:2425:G:OP2	1.83	0.77
29:B1:2916:U:H5	29:B1:2935:U:HO2'	1.28	0.77
29:B1:573:C:H2'	29:B1:574:U:C6	2.17	0.77
29:B1:611:A:H5'	29:B1:612:U:OP1	1.83	0.77
29:B1:726:G:C5	29:B1:727:G:C2	2.72	0.77
38:BG:74:SER:CB	38:BG:75:TYR:CA	2.62	0.77
1:C1:618:U:H5''	1:C1:1030:A:C2	2.19	0.77
1:C1:963:A:HO2'	1:C1:964:U:H6	1.24	0.77
1:C1:611:U:O2	7:CF:96:LYS:HA	1.84	0.77
29:D1:1192:C:C2	29:D1:1192:C:OP2	2.37	0.77
29:D1:1939:G:O2'	29:D1:1940:G:H5'	1.84	0.77
29:D1:2996:U:H4'	29:D1:2997:G:OP2	1.82	0.77
29:D1:314:U:H2'	29:D1:315:C:C6	2.18	0.77
29:D1:3316:A:N1	29:D1:3388:C:N3	2.32	0.77
29:D1:3364:C:O2'	29:D1:3365:U:H5'	1.84	0.77
29:D1:363:G:C3'	29:D1:364:G:H5''	2.13	0.77
29:D1:550:A:H8	29:D1:550:A:OP2	1.65	0.77
29:B1:2649:A:H1'	29:B1:2696:A:H1'	1.65	0.77
30:B2:12:U:C2	30:B2:70:U:OP1	2.37	0.77
31:B3:66:A:H2'	31:B3:67:U:C6	2.18	0.77
1:A1:190:C:H3'	1:A1:191:C:C5'	2.14	0.77
1:A1:64:U:H5'	1:A1:65:A:OP2	1.84	0.77
30:D2:16:U:H2'	30:D2:17:A:C8	2.19	0.77
1:C1:1683:C:H2'	1:C1:1719:A:N1	1.98	0.77
1:A1:1364:G:N7	1:A1:1365:C:C5	2.53	0.77
30:B2:95:A:H2'	30:B2:96:U:H6	1.48	0.77
30:B2:30:G:N1	30:B2:49:G:N1	2.30	0.77
29:D1:195:U:H4'	29:D1:1391:C:H5	1.48	0.77
31:B3:28:C:H5'	31:B3:29:U:OP2	1.84	0.77
34:DC:154:TYR:N	34:DC:155:ALA:HB2	1.97	0.77
36:DE:42:ALA:HB1	49:DT:69:LYS:CB	2.13	0.77
29:B1:1913:A:C5	29:B1:2120:A:N7	2.52	0.77
1:A1:1784:C:H2'	1:A1:1785:U:C6	2.19	0.77
1:A1:318:U:H3	1:A1:346:G:H1	1.31	0.77
1:A1:569:C:H1'	1:A1:583:C:H5'	1.65	0.77
1:A1:108:A:H2'	1:A1:109:G:C8	2.18	0.77
34:BC:198:HIS:HA	34:BC:201:LYS:CB	2.14	0.77
1:A1:1003:A:C8	1:A1:1005:A:C5	2.71	0.77
1:A1:389:G:H2'	1:A1:390:G:C8	2.19	0.77
29:B1:190:U:C6	29:B1:224:C:O4'	2.37	0.77
29:B1:423:A:C2'	29:B1:424:G:O5'	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1636:C:H4'	1:C1:1637:C:OP2	1.83	0.77
1:C1:44:U:H3'	1:C1:45:U:H5'	1.65	0.77
29:D1:1194:G:C4	29:D1:1309:U:O2	2.37	0.77
29:D1:1211:U:H2'	29:D1:1212:A:H8	1.48	0.77
29:D1:1289:G:H2'	29:D1:1290:A:C8	2.18	0.77
29:D1:145:G:H5''	29:D1:146:U:OP2	1.84	0.77
29:D1:1478:C:H2'	29:D1:1479:U:H6	1.49	0.77
29:D1:2266:U:N3	29:D1:2267:C:N4	2.33	0.77
29:D1:2900:A:N3	29:D1:2901:G:C8	2.53	0.77
29:D1:407:A:O2'	29:D1:408:A:H5'	1.83	0.77
36:DE:28:THR:C	36:DE:30:TYR:N	2.37	0.77
1:C1:1679:G:C2	1:C1:1680:G:H1'	2.20	0.77
29:D1:2678:A:C8	29:D1:2679:A:C2	2.72	0.77
29:B1:2682:C:N3	29:B1:2683:U:C5	2.52	0.77
1:A1:1269:U:H4'	1:A1:1270:G:O5'	1.84	0.77
1:A1:1472:C:H5	1:A1:1474:G:C2	2.01	0.77
29:B1:3195:U:H2'	29:B1:3196:U:C2	2.19	0.77
29:D1:406:G:N2	31:D3:16:G:C4	2.51	0.77
30:B2:30:G:N1	30:B2:49:G:C6	2.52	0.77
29:D1:3281:U:N3	29:D1:3282:U:C4	2.53	0.77
2:AA:186:GLY:HA2	2:AA:187:ALA:CB	2.13	0.77
29:B1:126:U:O2'	29:B1:127:G:O5'	2.01	0.77
29:B1:1930:A:H4'	29:B1:1931:U:OP1	1.85	0.77
47:BR:43:PRO:O	47:BR:45:ASN:N	2.17	0.77
50:BU:129:VAL:O	50:BU:133:SER:CB	2.31	0.77
29:B1:1819:U:C6	29:B1:1820:U:H5	2.02	0.77
29:D1:2970:C:H3'	29:D1:2971:A:H5''	1.65	0.77
29:D1:605:U:C5'	29:D1:605:U:H6	1.98	0.77
47:BR:110:ALA:O	47:BR:112:ALA:N	2.18	0.77
34:DC:192:VAL:O	34:DC:195:ALA:HB3	1.84	0.77
1:A1:1149:G:O6	1:A1:1629:G:N1	2.17	0.77
1:A1:1645:G:N2	1:A1:1757:G:C4	2.52	0.77
1:A1:1764:C:H5'	1:A1:1764:C:H6	1.50	0.77
29:B1:1435:A:C8	29:B1:1437:C:C6	2.71	0.77
29:B1:1857:C:O2'	29:B1:1858:A:O4'	2.03	0.77
29:B1:2838:A:C2	29:B1:2851:A:C4	2.72	0.77
29:B1:515:C:N3	29:B1:516:A:C8	2.51	0.77
29:B1:535:G:H3'	29:B1:536:U:H5	1.50	0.77
29:B1:585:A:C3'	29:B1:586:C:H6	1.97	0.77
29:B1:3378:C:O3'	34:BC:313:HIS:HA	1.84	0.77
1:C1:167:U:H6	1:C1:167:U:C5'	1.97	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:173:A:N1	1:C1:174:U:H1'	2.00	0.77
1:C1:282:C:H2'	1:C1:283:U:H5'	1.65	0.77
1:C1:606:A:C8	1:C1:608:U:C5	2.72	0.77
29:D1:1441:G:O2'	29:D1:1442:U:H5''	1.85	0.77
29:D1:157:A:H4'	29:D1:158:G:OP1	1.84	0.77
29:D1:1794:G:O2'	29:D1:1796:G:N2	2.16	0.77
29:D1:2636:A:C5'	29:D1:2637:A:H5'	2.13	0.77
29:D1:2780:A:H2'	29:D1:2781:U:C6	2.18	0.77
29:D1:43:A:H62	29:D1:2802:A:H2	1.31	0.77
29:D1:2842:U:O2	29:D1:2842:U:H2'	1.84	0.77
29:D1:64:G:C6	29:D1:322:U:C5	2.72	0.77
29:D1:385:A:H2'	29:D1:386:A:C8	2.19	0.77
29:D1:518:G:H22	29:D1:572:A:H61	1.29	0.77
29:D1:610:G:H5''	29:D1:611:A:OP2	1.84	0.77
29:D1:698:U:H1'	29:D1:699:A:OP1	1.84	0.77
29:D1:936:A:H5''	29:D1:937:G:OP1	1.85	0.77
31:D3:95:G:P	31:D3:95:G:H21	2.07	0.77
1:A1:647:G:N1	1:A1:648:G:C6	2.52	0.77
30:D2:61:G:H2'	30:D2:62:U:H6	1.49	0.77
30:D2:9:C:H2'	30:D2:13:A:N6	1.99	0.77
1:A1:328:A:N6	1:A1:341:A:N6	2.32	0.77
1:A1:1347:U:N3	1:A1:1376:C:N4	2.32	0.77
1:A1:1590:G:H2'	1:A1:1591:C:C6	2.19	0.77
29:D1:3212:C:C4	29:D1:3213:A:C2	2.72	0.77
29:D1:3212:C:C4	29:D1:3213:A:H2	2.02	0.77
29:D1:3282:U:O2	29:D1:3283:U:C5	2.37	0.77
1:A1:417:A:O5'	1:A1:417:A:H8	1.66	0.77
29:D1:1278:A:O2'	29:D1:1279:C:H5'	1.83	0.77
29:D1:3242:G:N2	29:D1:3244:A:H8	1.81	0.77
29:B1:3273:A:OP1	29:B1:3273:A:O4'	2.01	0.77
29:B1:625:G:H8	29:B1:625:G:H5'	1.47	0.77
29:B1:1747:G:H2'	29:B1:1748:G:H5'	1.65	0.77
1:C1:214:G:O2'	1:C1:215:A:H5'	1.83	0.77
29:D1:1088:U:H2'	29:D1:1089:G:H8	1.48	0.77
29:B1:665:A:C2'	29:B1:666:A:H5'	2.14	0.77
1:A1:1100:G:C8	16:AO:76:SER:HA	2.19	0.77
29:B1:118:U:N3	29:B1:150:A:N6	2.24	0.77
29:B1:1303:A:H8	29:B1:1304:A:C4	2.03	0.77
29:B1:1550:C:C2'	29:B1:1551:C:H5'	2.15	0.77
29:B1:2165:G:N2	29:B1:2170:U:C4	2.53	0.77
29:B1:2251:G:C1'	29:B1:2252:A:OP1	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3136:G:C6	29:B1:3137:C:C5	2.71	0.77
29:B1:3377:G:N3	29:B1:3379:C:OP2	2.17	0.77
29:B1:910:G:C5	29:B1:911:C:C5	2.72	0.77
1:C1:357:G:C5	1:C1:358:U:C5	2.73	0.77
29:D1:1313:G:H2'	29:D1:1314:C:H6	1.47	0.77
29:D1:1445:U:C6	29:D1:1446:A:C8	2.72	0.77
29:D1:1501:U:O2'	29:D1:1502:C:H5'	1.85	0.77
29:D1:1939:G:O4'	29:D1:2114:C:H1'	1.83	0.77
29:D1:2704:A:OP2	74:D1:3402:OHX:N5	2.17	0.77
29:D1:2838:A:C2	29:D1:2851:A:C4	2.72	0.77
29:D1:2390:A:H4'	29:D1:3307:A:H2	1.48	0.77
29:D1:581:U:O2'	29:D1:582:G:H5'	1.84	0.77
29:D1:593:C:H3'	29:D1:594:U:O4'	1.84	0.77
29:D1:718:G:H4'	29:D1:719:U:C5'	2.14	0.77
35:DD:7:THR:N	35:DD:19:ALA:HA	2.00	0.77
1:C1:647:G:C2	1:C1:687:G:C2	2.72	0.77
1:A1:85:A:HO2'	1:A1:86:A:H8	0.82	0.77
30:D2:11:A:O4'	30:D2:13:A:H2'	1.84	0.77
30:D2:12:U:O5'	30:D2:68:C:O2'	2.02	0.77
1:C1:1613:U:H2'	1:C1:1613:U:O2	1.84	0.77
29:B1:382:U:H2'	29:B1:383:G:C4'	2.14	0.77
6:CE:122:VAL:O	6:CE:125:ALA:CB	2.30	0.77
29:D1:1269:U:H3	29:D1:1271:A:N6	1.81	0.77
1:C1:1410:A:H2'	1:C1:1411:A:O4'	1.83	0.77
29:B1:1186:G:C2'	29:B1:1187:C:H5'	2.15	0.77
29:B1:2582:C:H5'	29:B1:2583:C:OP2	1.84	0.77
1:A1:1018:U:H2'	1:A1:1019:A:H8	1.48	0.77
36:DE:126:GLU:C	36:DE:128:GLU:H	1.87	0.77
74:B1:3459:OHX:N1	74:B1:3619:OHX:N2	2.32	0.77
29:D1:2663:G:H5'	29:D1:2664:C:OP2	1.84	0.77
29:D1:67:A:C4	29:D1:317:A:C8	2.73	0.77
1:A1:1152:A:O2'	1:A1:1153:G:H5'	1.84	0.77
1:A1:44:U:H3'	1:A1:45:U:H5'	1.64	0.77
29:B1:1205:A:C6	29:B1:1206:G:N7	2.53	0.77
29:B1:13:A:H5'	29:B1:14:U:OP1	1.85	0.77
29:B1:2314:U:OP2	29:B1:2314:U:H4'	1.85	0.77
29:B1:2903:A:H2'	29:B1:2904:U:O4'	1.84	0.77
29:B1:2928:C:H2'	29:B1:2929:C:H5'	1.65	0.77
29:B1:774:G:O2'	29:B1:775:A:H5'	1.85	0.77
29:B1:882:A:C2	29:B1:885:U:C6	2.72	0.77
29:B1:515:C:H1'	37:BF:145:LEU:HA	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:943:U:OP1	54:BY:13:GLY:HA2	1.84	0.77
29:D1:10:C:N4	31:D3:148:G:N1	2.31	0.77
29:D1:1658:G:C8	29:D1:1796:G:N7	2.52	0.77
29:D1:1454:A:H5''	29:D1:1878:G:C6	2.19	0.77
29:D1:2255:A:OP1	74:D1:3415:OHX:N5	2.18	0.77
29:D1:2714:G:H4'	29:D1:2715:A:OP1	1.82	0.77
29:D1:585:A:C2'	29:D1:586:C:C6	2.67	0.77
29:D1:588:G:C5	29:D1:612:U:H5	2.03	0.77
29:D1:726:G:C5	29:D1:727:G:C2	2.73	0.77
29:D1:718:G:O6	29:D1:786:A:N7	2.18	0.77
1:A1:224:C:H2'	1:A1:225:A:C8	2.19	0.77
29:B1:2690:G:C2'	29:B1:2690:G:N3	2.45	0.77
30:B2:70:U:H2'	30:B2:71:G:H8	1.49	0.77
30:D2:64:A:H1'	30:D2:65:G:C5'	2.15	0.77
1:C1:321:C:C2'	1:C1:322:G:H5'	2.14	0.77
1:A1:1600:A:HO2'	1:A1:1602:C:H5	0.79	0.77
29:D1:3199:G:C3'	29:D1:3200:G:H8	1.97	0.77
29:D1:3203:U:H2'	29:D1:3204:C:C6	2.20	0.77
29:B1:3242:G:H1'	29:B1:3246:G:N2	2.00	0.77
29:D1:207:U:H2'	29:D1:208:C:C6	2.19	0.77
29:D1:3141:A:H5'	29:D1:3143:C:C2	2.20	0.77
30:D2:89:G:N2	30:D2:91:G:O5'	2.18	0.77
29:D1:3268:A:H1'	29:D1:3269:U:P	2.25	0.77
34:DC:198:HIS:HA	34:DC:201:LYS:CB	2.15	0.77
29:B1:1725:C:H2'	29:B1:1726:C:C6	2.20	0.77
45:DP:58:LEU:HA	45:DP:61:ALA:HB2	1.65	0.77
14:CM:28:LEU:C	14:CM:30:VAL:H	1.87	0.77
47:DR:96:PHE:HA	47:DR:97:PRO:CB	2.12	0.77
1:A1:621:A:N3	1:A1:1107:G:H1'	2.00	0.77
29:B1:1192:C:O3'	29:B1:1193:A:O4'	2.02	0.77
29:B1:287:G:H2'	29:B1:288:C:H6	1.48	0.77
29:B1:3098:G:H5''	29:B1:3099:C:OP1	1.84	0.77
29:B1:3136:G:C6	29:B1:3137:C:C4	2.72	0.77
29:B1:511:G:N2	29:B1:580:C:C2	2.44	0.77
29:B1:826:G:O2'	29:B1:1589:A:C8	2.33	0.77
34:BC:12:GLY:O	34:BC:13:HIS:C	2.23	0.77
1:C1:1013:A:H2'	1:C1:1014:G:O4'	1.83	0.77
1:C1:288:A:N3	1:C1:289:U:H5	1.82	0.77
1:C1:48:G:C6	1:C1:432:G:N2	2.53	0.77
29:D1:1108:U:H2'	29:D1:1109:U:H6	1.48	0.77
29:D1:1189:C:H4'	29:D1:1192:C:C5	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1190:A:C2	29:D1:1191:U:H6	2.02	0.77
29:D1:1196:C:H5'	29:D1:1197:A:OP2	1.85	0.77
29:D1:327:A:C2	29:D1:328:U:C5	2.72	0.77
29:D1:824:C:H2'	29:D1:825:U:C6	2.20	0.77
38:DG:84:VAL:O	38:DG:86:VAL:N	2.17	0.77
1:C1:231:U:O2	1:C1:234:G:O6	2.02	0.77
29:B1:2699:G:H8	29:B1:2699:G:C5'	1.98	0.77
30:D2:105:C:O2	30:D2:105:C:H2'	1.85	0.77
30:D2:64:A:H1'	30:D2:65:G:H5''	1.66	0.77
29:D1:2682:C:C4	29:D1:2683:U:C5	2.73	0.77
1:A1:243:G:N3	1:A1:251:A:N1	2.33	0.77
1:A1:243:G:C6	1:A1:251:A:C6	2.69	0.77
1:C1:1600:A:O2'	1:C1:1602:C:C5	2.33	0.77
1:A1:1613:U:H3	1:A1:1614:A:H8	1.28	0.77
29:B1:620:U:H4'	29:B1:621:A:OP1	1.83	0.77
29:B1:1239:C:N4	29:B1:1249:G:O6	2.13	0.77
29:D1:1278:A:O2'	29:D1:1279:C:C6	2.29	0.77
1:C1:1333:C:C2	1:C1:1419:G:N2	2.52	0.77
1:A1:1388:A:C5	1:A1:1411:A:C6	2.72	0.77
29:B1:2541:U:O2	29:B1:2541:U:H2'	1.84	0.77
21:AT:21:THR:H	21:AT:37:SER:HA	1.49	0.77
1:A1:369:A:H5'	1:A1:370:A:OP2	1.84	0.77
29:D1:2482:U:O5'	32:DA:81:GLY:HA3	1.84	0.77
1:A1:1636:C:N3	1:A1:1765:A:N6	2.33	0.77
1:A1:44:U:H5'	1:A1:45:U:C4	2.19	0.77
1:A1:527:A:OP2	1:A1:528:U:H5'	1.85	0.77
29:B1:1601:U:C5	29:B1:1604:G:C6	2.73	0.77
29:B1:2145:A:C2	29:B1:2146:C:C6	2.73	0.77
29:B1:308:A:C2	29:B1:2782:U:N3	2.52	0.77
29:B1:3079:U:O2	29:B1:3079:U:H2'	1.83	0.77
29:B1:606:C:N4	29:B1:607:A:N6	2.33	0.77
29:B1:636:C:C5	29:B1:2378:C:O4'	2.38	0.77
29:B1:649:A:C2	29:B1:650:C:C5	2.73	0.77
1:C1:264:G:C3'	1:C1:265:A:H5'	2.15	0.77
1:C1:396:G:H2'	1:C1:397:A:O5'	1.85	0.77
29:D1:1435:A:H5'	29:D1:1436:U:C5'	2.15	0.77
29:D1:1902:G:OP2	29:D1:2919:A:OP1	2.01	0.77
29:D1:3365:U:H2'	29:D1:3366:G:C8	2.20	0.77
29:D1:744:A:C6	29:D1:745:C:N3	2.53	0.77
38:DG:69:ALA:HB1	38:DG:75:TYR:N	1.99	0.77
1:C1:224:C:H2'	1:C1:225:A:H8	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1274:C:H6	1:C1:1427:A:N6	1.81	0.77
1:C1:1570:A:C2	1:C1:1571:C:H1'	2.20	0.77
46:BQ:9:THR:HA	46:BQ:14:SER:H	1.50	0.77
29:D1:625:G:H2'	29:D1:626:U:C6	2.19	0.77
29:D1:3218:A:H3'	29:D1:3220:G:OP2	1.85	0.77
29:D1:2174:G:OP1	29:D1:2174:G:H8	1.66	0.77
29:B1:2540:A:H2'	29:B1:2541:U:H6	1.50	0.77
39:DH:99:PRO:C	39:DH:101:THR:H	1.88	0.77
29:D1:250:U:H2'	29:D1:250:U:O2	1.84	0.77
29:B1:1724:U:O2'	29:B1:1725:C:O4'	2.02	0.77
1:A1:1626:U:H2'	1:A1:1627:U:H5'	1.64	0.77
1:A1:1632:C:O2'	1:A1:1633:A:H8	1.67	0.77
1:A1:380:U:H2'	1:A1:381:C:H6	1.47	0.77
29:B1:153:U:C4'	29:B1:158:G:H21	1.98	0.77
29:B1:2271:A:H2'	29:B1:2272:G:C5'	2.11	0.77
29:B1:549:U:H2'	29:B1:550:A:H8	1.49	0.77
29:B1:504:A:C2	29:B1:587:U:N3	2.46	0.77
29:B1:960:U:H2'	29:B1:961:C:O4'	1.83	0.77
44:BO:85:THR:HA	44:BO:86:ASN:CB	2.14	0.77
1:C1:10:G:C8	1:C1:1633:A:C2	2.73	0.77
1:C1:169:A:C5	1:C1:171:A:C5	2.72	0.77
1:C1:272:U:H4'	1:C1:273:G:OP2	1.85	0.77
29:D1:1154:A:H5'	29:D1:1155:C:C5	2.20	0.77
29:D1:1205:A:C6	29:D1:1206:G:N7	2.53	0.77
29:D1:1303:A:C2	29:D1:2887:A:C2	2.71	0.77
29:D1:1940:G:H2'	29:D1:1941:C:O4'	1.84	0.77
29:D1:679:U:H2'	29:D1:680:G:C8	2.20	0.77
37:DF:152:THR:HA	37:DF:156:LYS:N	2.00	0.77
37:DF:43:LEU:H	37:DF:84:VAL:CB	1.96	0.77
1:C1:224:C:H2'	1:C1:225:A:C8	2.20	0.77
1:C1:847:A:H2'	1:C1:848:C:H5''	1.67	0.77
31:B3:67:U:H3'	31:B3:68:G:H8	1.50	0.77
1:C1:1685:G:H22	1:C1:1718:G:H21	1.31	0.77
1:C1:1719:A:H5'	1:C1:1720:G:OP2	1.85	0.77
1:C1:1237:G:H2'	1:C1:1238:A:H8	1.49	0.77
1:C1:1274:C:C6	1:C1:1427:A:N7	2.53	0.77
1:A1:1193:A:H4'	1:A1:1194:A:OP2	1.83	0.77
1:A1:1491:U:H3'	1:A1:1492:A:H2'	1.67	0.77
30:B2:91:G:C4	30:B2:92:A:N7	2.53	0.77
29:B1:3219:G:OP1	29:B1:3220:G:H5''	1.85	0.77
74:D3:202:OHX:N5	74:D3:212:OHX:N3	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2514:U:H4'	29:B1:2515:A:OP1	1.83	0.77
44:DO:39:ALA:N	44:DO:62:TYR:HA	1.99	0.77
29:B1:2880:U:C2'	29:B1:2881:C:H5'	2.14	0.77
34:BC:299:ASP:HA	34:BC:302:LYS:O	1.85	0.77
29:B1:3271:G:N3	29:B1:3271:G:H2'	1.99	0.77
46:BQ:128:ARG:HA	46:BQ:138:LYS:HA	1.67	0.77
43:DN:9:ALA:O	43:DN:21:VAL:HA	1.84	0.77
54:DY:131:SER:O	54:DY:133:LEU:N	2.18	0.77
40:BI:86:TYR:CB	40:BI:87:LYS:HA	2.14	0.77
29:B1:293:C:N3	29:B1:294:U:O2	2.17	0.77
1:A1:1631:A:C1'	1:A1:1764:C:O2	2.33	0.77
1:A1:1773:C:C2	1:A1:1789:G:C2	2.73	0.77
1:A1:380:U:O2	1:A1:380:U:H2'	1.83	0.77
29:B1:1128:U:H2'	29:B1:1128:U:O2	1.85	0.77
29:B1:20:A:O2'	29:B1:21:G:O5'	2.02	0.77
29:B1:264:G:C5	29:B1:265:A:N6	2.52	0.77
29:B1:3121:U:H4'	29:B1:3122:A:OP1	1.85	0.77
29:B1:405:U:C5	29:B1:406:G:C4	2.72	0.77
29:B1:501:A:C6	29:B1:502:U:C4	2.73	0.77
29:B1:775:A:H2'	29:B1:776:U:C4'	2.15	0.77
29:D1:1103:A:O2'	29:D1:1104:G:OP2	2.02	0.77
29:D1:153:U:C4'	29:D1:158:G:H21	1.98	0.77
29:D1:1792:C:O3'	29:D1:1793:C:H3'	1.85	0.77
29:D1:2223:A:O2'	29:D1:2224:A:C8	2.29	0.77
29:D1:2359:C:H2'	29:D1:2360:C:H6	1.50	0.77
29:D1:2690:G:O2'	29:D1:2691:A:OP1	2.03	0.77
29:D1:2776:C:H5'	29:D1:2777:G:H5''	1.65	0.77
29:D1:284:A:H62	29:D1:2785:A:C4'	1.98	0.77
29:D1:3302:U:O2'	29:D1:3303:G:O4'	2.01	0.77
29:D1:511:G:N2	29:D1:579:G:N1	2.32	0.77
29:D1:636:C:H5	29:D1:2378:C:O4'	1.67	0.77
29:D1:893:C:H5''	29:D1:894:G:OP1	1.84	0.77
29:D1:910:G:C5	29:D1:911:C:C5	2.72	0.77
38:DG:66:LYS:O	38:DG:69:ALA:HB3	1.84	0.77
1:A1:231:U:O2	1:A1:234:G:O6	2.03	0.77
30:D2:111:U:O3'	30:D2:112:G:O3'	2.03	0.77
1:A1:749:U:H2'	1:A1:750:U:C6	2.20	0.77
1:C1:1346:A:H2	15:CN:13:GLU:O	1.67	0.77
1:A1:1356:U:H2'	1:A1:1357:A:H8	1.50	0.77
29:B1:620:U:OP2	29:B1:620:U:H6	1.66	0.77
29:B1:2215:A:C2	29:B1:2216:G:C8	2.73	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1753:A:N1	1:C1:1754:A:N1	2.33	0.77
1:C1:914:G:H5''	74:C1:1927:OHX:N4	2.00	0.77
29:D1:1817:G:H2'	29:D1:1818:U:C6	2.19	0.77
29:B1:1914:G:H3'	29:B1:1915:A:H8	1.50	0.77
1:A1:530:C:H2'	1:A1:531:C:C6	2.20	0.77
29:B1:1856:C:C2'	29:B1:1857:C:H5'	2.15	0.77
29:B1:2253:G:C6	29:B1:2254:U:C2	2.73	0.77
29:B1:2716:U:H2'	29:B1:2716:U:O2	1.85	0.77
29:B1:3327:G:C2	29:B1:3379:C:C2	2.72	0.77
29:B1:3316:A:N1	29:B1:3388:C:N4	2.33	0.77
29:B1:585:A:C2'	29:B1:586:C:C6	2.68	0.77
29:B1:719:U:O2'	29:B1:720:A:C8	2.38	0.77
29:B1:742:G:H2'	29:B1:743:C:H5''	1.65	0.77
29:B1:64:G:H1'	29:B1:77:A:N3	2.00	0.77
1:C1:131:C:H2'	1:C1:131:C:O2	1.84	0.77
1:C1:143:G:C6	1:C1:172:C:N4	2.52	0.77
1:C1:427:C:C6	1:C1:427:C:C5'	2.66	0.77
29:D1:1194:G:C4'	29:D1:1320:C:OP1	2.32	0.77
29:D1:1464:G:H21	29:D1:1466:G:H3'	1.50	0.77
29:D1:1539:A:C2'	29:D1:1540:U:H5'	2.15	0.77
29:D1:1613:A:H2'	29:D1:1614:C:C6	2.19	0.77
29:D1:1798:A:C2	29:D1:1799:A:C4	2.72	0.77
29:D1:2665:U:O2	29:D1:2706:G:C2	2.37	0.77
29:D1:3111:U:C2'	29:D1:3112:G:H5'	2.14	0.77
29:D1:3135:U:C5	29:D1:3136:G:N7	2.52	0.77
29:D1:3361:G:H2'	29:D1:3362:A:H5'	1.67	0.77
29:D1:942:U:OP1	29:D1:1434:G:N7	2.18	0.77
31:D3:144:G:C2'	31:D3:145:U:H5'	2.15	0.77
31:D3:78:G:C6	31:D3:79:A:N6	2.52	0.77
31:D3:75:G:OP1	31:D3:90:U:C5'	2.32	0.77
29:D1:520:U:H3	37:DF:138:GLN:CB	1.98	0.77
1:A1:223:U:H3	1:A1:838:G:H1	1.33	0.77
1:A1:224:C:H2'	1:A1:225:A:H8	1.48	0.77
1:A1:457:G:C2'	1:A1:458:G:H5'	2.15	0.77
1:A1:1552:U:H2'	1:A1:1552:U:O2	1.84	0.77
29:B1:3277:U:C2'	29:B1:3278:C:H5'	2.15	0.77
29:D1:3215:A:H5''	29:D1:3218:A:OP1	1.85	0.77
29:D1:1240:A:H5'	72:DL:97:ASN:HA	1.65	0.77
29:D1:3242:G:H1'	29:D1:3246:G:N2	1.98	0.77
1:A1:356:G:C6	1:A1:357:G:N7	2.53	0.77
29:B1:2885:C:O2'	29:B1:2886:U:H5'	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:979:A:H2	1:C1:1775:U:H4'	1.47	0.77
29:B1:1543:G:C2	29:B1:1544:G:C8	2.73	0.77
42:DK:134:PRO:C	42:DK:151:SER:O	2.23	0.77
11:CJ:46:PHE:C	11:CJ:48:VAL:H	1.87	0.77
29:B1:1471:U:O2'	29:B1:1472:U:H5'	1.83	0.77
29:B1:2337:C:O2'	29:B1:2338:C:H5'	1.84	0.77
21:CT:5:GLU:HA	21:CT:316:MET:O	1.84	0.77
1:A1:1149:G:H4'	1:A1:1150:G:OP1	1.83	0.76
29:B1:1156:C:H3'	29:B1:1157:G:C5'	2.14	0.76
29:B1:155:G:C4	29:B1:156:G:H2'	2.19	0.76
29:B1:155:G:H2'	29:B1:155:G:OP1	1.84	0.76
29:B1:2148:U:C4'	29:B1:2149:A:OP1	2.29	0.76
29:B1:2743:A:H3'	29:B1:2744:U:H6	1.49	0.76
29:B1:2834:G:C4	29:B1:2835:U:C5	2.74	0.76
29:B1:2999:U:H2'	29:B1:3000:A:C8	2.20	0.76
29:B1:3099:C:HO2'	29:B1:3100:U:H6	0.77	0.76
29:B1:3328:G:H1	29:B1:3375:A:H62	1.32	0.76
29:B1:398:A:H2	29:B1:1415:U:H5''	1.50	0.76
29:B1:674:G:H2'	29:B1:675:C:H6	1.49	0.76
29:B1:677:A:H4'	29:B1:678:G:O5'	1.84	0.76
1:C1:313:U:C5	1:C1:1118:G:N1	2.54	0.76
1:C1:621:A:N3	1:C1:1107:G:H1'	2.00	0.76
29:D1:1159:A:H2'	29:D1:1159:A:N3	2.00	0.76
29:D1:1193:A:N7	29:D1:1194:G:C2	2.53	0.76
29:D1:1201:C:H2'	29:D1:1202:A:H5'	1.68	0.76
29:D1:2148:U:H2'	29:D1:2149:A:C5	2.20	0.76
29:D1:2253:G:C6	29:D1:2254:U:C2	2.73	0.76
29:D1:2608:G:H2'	29:D1:2609:A:C8	2.19	0.76
29:D1:1901:A:OP2	29:D1:2919:A:OP1	2.02	0.76
29:D1:3291:G:H2'	29:D1:3292:A:C8	2.20	0.76
29:D1:3386:G:H2'	29:D1:3387:U:C6	2.20	0.76
29:D1:515:C:N3	29:D1:516:A:C8	2.53	0.76
29:B1:2688:U:O3'	29:B1:2689:A:C8	2.39	0.76
29:B1:2665:U:O2	29:B1:2706:G:C2	2.38	0.76
30:D2:67:G:N1	30:D2:68:C:C2	2.53	0.76
1:A1:1584:G:C2	1:A1:1585:U:OP1	2.38	0.76
29:D1:3314:A:H2'	34:DC:119:TYR:CA	2.15	0.76
1:A1:1338:C:C2	1:A1:1410:A:C2	2.73	0.76
36:BE:257:GLU:CA	36:BE:259:LYS:H	1.99	0.76
29:B1:1741:A:H3'	29:B1:1742:U:C6	2.20	0.76
34:DC:159:ARG:O	34:DC:160:VAL:CB	2.32	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1914:G:H5''	29:B1:1915:A:OP2	1.85	0.76
41:BJ:181:TYR:O	41:BJ:184:LYS:N	2.16	0.76
31:D3:59:A:H4'	31:D3:60:U:H5''	1.68	0.76
3:AB:239:PRO:C	3:AB:241:ASP:H	1.86	0.76
37:DF:61:ASN:HA	37:DF:80:ASN:O	1.86	0.76
20:AS:23:VAL:O	74:AS:101:OHX:N5	2.18	0.76
29:D1:2885:C:O2'	29:D1:2886:U:H5'	1.83	0.76
1:C1:879:G:O2'	1:C1:880:C:H5'	1.85	0.76
1:A1:1150:G:C2	1:A1:1151:A:H1'	2.20	0.76
1:A1:28:A:H2'	1:A1:29:U:H6	1.49	0.76
29:B1:1201:C:H2'	29:B1:1202:A:H5'	1.66	0.76
29:B1:1658:G:C8	29:B1:1796:G:N7	2.54	0.76
29:B1:2253:G:H3'	29:B1:2254:U:C6	2.20	0.76
29:B1:2269:U:O2	29:B1:2269:U:H2'	1.84	0.76
29:B1:2255:A:N7	74:B1:3438:OHX:N6	2.33	0.76
29:B1:557:A:H3'	29:B1:557:A:C8	2.20	0.76
29:B1:606:C:C2'	29:B1:607:A:H1'	2.10	0.76
29:B1:888:A:C6	29:B1:889:U:N3	2.54	0.76
38:BG:69:ALA:CB	38:BG:75:TYR:H	1.98	0.76
37:BF:6:ALA:HA	38:BG:75:TYR:HA	1.66	0.76
1:C1:989:U:H2'	1:C1:990:C:H6	1.45	0.76
29:D1:1192:C:O3'	29:D1:1193:A:O4'	2.03	0.76
29:D1:153:U:H4'	29:D1:158:G:N2	2.01	0.76
29:D1:2279:A:H4'	29:D1:2280:A:H5'	1.65	0.76
29:D1:2727:A:C2	29:D1:2729:U:H5	2.03	0.76
29:D1:2903:A:H2'	29:D1:2904:U:O4'	1.85	0.76
29:D1:423:A:C2'	29:D1:424:G:O5'	2.33	0.76
1:A1:647:G:C2	1:A1:648:G:C6	2.73	0.76
30:B2:64:A:N1	30:B2:111:U:C4	2.53	0.76
29:B1:2675:C:H5	29:B1:2676:A:C6	2.04	0.76
1:C1:1374:C:H3'	1:C1:1375:A:C8	2.20	0.76
30:D2:41:G:N3	30:D2:41:G:H2'	1.98	0.76
1:A1:1647:U:H2'	1:A1:1648:A:H8	1.49	0.76
29:D1:2102:U:H2'	29:D1:2103:U:C6	2.20	0.76
29:D1:1072:G:H2'	29:D1:1073:U:C6	2.20	0.76
29:B1:821:U:O2'	29:B1:822:G:H5'	1.85	0.76
29:B1:1339:C:H2'	29:B1:1340:G:C8	2.20	0.76
29:D1:1750:A:O3'	29:D1:1751:G:H8	1.67	0.76
17:CP:48:HIS:HA	17:CP:105:ALA:HB2	1.67	0.76
44:BO:159:ARG:C	44:BO:161:ALA:H	1.87	0.76
21:CT:21:THR:H	21:CT:37:SER:HA	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1435:A:H8	29:B1:1437:C:C6	2.03	0.76
29:B1:155:G:P	29:B1:155:G:H8	2.08	0.76
29:B1:2829:U:H2'	29:B1:2830:G:H5'	1.67	0.76
29:B1:430:U:H2'	29:B1:431:U:H5'	1.66	0.76
29:B1:679:U:H2'	29:B1:680:G:H8	1.49	0.76
29:B1:796:U:H2'	29:B1:797:U:C6	2.21	0.76
1:C1:27:U:C2	1:C1:28:A:C8	2.73	0.76
1:C1:515:A:OP2	74:C1:1933:OHX:N6	2.19	0.76
1:C1:85:A:O2'	1:C1:86:A:H8	1.69	0.76
29:D1:1453:A:N9	29:D1:1850:A:H2	1.83	0.76
29:D1:2877:G:H2'	29:D1:2878:G:O4'	1.84	0.76
29:D1:3302:U:C3'	29:D1:3303:G:H5''	2.16	0.76
29:D1:504:A:C3'	29:D1:504:A:C8	2.67	0.76
31:D3:92:A:H2'	31:D3:93:U:H5'	1.66	0.76
30:B2:10:C:O3'	30:B2:13:A:C8	2.38	0.76
1:A1:283:U:H3'	1:A1:284:G:C5'	2.16	0.76
1:C1:1237:G:H2'	1:C1:1238:A:C8	2.19	0.76
1:C1:1351:G:H2'	1:C1:1352:G:O4'	1.85	0.76
1:C1:1466:G:C6	1:C1:1467:C:N4	2.54	0.76
1:C1:1474:G:H2'	1:C1:1475:A:C8	2.20	0.76
1:A1:1351:G:C5	1:A1:1352:G:N7	2.53	0.76
29:B1:1265:U:H2'	29:B1:1266:G:H8	1.50	0.76
29:D1:2520:A:H2'	29:D1:2521:U:C2	2.20	0.76
1:C1:1338:C:C2	1:C1:1410:A:C2	2.73	0.76
29:D1:126:U:O2'	29:D1:127:G:O5'	2.03	0.76
29:D1:1679:A:C2	29:D1:1680:G:N7	2.53	0.76
29:D1:3074:G:O2'	29:D1:3075:G:H5'	1.83	0.76
30:D2:91:G:C4	30:D2:92:A:N7	2.53	0.76
29:D1:2120:A:HO2'	29:D1:2121:G:P	2.08	0.76
1:A1:778:G:N2	1:A1:783:G:C5	2.53	0.76
43:BN:9:ALA:O	43:BN:21:VAL:HA	1.85	0.76
29:B1:2467:G:H21	29:B1:2488:A:H62	1.31	0.76
15:CN:66:SER:HA	15:CN:81:THR:HA	1.67	0.76
29:D1:2467:G:H21	29:D1:2488:A:H62	1.30	0.76
10:AI:36:LEU:HA	10:AI:37:ALA:HB3	1.67	0.76
51:DV:45:ASN:O	51:DV:47:ARG:N	2.17	0.76
1:A1:1631:A:C6	1:A1:1636:C:C5	2.73	0.76
1:A1:855:A:O2'	1:A1:856:A:H5'	1.85	0.76
29:B1:157:A:H2'	29:B1:158:G:C5	2.19	0.76
29:B1:187:A:H1'	29:B1:211:A:N6	2.00	0.76
29:B1:284:A:C2	29:B1:306:A:C1'	2.55	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2858:U:H2'	29:B1:2859:U:C5	2.20	0.76
29:B1:3013:U:C5'	29:B1:3013:U:C6	2.68	0.76
29:B1:3297:U:C2	29:B1:3298:C:C5	2.73	0.76
29:B1:3394:U:H2'	29:B1:3395:G:N7	1.99	0.76
29:B1:716:A:OP2	29:B1:716:A:C4	2.38	0.76
37:BF:161:ALA:O	37:BF:165:LEU:CB	2.33	0.76
1:C1:973:A:H2'	1:C1:974:A:C8	2.19	0.76
29:D1:1166:G:C2'	29:D1:1167:U:H5''	2.15	0.76
29:D1:11:A:H1'	29:D1:1557:A:N6	2.00	0.76
29:D1:1448:U:C5	29:D1:2355:G:C2	2.73	0.76
29:D1:2357:A:N1	29:D1:2983:C:H5	1.83	0.76
29:D1:2727:A:OP2	49:DT:80:VAL:O	2.03	0.76
29:D1:3089:C:H3'	29:D1:3090:U:H5''	1.67	0.76
29:D1:725:G:C2'	29:D1:726:G:H5''	2.15	0.76
29:D1:880:G:N9	29:D1:882:A:N7	2.32	0.76
31:D3:104:A:H5'	31:D3:105:A:O5'	1.86	0.76
31:D3:152:G:C2	31:D3:153:U:H1'	2.20	0.76
31:D3:76:C:C4'	31:D3:77:A:OP1	2.34	0.76
1:C1:217:A:H1'	1:C1:218:A:H5'	1.67	0.76
29:B1:996:A:H2'	29:B1:997:A:O4'	1.85	0.76
1:C1:1347:U:H3	1:C1:1376:C:N4	1.83	0.76
1:A1:1196:A:H4'	1:A1:1197:C:C5'	2.16	0.76
1:A1:1347:U:H3	1:A1:1376:C:N4	1.84	0.76
1:A1:1348:A:N3	1:A1:1378:U:C6	2.52	0.76
29:B1:620:U:C6	29:B1:620:U:OP2	2.38	0.76
29:B1:1462:A:H2'	29:B1:1463:U:C6	2.21	0.76
1:C1:1650:U:C3'	1:C1:1651:A:H8	1.99	0.76
29:D1:1079:A:C6	29:D1:1080:A:C6	2.74	0.76
1:C1:410:A:H2	1:C1:423:G:H22	1.33	0.76
10:AI:77:ARG:HA	10:AI:95:GLY:H	1.50	0.76
36:DE:257:GLU:CA	36:DE:259:LYS:H	1.98	0.76
6:AE:55:ALA:O	6:AE:58:ASP:N	2.18	0.76
29:D1:709:A:H8	29:D1:709:A:OP1	1.69	0.76
34:BC:230:THR:O	34:BC:234:GLY:HA2	1.86	0.76
1:A1:396:G:N2	1:A1:398:G:H3'	2.01	0.76
29:B1:3000:A:H2'	29:B1:3001:C:H6	1.49	0.76
29:B1:607:A:C8	29:B1:607:A:OP2	2.38	0.76
29:B1:698:U:H1'	29:B1:699:A:OP1	1.85	0.76
31:B3:152:G:C2	31:B3:153:U:H1'	2.20	0.76
1:C1:284:G:H4'	1:C1:285:G:OP1	1.85	0.76
1:C1:76:A:H1'	1:C1:77:U:C5	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3367:C:O2'	29:D1:3368:U:H5''	1.86	0.76
29:D1:956:U:H1'	29:D1:2729:U:O4	1.84	0.76
38:DG:68:ASP:O	38:DG:71:ALA:HB3	1.85	0.76
29:B1:2725:U:C4	29:B1:2727:A:C2	2.72	0.76
1:A1:61:A:N3	1:A1:61:A:H2'	1.99	0.76
30:D2:68:C:H2'	30:D2:69:C:O4'	1.85	0.76
45:DP:124:LEU:HA	45:DP:125:ARG:C	2.06	0.76
1:A1:750:U:O2'	1:A1:751:G:H5'	1.85	0.76
1:C1:1592:A:H2'	1:C1:1593:A:C8	2.20	0.76
1:C1:1382:A:C5'	15:CN:59:PRO:HA	2.15	0.76
29:B1:1228:C:H2'	29:B1:1229:G:O4'	1.86	0.76
30:B2:23:A:C3'	30:B2:24:A:H8	1.99	0.76
30:D2:42:A:H2	30:D2:47:C:C4	2.03	0.76
35:BD:148:ILE:HA	35:BD:149:PRO:C	2.06	0.76
44:DO:78:GLY:CA	44:DO:79:ALA:HB2	2.16	0.76
5:AD:59:VAL:C	5:AD:61:TYR:H	1.89	0.76
37:BF:124:GLU:O	37:BF:126:GLN:N	2.15	0.76
29:D1:1047:A:H61	29:D1:2646:C:H1'	1.48	0.76
5:AD:141:GLY:HA2	5:AD:171:ALA:HB2	1.67	0.76
29:B1:3049:A:N3	34:BC:75:ALA:HB2	2.00	0.76
34:DC:165:GLN:O	34:DC:166:ILE:O	2.03	0.76
3:AB:133:LYS:O	3:AB:135:SER:N	2.18	0.76
1:A1:1091:A:H4'	1:A1:1092:A:O5'	1.82	0.76
1:A1:445:A:H2'	1:A1:446:A:H8	1.50	0.76
1:A1:757:A:C4	1:A1:758:U:C6	2.73	0.76
29:B1:1154:A:H5'	29:B1:1155:C:C5	2.20	0.76
29:B1:1939:G:C2'	29:B1:1940:G:H5'	2.15	0.76
29:B1:2147:A:C8	29:B1:2147:A:C5'	2.67	0.76
29:B1:3328:G:N2	29:B1:3375:A:N7	2.34	0.76
1:C1:1047:G:O6	1:C1:1071:U:O4	2.04	0.76
1:C1:1099:U:C6	1:C1:1100:G:C6	2.74	0.76
1:C1:1763:A:H3'	1:C1:1764:C:H5''	1.67	0.76
1:C1:274:G:H2'	1:C1:275:C:C6	2.20	0.76
1:C1:528:U:H4'	1:C1:529:A:O4'	1.85	0.76
1:C1:84:A:C2'	1:C1:85:A:H5'	2.11	0.76
29:D1:1898:G:N7	29:D1:1899:G:N7	2.34	0.76
29:D1:2689:A:C2	29:D1:2702:A:H2	2.02	0.76
29:D1:3377:G:N3	74:D1:3452:OHX:N2	2.34	0.76
29:D1:33:G:N2	29:D1:50:U:C4	2.54	0.76
29:D1:775:A:H2'	29:D1:776:U:C4'	2.15	0.76
74:D3:204:OHX:N5	74:D3:209:OHX:N1	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DF:136:GLU:C	37:DF:138:GLN:H	1.85	0.76
1:C1:646:C:C3'	1:C1:647:G:H5''	2.16	0.76
30:B2:68:C:O2	30:B2:69:C:C1'	2.33	0.76
29:B1:2633:U:O4	49:BT:3:LYS:N	2.19	0.76
29:B1:2676:A:H2	29:B1:2680:A:C6	2.03	0.76
1:C1:1348:A:H2'	1:C1:1349:G:H5''	1.68	0.76
1:A1:1158:C:H42	1:A1:1163:A:H61	1.33	0.76
29:B1:3257:C:O2'	29:B1:3258:U:C5	2.39	0.76
29:D1:405:U:C5	29:D1:406:G:C5	2.73	0.76
29:D1:405:U:C5	29:D1:406:G:C4	2.73	0.76
30:B2:44:C:C4	30:B2:45:A:N7	2.54	0.76
29:B1:1716:U:H3'	29:B1:1717:U:C5'	2.15	0.76
29:D1:2834:G:N3	29:D1:2835:U:C6	2.54	0.76
29:B1:2888:U:N3	29:B1:2910:A:C2	2.54	0.76
29:D1:605:U:H5''	29:D1:605:U:H6	1.50	0.76
29:D1:2182:A:O2'	29:D1:2183:A:H5'	1.86	0.76
2:AA:130:ALA:C	2:AA:132:ALA:H	1.89	0.76
47:DR:68:ALA:O	47:DR:71:LEU:O	2.03	0.76
29:B1:2450:G:H2'	29:B1:2451:G:H5'	1.65	0.76
1:A1:1092:A:O2'	1:A1:1093:A:H3'	1.86	0.76
29:B1:65:A:H3'	29:B1:111:C:H41	1.48	0.76
29:B1:1198:C:C6	29:B1:1200:A:C8	2.73	0.76
29:B1:1412:G:C4	29:B1:1413:G:C8	2.74	0.76
29:B1:1504:A:H3'	29:B1:1505:C:C5'	2.16	0.76
29:B1:1560:G:OP2	29:B1:1560:G:H3'	1.85	0.76
29:B1:2743:A:C5	29:B1:2744:U:C4	2.74	0.76
29:B1:2912:G:C5	29:B1:2913:C:N3	2.53	0.76
29:B1:2985:C:H2'	29:B1:2986:U:C6	2.20	0.76
29:B1:3328:G:H1	29:B1:3375:A:N6	1.84	0.76
29:B1:591:G:N2	29:B1:592:A:N9	2.34	0.76
29:B1:740:G:C6	29:B1:741:U:H5	2.03	0.76
29:B1:893:C:H5''	29:B1:894:G:OP1	1.86	0.76
1:C1:292:U:H2'	1:C1:293:U:C6	2.20	0.76
1:C1:43:A:C2'	1:C1:44:U:H5''	2.14	0.76
1:C1:986:G:C2'	1:C1:987:G:H8	1.99	0.76
29:D1:1180:A:C2	29:D1:1182:A:C4	2.73	0.76
29:D1:2895:G:O2'	29:D1:2896:A:H5''	1.84	0.76
29:D1:523:A:C2'	29:D1:524:U:H5'	2.15	0.76
29:D1:564:G:P	29:D1:565:U:OP1	2.43	0.76
29:D1:576:C:C2'	29:D1:577:C:C5'	2.55	0.76
1:A1:707:A:H2'	1:A1:731:C:H42	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:825:U:C5	1:C1:847:A:C6	2.64	0.76
30:D2:73:C:H42	30:D2:74:C:N4	1.84	0.76
1:C1:1720:G:H2'	1:C1:1721:A:O4'	1.86	0.76
30:B2:88:G:C5	30:B2:89:G:N7	2.53	0.76
29:D1:3383:G:C2	29:D1:3384:U:C4	2.74	0.76
29:B1:125:C:H2'	29:B1:126:U:H5'	1.67	0.76
36:DE:96:ALA:O	36:DE:100:ALA:N	2.18	0.76
29:B1:1949:G:H2'	29:B1:1950:U:C6	2.20	0.76
29:D1:2560:C:H6	29:D1:2560:C:O5'	1.69	0.76
29:D1:3180:A:H8	45:DP:114:LYS:CB	1.99	0.76
29:D1:661:G:C4	29:D1:802:C:O4'	2.38	0.76
46:BQ:99:ALA:O	46:BQ:102:ALA:HB3	1.86	0.76
29:D1:2966:G:O2'	29:D1:2967:A:H5'	1.85	0.76
44:BO:160:GLU:O	44:BO:161:ALA:HB2	1.86	0.76
47:BR:68:ALA:O	47:BR:71:LEU:O	2.02	0.76
29:D1:1705:U:O2'	29:D1:1706:C:O4'	2.03	0.76
29:D1:1357:G:H2'	29:D1:1358:C:C6	2.20	0.76
2:CA:145:ALA:O	2:CA:160:ILE:HA	1.85	0.76
29:B1:1303:A:O4'	29:B1:1303:A:N3	2.17	0.76
29:B1:2148:U:H2'	29:B1:2149:A:C5	2.21	0.76
29:B1:287:G:O2'	29:B1:288:C:H5'	1.85	0.76
29:B1:3110:C:C2	29:B1:3111:U:C6	2.73	0.76
29:B1:3333:G:N2	29:B1:3370:A:H4'	2.00	0.76
29:B1:559:A:C4	29:B1:560:G:N7	2.54	0.76
29:D1:1158:A:O2'	29:D1:1330:A:H2	1.66	0.76
29:D1:1303:A:H8	29:D1:1304:A:C4	2.02	0.76
29:D1:1794:G:H4'	29:D1:1795:U:OP2	1.84	0.76
29:D1:1875:G:C3'	29:D1:1876:U:H5''	2.15	0.76
29:D1:3392:U:H2'	29:D1:3393:U:C6	2.21	0.76
74:D1:3446:OHX:N6	74:D1:3574:OHX:N4	2.34	0.76
29:D1:674:G:H2'	29:D1:675:C:C6	2.21	0.76
1:A1:847:A:H2'	1:A1:848:C:H5'	1.68	0.76
29:B1:1047:A:H61	29:B1:2646:C:H1'	1.49	0.76
29:B1:2667:A:N6	29:B1:2690:G:C2	2.52	0.76
29:B1:2727:A:C2	29:B1:2729:U:H5	2.03	0.76
1:C1:1686:C:H2'	1:C1:1687:U:C6	2.21	0.76
29:D1:3209:A:C6	29:D1:3210:A:C6	2.74	0.76
30:B2:46:A:C5	30:B2:46:A:OP2	2.39	0.76
29:D1:3221:C:N3	29:D1:3222:U:C5	2.54	0.76
1:A1:1281:G:C4	1:A1:1282:U:C5	2.74	0.76
1:C1:1651:A:N3	1:C1:1652:C:C6	2.54	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1327:C:C2'	1:A1:1328:G:H5'	2.16	0.76
6:CE:62:ARG:N	6:CE:63:ASP:CB	2.49	0.76
1:C1:410:A:C2	1:C1:411:C:C2	2.73	0.76
36:BE:238:ASP:O	36:BE:240:TYR:N	2.18	0.76
1:C1:804:A:H2'	1:C1:805:U:H6	1.49	0.76
42:DK:101:ASN:O	42:DK:103:GLY:N	2.19	0.76
42:BK:135:GLY:HA2	42:BK:151:SER:CB	2.15	0.76
6:AE:142:ASN:O	6:AE:144:PRO:N	2.19	0.76
1:A1:1109:G:H2'	1:A1:1110:G:C5'	2.16	0.76
1:A1:298:C:H6	1:A1:298:C:H3'	1.51	0.76
29:B1:1103:A:O2'	29:B1:1104:G:OP2	2.02	0.76
29:B1:1366:A:C2	29:B1:1367:G:C4	2.74	0.76
29:B1:2390:A:H4'	29:B1:3307:A:H2	1.51	0.76
29:B1:2918:G:C2	29:B1:2919:A:C8	2.74	0.76
29:B1:2955:U:H2'	29:B1:2956:A:H8	1.50	0.76
29:B1:762:U:H5	74:B1:3479:OHX:N3	1.83	0.76
29:B1:46:U:C2'	29:B1:47:C:H5'	2.16	0.76
29:B1:540:U:H2'	29:B1:541:U:C6	2.20	0.76
29:B1:597:G:C4	29:B1:598:A:C8	2.74	0.76
29:B1:660:A:N1	29:B1:1435:A:C2	2.54	0.76
29:B1:680:G:H2'	29:B1:681:U:C6	2.20	0.76
29:B1:775:A:C2'	29:B1:776:U:C4'	2.64	0.76
1:C1:606:A:C5	1:C1:608:U:H5	2.04	0.76
29:D1:1139:G:H5'	29:D1:1139:G:C8	2.21	0.76
29:D1:13:A:H5'	29:D1:14:U:OP1	1.85	0.76
29:D1:3098:G:H5''	29:D1:3099:C:OP1	1.85	0.76
29:D1:66:A:H62	29:D1:76:G:H21	1.34	0.76
44:DO:84:PRO:HA	74:DO:301:OHX:N6	2.01	0.76
44:DO:83:LYS:H	44:DO:85:THR:N	1.84	0.76
1:C1:647:G:C2	1:C1:648:G:C6	2.74	0.76
1:A1:167:U:C5'	1:A1:167:U:H6	1.98	0.76
1:A1:61:A:C4'	1:A1:62:A:O5'	2.29	0.76
1:A1:1675:C:H1'	1:A1:1677:C:N3	2.00	0.76
1:C1:1197:C:H2'	1:C1:1197:C:O2	1.85	0.76
1:A1:1238:A:H2'	1:A1:1239:U:H5'	1.67	0.76
1:A1:1351:G:H2'	1:A1:1352:G:O4'	1.85	0.76
1:A1:1557:U:O5'	1:A1:1560:U:O4	2.04	0.76
1:A1:1613:U:H2'	1:A1:1613:U:O2	1.84	0.76
29:B1:3198:U:C2'	29:B1:3199:G:C8	2.69	0.76
29:D1:3234:A:H2	29:D1:3253:G:H22	1.34	0.76
9:AH:100:ALA:O	9:AH:104:ALA:CB	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:983:A:H2'	1:A1:984:G:H8	1.47	0.76
29:B1:1804:A:H2'	29:B1:1805:C:C6	2.21	0.76
74:B1:3459:OHX:N5	74:B1:3619:OHX:N6	2.34	0.76
50:BU:17:LEU:CB	50:BU:52:ALA:HB3	2.16	0.76
45:DP:194:LEU:O	45:DP:198:GLY:N	2.19	0.76
74:D1:3442:OHX:N3	74:D1:3592:OHX:N2	2.34	0.76
14:CM:55:TYR:O	14:CM:58:ALA:HB3	1.86	0.76
21:AT:91:LEU:CB	21:AT:101:GLN:O	2.34	0.76
1:A1:1138:A:O2'	1:A1:1139:A:H5'	1.86	0.76
1:A1:1791:A:O2'	1:A1:1793:G:H5'	1.86	0.76
1:A1:439:U:H1'	1:A1:440:U:OP1	1.84	0.76
29:B1:943:U:O2	29:B1:1431:G:H2'	1.86	0.76
29:B1:1504:A:C5	29:B1:1505:C:C5	2.74	0.76
29:B1:2369:G:H2'	29:B1:2370:G:C8	2.19	0.76
29:B1:660:A:C2	29:B1:1435:A:C2	2.74	0.76
33:BB:78:ALA:O	33:BB:80:GLU:N	2.19	0.76
1:C1:1099:U:O2'	1:C1:1100:G:N9	2.18	0.76
1:C1:36:C:H2'	1:C1:37:U:C6	2.21	0.76
1:C1:396:G:N2	1:C1:398:G:H3'	1.99	0.76
1:C1:400:A:C4'	1:C1:401:A:H5'	2.16	0.76
1:C1:757:A:C5	1:C1:758:U:C5	2.74	0.76
29:D1:2326:A:H2'	29:D1:2326:A:N3	2.01	0.76
29:D1:2727:A:N1	29:D1:2728:G:C6	2.53	0.76
29:D1:588:G:C2	29:D1:612:U:C5	2.74	0.76
29:D1:807:A:H3'	29:D1:808:A:H5''	1.66	0.76
31:D3:71:A:C4'	31:D3:72:A:OP1	2.34	0.76
1:A1:222:A:OP2	1:A1:833:U:H1'	1.85	0.76
31:B3:81:U:H3'	31:B3:82:U:C5'	2.16	0.76
29:D1:2676:A:C2	29:D1:2680:A:C6	2.74	0.76
1:C1:1467:C:H2'	1:C1:1468:U:C6	2.20	0.76
1:C1:1515:A:H2'	1:C1:1516:A:C4'	2.16	0.76
29:D1:3191:G:C6	29:D1:3202:G:N1	2.54	0.76
30:D2:23:A:H3'	30:D2:24:A:C8	2.20	0.76
30:D2:25:G:N3	30:D2:26:C:C4	2.54	0.76
74:D3:202:OHX:N5	74:D3:212:OHX:N5	2.34	0.76
30:B2:31:U:C6	30:B2:32:U:H5	2.03	0.76
29:D1:1647:A:N1	29:D1:1809:A:H1'	2.01	0.76
1:C1:1650:U:H3'	1:C1:1651:A:H8	1.51	0.76
1:A1:1754:A:O2'	1:A1:1755:A:P	2.44	0.76
1:A1:179:A:O2'	1:A1:180:A:H5'	1.84	0.76
36:DE:109:THR:O	36:DE:252:ALA:HB2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1579:U:H2'	1:C1:1580:C:C6	2.21	0.76
34:BC:60:LEU:O	34:BC:62:ARG:N	2.17	0.76
74:B1:3459:OHX:N1	74:B1:3619:OHX:N6	2.34	0.76
42:DK:135:GLY:HA2	42:DK:151:SER:CB	2.16	0.76
1:C1:804:A:H2'	1:C1:805:U:C6	2.21	0.76
74:D1:3442:OHX:N6	74:D1:3592:OHX:N2	2.34	0.76
20:AS:42:CYS:O	20:AS:44:ARG:N	2.17	0.76
40:DI:42:ASP:O	40:DI:43:VAL:CB	2.34	0.76
29:B1:1394:A:C8	29:B1:1395:G:C8	2.74	0.75
29:B1:1875:G:C3'	29:B1:1876:U:H5''	2.17	0.75
29:B1:210:U:O4	35:BD:161:LYS:HA	1.85	0.75
29:B1:2257:C:H3'	29:B1:2258:U:H6	1.52	0.75
29:B1:3117:C:C2'	29:B1:3118:C:H5'	2.15	0.75
29:B1:1170:A:OP2	74:B1:3537:OHX:N3	2.18	0.75
29:B1:501:A:N6	29:B1:502:U:C4	2.54	0.75
1:C1:524:U:O2	1:C1:524:U:H3'	1.86	0.75
29:D1:2194:G:C2'	29:D1:2195:C:H5'	2.15	0.75
29:D1:2643:A:H3'	29:D1:2644:C:H5''	1.68	0.75
29:D1:2993:G:H2'	29:D1:2993:G:N3	2.01	0.75
29:D1:851:C:H2'	29:D1:852:U:C6	2.21	0.75
29:B1:2763:U:O4	29:B1:2794:G:N1	2.15	0.75
30:D2:70:U:H2'	30:D2:71:G:H8	1.51	0.75
1:C1:1183:A:H2'	1:C1:1210:C:O2'	1.86	0.75
1:C1:1497:U:C2	1:C1:1498:G:C8	2.74	0.75
1:A1:1235:C:H2'	1:A1:1236:A:H8	1.49	0.75
1:A1:1364:G:C3'	1:A1:1365:C:H5'	2.16	0.75
37:BF:40:LEU:HA	37:BF:85:ILE:CB	2.16	0.75
30:B2:25:G:N3	30:B2:26:C:C4	2.54	0.75
1:C1:1775:U:O2'	1:C1:1776:A:H5'	1.86	0.75
29:B1:3179:U:O2'	29:B1:3180:A:P	2.44	0.75
29:D1:661:G:C6	29:D1:802:C:C6	2.74	0.75
35:BD:115:HIS:O	35:BD:117:GLU:N	2.20	0.75
1:A1:1099:U:C4'	1:A1:1099:U:OP1	2.35	0.75
1:A1:364:G:N2	1:A1:381:C:C6	2.54	0.75
1:A1:629:U:C2'	1:A1:630:A:H8	1.94	0.75
29:B1:152:U:H2'	29:B1:153:U:H6	1.49	0.75
29:B1:3047:U:O2'	29:B1:3048:A:C5'	2.29	0.75
29:B1:3320:A:H3'	29:B1:3320:A:OP2	1.86	0.75
29:B1:712:G:H21	29:B1:753:C:P	2.09	0.75
1:C1:1043:A:H2'	1:C1:1044:U:C5	2.21	0.75
1:C1:192:U:H2'	1:C1:193:U:O4'	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:527:A:OP2	1:C1:528:U:H5'	1.86	0.75
1:C1:544:A:C2	1:C1:545:A:H8	2.03	0.75
1:C1:625:C:O2'	1:C1:939:A:N3	2.17	0.75
1:C1:862:A:C4	1:C1:963:A:N6	2.54	0.75
3:CB:162:CYS:H	3:CB:209:ASN:CB	1.99	0.75
29:D1:113:C:C2'	29:D1:114:A:H5'	2.16	0.75
29:D1:1794:G:N1	33:DB:185:ALA:HB1	2.00	0.75
29:D1:323:A:H5'	29:D1:324:A:OP2	1.85	0.75
29:D1:537:A:N7	29:D1:556:U:O4	2.18	0.75
29:D1:882:A:C2	29:D1:885:U:C6	2.74	0.75
29:B1:2703:A:H61	36:BE:26:GLY:HA2	1.51	0.75
1:C1:110:U:H3'	1:C1:111:U:H5''	1.68	0.75
1:C1:304:U:H2'	1:C1:304:U:O2	1.84	0.75
1:C1:1524:A:C2'	1:C1:1525:A:C8	2.63	0.75
1:A1:1552:U:H5'	1:A1:1553:G:OP2	1.86	0.75
29:B1:1196:C:C5	29:B1:1197:A:C5	2.74	0.75
6:AE:122:VAL:O	6:AE:125:ALA:CB	2.32	0.75
30:D2:42:A:C4	30:D2:45:A:N6	2.55	0.75
36:BE:103:LEU:O	36:BE:106:ALA:O	2.03	0.75
29:D1:2215:A:N3	29:D1:2215:A:H2'	2.00	0.75
29:D1:2431:C:H2'	29:D1:2432:A:H8	1.51	0.75
29:D1:1716:U:H3'	29:D1:1717:U:C5'	2.15	0.75
1:C1:772:G:C5	1:C1:773:C:N3	2.54	0.75
34:BC:294:GLY:HA2	34:BC:295:ALA:C	2.04	0.75
29:D1:1042:U:C6	29:D1:1042:U:OP2	2.39	0.75
29:B1:2561:A:H2'	29:B1:2562:A:H8	1.52	0.75
10:CI:36:LEU:HA	10:CI:37:ALA:HB3	1.67	0.75
52:BW:57:LEU:CB	52:BW:58:ASP:CB	2.64	0.75
1:A1:1631:A:N3	1:A1:1638:G:N2	2.28	0.75
1:A1:524:U:H3'	1:A1:524:U:O2	1.87	0.75
29:B1:1388:U:O4	29:B1:1389:G:O6	2.03	0.75
29:B1:1495:U:H2'	29:B1:1842:A:C2	2.21	0.75
29:B1:2150:G:H2'	29:B1:2151:C:C5'	2.14	0.75
29:B1:2278:C:N4	29:B1:2305:G:C8	2.55	0.75
29:B1:2277:C:C5'	29:B1:2317:A:H4'	2.16	0.75
29:B1:3039:C:C2	29:B1:3040:A:C8	2.75	0.75
29:B1:3090:U:OP1	29:B1:3090:U:H4'	1.87	0.75
29:B1:31:C:H2'	29:B1:32:U:H5'	1.66	0.75
29:B1:773:G:C2'	29:B1:774:G:C8	2.70	0.75
1:C1:380:U:C2'	1:C1:381:C:H6	1.98	0.75
1:C1:446:A:C5	1:C1:447:U:C5	2.74	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1779:C:C4'	29:D1:1780:G:H5''	2.12	0.75
29:D1:2251:G:C1'	29:D1:2252:A:OP1	2.34	0.75
29:D1:2383:C:H2'	29:D1:2384:A:H8	1.49	0.75
29:D1:2393:G:N1	29:D1:2982:A:H2	1.82	0.75
29:D1:3024:A:C2'	29:D1:3024:A:N3	2.48	0.75
29:D1:536:U:OP2	29:D1:536:U:C6	2.38	0.75
1:A1:646:C:C3'	1:A1:647:G:H5''	2.15	0.75
29:D1:2673:A:H61	29:D1:2681:U:H3	1.34	0.75
29:B1:2676:A:O2'	29:B1:2677:G:H5''	1.85	0.75
29:B1:2673:A:HO2'	42:BK:107:ASP:HA	1.48	0.75
1:A1:336:G:C2'	1:A1:337:G:H5''	2.17	0.75
1:A1:1540:G:C2'	1:A1:1541:G:H5'	2.17	0.75
29:B1:1268:G:C5	29:B1:1269:U:H1'	2.21	0.75
1:A1:1650:U:H3'	1:A1:1651:A:C8	2.21	0.75
7:AF:122:ILE:N	7:AF:144:ALA:HB3	2.00	0.75
34:DC:62:ARG:O	34:DC:64:GLY:N	2.18	0.75
17:AP:135:LEU:HA	17:AP:139:LYS:HA	1.68	0.75
29:B1:736:A:H2'	29:B1:737:G:H8	1.49	0.75
46:DQ:98:ALA:O	46:DQ:99:ALA:C	2.25	0.75
35:BD:193:LYS:O	35:BD:195:ARG:N	2.19	0.75
1:A1:402:C:N4	1:A1:424:C:OP2	2.20	0.75
1:A1:963:A:O2'	1:A1:964:U:H6	1.69	0.75
29:B1:1681:U:O2	29:B1:1681:U:H2'	1.86	0.75
29:B1:3116:G:O2'	29:B1:3117:C:H5'	1.86	0.75
29:B1:3378:C:O2	29:B1:3378:C:H2'	1.85	0.75
29:B1:498:A:H2'	29:B1:499:G:C8	2.21	0.75
29:B1:556:U:H2'	29:B1:557:A:O4'	1.85	0.75
29:B1:564:G:OP1	29:B1:564:G:O3'	2.05	0.75
29:B1:836:A:C2	29:B1:858:A:H1'	2.22	0.75
31:B3:107:G:H2'	31:B3:108:C:H5'	1.67	0.75
29:D1:2420:C:C4	29:D1:2421:U:C5	2.75	0.75
29:D1:288:C:H2'	29:D1:289:A:C8	2.20	0.75
29:D1:1901:A:O3'	29:D1:2918:G:H5'	1.87	0.75
29:D1:2923:U:C2	29:D1:2924:U:H5	2.04	0.75
29:D1:3099:C:O2'	29:D1:3100:U:P	2.44	0.75
29:D1:3136:G:C6	29:D1:3137:C:C4	2.74	0.75
29:D1:517:G:H2'	29:D1:518:G:C1'	2.17	0.75
29:D1:86:G:N2	29:D1:98:G:H2'	2.01	0.75
31:B3:64:U:H2'	31:B3:64:U:O2	1.86	0.75
1:A1:131:C:O2	1:A1:131:C:H2'	1.86	0.75
29:D1:2680:A:H3'	29:D1:2681:U:H5'	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2678:A:H8	29:B1:2679:A:C2	2.04	0.75
1:C1:1364:G:C3'	1:C1:1365:C:H5'	2.16	0.75
1:C1:1540:G:C2'	1:C1:1541:G:H5'	2.17	0.75
1:A1:1560:U:O2	1:A1:1560:U:C2'	2.35	0.75
29:D1:3198:U:H3'	29:D1:3199:G:C8	2.21	0.75
29:D1:1229:G:H2'	29:D1:1230:G:H8	1.51	0.75
29:D1:1268:G:H5'	29:D1:1269:U:OP2	1.87	0.75
29:D1:3353:G:N3	29:D1:3353:G:H2'	2.00	0.75
29:D1:3314:A:C8	34:DC:119:TYR:HA	2.21	0.75
1:C1:1326:A:O2'	1:C1:1327:C:H5'	1.87	0.75
29:B1:1817:G:H2'	29:B1:1818:U:C6	2.21	0.75
29:D1:2546:C:H5''	29:D1:2547:A:OP2	1.86	0.75
45:BP:17:GLY:O	45:BP:20:ALA:HB3	1.86	0.75
29:D1:2792:A:O5'	29:D1:2792:A:H8	1.69	0.75
1:A1:407:A:H2'	1:A1:408:C:C6	2.21	0.75
29:B1:1139:G:H8	29:B1:1139:G:H5''	1.49	0.75
29:B1:1159:A:N3	29:B1:1159:A:H2'	1.98	0.75
29:B1:2309:A:N3	29:B1:2962:U:H5'	2.02	0.75
29:B1:2812:C:H2'	29:B1:2813:A:C8	2.20	0.75
29:B1:3316:A:N1	29:B1:3388:C:N3	2.34	0.75
74:B1:3492:OHX:N5	54:BY:19:LYS:O	2.19	0.75
29:D1:2289:U:C2	29:D1:2290:C:C5	2.74	0.75
29:D1:23:A:N3	29:D1:23:A:H2'	1.99	0.75
29:D1:3360:C:O2	29:D1:3360:C:H2'	1.86	0.75
29:D1:596:C:O2	29:D1:597:G:C5'	2.33	0.75
29:D1:740:G:C6	29:D1:741:U:C5	2.74	0.75
29:D1:826:G:C4	29:D1:827:A:C8	2.74	0.75
29:D1:963:G:C8	29:D1:963:G:H5'	2.19	0.75
31:D3:106:C:H4'	31:D3:107:G:O5'	1.86	0.75
30:D2:77:G:O2'	30:D2:78:U:P	2.44	0.75
29:B1:2681:U:OP2	42:BK:51:ARG:O	2.04	0.75
1:A1:1678:A:H2	1:A1:1725:U:N3	1.85	0.75
1:C1:1382:A:H5'	15:CN:59:PRO:HA	1.68	0.75
1:C1:1455:G:C5	1:C1:1456:C:N3	2.54	0.75
1:A1:1562:G:H2'	1:A1:1563:C:H6	1.48	0.75
29:B1:385:A:H2'	29:B1:386:A:C8	2.22	0.75
29:D1:3280:U:H6	29:D1:3280:U:OP2	1.68	0.75
29:D1:2520:A:C2	29:D1:2521:U:N3	2.53	0.75
29:B1:2431:C:H2'	29:B1:2432:A:H8	1.49	0.75
29:B1:1079:A:C6	29:B1:1080:A:N6	2.55	0.75
1:C1:1651:A:C2	1:C1:1652:C:C6	2.74	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DE:273:ARG:C	36:DE:275:THR:H	1.90	0.75
36:DE:141:PRO:CB	36:DE:142:PHE:CA	2.63	0.75
39:BH:99:PRO:C	39:BH:101:THR:H	1.89	0.75
17:CP:132:LEU:N	17:CP:133:LEU:CA	2.49	0.75
43:BN:47:ASP:CB	43:BN:54:PRO:O	2.34	0.75
29:B1:2573:G:H2'	29:B1:2574:G:O4'	1.87	0.75
1:C1:929:A:H5''	1:C1:930:A:OP2	1.85	0.75
41:DJ:181:TYR:O	41:DJ:184:LYS:N	2.18	0.75
47:DR:18:ALA:HA	47:DR:53:PHE:CB	2.17	0.75
1:A1:1065:A:H2'	1:A1:1066:C:C6	2.21	0.75
1:A1:1632:C:O2'	1:A1:1633:A:OP1	2.03	0.75
29:B1:420:G:N3	29:B1:2384:A:H2'	2.02	0.75
1:C1:1148:C:N3	1:C1:1149:G:O6	2.20	0.75
1:C1:318:U:H3	1:C1:346:G:H1	1.35	0.75
1:C1:609:U:H5''	1:C1:610:G:N7	2.02	0.75
29:D1:1164:G:H2'	29:D1:1165:A:C8	2.21	0.75
29:D1:1167:U:H5'	29:D1:1167:U:C6	2.21	0.75
29:D1:1341:U:H2'	29:D1:1342:C:H6	1.50	0.75
29:D1:2145:A:C2	29:D1:2146:C:C6	2.75	0.75
29:D1:2253:G:H3'	29:D1:2254:U:C6	2.22	0.75
29:D1:2702:A:C8	29:D1:2704:A:N6	2.55	0.75
29:D1:2829:U:H2'	29:D1:2830:G:H5'	1.69	0.75
29:D1:2888:U:C5	29:D1:2910:A:C6	2.75	0.75
29:D1:3136:G:C6	29:D1:3137:C:C5	2.74	0.75
29:D1:353:G:O2'	29:D1:364:G:O6	2.04	0.75
29:D1:705:A:C6	29:D1:715:A:N7	2.54	0.75
29:D1:361:A:C2	29:D1:928:C:O4'	2.39	0.75
31:D3:128:U:H5''	31:D3:129:C:C5	2.18	0.75
74:D1:3543:OHX:N6	38:DG:217:PRO:O	2.20	0.75
30:B2:59:U:H2'	30:B2:60:G:C8	2.21	0.75
1:C1:1349:G:H4'	1:C1:1350:U:H5'	1.69	0.75
1:C1:1492:A:H4'	1:C1:1493:A:OP1	1.86	0.75
29:B1:3210:A:C6	29:B1:3211:C:N4	2.54	0.75
29:B1:2553:U:H1'	29:B1:2554:A:H5'	1.69	0.75
36:DE:159:VAL:C	36:DE:161:GLY:H	1.90	0.75
1:C1:1221:A:H2'	1:C1:1222:C:H6	1.49	0.75
54:DY:80:THR:C	54:DY:82:ILE:H	1.89	0.75
29:B1:1492:G:H3'	29:B1:1493:G:N2	2.02	0.75
29:B1:1157:G:H5'	29:B1:1157:G:C8	2.21	0.75
29:B1:1504:A:C4	29:B1:1505:C:C5	2.74	0.75
29:B1:1679:A:C2	29:B1:1680:G:N7	2.55	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2185:G:C6	29:B1:2186:U:C4	2.74	0.75
29:B1:420:G:C2	29:B1:2384:A:C4	2.74	0.75
29:B1:2775:U:O2'	29:B1:2776:C:O5'	2.04	0.75
29:B1:595:G:C2	29:B1:610:G:OP1	2.39	0.75
29:B1:945:C:H5''	29:B1:946:U:OP2	1.87	0.75
37:BF:156:LYS:O	37:BF:159:LEU:N	2.20	0.75
1:C1:1150:G:C2	1:C1:1151:A:H1'	2.21	0.75
1:C1:402:C:O2	1:C1:403:G:C4'	2.35	0.75
29:D1:1103:A:O2'	29:D1:1104:G:P	2.43	0.75
29:D1:1288:U:H5''	29:D1:1288:U:C6	2.22	0.75
29:D1:627:U:H4'	29:D1:1399:A:H1'	1.69	0.75
29:D1:594:U:C2	29:D1:595:G:C5	2.75	0.75
31:D3:107:G:H2'	31:D3:108:C:H5'	1.69	0.75
31:D3:91:C:H2'	31:D3:92:A:C8	2.22	0.75
30:B2:12:U:O5'	30:B2:68:C:O2'	2.03	0.75
1:C1:1675:C:H1'	1:C1:1677:C:N3	2.02	0.75
1:C1:250:C:N3	1:C1:251:A:C5	2.55	0.75
1:A1:1237:G:H2'	1:A1:1238:A:C8	2.21	0.75
30:D2:25:G:N2	30:D2:26:C:C2	2.54	0.75
29:B1:3026:G:N2	29:B1:3030:G:C5	2.55	0.75
29:D1:1390:A:C5	29:D1:1418:A:C5	2.74	0.75
29:D1:218:G:H1'	29:D1:372:A:H1'	1.68	0.75
29:B1:1245:A:H4'	29:B1:1246:G:O5'	1.87	0.75
15:CN:68:ARG:CA	15:CN:79:TRP:HA	2.07	0.75
29:D1:73:C:OP2	29:D1:74:G:O5'	2.05	0.75
30:B2:116:C:H2'	30:B2:117:A:C8	2.22	0.75
29:D1:3271:G:H2'	29:D1:3271:G:N3	2.02	0.75
5:CD:141:GLY:HA2	5:CD:171:ALA:HB2	1.69	0.75
1:C1:764:U:H3	1:C1:772:G:H1	1.32	0.75
29:B1:1912:U:O2'	29:B1:1913:A:O5'	2.04	0.75
29:D1:2603:G:H3'	29:D1:2604:U:H6	1.50	0.75
29:B1:244:G:H2'	29:B1:245:U:H5''	1.67	0.75
34:BC:164:THR:CB	34:BC:177:HIS:H	1.99	0.75
29:B1:2652:U:H2'	29:B1:2653:C:C6	2.22	0.75
36:DE:118:THR:HA	36:DE:121:GLY:O	1.86	0.75
29:D1:2554:A:N1	33:DB:86:GLN:HA	2.01	0.75
34:BC:142:ALA:O	34:BC:144:ILE:N	2.19	0.75
1:A1:518:A:H61	1:A1:535:A:H1'	1.51	0.75
1:A1:530:C:H5''	1:A1:531:C:OP2	1.87	0.75
29:B1:1193:A:N7	29:B1:1194:G:C2	2.54	0.75
29:B1:3320:A:C6	29:B1:3321:C:N4	2.55	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:515:C:C3'	29:B1:516:A:C5'	2.63	0.75
29:B1:609:G:C5	29:B1:610:G:C6	2.75	0.75
1:C1:162:A:H2'	1:C1:163:G:C8	2.21	0.75
1:C1:170:U:OP2	1:C1:267:U:O2'	2.04	0.75
1:C1:16:G:C2	1:C1:17:C:C4	2.74	0.75
1:C1:29:U:O2'	1:C1:30:G:H5'	1.86	0.75
1:C1:362:G:O6	1:C1:382:C:N4	2.16	0.75
29:D1:1459:C:C2'	29:D1:1460:A:H5'	2.16	0.75
29:D1:157:A:H2'	29:D1:158:G:C5	2.21	0.75
29:D1:2147:A:C5'	29:D1:2147:A:H8	2.00	0.75
29:D1:420:G:C2	29:D1:2384:A:C4	2.74	0.75
29:D1:2640:A:H2'	29:D1:2641:U:C6	2.19	0.75
29:D1:25:U:O2'	29:D1:26:A:H5'	1.87	0.75
74:D1:3408:OHX:N2	74:D1:3582:OHX:N3	2.35	0.75
29:D1:542:G:H1	29:D1:549:U:H3	1.35	0.75
29:D1:751:A:N3	29:D1:751:A:H2'	2.02	0.75
29:D1:888:A:C6	29:D1:889:U:N3	2.55	0.75
1:A1:733:A:H4'	1:A1:734:A:N7	2.02	0.75
30:B2:98:C:H5'	30:B2:99:G:OP2	1.85	0.75
1:A1:282:C:H2'	1:A1:283:U:H5'	1.67	0.75
1:C1:108:A:H2'	1:C1:109:G:C8	2.21	0.75
1:C1:1174:C:H2'	1:C1:1175:U:C6	2.21	0.75
1:C1:1487:A:H2'	1:C1:1488:G:H8	1.50	0.75
1:C1:1562:G:H2'	1:C1:1563:C:H6	1.52	0.75
1:C1:1620:C:H2'	1:C1:1620:C:O2	1.86	0.75
1:A1:1456:C:H5''	1:A1:1457:C:C5'	2.16	0.75
29:B1:3214:U:O3'	29:B1:3218:A:C5'	2.35	0.75
29:B1:3027:A:C2'	29:B1:3028:G:C8	2.68	0.75
30:B2:22:A:H2'	30:B2:23:A:C8	2.21	0.75
30:D2:44:C:C4	30:D2:45:A:N7	2.53	0.75
29:D1:1246:G:C6	29:D1:1264:G:N2	2.55	0.75
29:B1:349:A:C2	31:B3:24:G:C4	2.75	0.75
29:B1:1624:G:N2	29:B1:1822:C:C4	2.55	0.75
29:D1:125:C:H2'	29:D1:126:U:H5'	1.69	0.75
1:C1:179:A:O2'	1:C1:180:A:H5'	1.86	0.75
29:B1:1042:U:H2'	29:B1:1043:C:H6	1.51	0.75
29:D1:2540:A:H2'	29:D1:2541:U:H6	1.52	0.75
29:B1:250:U:O2	29:B1:250:U:H2'	1.85	0.75
36:BE:126:GLU:C	36:BE:128:GLU:H	1.87	0.75
29:B1:2746:A:H2	36:BE:146:LEU:CB	2.00	0.75
29:D1:244:G:H2'	29:D1:245:U:H5''	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3249:C:O2	29:D1:3249:C:H2'	1.87	0.75
1:A1:1032:G:N2	1:A1:1033:C:C2	2.55	0.75
1:A1:1044:U:O2	1:A1:1044:U:H2'	1.85	0.75
1:A1:1046:G:C5	1:A1:1073:G:N2	2.54	0.75
1:A1:361:C:N4	1:A1:384:G:N1	2.35	0.75
1:A1:977:A:C6	1:A1:1025:A:C4	2.75	0.75
29:B1:1177:G:H8	29:B1:1177:G:O5'	1.68	0.75
29:B1:13:A:H61	31:B3:144:G:H1	1.35	0.75
29:B1:1940:G:H2'	29:B1:1941:C:O4'	1.87	0.75
29:B1:2249:G:H2'	29:B1:2250:G:C1'	2.17	0.75
29:B1:2370:G:C4	29:B1:2371:G:C8	2.75	0.75
29:B1:871:U:H2'	29:B1:872:U:H6	1.49	0.75
29:B1:963:G:C8	29:B1:963:G:H5'	2.17	0.75
44:BO:85:THR:HA	44:BO:87:GLN:H	1.49	0.75
1:C1:149:C:C3'	1:C1:150:U:H6	1.99	0.75
1:C1:10:G:N7	1:C1:1633:A:C2	2.55	0.75
1:C1:283:U:O3'	1:C1:284:G:H4'	1.87	0.75
1:C1:72:A:C6	1:C1:82:U:O2	2.40	0.75
29:D1:1196:C:H5	29:D1:1197:A:C6	2.05	0.75
29:D1:1303:A:N1	29:D1:2887:A:C6	2.55	0.75
29:D1:1378:U:H2'	29:D1:1379:G:H8	1.51	0.75
29:D1:2277:C:C5'	29:D1:2317:A:H4'	2.13	0.75
29:D1:2407:C:C2	29:D1:2408:U:C5	2.75	0.75
29:D1:2904:U:H3'	29:D1:2904:U:O2	1.87	0.75
31:D3:105:A:H4'	31:D3:106:C:C5	2.22	0.75
1:C1:647:G:N1	1:C1:648:G:C6	2.54	0.75
30:B2:12:U:OP2	30:B2:68:C:H4'	1.87	0.75
1:A1:149:C:H3'	1:A1:150:U:C6	2.21	0.75
1:A1:174:U:H2'	1:A1:174:U:O2	1.87	0.75
1:C1:1171:A:H2'	1:C1:1172:G:C8	2.22	0.75
1:C1:1356:U:H2'	1:C1:1357:A:H8	1.51	0.75
1:A1:1570:A:H3'	1:A1:1571:C:H6	1.52	0.75
29:D1:3198:U:C2'	29:D1:3199:G:C8	2.69	0.75
30:B2:33:U:O2	30:B2:33:U:H2'	1.87	0.75
29:D1:186:U:H2'	29:D1:186:U:O2	1.87	0.75
29:D1:3260:G:H2'	29:D1:3260:G:N3	2.02	0.75
30:B2:24:A:H2'	30:B2:25:G:H8	1.51	0.75
1:A1:1219:A:C5'	1:A1:1220:C:H5	1.96	0.75
36:DE:103:LEU:N	36:DE:166:ALA:HA	2.01	0.75
29:D1:1714:A:H1'	29:D1:1731:A:N6	2.01	0.75
1:A1:806:A:C2'	1:A1:807:A:H5''	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:146:LEU:HA	2:CA:160:ILE:HA	1.68	0.75
2:CA:130:ALA:C	2:CA:132:ALA:H	1.90	0.75
33:DB:209:HIS:O	33:DB:210:PRO:O	2.04	0.75
29:B1:1380:G:N3	29:B1:1380:G:H2'	2.01	0.74
29:B1:155:G:H8	29:B1:155:G:OP2	1.69	0.74
29:B1:2182:A:O2'	29:B1:2183:A:H5'	1.85	0.74
29:B1:2222:A:N6	29:B1:2783:U:H5'	2.02	0.74
29:B1:2358:A:H2'	29:B1:2359:C:O4'	1.87	0.74
29:B1:3140:G:C8	29:B1:3140:G:H5''	2.19	0.74
29:B1:609:G:C4'	29:B1:610:G:OP1	2.35	0.74
29:B1:750:G:C2'	29:B1:751:A:H8	1.97	0.74
31:B3:142:C:O2	31:B3:142:C:H2'	1.86	0.74
54:BY:28:HIS:O	54:BY:30:GLY:N	2.20	0.74
1:C1:273:G:C8	1:C1:273:G:OP1	2.40	0.74
1:C1:407:A:H2'	1:C1:408:C:C6	2.21	0.74
29:D1:1856:C:O2'	29:D1:1857:C:H5'	1.87	0.74
29:D1:3079:U:O2	29:D1:3079:U:H2'	1.87	0.74
29:D1:3113:A:C2	29:D1:3122:A:C5	2.74	0.74
29:D1:512:U:N3	29:D1:579:G:N1	2.34	0.74
29:D1:593:C:O2	29:D1:594:U:H4'	1.87	0.74
29:D1:60:A:H2'	29:D1:61:A:H5'	1.67	0.74
29:D1:659:G:C2'	29:D1:660:A:C8	2.69	0.74
1:C1:847:A:H2'	1:C1:848:C:H5'	1.68	0.74
1:C1:321:C:O2'	1:C1:322:G:H5'	1.87	0.74
1:A1:1274:C:OP2	1:A1:1428:G:O5'	2.05	0.74
15:AN:12:GLN:O	15:AN:14:GLN:N	2.20	0.74
1:A1:1382:A:H5'	15:AN:59:PRO:HA	1.68	0.74
29:B1:73:C:OP2	29:B1:74:G:O5'	2.04	0.74
29:D1:2232:A:H2'	29:D1:2233:A:O4'	1.87	0.74
29:B1:985:U:H2'	29:B1:986:U:C6	2.21	0.74
29:B1:988:U:H2'	29:B1:989:A:H8	1.52	0.74
29:D1:2580:A:H1'	29:D1:2581:U:OP2	1.86	0.74
29:D1:1741:A:H3'	29:D1:1742:U:C6	2.21	0.74
1:A1:1084:A:O2'	1:A1:1085:G:H5'	1.85	0.74
31:D3:34:U:H2'	31:D3:34:U:O2	1.86	0.74
1:A1:380:U:C2'	1:A1:381:C:H6	2.00	0.74
1:A1:542:A:O2'	1:A1:543:C:H3'	1.87	0.74
29:B1:2327:U:O2	29:B1:2327:U:H2'	1.86	0.74
29:B1:2420:C:C2'	29:B1:2421:U:H5'	2.17	0.74
29:B1:2928:C:C2'	29:B1:2929:C:H5'	2.15	0.74
29:B1:3096:C:H2'	29:B1:3097:C:C6	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3127:A:H3'	29:B1:3128:G:C8	2.20	0.74
29:B1:392:G:C6	29:B1:393:U:H5	2.05	0.74
29:B1:542:G:H1	29:B1:549:U:H3	1.33	0.74
29:B1:880:G:C8	29:B1:882:A:N7	2.54	0.74
1:C1:150:U:H2'	1:C1:150:U:O2	1.87	0.74
1:C1:169:A:C4	1:C1:171:A:N7	2.55	0.74
1:C1:380:U:HO2'	1:C1:381:C:H6	1.35	0.74
1:C1:446:A:C4	1:C1:447:U:C5	2.75	0.74
29:D1:2900:A:C2	29:D1:2901:G:N7	2.55	0.74
29:D1:3090:U:O2'	29:D1:3091:A:P	2.45	0.74
29:D1:3111:U:H2'	29:D1:3112:G:H5'	1.69	0.74
29:D1:3321:C:HO2'	29:D1:3322:A:H8	0.80	0.74
29:B1:2667:A:H3'	29:B1:2667:A:C4	2.21	0.74
29:B1:2676:A:H2	29:B1:2680:A:N1	1.85	0.74
1:C1:1201:G:C4	1:C1:1202:A:O4'	2.39	0.74
1:C1:1586:A:C5	1:C1:1611:A:C2	2.75	0.74
1:A1:1377:U:H2'	1:A1:1378:U:C4'	2.15	0.74
29:D1:3191:G:C2	29:D1:3202:G:C2	2.75	0.74
30:D2:23:A:H2'	30:D2:24:A:C8	2.21	0.74
29:B1:3024:A:C2'	29:B1:3024:A:N3	2.50	0.74
29:D1:3214:U:O3'	29:D1:3218:A:C5'	2.36	0.74
1:C1:1334:U:C2	1:C1:1335:U:C6	2.74	0.74
1:C1:1402:G:C4	1:C1:1403:C:C5	2.75	0.74
30:B2:2:G:H2'	30:B2:3:U:C6	2.22	0.74
29:B1:1037:C:HO2'	29:B1:1038:C:H6	1.35	0.74
29:B1:173:G:O6	29:B1:245:U:C2	2.40	0.74
21:AT:5:GLU:HA	21:AT:316:MET:O	1.86	0.74
1:A1:1068:C:H2'	1:A1:1069:A:H8	1.51	0.74
1:A1:1137:A:H2	1:A1:1138:A:C5	2.05	0.74
29:B1:1482:A:C4'	29:B1:1483:G:OP2	2.31	0.74
29:B1:1558:A:OP1	29:B1:1559:A:C1'	2.34	0.74
29:B1:3073:A:H2'	29:B1:3074:G:O5'	1.87	0.74
29:B1:3303:G:C1'	29:B1:3304:U:H5'	2.17	0.74
29:B1:3386:G:H8	29:B1:3386:G:O5'	1.69	0.74
29:B1:423:A:H2'	29:B1:424:G:H8	1.51	0.74
29:B1:693:A:H2'	29:B1:694:C:C6	2.21	0.74
29:B1:86:G:N2	29:B1:98:G:H2'	2.02	0.74
1:C1:1138:A:C2	1:C1:1139:A:C5	2.75	0.74
1:C1:811:A:O2'	1:C1:858:G:H8	1.70	0.74
1:C1:855:A:O2'	1:C1:856:A:H5'	1.87	0.74
29:D1:11:A:O2'	29:D1:12:A:H5'	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1461:A:H2'	29:D1:1462:A:C8	2.22	0.74
29:D1:155:G:C4	29:D1:156:G:H2'	2.22	0.74
29:D1:2272:G:H5'	29:D1:2272:G:N3	2.01	0.74
29:D1:2295:A:C5	29:D1:2296:A:N6	2.55	0.74
29:D1:269:G:C2	29:D1:294:U:C5	2.76	0.74
29:D1:280:U:O2	29:D1:286:U:C2	2.41	0.74
29:D1:2875:U:O2	29:D1:2875:U:H2'	1.87	0.74
29:D1:3328:G:H1	29:D1:3375:A:N6	1.85	0.74
29:D1:3327:G:C2	29:D1:3379:C:C2	2.75	0.74
29:D1:750:G:H5''	29:D1:751:A:OP2	1.88	0.74
29:D1:953:G:C8	29:D1:953:G:H3'	2.22	0.74
1:A1:62:A:H3'	1:A1:62:A:OP2	1.86	0.74
1:C1:1515:A:C8	15:CN:58:LEU:CB	2.70	0.74
1:C1:1242:A:H4'	10:CI:78:THR:HA	1.69	0.74
1:A1:1559:A:H2'	1:A1:1559:A:N3	2.02	0.74
29:B1:3181:C:O2	29:B1:3181:C:H2'	1.87	0.74
29:D1:3225:C:H42	29:D1:3261:C:N4	1.84	0.74
1:C1:884:A:H2'	1:C1:885:G:C8	2.22	0.74
29:D1:2588:U:H5'	29:D1:2589:G:OP2	1.86	0.74
1:C1:1291:G:H2'	1:C1:1292:G:C8	2.23	0.74
1:C1:1408:G:H1'	1:C1:1409:G:N2	2.01	0.74
29:D1:2513:U:C1'	29:D1:2514:U:OP1	2.36	0.74
1:A1:1339:C:O2'	1:A1:1340:U:H5'	1.87	0.74
29:D1:1686:U:H4'	29:D1:1687:U:OP2	1.82	0.74
29:D1:2834:G:O2'	29:D1:2835:U:O5'	2.05	0.74
5:AD:93:LEU:O	5:AD:95:ASN:N	2.20	0.74
43:DN:107:GLU:O	43:DN:110:ALA:N	2.20	0.74
29:D1:2746:A:C6	29:D1:2747:A:C2	2.75	0.74
29:D1:1724:U:O2'	29:D1:1725:C:O4'	2.05	0.74
29:B1:1060:U:OP1	29:B1:1060:U:H4'	1.86	0.74
38:DG:222:HIS:CB	38:DG:227:GLY:HA3	2.17	0.74
29:B1:2723:U:H2'	29:B1:2724:U:C6	2.21	0.74
1:A1:871:G:N3	1:A1:872:G:C8	2.55	0.74
29:B1:1481:A:N7	29:B1:1859:A:N7	2.36	0.74
29:B1:1581:C:H3'	29:B1:1582:C:H4'	1.70	0.74
29:B1:2293:C:H5	29:B1:2294:U:C5	2.05	0.74
29:B1:284:A:N6	29:B1:2785:A:C4'	2.50	0.74
29:B1:2912:G:C2	29:B1:2913:C:O2	2.41	0.74
29:B1:2912:G:O4'	29:B1:3131:U:H5'	1.87	0.74
29:B1:2970:C:H3'	29:B1:2971:A:C5'	2.17	0.74
29:B1:3104:U:C2'	29:B1:3105:U:H5'	2.15	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2255:A:C5	74:B1:3438:OHX:N5	2.55	0.74
29:B1:197:G:C8	29:B1:395:A:H1'	2.21	0.74
29:B1:422:A:H1'	29:B1:423:A:H5'	1.68	0.74
29:B1:515:C:C2'	29:B1:516:A:O4'	2.26	0.74
1:C1:974:A:H5'	29:D1:848:A:C1'	2.17	0.74
29:D1:1517:G:H2'	29:D1:1518:U:C6	2.22	0.74
29:D1:1581:C:H3'	29:D1:1582:C:H4'	1.68	0.74
29:D1:1596:C:H2'	29:D1:1597:C:C6	2.23	0.74
29:D1:2281:A:O2'	29:D1:2282:U:H5''	1.87	0.74
29:D1:2703:A:C5'	29:D1:2704:A:H5'	2.16	0.74
29:D1:2955:U:H2'	29:D1:2956:A:H8	1.52	0.74
29:D1:3110:C:C2	29:D1:3111:U:C6	2.76	0.74
29:D1:501:A:N6	29:D1:502:U:C4	2.55	0.74
29:D1:660:A:C2	29:D1:1435:A:H2	2.04	0.74
29:D1:726:G:C4	29:D1:744:A:N6	2.54	0.74
29:D1:775:A:H2'	29:D1:776:U:O4'	1.88	0.74
1:C1:973:A:O4'	29:D1:847:A:C2	2.40	0.74
1:A1:226:A:HO2'	1:A1:227:U:H6	1.33	0.74
1:A1:846:G:O2'	1:A1:847:A:O4'	2.06	0.74
1:C1:806:A:H2'	1:C1:807:A:H5''	1.68	0.74
35:BD:76:ARG:HA	35:BD:88:GLY:HA2	1.69	0.74
1:C1:114:C:C4	1:C1:248:U:C4	2.75	0.74
1:A1:336:G:H2'	1:A1:338:C:H5	1.52	0.74
1:C1:1456:C:H5''	1:C1:1457:C:H5''	1.69	0.74
1:C1:1458:G:C5'	1:C1:1459:C:C5	2.62	0.74
1:C1:1516:A:H3'	1:C1:1517:U:C5'	2.18	0.74
1:A1:1346:A:C8	1:A1:1347:U:C6	2.74	0.74
30:B2:56:A:H5''	30:B2:56:A:H8	1.52	0.74
16:CO:54:ASP:HA	16:CO:59:GLY:CA	2.17	0.74
34:BC:154:TYR:N	34:BC:155:ALA:HB2	2.00	0.74
34:DC:294:GLY:HA2	34:DC:295:ALA:C	2.06	0.74
29:B1:365:A:C2	29:B1:366:A:C4	2.75	0.74
1:A1:791:A:H2'	1:A1:792:U:C6	2.20	0.74
29:B1:102:C:C1'	29:B1:103:G:OP1	2.35	0.74
41:DJ:184:LYS:C	41:DJ:186:GLU:H	1.90	0.74
1:A1:804:A:H2'	1:A1:805:U:H6	1.52	0.74
1:C1:708:C:H2'	1:C1:709:C:O4'	1.86	0.74
29:B1:2270:A:C2	29:B1:2271:A:C4	2.76	0.74
29:B1:2280:A:C5	29:B1:2282:U:C5	2.76	0.74
29:B1:281:G:C6	29:B1:282:G:O6	2.41	0.74
29:B1:2912:G:N1	29:B1:2913:C:O2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3074:G:O2'	29:B1:3075:G:H5'	1.87	0.74
29:B1:23:A:OP1	74:B1:3406:OHX:N5	2.20	0.74
29:B1:30:G:C6	29:B1:55:G:O6	2.40	0.74
29:B1:606:C:H3'	29:B1:607:A:H8	0.94	0.74
1:C1:1633:A:H1'	1:C1:1634:C:OP2	1.87	0.74
1:C1:394:C:C2'	1:C1:395:U:H5'	2.17	0.74
1:C1:527:A:OP1	1:C1:528:U:H3'	1.86	0.74
29:D1:2369:G:H2'	29:D1:2370:G:C8	2.23	0.74
29:D1:2725:U:C4	29:D1:2727:A:N3	2.55	0.74
29:D1:572:A:N7	29:D1:573:C:C5	2.55	0.74
29:D1:674:G:H2'	29:D1:675:C:H6	1.50	0.74
29:D1:775:A:C2'	29:D1:776:U:C4'	2.64	0.74
31:D3:40:A:C4	31:D3:41:A:C8	2.76	0.74
29:B1:2642:A:H5''	29:B1:2643:A:OP2	1.88	0.74
31:B3:59:A:H4'	31:B3:60:U:H5''	1.69	0.74
1:A1:273:G:OP1	1:A1:273:G:C8	2.40	0.74
30:D2:105:C:H2'	30:D2:106:U:H5'	1.68	0.74
1:C1:1235:C:H2'	1:C1:1236:A:H8	1.51	0.74
1:C1:1243:G:H2'	1:C1:1244:A:N7	2.03	0.74
1:C1:1347:U:H2'	1:C1:1349:G:N7	2.03	0.74
1:A1:1200:G:H5'	1:A1:1201:G:C8	2.22	0.74
1:A1:1348:A:H2'	1:A1:1349:G:H5''	1.67	0.74
1:A1:1466:G:C6	1:A1:1467:C:N4	2.55	0.74
1:A1:1575:G:OP1	1:A1:1575:G:H4'	1.87	0.74
29:D1:3209:A:C5	29:D1:3210:A:C6	2.76	0.74
29:B1:3215:A:O5'	29:B1:3218:A:C5'	2.36	0.74
30:B2:38:U:O2'	30:B2:40:C:H5''	1.87	0.74
30:B2:23:A:H2'	30:B2:24:A:C8	2.23	0.74
30:B2:3:U:H2'	30:B2:4:U:H6	1.52	0.74
29:B1:2880:U:H2'	29:B1:2881:C:H5'	1.68	0.74
29:B1:1705:U:O2'	29:B1:1706:C:O5'	2.06	0.74
1:C1:1123:C:C5	1:C1:1124:A:C5	2.75	0.74
1:A1:1358:G:N3	1:A1:1358:G:H2'	2.01	0.74
1:A1:992:A:N1	1:A1:1012:U:C2	2.55	0.74
1:A1:1132:A:N3	1:A1:1133:A:C8	2.56	0.74
1:A1:625:C:O2'	1:A1:939:A:N3	2.17	0.74
29:B1:1152:G:C8	29:B1:1152:G:O5'	2.40	0.74
29:B1:1795:U:O2'	29:B1:1796:G:P	2.45	0.74
29:B1:2279:A:H4'	29:B1:2280:A:H5'	1.68	0.74
29:B1:23:A:H3'	29:B1:24:G:H8	1.51	0.74
29:B1:2904:U:O2	29:B1:2904:U:H3'	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:596:C:C3'	29:B1:597:G:H5''	2.18	0.74
29:B1:722:G:N1	29:B1:748:U:N3	2.36	0.74
1:C1:10:G:C2	1:C1:11:A:C4	2.76	0.74
1:C1:142:G:C6	1:C1:266:A:N6	2.55	0.74
1:C1:1757:G:C5	1:C1:1758:U:C5	2.75	0.74
29:D1:1448:U:O2'	29:D1:1449:A:H5'	1.87	0.74
29:D1:2775:U:O2'	29:D1:2776:C:P	2.45	0.74
29:D1:3328:G:N3	29:D1:3328:G:H2'	2.00	0.74
29:D1:3377:G:C2'	29:D1:3378:C:OP1	2.34	0.74
29:D1:593:C:H3'	29:D1:609:G:N2	2.02	0.74
29:D1:715:A:H2	29:D1:784:A:C4'	1.85	0.74
29:D1:953:G:H8	29:D1:953:G:H3'	1.51	0.74
30:D2:98:C:H2'	30:D2:98:C:O2	1.87	0.74
74:D3:204:OHX:N5	74:D3:209:OHX:N3	2.35	0.74
31:D3:64:U:O2	31:D3:64:U:H2'	1.87	0.74
1:C1:844:A:N7	74:C1:1917:OHX:N2	2.36	0.74
1:C1:750:U:H2'	1:C1:751:G:H5'	1.70	0.74
1:C1:251:A:H2'	1:C1:252:U:H5'	1.70	0.74
29:B1:1466:G:C6	29:B1:1511:U:C5	2.74	0.74
30:B2:49:G:OP2	30:B2:49:G:C8	2.41	0.74
29:D1:213:A:N6	29:D1:227:G:H2'	2.02	0.74
29:D1:3383:G:N3	29:D1:3383:G:H2'	2.03	0.74
29:D1:1063:G:OP1	29:D1:1063:G:O4'	2.04	0.74
1:C1:1334:U:H5''	1:C1:1335:U:OP2	1.87	0.74
1:C1:1753:A:C6	1:C1:1754:A:C6	2.75	0.74
29:B1:1716:U:O2	29:B1:1716:U:H2'	1.87	0.74
29:D1:2561:A:H3'	29:D1:2561:A:OP1	1.88	0.74
29:B1:2942:C:C6	29:B1:2942:C:H3'	2.21	0.74
29:B1:141:C:H2'	29:B1:142:C:C6	2.22	0.74
1:A1:1358:G:H5'	1:A1:1359:C:OP2	1.87	0.74
29:D1:600:G:N2	29:D1:604:G:C6	2.55	0.74
1:A1:809:A:C2	1:A1:810:G:N1	2.56	0.74
34:BC:169:THR:O	34:BC:170:PRO:C	2.25	0.74
9:CH:28:VAL:O	9:CH:41:ARG:HA	1.87	0.74
46:DQ:47:TYR:O	46:DQ:49:GLU:N	2.21	0.74
46:DQ:128:ARG:H	46:DQ:139:TYR:H	1.35	0.74
1:C1:776:G:C2	1:C1:785:U:C2	2.76	0.74
1:A1:992:A:N1	1:A1:1012:U:O2	2.20	0.74
1:A1:1010:C:H5''	74:A1:1958:OHX:N6	2.01	0.74
29:B1:1157:G:H8	29:B1:1157:G:H5'	1.51	0.74
29:B1:153:U:H4'	29:B1:158:G:N2	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:284:A:H62	29:B1:2785:A:C4'	2.00	0.74
29:B1:2970:C:H3'	29:B1:2971:A:H5''	1.69	0.74
29:B1:516:A:H3'	29:B1:517:G:H8	1.49	0.74
1:C1:104:A:H5'	1:C1:105:A:OP2	1.88	0.74
1:C1:1101:G:OP2	1:C1:1101:G:C8	2.40	0.74
1:C1:1632:C:O2'	1:C1:1633:A:H8	1.70	0.74
29:D1:1658:G:H2'	29:D1:1659:U:H6	1.53	0.74
29:D1:2255:A:P	74:D1:3415:OHX:N1	2.61	0.74
29:D1:3028:G:C2	29:D1:3029:A:N3	2.56	0.74
29:D1:660:A:C2	29:D1:1435:A:C2	2.75	0.74
29:D1:3150:A:H5''	34:DC:134:SER:HA	1.70	0.74
30:D2:77:G:H1'	30:D2:78:U:OP2	1.87	0.74
29:B1:1196:C:H5	29:B1:1197:A:C6	2.05	0.74
29:B1:3214:U:O3'	29:B1:3218:A:H5'	1.87	0.74
29:B1:3201:C:C6	29:B1:3201:C:P	2.77	0.74
46:DQ:10:ASN:H	46:DQ:11:PRO:HA	0.66	0.74
30:D2:23:A:C8	30:D2:24:A:N7	2.55	0.74
30:B2:46:A:O5'	30:B2:46:A:N3	2.21	0.74
29:B1:1236:G:H4'	29:B1:1237:G:OP2	1.88	0.74
4:CC:67:ASN:O	4:CC:71:LEU:CB	2.35	0.74
29:B1:3261:C:OP2	29:B1:3262:U:OP1	2.06	0.74
29:D1:2434:U:H4'	29:D1:2435:G:H5'	1.67	0.74
42:DK:84:LEU:HA	42:DK:89:TYR:CA	2.16	0.74
40:DI:100:ASN:O	40:DI:114:VAL:HA	1.88	0.74
11:CJ:12:LYS:HA	11:CJ:17:THR:HA	1.69	0.74
29:D1:102:C:H1'	29:D1:103:G:OP1	1.88	0.74
29:B1:2792:A:H8	29:B1:2792:A:O5'	1.70	0.74
1:A1:1153:G:OP2	1:A1:1153:G:H8	1.69	0.74
1:A1:557:G:H3'	1:A1:557:G:OP1	1.88	0.74
29:B1:1440:G:H2'	29:B1:1441:G:C8	2.22	0.74
29:B1:2315:G:N2	29:B1:2316:G:N7	2.36	0.74
29:B1:264:G:H3'	29:B1:265:A:H8	1.52	0.74
29:B1:282:G:P	29:B1:282:G:H3'	2.26	0.74
29:B1:353:G:O2'	29:B1:364:G:O6	2.04	0.74
29:B1:759:U:C4	29:B1:773:G:C5	2.75	0.74
29:B1:775:A:H2'	29:B1:776:U:O4'	1.87	0.74
31:B3:103:G:C6	31:B3:105:A:N6	2.56	0.74
29:B1:1794:G:C2	33:BB:185:ALA:HB1	2.22	0.74
1:C1:365:G:H2'	1:C1:366:A:O5'	1.86	0.74
1:C1:439:U:H1'	1:C1:440:U:OP1	1.88	0.74
29:D1:2137:U:H4'	29:D1:2137:U:OP1	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2381:G:O2'	29:D1:2382:G:H5'	1.88	0.74
29:D1:2420:C:C2'	29:D1:2421:U:H5'	2.17	0.74
29:D1:2727:A:C2	29:D1:2728:G:C6	2.75	0.74
29:D1:284:A:N6	29:D1:2785:A:H4'	2.02	0.74
29:D1:504:A:C2	29:D1:587:U:O2	2.41	0.74
29:D1:886:C:C2'	29:D1:887:G:H5'	2.18	0.74
29:D1:955:U:H2'	29:D1:956:U:H6	1.49	0.74
31:D3:143:U:H2'	31:D3:144:G:C8	2.23	0.74
1:A1:148:A:H5''	1:A1:149:C:OP2	1.88	0.74
1:C1:331:A:H4'	1:C1:1676:U:H6	1.52	0.74
1:C1:1244:A:N3	1:C1:1244:A:C2'	2.50	0.74
1:C1:1426:C:O2'	1:C1:1427:A:H4'	1.87	0.74
1:A1:1348:A:H3'	1:A1:1348:A:C8	2.22	0.74
29:B1:3383:G:N3	29:B1:3383:G:H2'	2.02	0.74
1:C1:1392:U:H2'	1:C1:1393:C:C6	2.22	0.74
29:B1:3261:C:O5'	29:B1:3262:U:OP1	2.06	0.74
36:BE:273:ARG:C	36:BE:275:THR:H	1.90	0.74
29:B1:2092:A:H3'	29:B1:2093:A:C5'	2.17	0.74
29:B1:1042:U:C6	29:B1:1042:U:OP2	2.41	0.74
9:CH:100:ALA:O	9:CH:104:ALA:CB	2.36	0.74
29:B1:1340:G:H2'	29:B1:1341:U:H6	1.53	0.74
43:DN:22:LEU:CB	43:DN:65:LEU:HA	2.18	0.74
40:DI:161:LEU:O	40:DI:163:GLN:N	2.20	0.74
1:A1:818:C:H2'	1:A1:819:G:N7	2.03	0.74
29:B1:1390:A:C5	29:B1:1418:A:C5	2.76	0.74
29:B1:1560:G:O6	29:B1:1579:C:N3	2.21	0.74
29:B1:1453:A:C1'	29:B1:1850:A:C2	2.71	0.74
29:B1:221:A:C2	29:B1:224:C:C5	2.74	0.74
29:B1:2750:U:O2'	29:B1:2751:G:H5'	1.88	0.74
29:B1:498:A:H2'	29:B1:499:G:H8	1.53	0.74
29:B1:588:G:C6	29:B1:612:U:H5	2.05	0.74
29:B1:609:G:H4'	29:B1:610:G:OP1	1.88	0.74
29:B1:610:G:N3	29:B1:610:G:C3'	2.51	0.74
29:B1:715:A:H3'	54:BY:115:LYS:CA	2.18	0.74
1:C1:457:G:C2'	1:C1:458:G:H5'	2.18	0.74
1:C1:518:A:H61	1:C1:535:A:C1'	2.00	0.74
1:C1:557:G:H3'	1:C1:557:G:OP1	1.88	0.74
29:D1:2145:A:H1'	29:D1:2958:A:H4'	1.68	0.74
29:D1:2222:A:HO2'	29:D1:2223:A:H8	1.34	0.74
29:D1:3297:U:O2	29:D1:3298:C:C6	2.41	0.74
29:D1:3331:U:C2'	29:D1:3332:U:H5'	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:537:A:N6	29:D1:556:U:O2	2.21	0.74
1:A1:741:C:O2	1:A1:741:C:H2'	1.86	0.74
29:B1:2630:C:O3'	49:BT:6:GLY:HA3	1.88	0.74
29:B1:995:U:N3	29:B1:2637:A:C8	2.56	0.74
31:B3:65:A:C2	31:B3:96:A:C5	2.76	0.74
31:B3:75:G:OP1	31:B3:90:U:C5'	2.35	0.74
1:A1:153:G:H2'	1:A1:154:G:C8	2.23	0.74
29:D1:2680:A:H3'	29:D1:2681:U:C5'	2.18	0.74
1:C1:1240:U:C3'	1:C1:1241:G:H5'	2.18	0.74
1:A1:1345:A:H2'	1:A1:1346:A:N7	2.03	0.74
1:A1:1609:U:H2'	1:A1:1610:G:O4'	1.86	0.74
29:D1:3176:G:H2'	29:D1:3177:G:H5''	1.67	0.74
29:D1:1232:C:H4'	73:DM:35:SER:CA	2.17	0.74
54:BY:110:GLY:O	54:BY:128:ARG:CB	2.36	0.74
29:D1:1913:A:C5	29:D1:2120:A:N7	2.55	0.74
29:D1:859:G:N2	29:D1:861:C:H1'	2.03	0.74
29:D1:2599:U:H2'	29:D1:2600:C:C6	2.23	0.74
18:AQ:92:ILE:HA	18:AQ:98:GLN:O	1.88	0.74
47:BR:128:ALA:HA	47:BR:131:ALA:HB3	1.70	0.74
29:B1:1530:U:O2	29:B1:1530:U:H2'	1.85	0.74
1:A1:385:A:OP2	1:A1:385:A:H8	1.70	0.74
29:B1:1294:A:H8	29:B1:1294:A:H5''	1.52	0.74
29:B1:2137:U:H2'	29:B1:2137:U:O2	1.88	0.74
29:B1:3101:G:H2'	29:B1:3102:G:C5'	2.18	0.74
29:B1:3141:A:H5'	29:B1:3143:C:O2	1.87	0.74
29:B1:560:G:N2	29:B1:561:C:N3	2.36	0.74
1:C1:257:A:H2'	1:C1:258:C:C5'	2.16	0.74
1:C1:380:U:H2'	1:C1:380:U:O2	1.87	0.74
29:D1:1658:G:H2'	29:D1:1659:U:C6	2.23	0.74
29:D1:284:A:C2	29:D1:306:A:C8	2.76	0.74
29:D1:293:C:N3	29:D1:294:U:O2	2.21	0.74
29:D1:2998:U:H2'	29:D1:2999:U:H6	1.52	0.74
29:D1:3316:A:OP2	29:D1:3318:G:H4'	1.88	0.74
29:D1:331:G:O2'	29:D1:332:C:OP1	2.06	0.74
29:D1:3390:G:C6	29:D1:3391:A:C5	2.76	0.74
29:D1:3392:U:N3	29:D1:3393:U:O4	2.20	0.74
29:D1:533:A:H2'	29:D1:534:U:C4	2.23	0.74
44:DO:85:THR:HA	44:DO:87:GLN:N	2.03	0.74
29:D1:2633:U:O4	49:DT:3:LYS:N	2.20	0.74
29:B1:2650:U:OP2	29:B1:2650:U:H6	1.69	0.74
29:B1:2729:U:H4'	29:B1:2730:G:OP2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:162:A:C3'	1:A1:163:G:H8	2.00	0.74
30:D2:14:U:C2'	30:D2:15:C:O5'	2.36	0.74
45:BP:124:LEU:HA	45:BP:125:ARG:C	2.06	0.74
1:A1:1243:G:C6	1:A1:1244:A:N6	2.55	0.74
1:A1:1595:U:C6	1:A1:1596:C:N3	2.55	0.74
29:B1:384:A:H3'	29:B1:385:A:C8	2.16	0.74
46:BQ:10:ASN:N	46:BQ:11:PRO:CA	2.30	0.74
29:B1:3219:G:C8	29:B1:3257:C:OP1	2.39	0.74
29:D1:3215:A:O5'	29:D1:3218:A:C5'	2.34	0.74
29:D1:3144:G:O6	74:D1:3431:OHX:N2	2.21	0.74
29:B1:1627:U:H5'	29:B1:1628:C:OP2	1.88	0.74
30:B2:1:G:N3	30:B2:1:G:H2'	2.01	0.74
54:DY:69:TRP:N	54:DY:110:GLY:HA2	2.02	0.74
29:D1:2942:C:C6	29:D1:2942:C:H3'	2.21	0.74
29:D1:1042:U:H2'	29:D1:1043:C:H6	1.51	0.74
14:CM:128:GLY:C	14:CM:130:ARG:N	2.39	0.74
29:B1:269:G:C2	29:B1:294:U:C5	2.76	0.74
34:BC:261:MET:C	34:BC:263:SER:N	2.33	0.74
10:CI:59:LYS:O	10:CI:63:ALA:HB3	1.87	0.74
1:C1:1089:U:C2'	1:C1:1090:C:H5'	2.17	0.74
1:A1:1395:G:H2'	1:A1:1396:U:H5'	1.70	0.74
29:B1:10:C:H2'	29:B1:10:C:O2	1.87	0.73
29:B1:1435:A:H5'	29:B1:1436:U:C5'	2.14	0.73
29:B1:1445:U:C5	29:B1:1446:A:N7	2.56	0.73
29:B1:1449:A:H3'	29:B1:1450:G:H8	1.53	0.73
29:B1:16:A:O2'	29:B1:17:G:H5'	1.87	0.73
29:B1:2266:U:N3	29:B1:2267:C:N4	2.36	0.73
29:B1:2296:A:O2'	29:B1:2297:U:H5'	1.87	0.73
29:B1:306:A:H61	29:B1:2783:U:H3	1.33	0.73
29:B1:2872:A:C4'	29:B1:2873:U:OP1	2.35	0.73
29:B1:3290:G:H2'	29:B1:3291:G:C8	2.23	0.73
29:B1:3298:C:N4	29:B1:3299:A:N6	2.36	0.73
29:B1:3360:C:O2	29:B1:3360:C:H2'	1.86	0.73
29:B1:3376:A:H5'	29:B1:3377:G:H5''	1.69	0.73
29:B1:548:G:C4	29:B1:549:U:H1'	2.23	0.73
29:B1:699:A:H2'	29:B1:700:C:O4'	1.88	0.73
29:B1:760:G:H2'	29:B1:760:G:N3	2.03	0.73
29:B1:912:G:H2'	29:B1:914:A:N7	2.03	0.73
1:C1:1152:A:O2'	1:C1:1153:G:H5'	1.88	0.73
1:C1:210:A:H2'	1:C1:211:U:H6	1.53	0.73
29:D1:1108:U:H2'	29:D1:1109:U:C6	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1294:A:O2'	29:D1:1295:G:P	2.45	0.73
29:D1:1435:A:C8	29:D1:1437:C:C6	2.76	0.73
29:D1:1504:A:C5	29:D1:1505:C:C5	2.76	0.73
29:D1:308:A:H2	29:D1:2782:U:C2	2.06	0.73
29:D1:2839:G:C5	29:D1:2850:G:N2	2.56	0.73
29:D1:3303:G:O2'	29:D1:3304:U:H5'	1.88	0.73
29:D1:3310:A:C6	29:D1:3311:C:C6	2.76	0.73
29:D1:411:U:O2'	29:D1:412:G:H5'	1.87	0.73
29:D1:872:U:O2'	29:D1:873:C:H5'	1.87	0.73
29:D1:963:G:C5'	29:D1:963:G:H8	2.01	0.73
31:D3:65:A:C2	31:D3:96:A:C5	2.76	0.73
29:B1:2667:A:N6	29:B1:2690:G:C6	2.55	0.73
1:C1:1559:A:H2'	1:C1:1559:A:N3	2.03	0.73
1:C1:1595:U:H6	1:C1:1596:C:N3	1.85	0.73
1:A1:1237:G:H2'	1:A1:1238:A:H8	1.52	0.73
29:B1:3209:A:N1	29:B1:3210:A:N1	2.36	0.73
30:B2:25:G:N2	30:B2:26:C:C2	2.56	0.73
36:BE:100:ALA:C	36:BE:102:GLY:N	2.37	0.73
29:B1:1627:U:H5	29:B1:1628:C:C4	2.05	0.73
34:BC:93:VAL:CB	34:BC:156:SER:H	2.01	0.73
29:D1:2173:U:H2'	29:D1:2174:G:H8	1.52	0.73
14:AM:128:GLY:C	14:AM:130:ARG:N	2.40	0.73
29:D1:790:U:C2	29:D1:791:A:C8	2.75	0.73
29:B1:1827:C:H2'	29:B1:1828:A:C8	2.23	0.73
18:CQ:92:ILE:HA	18:CQ:98:GLN:O	1.87	0.73
1:A1:1000:C:H5	1:A1:1003:A:OP2	1.71	0.73
1:A1:1627:U:O2'	1:A1:1628:U:C6	2.38	0.73
1:A1:1146:G:H8	1:A1:1635:A:C2	2.06	0.73
1:A1:26:A:OP1	1:A1:27:U:OP2	2.06	0.73
1:A1:389:G:H2'	1:A1:390:G:H8	1.53	0.73
29:B1:1328:C:H2'	29:B1:1329:U:C5	2.23	0.73
29:B1:1896:A:C2	29:B1:3093:C:C6	2.76	0.73
29:B1:1939:G:O4'	29:B1:2114:C:H1'	1.89	0.73
29:B1:2260:U:H2'	29:B1:2261:G:N7	2.02	0.73
29:B1:2289:U:O2'	29:B1:2290:C:H5'	1.88	0.73
29:B1:2309:A:H2	29:B1:2961:G:H2'	1.53	0.73
29:B1:3308:C:C5	29:B1:3309:G:N3	2.56	0.73
1:C1:1003:A:N7	1:C1:1005:A:N1	2.36	0.73
1:C1:183:U:O2'	1:C1:184:C:H5''	1.88	0.73
1:C1:551:G:H5''	1:C1:552:G:OP2	1.88	0.73
1:C1:89:G:H2'	1:C1:90:C:H6	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:992:A:H2'	1:C1:993:A:C5'	2.15	0.73
29:D1:1180:A:C5	29:D1:1182:A:C8	2.75	0.73
29:D1:1192:C:OP2	29:D1:1192:C:N1	2.20	0.73
29:D1:2151:C:C5'	29:D1:2151:C:H6	1.96	0.73
29:D1:2279:A:N7	29:D1:2288:G:C6	2.57	0.73
29:D1:2376:G:O2'	29:D1:2377:G:O5'	2.06	0.73
29:D1:308:A:H2	29:D1:2782:U:N3	1.86	0.73
29:D1:727:G:H22	29:D1:741:U:H3	1.35	0.73
29:D1:88:A:H2'	29:D1:89:A:O4'	1.88	0.73
31:D3:81:U:H3'	31:D3:82:U:C5'	2.17	0.73
35:DD:16:THR:CB	35:DD:17:ALA:HA	2.18	0.73
29:D1:514:G:O2'	37:DF:145:LEU:O	2.06	0.73
29:B1:2678:A:O4'	29:B1:2679:A:H2	1.72	0.73
1:C1:1378:U:C5'	1:C1:1379:C:H5''	2.18	0.73
1:A1:1186:U:H2'	1:A1:1187:U:O4'	1.88	0.73
1:A1:1378:U:C5'	1:A1:1379:C:H5''	2.18	0.73
29:B1:618:C:O2'	29:B1:619:A:H5'	1.88	0.73
29:D1:3314:A:C2'	34:DC:119:TYR:N	2.49	0.73
29:D1:2594:C:H6	29:D1:2594:C:OP2	1.71	0.73
29:D1:2594:C:H2'	29:D1:2595:A:C8	2.23	0.73
1:A1:1420:C:C5	1:A1:1421:A:C8	2.71	0.73
29:B1:622:A:H2'	29:B1:623:U:C6	2.23	0.73
29:D1:1864:A:H5''	29:D1:1865:A:OP2	1.88	0.73
36:BE:42:ALA:CB	49:BT:69:LYS:O	2.36	0.73
1:C1:778:G:N2	1:C1:783:G:C5	2.56	0.73
29:B1:2287:C:C2	29:B1:2298:U:O2	2.40	0.73
29:D1:2928:C:C2'	29:D1:2929:C:H5'	2.18	0.73
2:AA:106:SER:C	2:AA:108:THR:H	1.91	0.73
36:BE:18:THR:CB	36:BE:19:PRO:HA	2.17	0.73
15:AN:66:SER:HA	15:AN:81:THR:HA	1.69	0.73
47:DR:45:ASN:O	47:DR:48:VAL:N	2.21	0.73
1:C1:734:A:C6	1:C1:735:C:C2	2.77	0.73
73:DM:17:GLU:C	73:DM:19:LEU:H	1.91	0.73
1:A1:1008:G:C2	1:A1:1009:U:H1'	2.23	0.73
29:B1:122:A:H2'	29:B1:123:A:C8	2.23	0.73
29:B1:213:A:N6	29:B1:227:G:H2'	2.04	0.73
29:B1:2931:C:C4	29:B1:2932:U:H5	2.06	0.73
29:B1:3055:U:O2'	29:B1:3056:U:H3'	1.88	0.73
29:B1:392:G:C2	29:B1:393:U:C6	2.77	0.73
29:B1:537:A:N7	29:B1:556:U:O4	2.21	0.73
31:B3:138:A:C2	31:B3:139:U:C2	2.75	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:143:U:H2'	31:B3:144:G:C8	2.22	0.73
38:BG:69:ALA:HB1	38:BG:75:TYR:N	2.03	0.73
1:C1:1763:A:OP2	1:C1:1768:G:OP2	2.05	0.73
1:C1:617:U:O4'	1:C1:1031:U:O2	2.05	0.73
29:D1:1196:C:C5	29:D1:1197:A:C5	2.76	0.73
29:D1:1543:G:C2	29:D1:1544:G:C8	2.76	0.73
29:D1:1604:G:H8	29:D1:1605:A:H5''	1.53	0.73
29:D1:23:A:C2	29:D1:24:G:C4	2.76	0.73
29:D1:2640:A:C8	29:D1:2641:U:H5	2.07	0.73
29:D1:2667:A:H3'	29:D1:2667:A:C4	2.23	0.73
29:D1:285:A:C2	29:D1:305:U:O5'	2.41	0.73
29:D1:698:U:C1'	29:D1:699:A:OP1	2.36	0.73
1:A1:272:U:H4'	1:A1:273:G:OP2	1.86	0.73
1:C1:341:A:C4	1:C1:342:C:C5	2.76	0.73
1:A1:1199:G:C5	1:A1:1200:G:H1'	2.23	0.73
1:A1:1348:A:C2'	1:A1:1349:G:H5''	2.18	0.73
46:DQ:10:ASN:N	46:DQ:11:PRO:CA	2.28	0.73
29:D1:213:A:C2	29:D1:214:G:H1'	2.22	0.73
30:B2:22:A:N1	36:BE:277:LEU:CB	2.50	0.73
29:D1:1259:A:H5''	29:D1:1260:A:OP2	1.88	0.73
1:C1:1332:C:O2'	1:C1:1333:C:H6	1.70	0.73
1:A1:1399:C:H2'	1:A1:1400:A:C8	2.23	0.73
1:A1:1022:C:C4'	1:A1:1124:A:H61	2.00	0.73
1:C1:1091:A:H4'	1:C1:1092:A:O5'	1.86	0.73
30:B2:121:U:H5''	36:BE:263:GLU:CB	2.18	0.73
29:D1:1354:G:H8	29:D1:1355:A:C6	2.06	0.73
43:BN:33:ALA:HB1	43:BN:48:GLY:N	2.01	0.73
1:C1:1084:A:O2'	1:C1:1085:G:H5'	1.87	0.73
34:BC:350:ALA:O	34:BC:351:LEU:CB	2.36	0.73
16:CO:85:ASP:O	16:CO:87:GLU:N	2.21	0.73
21:CT:181:TRP:HA	21:CT:189:GLU:H	1.52	0.73
38:DG:111:ILE:O	38:DG:112:ASN:C	2.25	0.73
33:DB:188:LYS:C	33:DB:190:ARG:N	2.35	0.73
51:DV:41:LYS:C	51:DV:43:ARG:H	1.92	0.73
1:A1:440:U:H3'	1:A1:441:A:H5'	1.68	0.73
1:A1:811:A:O2'	1:A1:858:G:H8	1.70	0.73
1:A1:817:A:H5''	1:A1:818:C:OP2	1.89	0.73
29:B1:1194:G:N3	29:B1:1309:U:O2	2.21	0.73
29:B1:2854:U:O2'	29:B1:2855:U:H5'	1.89	0.73
29:B1:1303:A:C2	29:B1:2887:A:C6	2.75	0.73
29:B1:3097:C:H2'	29:B1:3098:G:H8	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3107:U:O2'	29:B1:3108:G:H5'	1.88	0.73
29:B1:3316:A:OP2	29:B1:3318:G:H4'	1.89	0.73
29:B1:532:A:H3'	29:B1:533:A:C8	2.24	0.73
29:B1:826:G:C4	29:B1:827:A:C8	2.76	0.73
29:B1:887:G:H2'	29:B1:888:A:C8	2.23	0.73
1:C1:1764:C:C5'	1:C1:1764:C:H6	1.99	0.73
29:D1:1223:A:C2	29:D1:1285:G:C8	2.77	0.73
29:D1:2148:U:C4'	29:D1:2149:A:OP1	2.33	0.73
29:D1:2688:U:O3'	29:D1:2689:A:C8	2.42	0.73
29:D1:2714:G:N2	29:D1:2751:G:C5	2.56	0.73
29:D1:312:C:H2'	29:D1:313:A:H8	1.52	0.73
29:D1:3326:G:C2	29:D1:3327:G:C8	2.76	0.73
29:D1:420:G:N3	29:D1:2384:A:H2'	2.04	0.73
29:D1:580:C:N3	29:D1:581:U:C5	2.56	0.73
29:D1:693:A:H2'	29:D1:694:C:C6	2.23	0.73
29:D1:716:A:H2'	29:D1:717:C:C3'	2.17	0.73
31:D3:66:A:H2'	31:D3:67:U:C6	2.24	0.73
1:A1:740:A:H2'	1:A1:741:C:H5''	1.70	0.73
30:B2:11:A:H1'	30:B2:67:G:N2	2.03	0.73
30:B2:14:U:C2'	30:B2:15:C:O5'	2.35	0.73
31:B3:74:U:H1'	31:B3:89:A:C8	2.24	0.73
30:D2:10:C:O3'	30:D2:13:A:C8	2.41	0.73
1:C1:250:C:OP2	1:C1:250:C:H3'	1.88	0.73
29:B1:2673:A:H61	29:B1:2681:U:H3	1.34	0.73
1:C1:1201:G:C3'	1:C1:1201:G:N3	2.45	0.73
1:A1:1492:A:H4'	1:A1:1493:A:OP1	1.86	0.73
29:B1:383:G:H3'	29:B1:384:A:C5'	2.15	0.73
30:B2:42:A:C4	30:B2:45:A:N6	2.55	0.73
29:B1:3028:G:O2'	29:B1:3029:A:O4'	2.05	0.73
29:B1:1247:U:H3	29:B1:1274:A:H61	1.34	0.73
29:D1:70:A:C2	29:D1:71:A:O2'	2.41	0.73
29:D1:71:A:C8	29:D1:72:C:C5	2.77	0.73
29:D1:1258:U:H2'	29:D1:1259:A:O5'	1.88	0.73
29:B1:2594:C:H6	29:B1:2594:C:OP2	1.71	0.73
29:B1:2556:C:N4	29:B1:2557:A:C2	2.56	0.73
29:D1:1691:U:H2'	29:D1:1692:U:C5	2.24	0.73
9:AH:64:ALA:HA	9:AH:68:ALA:H	1.51	0.73
29:D1:2652:U:H2'	29:D1:2653:C:H6	1.50	0.73
7:CF:129:ARG:O	7:CF:131:ILE:N	2.22	0.73
1:A1:1028:C:H1'	1:A1:1029:U:H5''	1.70	0.73
29:D1:710:A:O2'	29:D1:711:A:H5'	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:338:A:H4'	29:D1:338:A:OP2	1.88	0.73
29:D1:665:A:C2'	29:D1:666:A:H5'	2.18	0.73
1:A1:605:A:N7	1:A1:606:A:C6	2.56	0.73
29:B1:952:A:H1'	29:B1:1114:U:O2'	1.88	0.73
29:B1:1210:U:H2'	29:B1:1211:U:H5'	1.70	0.73
29:B1:652:G:OP1	29:B1:1436:U:O2'	2.05	0.73
29:B1:161:G:H2'	29:B1:162:G:H8	1.53	0.73
29:B1:2875:U:O2	29:B1:2875:U:H2'	1.88	0.73
29:B1:2980:U:N3	29:B1:2981:U:H5	1.87	0.73
29:B1:3057:U:H5'	29:B1:3086:A:H61	1.54	0.73
29:B1:3325:G:C2	29:B1:3326:G:C4	2.76	0.73
29:B1:3390:G:C2	29:B1:3391:A:C4	2.77	0.73
31:B3:37:A:N6	31:B3:104:A:H2'	2.03	0.73
1:C1:542:A:O2'	1:C1:543:C:H3'	1.88	0.73
29:D1:11:A:C1'	29:D1:1557:A:N6	2.52	0.73
29:D1:1440:G:H2'	29:D1:1441:G:C8	2.24	0.73
29:D1:1539:A:N6	29:D1:1583:A:C8	2.57	0.73
29:D1:1570:U:H4'	31:D3:127:U:O4	1.87	0.73
29:D1:2640:A:C5	29:D1:2641:U:C5	2.75	0.73
29:D1:2761:G:H1	29:D1:2795:U:H3'	1.54	0.73
29:D1:3316:A:N6	29:D1:3388:C:H42	1.85	0.73
29:D1:331:G:N2	29:D1:332:C:C2	2.57	0.73
29:D1:3333:G:N2	29:D1:3370:A:H4'	2.03	0.73
29:D1:3378:C:O3'	34:DC:313:HIS:HA	1.89	0.73
74:D1:3446:OHX:N5	74:D1:3574:OHX:N2	2.36	0.73
29:D1:427:C:N4	29:D1:428:A:N6	2.35	0.73
29:D1:514:G:H3'	29:D1:515:C:C6	2.22	0.73
29:D1:636:C:O2'	29:D1:636:C:O2	2.07	0.73
31:B3:67:U:H2'	31:B3:68:G:C8	2.24	0.73
1:C1:1722:A:H8	1:C1:1723:U:C6	2.06	0.73
29:D1:2676:A:H2	29:D1:2680:A:N1	1.86	0.73
1:C1:1541:G:C6	1:C1:1542:G:C6	2.77	0.73
1:A1:1480:G:C8	1:A1:1480:G:C5'	2.70	0.73
1:A1:1599:C:O2'	1:A1:1600:A:N3	2.21	0.73
29:B1:385:A:C2	29:B1:386:A:C5	2.76	0.73
30:D2:24:A:H2'	30:D2:25:G:H8	1.54	0.73
29:D1:209:A:O2'	29:D1:210:U:O2	2.07	0.73
29:B1:1282:G:C2'	29:B1:1283:C:H5'	2.18	0.73
29:D1:3381:U:H2'	29:D1:3383:G:C4	2.23	0.73
31:B3:128:U:C5'	31:B3:129:C:H5	2.01	0.73
1:A1:644:C:N4	1:A1:691:C:H42	1.86	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3381:U:H2'	29:B1:3383:G:C4	2.24	0.73
29:D1:1263:A:N6	72:DL:135:THR:HA	2.04	0.73
29:D1:985:U:H2'	29:D1:986:U:C6	2.23	0.73
29:D1:986:U:C2	29:D1:987:U:C6	2.76	0.73
31:B3:29:U:H2'	31:B3:30:C:H6	1.53	0.73
1:A1:1651:A:N3	1:A1:1652:C:C6	2.57	0.73
29:B1:1042:U:H6	29:B1:1042:U:OP2	1.71	0.73
29:B1:3353:G:H2'	29:B1:3353:G:N3	2.02	0.73
43:BN:23:ILE:O	43:BN:32:LEU:HA	1.86	0.73
10:CI:19:GLY:H	13:CL:98:TYR:HA	1.53	0.73
44:DO:159:ARG:O	44:DO:161:ALA:N	2.19	0.73
29:B1:736:A:C8	29:B1:737:G:N7	2.56	0.73
33:DB:188:LYS:C	33:DB:190:ARG:H	1.88	0.73
45:DP:35:VAL:O	45:DP:104:VAL:HA	1.87	0.73
34:BC:46:PHE:O	34:BC:47:LEU:CB	2.34	0.73
1:A1:1764:C:H6	1:A1:1764:C:C5'	2.01	0.73
1:A1:25:C:H6	1:A1:25:C:H3'	1.53	0.73
29:B1:1103:A:O2'	29:B1:1104:G:P	2.46	0.73
29:B1:2407:C:C2	29:B1:2408:U:C5	2.76	0.73
29:B1:2776:C:H5'	29:B1:2777:G:H5''	1.71	0.73
29:B1:2980:U:N3	29:B1:2981:U:C5	2.56	0.73
29:B1:425:G:C8	29:B1:425:G:C5'	2.71	0.73
29:B1:522:A:N7	29:B1:523:A:C8	2.57	0.73
29:B1:610:G:H5''	29:B1:611:A:OP2	1.88	0.73
29:B1:959:C:H41	29:B1:2801:A:C5'	2.02	0.73
29:B1:963:G:H8	29:B1:963:G:C5'	2.00	0.73
29:B1:11:A:N1	31:B3:148:G:C6	2.56	0.73
31:B3:17:A:C5	31:B3:18:U:C5	2.77	0.73
1:C1:1112:G:N2	1:C1:1134:C:C4	2.56	0.73
1:C1:153:G:H2'	1:C1:154:G:C8	2.24	0.73
1:C1:457:G:O2'	1:C1:458:G:H5'	1.88	0.73
1:C1:65:A:C4'	1:C1:66:U:OP1	2.33	0.73
3:CB:160:GLY:C	3:CB:209:ASN:HA	2.09	0.73
29:D1:1288:U:C2'	29:D1:1289:G:H5''	2.19	0.73
29:D1:2701:U:O2'	29:D1:2705:A:C8	2.40	0.73
29:D1:2825:C:H5'	29:D1:2826:U:OP2	1.87	0.73
29:D1:517:G:H2'	29:D1:518:G:N9	2.03	0.73
29:D1:699:A:H2'	29:D1:700:C:O4'	1.89	0.73
29:D1:11:A:C2	31:D3:148:G:C6	2.76	0.73
37:DF:40:LEU:HA	37:DF:85:ILE:CA	2.19	0.73
38:DG:74:SER:CB	38:DG:75:TYR:HA	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:64:A:H1'	30:B2:65:G:C5'	2.19	0.73
1:A1:58:U:O2	1:A1:58:U:H2'	1.88	0.73
1:A1:331:A:C2	1:A1:332:U:C2	2.77	0.73
1:C1:1346:A:C8	1:C1:1347:U:C6	2.76	0.73
1:C1:1429:G:H2'	1:C1:1430:U:C6	2.24	0.73
1:C1:1516:A:H8	15:CN:16:GLN:CB	2.02	0.73
29:D1:3209:A:H2'	29:D1:3210:A:C8	2.23	0.73
31:D3:29:U:H2'	31:D3:30:C:H6	1.53	0.73
29:D1:3228:C:C2	29:D1:3229:G:N7	2.57	0.73
29:D1:1264:G:H4'	29:D1:1265:U:OP1	1.88	0.73
29:D1:3141:A:O4'	29:D1:3143:C:H2'	1.88	0.73
20:CS:37:ASN:CB	20:CS:38:ILE:HA	2.17	0.73
29:B1:1913:A:N3	29:B1:2120:A:H8	1.87	0.73
1:A1:1221:A:O2'	1:A1:1222:C:H5'	1.89	0.73
29:D1:3179:U:O2'	29:D1:3180:A:P	2.45	0.73
45:DP:18:ARG:O	45:DP:20:ALA:N	2.22	0.73
29:D1:1819:U:C6	29:D1:1820:U:H5	2.06	0.73
34:BC:193:ASP:C	34:BC:195:ALA:H	1.89	0.73
29:D1:173:G:O6	29:D1:245:U:C2	2.42	0.73
34:BC:345:ASN:O	34:BC:347:SER:N	2.21	0.73
29:D1:1827:C:H2'	29:D1:1828:A:C8	2.24	0.73
29:D1:2573:G:H2'	29:D1:2574:G:O4'	1.87	0.73
34:DC:106:TRP:C	34:DC:108:GLU:N	2.39	0.73
42:BK:133:ARG:N	42:BK:155:THR:H	1.86	0.73
1:A1:1025:A:H2'	1:A1:1027:A:H5''	1.70	0.73
1:A1:1099:U:O2'	1:A1:1100:G:N9	2.21	0.73
1:A1:1148:C:N3	1:A1:1149:G:O6	2.21	0.73
29:B1:1313:G:N3	29:B1:1314:C:C6	2.57	0.73
29:B1:1437:C:O2	29:B1:1437:C:H2'	1.89	0.73
29:B1:1857:C:O2'	29:B1:1858:A:C8	2.42	0.73
29:B1:2806:U:C2'	29:B1:2807:U:H5'	2.18	0.73
29:B1:573:C:C2	29:B1:574:U:C5	2.77	0.73
29:B1:591:G:N1	29:B1:592:A:C4	2.56	0.73
29:B1:63:A:H2'	29:B1:64:G:C8	2.23	0.73
29:B1:649:A:H2'	29:B1:650:C:C6	2.24	0.73
1:C1:1007:C:H5''	1:C1:1008:G:OP2	1.88	0.73
1:C1:25:C:H3'	1:C1:25:C:H6	1.53	0.73
1:C1:389:G:H2'	1:C1:390:G:C8	2.23	0.73
1:C1:530:C:H2'	1:C1:531:C:C6	2.24	0.73
1:C1:871:G:O2'	1:C1:872:G:H5''	1.88	0.73
29:D1:1194:G:N3	29:D1:1309:U:O2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1507:G:OP2	29:D1:1507:G:H8	1.72	0.73
29:D1:2272:G:H4'	29:D1:2273:G:OP1	1.89	0.73
29:D1:3058:U:HO2'	29:D1:3059:G:P	2.12	0.73
29:D1:382:U:H2'	29:D1:383:G:C4'	2.18	0.73
29:D1:595:G:N2	29:D1:610:G:OP1	2.20	0.73
29:D1:659:G:H2'	29:D1:660:A:N7	2.03	0.73
29:D1:851:C:H2'	29:D1:852:U:H6	1.54	0.73
1:A1:738:G:H2'	1:A1:739:G:C8	2.24	0.73
1:A1:217:A:H2'	1:A1:739:G:OP1	1.88	0.73
1:C1:750:U:O2'	1:C1:751:G:H5'	1.88	0.73
30:B2:14:U:C6	30:B2:14:U:P	2.82	0.73
1:A1:257:A:H2'	1:A1:258:C:C5'	2.13	0.73
1:C1:1489:U:H5	1:C1:1513:G:N1	1.87	0.73
1:C1:1609:U:H2'	1:C1:1610:G:O4'	1.87	0.73
1:C1:1619:C:C2	1:C1:1620:C:H5	2.07	0.73
74:C1:1912:OHX:N2	74:C1:2001:OHX:N4	2.36	0.73
1:A1:1348:A:H5''	15:AN:11:GLU:HA	1.71	0.73
1:A1:1600:A:O2'	1:A1:1602:C:C5	2.30	0.73
15:AN:17:GLN:CB	15:AN:18:GLN:C	2.57	0.73
29:D1:3176:G:C2'	29:D1:3177:G:H5''	2.18	0.73
29:B1:3228:C:C2	29:B1:3229:G:N7	2.55	0.73
29:D1:1186:G:C2'	29:D1:1187:C:C5'	2.65	0.73
29:D1:199:A:C6	29:D1:219:A:N6	2.56	0.73
1:C1:1388:A:C6	1:C1:1411:A:C5	2.77	0.73
29:B1:3260:G:H2'	29:B1:3260:G:N3	2.02	0.73
29:B1:988:U:H2'	29:B1:989:A:C8	2.24	0.73
1:A1:1017:U:H2'	1:A1:1018:U:C6	2.24	0.73
9:CH:64:ALA:HA	9:CH:68:ALA:N	2.03	0.73
45:DP:137:THR:O	45:DP:139:GLY:N	2.21	0.73
29:B1:2572:C:H3'	74:B1:3558:OHX:N5	2.03	0.73
33:BB:229:ALA:O	33:BB:231:SER:N	2.21	0.73
1:A1:1109:G:C2	1:A1:1110:G:N7	2.57	0.73
29:B1:1368:U:H2'	29:B1:1369:A:H8	1.51	0.73
29:B1:2806:U:O2'	29:B1:2807:U:H5'	1.89	0.73
29:B1:2820:A:H5'	29:B1:2821:C:OP2	1.88	0.73
29:B1:2986:U:H2'	29:B1:2987:A:H8	1.52	0.73
29:B1:3072:C:H5	29:B1:3073:A:C5	2.06	0.73
29:B1:3086:A:O3'	34:BC:365:PHE:O	2.07	0.73
29:B1:3005:A:N3	29:B1:3140:G:N2	2.36	0.73
29:B1:3363:U:H5''	29:B1:3364:C:OP2	1.89	0.73
29:B1:3333:G:C2	29:B1:3371:G:C8	2.77	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:B1:3536:OHX:N4	44:BO:84:PRO:HA	2.04	0.73
29:B1:952:A:H5'	29:B1:952:A:C8	2.23	0.73
29:B1:972:A:H2'	29:B1:973:A:O4'	1.89	0.73
31:B3:106:C:H4'	31:B3:107:G:O5'	1.86	0.73
29:B1:943:U:H3'	54:BY:10:LYS:HA	1.69	0.73
1:C1:61:A:H2'	1:C1:61:A:N3	2.03	0.73
1:C1:14:C:P	3:CB:161:LYS:O	2.46	0.73
29:D1:1141:C:C2	29:D1:1142:G:C8	2.76	0.73
29:D1:2383:C:C2	29:D1:2384:A:C8	2.77	0.73
29:D1:2761:G:N2	29:D1:2795:U:C2	2.57	0.73
29:D1:3104:U:O2	29:D1:3129:A:N7	2.22	0.73
29:D1:430:U:H2'	29:D1:431:U:H5'	1.68	0.73
29:D1:511:G:N2	29:D1:579:G:N2	2.36	0.73
31:D3:114:G:H8	31:D3:114:G:OP2	1.71	0.73
37:DF:160:SER:CB	38:DG:49:ALA:HB2	2.19	0.73
1:A1:221:A:C5	1:A1:833:U:H5	2.06	0.73
1:C1:749:U:H2'	1:C1:750:U:C6	2.23	0.73
29:B1:2726:C:H5''	29:B1:2727:A:H5''	1.70	0.73
31:B3:69:U:H2'	31:B3:70:G:C4'	2.18	0.73
1:C1:1681:A:H5'	1:C1:1682:U:OP2	1.88	0.73
1:A1:1719:A:H2'	1:A1:1720:G:N7	2.04	0.73
1:C1:1363:U:H2'	1:C1:1364:G:H1'	1.70	0.73
29:B1:3215:A:H5''	29:B1:3218:A:OP1	1.87	0.73
29:D1:3201:C:C2'	29:D1:3202:G:H5'	2.18	0.73
29:B1:3245:A:O2'	29:B1:3246:G:O4'	2.07	0.73
30:B2:54:U:O2	30:B2:54:U:H2'	1.88	0.73
29:B1:344:A:C5	29:B1:345:G:C8	2.76	0.73
29:D1:1624:G:N2	29:D1:1822:C:C4	2.56	0.73
29:B1:3221:C:N3	29:B1:3222:U:C5	2.56	0.73
1:A1:1340:U:O3'	1:A1:1341:A:H2'	1.88	0.73
1:A1:1409:G:H5'	1:A1:1410:A:OP2	1.88	0.73
29:B1:3273:A:H2'	29:B1:3274:A:O4'	1.88	0.73
30:D2:91:G:C5	30:D2:92:A:N7	2.57	0.73
1:C1:913:G:H4'	1:C1:914:G:OP2	1.87	0.73
29:B1:1013:G:H3'	29:B1:1014:U:H4'	1.71	0.73
29:D1:1931:U:C2	29:D1:2121:G:C2	2.76	0.73
34:DC:295:ALA:H	34:DC:305:ILE:H	1.37	0.73
6:AE:62:ARG:N	6:AE:63:ASP:CB	2.51	0.73
1:A1:569:C:O4'	1:A1:583:C:H4'	1.88	0.73
21:CT:21:THR:CB	21:CT:69:GLN:HA	2.18	0.73
29:D1:3049:A:C2	34:DC:75:ALA:HB2	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:135:GLU:HA	4:AC:152:PHE:O	1.89	0.73
29:B1:182:U:H3	29:B1:234:G:H1	1.35	0.73
1:A1:757:A:C5	1:A1:758:U:C5	2.76	0.73
29:B1:2279:A:O5'	29:B1:2280:A:H5''	1.88	0.73
29:B1:3111:U:C2'	29:B1:3112:G:H5'	2.19	0.73
29:B1:592:A:C6	29:B1:593:C:C6	2.76	0.73
29:B1:595:G:N2	29:B1:610:G:OP1	2.21	0.73
29:B1:951:A:H2'	29:B1:952:A:C5'	2.10	0.73
1:C1:1636:C:C2	1:C1:1765:A:N6	2.57	0.73
29:D1:1224:C:C5	29:D1:1285:G:O6	2.42	0.73
29:D1:1224:C:H5	29:D1:1285:G:O6	1.72	0.73
29:D1:1317:A:C8	29:D1:1319:G:N7	2.56	0.73
29:D1:1837:U:O2'	29:D1:1842:A:C8	2.40	0.73
29:D1:2146:C:C2'	29:D1:2147:A:C5'	2.64	0.73
29:D1:2310:U:H2'	29:D1:2311:G:O5'	1.89	0.73
29:D1:1302:A:C2	29:D1:2887:A:C4	2.77	0.73
29:D1:2999:U:H2'	29:D1:3000:A:H8	1.52	0.73
29:D1:3027:A:C2'	29:D1:3028:G:C8	2.69	0.73
29:D1:515:C:C3'	29:D1:516:A:C5'	2.62	0.73
29:D1:742:G:H2'	29:D1:743:C:H5''	1.71	0.73
29:D1:707:U:H5''	29:D1:782:U:O2'	1.88	0.73
31:D3:74:U:H1'	31:D3:89:A:C8	2.24	0.73
1:A1:732:G:H1'	1:A1:734:A:H61	1.52	0.73
29:B1:2667:A:H62	29:B1:2690:G:H1	1.36	0.73
30:B2:98:C:C3'	30:B2:99:G:H5''	2.18	0.73
29:B1:2682:C:H5'	29:B1:2683:U:OP2	1.87	0.73
1:A1:115:G:H21	1:A1:334:G:H21	1.35	0.73
1:C1:1604:U:H5''	1:C1:1605:G:OP2	1.89	0.73
29:B1:3176:G:C2'	29:B1:3177:G:H5''	2.18	0.73
29:B1:3189:G:H2'	29:B1:3190:C:C6	2.23	0.73
29:B1:2592:G:C6	74:B1:3449:OHX:N3	2.57	0.73
29:B1:337:G:N2	31:B3:27:U:C2	2.57	0.73
29:B1:3265:C:C4	29:B1:3266:G:N7	2.56	0.73
1:A1:899:G:N2	1:A1:915:A:H2	1.85	0.73
1:C1:1285:U:H4'	1:C1:1286:U:OP1	1.87	0.73
1:C1:1579:U:C2	1:C1:1580:C:C5	2.77	0.73
29:D1:2943:G:H2'	29:D1:2944:U:O4'	1.89	0.73
1:A1:1783:C:H2'	1:A1:1784:C:H6	1.54	0.73
41:BJ:69:ARG:O	41:BJ:72:ALA:HB3	1.88	0.73
44:BO:78:GLY:N	44:BO:79:ALA:HB2	2.03	0.73
17:AP:104:LEU:O	17:AP:105:ALA:HB2	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CI:33:PHE:C	10:CI:35:LYS:H	1.91	0.73
33:BB:188:LYS:C	33:BB:190:ARG:N	2.41	0.73
48:DS:62:ARG:O	48:DS:65:ALA:HB3	1.89	0.73
1:A1:881:A:H5''	1:A1:882:U:OP2	1.89	0.73
29:B1:96:G:N2	29:B1:97:U:H1'	2.04	0.73
29:B1:264:G:C5	29:B1:265:A:C6	2.77	0.73
29:B1:509:U:C2	29:B1:510:G:C8	2.77	0.73
29:B1:715:A:H3'	54:BY:115:LYS:HA	1.70	0.73
29:B1:725:G:C2'	29:B1:726:G:H5''	2.19	0.73
29:B1:836:A:H1'	29:B1:858:A:C2	2.23	0.73
31:B3:17:A:H2'	31:B3:18:U:H6	1.53	0.73
1:C1:1005:A:N7	1:C1:1006:C:C5	2.57	0.73
1:C1:1006:C:C6	1:C1:1007:C:H5	2.06	0.73
1:C1:1146:G:C8	1:C1:1635:A:C2	2.69	0.73
1:C1:292:U:O5'	1:C1:292:U:H6	1.72	0.73
1:C1:768:C:O2'	1:C1:769:A:H5'	1.87	0.73
1:C1:8:U:C5	1:C1:1140:G:O6	2.41	0.73
29:D1:1375:G:N3	29:D1:1407:A:H2	1.85	0.73
29:D1:1504:A:C4	29:D1:1505:C:C5	2.76	0.73
29:D1:164:A:N6	29:D1:165:A:C6	2.56	0.73
29:D1:2144:A:C2	29:D1:2281:A:C6	2.77	0.73
29:D1:20:A:O2'	29:D1:21:G:O5'	2.05	0.73
29:D1:2900:A:C2'	29:D1:2901:G:O5'	2.37	0.73
29:D1:3057:U:O2'	29:D1:3058:U:H4'	1.89	0.73
29:D1:3057:U:H5'	29:D1:3086:A:H61	1.54	0.73
29:D1:3321:C:O2'	29:D1:3322:A:C3'	2.35	0.73
29:D1:597:G:N1	29:D1:607:A:C2	2.57	0.73
29:D1:705:A:H4'	29:D1:706:A:OP1	1.87	0.73
1:C1:1197:C:H5'	1:C1:1198:G:OP2	1.89	0.73
1:C1:1348:A:N3	1:C1:1378:U:C6	2.56	0.73
29:B1:3218:A:H4'	29:B1:3220:G:H8	1.54	0.73
29:B1:3199:G:H3'	29:B1:3200:G:H8	1.53	0.73
29:D1:3200:G:C8	29:D1:3200:G:OP2	2.41	0.73
30:B2:42:A:H2	30:B2:47:C:C4	2.07	0.73
29:D1:198:A:H1'	29:D1:218:G:N3	2.04	0.73
29:B1:1276:U:N3	74:B1:3563:OHX:N3	2.37	0.73
29:D1:3314:A:H3'	34:DC:118:PHE:O	1.88	0.73
29:D1:2880:U:H2'	29:D1:2881:C:H5'	1.70	0.73
40:DI:161:LEU:O	40:DI:164:ILE:N	2.22	0.73
7:CF:110:HIS:HA	7:CF:111:VAL:CB	2.19	0.73
72:DL:38:SER:N	72:DL:68:GLN:HA	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CI:45:PHE:CB	10:CI:46:ALA:HA	2.17	0.73
34:DC:142:ALA:O	34:DC:144:ILE:N	2.21	0.73
38:DG:238:LYS:HA	38:DG:241:LYS:CB	2.19	0.73
74:D1:3471:OHX:N5	74:D1:3607:OHX:N1	2.36	0.73
47:BR:24:VAL:O	47:BR:27:LYS:N	2.22	0.73
3:CB:239:PRO:C	3:CB:241:ASP:H	1.91	0.73
1:A1:1006:C:H5''	1:A1:1007:C:OP2	1.89	0.72
1:A1:1758:U:H2'	1:A1:1759:C:C6	2.23	0.72
1:A1:556:A:C3'	1:A1:558:U:OP2	2.36	0.72
29:B1:1167:U:H5'	29:B1:1167:U:C6	2.23	0.72
29:B1:156:G:C8	29:B1:157:A:C1'	2.71	0.72
29:B1:2167:A:H3'	29:B1:2168:A:H8	1.52	0.72
29:B1:637:C:C2	29:B1:2361:A:C2	2.77	0.72
29:B1:2370:G:OP2	74:B1:3587:OHX:N1	2.21	0.72
29:B1:391:A:H4'	29:B1:391:A:OP1	1.89	0.72
29:B1:649:A:H2'	29:B1:650:C:H6	1.53	0.72
31:B3:104:A:H5'	31:B3:105:A:O5'	1.89	0.72
31:B3:2:A:C6	31:B3:3:A:C2	2.77	0.72
1:C1:129:U:OP1	1:C1:129:U:H4'	1.87	0.72
1:C1:1631:A:C2	1:C1:1632:C:H1'	2.24	0.72
1:C1:169:A:C5	1:C1:171:A:C6	2.77	0.72
1:C1:467:G:H5''	1:C1:468:A:OP2	1.88	0.72
29:D1:1224:C:O5'	29:D1:1224:C:H6	1.70	0.72
29:D1:3308:C:C5	29:D1:3309:G:N3	2.56	0.72
29:D1:748:U:H2'	29:D1:748:U:O2	1.85	0.72
29:D1:873:C:H4'	29:D1:1907:C:O2'	1.89	0.72
31:D3:58:G:H2'	31:D3:99:C:O2'	1.88	0.72
1:C1:644:C:N4	1:C1:691:C:H42	1.87	0.72
30:B2:77:G:O2'	30:B2:78:U:P	2.47	0.72
31:B3:69:U:N1	31:B3:70:G:H1'	2.03	0.72
31:B3:76:C:C4'	31:B3:77:A:OP1	2.37	0.72
1:A1:1712:A:H2'	1:A1:1713:G:C8	2.24	0.72
1:A1:1349:G:H4'	1:A1:1350:U:H5'	1.70	0.72
29:D1:624:G:C2	29:D1:625:G:C8	2.76	0.72
29:B1:3201:C:C2'	29:B1:3202:G:H5'	2.19	0.72
29:D1:3172:A:O2'	29:D1:3173:G:OP2	2.07	0.72
1:C1:1338:C:C1'	1:C1:1410:A:N3	2.52	0.72
1:C1:1388:A:N7	1:C1:1411:A:N6	2.36	0.72
1:A1:1330:G:H2'	1:A1:1331:A:C8	2.23	0.72
1:C1:1040:G:H1	1:C1:1079:U:H3	1.35	0.72
29:D1:1930:A:C8	29:D1:1932:A:O4'	2.42	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2540:A:H2'	29:B1:2541:U:C6	2.23	0.72
29:B1:2736:A:O3'	49:BT:72:VAL:CB	2.37	0.72
13:CL:71:GLN:O	13:CL:75:ASN:N	2.22	0.72
20:AS:37:ASN:CB	20:AS:38:ILE:HA	2.18	0.72
38:DG:187:GLU:O	38:DG:189:ILE:N	2.22	0.72
15:AN:102:ARG:C	15:AN:104:THR:H	1.92	0.72
29:D1:1003:A:C2	29:D1:1004:U:H1'	2.24	0.72
1:A1:401:A:O3'	1:A1:402:C:H4'	1.89	0.72
1:A1:551:G:C2	1:A1:552:G:C5	2.77	0.72
29:B1:1214:U:O2'	29:B1:1215:U:H5'	1.88	0.72
29:B1:1479:U:OP2	29:B1:1480:G:N2	2.21	0.72
29:B1:3123:A:N7	29:B1:3124:G:C8	2.58	0.72
29:B1:327:A:H2	29:B1:328:U:C5	2.05	0.72
29:B1:536:U:H1'	29:B1:537:A:OP2	1.88	0.72
29:B1:659:G:H2'	29:B1:660:A:N7	2.03	0.72
29:B1:693:A:H2'	29:B1:694:C:H6	1.54	0.72
31:B3:155:A:C2	31:B3:156:U:C2	2.77	0.72
1:C1:272:U:H3	1:C1:284:G:H1	0.77	0.72
29:D1:1212:A:H2'	29:D1:1213:G:C5'	2.12	0.72
29:D1:156:G:H1'	29:D1:157:A:OP1	1.90	0.72
29:D1:2696:A:H62	29:D1:2697:A:N6	1.87	0.72
29:D1:2854:U:O2'	29:D1:2855:U:H5'	1.89	0.72
29:D1:3101:G:H2'	29:D1:3102:G:C5'	2.17	0.72
29:D1:383:G:H3'	29:D1:384:A:C5'	2.16	0.72
29:D1:592:A:OP2	29:D1:592:A:H8	1.72	0.72
31:D3:17:A:H2'	31:D3:18:U:H6	1.53	0.72
29:B1:2701:U:O2'	29:B1:2705:A:C8	2.42	0.72
1:A1:62:A:C4'	1:A1:63:G:OP2	2.37	0.72
29:D1:2675:C:H41	29:D1:2676:A:H61	1.35	0.72
1:A1:1374:C:H3'	1:A1:1375:A:C8	2.24	0.72
29:B1:3256:G:H2'	29:B1:3256:G:N3	2.03	0.72
29:B1:3257:C:O2'	29:B1:3258:U:H5	1.72	0.72
29:B1:3198:U:C3'	29:B1:3199:G:C8	2.69	0.72
29:B1:3199:G:C3'	29:B1:3200:G:H8	2.02	0.72
29:D1:3189:G:H2'	29:D1:3190:C:C6	2.22	0.72
29:D1:3214:U:O3'	29:D1:3218:A:H5'	1.90	0.72
1:A1:643:G:C2	1:A1:692:C:N3	2.57	0.72
47:BR:66:ARG:C	47:BR:68:ALA:H	1.92	0.72
29:B1:908:G:C8	29:B1:925:A:N3	2.56	0.72
7:AF:128:CYS:H	7:AF:137:PHE:HA	1.54	0.72
1:A1:1139:A:C2'	1:A1:1140:G:O5'	2.33	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:33:U:O2	1:A1:468:A:C2	2.42	0.72
29:B1:1795:U:O3'	29:B1:1796:G:O4'	2.06	0.72
29:B1:2144:A:C2	29:B1:2281:A:C6	2.76	0.72
29:B1:2294:U:H5'	29:B1:2295:A:OP2	1.89	0.72
29:B1:2376:G:N1	29:B1:2377:G:N1	2.37	0.72
29:B1:2608:G:H2'	29:B1:2609:A:C8	2.25	0.72
29:B1:284:A:N1	29:B1:306:A:C8	2.57	0.72
29:B1:3333:G:C2	29:B1:3370:A:H4'	2.24	0.72
29:B1:511:G:C2	29:B1:579:G:N1	2.58	0.72
29:B1:528:U:H2'	29:B1:528:U:O2	1.87	0.72
29:B1:573:C:H2'	29:B1:574:U:C5	2.23	0.72
29:B1:836:A:H5'	29:B1:837:A:OP2	1.90	0.72
29:B1:938:C:H2'	29:B1:939:U:H5''	1.71	0.72
1:C1:148:A:H5''	1:C1:149:C:OP2	1.89	0.72
1:C1:1625:C:H2'	1:C1:1626:U:C6	2.24	0.72
1:C1:142:G:C4	1:C1:266:A:N6	2.57	0.72
29:D1:122:A:H2'	29:D1:123:A:C8	2.24	0.72
29:D1:1615:C:H2'	29:D1:1616:U:H6	1.54	0.72
29:D1:580:C:C2	29:D1:581:U:C5	2.77	0.72
29:D1:776:U:H5'	29:D1:777:U:H6	1.53	0.72
29:D1:945:C:H5''	29:D1:946:U:OP2	1.89	0.72
31:B3:69:U:H2'	31:B3:70:G:H4'	1.72	0.72
1:A1:64:U:O2	1:A1:64:U:H2'	1.87	0.72
1:C1:1711:C:H2'	1:C1:1712:A:C8	2.23	0.72
1:C1:1684:U:O4	1:C1:1721:A:C2	2.42	0.72
29:D1:2680:A:OP2	29:D1:2681:U:C4	2.42	0.72
1:A1:1235:C:O2'	1:A1:1236:A:H5'	1.89	0.72
29:B1:3242:G:H1	29:B1:3244:A:C2'	1.96	0.72
29:D1:391:A:OP1	29:D1:391:A:H4'	1.89	0.72
29:B1:1229:G:H2'	29:B1:1230:G:C8	2.25	0.72
29:B1:1256:G:O6	29:B1:1261:G:H5''	1.89	0.72
29:D1:3214:U:OP2	29:D1:3215:A:OP2	2.07	0.72
29:B1:1696:A:C2	29:B1:1697:A:C6	2.77	0.72
29:D1:1236:G:H3'	29:D1:1237:G:C5'	2.19	0.72
29:D1:1647:A:C2'	29:D1:1648:A:H5'	2.18	0.72
29:B1:1095:U:H2'	29:B1:1095:U:O2	1.87	0.72
29:B1:1623:G:C2	29:B1:1624:G:H1'	2.24	0.72
30:D2:88:G:C5	30:D2:89:G:N7	2.57	0.72
30:D2:90:U:C4	30:D2:91:G:C5	2.76	0.72
29:D1:2540:A:H2'	29:D1:2541:U:C6	2.24	0.72
29:D1:3271:G:N3	29:D1:3272:C:OP1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1913:A:N3	29:B1:2120:A:C8	2.56	0.72
29:B1:2561:A:H3'	29:B1:2561:A:OP1	1.89	0.72
74:B1:3459:OHX:N5	74:B1:3619:OHX:N2	2.37	0.72
34:DC:2:SER:O	34:DC:4:ARG:N	2.21	0.72
29:B1:1827:C:H2'	29:B1:1828:A:H8	1.54	0.72
41:DJ:37:GLY:HA3	41:DJ:86:HIS:H	1.53	0.72
1:A1:394:C:N4	1:A1:401:A:H62	1.85	0.72
1:A1:427:C:C6	1:A1:427:C:C5'	2.72	0.72
29:B1:952:A:H62	29:B1:1142:G:N2	1.87	0.72
29:B1:1199:C:O2	29:B1:1199:C:H2'	1.87	0.72
29:B1:1415:U:C2	29:B1:1416:C:C5	2.78	0.72
29:B1:2278:C:H2'	29:B1:2279:A:H5''	1.70	0.72
29:B1:2359:C:H2'	29:B1:2360:C:C6	2.25	0.72
29:B1:2612:U:H1'	29:B1:2803:A:C2	2.24	0.72
29:B1:3037:U:H2'	29:B1:3038:U:C6	2.25	0.72
29:B1:516:A:OP1	29:B1:517:G:OP1	2.07	0.72
29:B1:524:U:O2'	29:B1:525:C:H5'	1.89	0.72
1:C1:546:U:H2'	1:C1:547:U:H6	1.54	0.72
29:D1:1130:A:H2'	29:D1:1132:C:C5	2.24	0.72
29:D1:1140:G:H2'	29:D1:1141:C:H6	1.53	0.72
29:D1:1577:G:H2'	29:D1:1578:C:C6	2.24	0.72
29:D1:2267:C:H2'	29:D1:2268:U:O4'	1.89	0.72
29:D1:2696:A:C8	29:D1:2697:A:N7	2.58	0.72
29:D1:3001:C:O2'	29:D1:3002:C:H5'	1.88	0.72
29:D1:3085:G:H5'	29:D1:3331:U:OP1	1.89	0.72
29:D1:2254:U:C4	74:D1:3583:OHX:N6	2.58	0.72
29:D1:534:U:C5	29:D1:534:U:OP2	2.43	0.72
29:D1:819:U:H2'	29:D1:820:A:C8	2.24	0.72
1:C1:973:A:C4'	29:D1:847:A:C2	2.72	0.72
29:D1:995:U:O4	29:D1:2637:A:C4	2.43	0.72
31:D3:1:A:C2	31:D3:2:A:C4	2.78	0.72
1:C1:1676:U:H4'	1:C1:1677:C:OP2	1.88	0.72
1:A1:1686:C:H2'	1:A1:1687:U:C6	2.22	0.72
1:C1:1172:G:C6	1:C1:1173:C:N4	2.57	0.72
1:A1:1160:A:C4	1:A1:1161:C:C5	2.77	0.72
1:A1:1197:C:O2	1:A1:1197:C:H2'	1.87	0.72
1:A1:1346:A:H3'	1:A1:1347:U:H6	1.54	0.72
1:A1:1464:G:O2'	1:A1:1465:C:H5'	1.90	0.72
29:B1:3219:G:C8	29:B1:3257:C:C5'	2.69	0.72
29:D1:3204:C:H2'	29:D1:3205:G:OP1	1.87	0.72
29:D1:3215:A:P	29:D1:3218:A:H5''	2.29	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CN:54:GLY:HA3	15:CN:92:ASP:N	1.98	0.72
1:C1:1409:G:H5'	1:C1:1410:A:OP2	1.90	0.72
29:D1:3139:A:C8	29:D1:3139:A:H5'	2.25	0.72
29:B1:1625:A:H5''	29:B1:1626:U:H5''	1.72	0.72
1:A1:1333:C:C2	1:A1:1419:G:N2	2.58	0.72
29:B1:25:U:O2'	29:B1:26:A:H5'	1.90	0.72
29:D1:1912:U:C4	29:D1:1913:A:C2	2.76	0.72
29:B1:1354:G:H8	29:B1:1355:A:C6	2.07	0.72
29:B1:661:G:C4	29:B1:802:C:O4'	2.43	0.72
73:DM:14:LYS:O	73:DM:17:GLU:N	2.22	0.72
7:AF:129:ARG:O	7:AF:131:ILE:N	2.21	0.72
29:D1:1409:G:C2'	29:D1:1410:U:H5'	2.19	0.72
34:BC:76:VAL:HA	34:BC:325:LYS:CB	2.19	0.72
1:A1:1771:U:H2'	1:A1:1772:C:C6	2.23	0.72
1:A1:55:A:O2'	1:A1:56:U:P	2.47	0.72
29:B1:1376:C:C4	29:B1:1377:G:N7	2.57	0.72
29:B1:1525:G:H1'	29:B1:1829:G:N3	2.04	0.72
29:B1:2288:G:C4	29:B1:2289:U:C5	2.78	0.72
29:B1:2933:A:N6	29:B1:2934:A:N1	2.37	0.72
29:B1:2997:G:N3	29:B1:2998:U:H5'	2.03	0.72
29:B1:3299:A:O2'	29:B1:3300:U:OP1	2.08	0.72
29:B1:3344:A:OP2	29:B1:3344:A:H2'	1.89	0.72
29:B1:422:A:C1'	29:B1:423:A:C5'	2.65	0.72
29:B1:946:U:H2'	29:B1:947:G:H5'	1.71	0.72
37:BF:99:GLU:O	37:BF:102:ASN:N	2.23	0.72
1:C1:1099:U:C5	1:C1:1100:G:C6	2.77	0.72
1:C1:17:C:C2	1:C1:18:C:C5	2.76	0.72
1:C1:385:A:OP2	1:C1:385:A:H8	1.72	0.72
1:C1:400:A:H4'	1:C1:401:A:O5'	1.89	0.72
1:C1:43:A:H2'	1:C1:44:U:H5''	1.71	0.72
1:C1:518:A:C8	1:C1:519:C:H5''	2.24	0.72
1:C1:605:A:N7	1:C1:606:A:C6	2.57	0.72
29:D1:1528:G:O2'	29:D1:1529:A:H5'	1.89	0.72
29:D1:1857:C:O2'	29:D1:1858:A:O4'	2.07	0.72
29:D1:19:U:C4	29:D1:20:A:N6	2.56	0.72
29:D1:2423:U:H2'	29:D1:2424:A:C8	2.24	0.72
29:D1:3333:G:N2	29:D1:3371:G:C8	2.58	0.72
74:D1:3408:OHX:N6	74:D1:3582:OHX:N5	2.38	0.72
29:D1:704:U:H3'	29:D1:704:U:H6	1.52	0.72
29:D1:716:A:H2'	29:D1:717:C:C2'	2.18	0.72
31:D3:138:A:C2	31:D3:139:U:C2	2.78	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:646:C:C2'	1:A1:647:G:H5''	2.19	0.72
29:B1:2697:A:H2'	29:B1:2698:G:H8	1.53	0.72
31:B3:72:A:O2'	31:B3:73:U:OP2	2.08	0.72
31:B3:78:G:C6	31:B3:79:A:N6	2.57	0.72
1:C1:1378:U:C5'	1:C1:1379:C:H6	2.03	0.72
1:A1:1246:C:C5	1:A1:1247:U:C5	2.77	0.72
1:A1:1363:U:H2'	1:A1:1364:G:H1'	1.70	0.72
30:D2:55:A:H2	30:D2:56:A:C4	2.07	0.72
29:D1:221:A:O2'	29:D1:223:U:OP2	2.07	0.72
29:B1:1618:G:H4'	31:B3:129:C:H1'	1.72	0.72
29:B1:2772:C:H4'	29:B1:2772:C:OP1	1.89	0.72
29:D1:1232:C:C2	29:D1:1261:G:C6	2.76	0.72
29:B1:2513:U:O2'	29:B1:2514:U:O5'	2.08	0.72
29:D1:1949:G:H2'	29:D1:1950:U:C6	2.24	0.72
1:C1:922:G:O2'	1:C1:923:A:H8	1.73	0.72
17:CP:102:VAL:HA	17:CP:127:VAL:CB	2.19	0.72
29:B1:1493:G:P	29:B1:1493:G:H21	2.12	0.72
29:B1:2775:U:O2'	29:B1:2776:C:P	2.48	0.72
29:B1:2844:C:H42	29:B1:2898:G:H22	1.38	0.72
29:B1:3113:A:C2	29:B1:3122:A:C4	2.78	0.72
29:B1:3308:C:H6	29:B1:3308:C:H3'	1.54	0.72
29:B1:712:G:N2	29:B1:752:C:O3'	2.23	0.72
1:C1:1632:C:HO2'	1:C1:1633:A:H8	1.36	0.72
1:C1:537:G:H2'	1:C1:537:G:N3	2.04	0.72
29:D1:65:A:H3'	29:D1:111:C:H41	1.54	0.72
29:D1:1450:G:C8	29:D1:1450:G:O5'	2.40	0.72
29:D1:2285:C:H5	29:D1:2286:U:N3	1.86	0.72
29:D1:2290:C:O2'	29:D1:2291:A:O4'	2.06	0.72
29:D1:2417:U:H5	29:D1:2606:G:N7	1.88	0.72
29:D1:3295:A:O2'	29:D1:3296:A:H5'	1.90	0.72
29:D1:501:A:C6	29:D1:502:U:C4	2.78	0.72
29:D1:556:U:H2'	29:D1:557:A:O4'	1.89	0.72
31:D3:10:A:H2'	31:D3:11:C:H6	1.54	0.72
31:D3:78:G:O6	31:D3:79:A:N6	2.23	0.72
1:A1:221:A:C4	1:A1:833:U:H5	2.07	0.72
29:B1:2696:A:H62	29:B1:2697:A:N6	1.88	0.72
29:B1:2702:A:C8	29:B1:2704:A:C6	2.76	0.72
36:BE:28:THR:C	36:BE:30:TYR:N	2.43	0.72
41:DJ:177:ASP:HA	41:DJ:178:ARG:C	2.09	0.72
29:B1:2680:A:OP2	29:B1:2681:U:C4	2.42	0.72
29:B1:2674:A:C8	42:BK:108:GLU:N	2.57	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1485:C:H3'	1:C1:1486:G:H5''	1.71	0.72
1:A1:1201:G:C4	1:A1:1202:A:O4'	2.42	0.72
29:B1:3207:U:C5	29:B1:3209:A:C2	2.77	0.72
29:D1:1627:U:H5	29:D1:1628:C:C4	2.07	0.72
29:B1:1079:A:H2'	29:B1:1080:A:H8	1.55	0.72
29:D1:3273:A:N1	29:D1:3274:A:C5	2.58	0.72
29:B1:834:U:H6	29:B1:834:U:C5'	2.02	0.72
29:D1:2872:A:C4'	29:D1:2873:U:OP1	2.37	0.72
29:D1:836:A:OP2	29:D1:836:A:H8	1.73	0.72
1:C1:791:A:H2'	1:C1:792:U:C6	2.24	0.72
74:A1:1913:OHX:N2	74:A1:1986:OHX:N4	2.38	0.72
10:AI:21:ASP:HA	10:AI:25:LEU:CB	2.19	0.72
72:DL:46:ILE:HA	72:DL:49:ALA:HB2	1.71	0.72
21:CT:81:LEU:HA	21:CT:91:LEU:HA	1.70	0.72
1:C1:1786:G:H2'	1:C1:1787:C:C6	2.24	0.72
1:A1:1673:G:C2'	1:A1:1674:C:H5'	2.18	0.72
1:A1:34:G:C6	1:A1:475:A:N6	2.57	0.72
1:A1:553:G:H3'	1:A1:554:C:H5''	1.71	0.72
29:B1:112:U:O2'	29:B1:113:C:O5'	2.06	0.72
29:B1:1145:G:C5	29:B1:1146:C:C5	2.77	0.72
29:B1:1563:C:H2'	29:B1:1564:U:C6	2.25	0.72
29:B1:2150:G:C2'	29:B1:2151:C:H5''	2.20	0.72
29:B1:2359:C:H2'	29:B1:2360:C:H6	1.54	0.72
29:B1:3328:G:N2	29:B1:3329:U:C5	2.58	0.72
29:B1:760:G:H2'	29:B1:761:A:H8	1.54	0.72
31:B3:114:G:OP2	31:B3:114:G:H8	1.72	0.72
1:C1:1044:U:O2	1:C1:1044:U:H2'	1.88	0.72
1:C1:1109:G:N3	1:C1:1110:G:C8	2.57	0.72
1:C1:1139:A:C2'	1:C1:1140:G:O5'	2.37	0.72
1:C1:480:G:O2'	1:C1:481:A:H5'	1.89	0.72
1:C1:66:U:H3	1:C1:71:A:H62	1.33	0.72
29:D1:115:A:C5	29:D1:116:A:N1	2.58	0.72
29:D1:1471:U:H2'	29:D1:1472:U:C6	2.25	0.72
29:D1:156:G:C8	29:D1:157:A:C1'	2.73	0.72
29:D1:1903:U:C2	29:D1:1905:G:H5''	2.23	0.72
29:D1:2112:U:O2	29:D1:2113:A:N1	2.22	0.72
29:D1:2379:U:H2'	29:D1:2380:U:C6	2.25	0.72
29:D1:264:G:C5	29:D1:265:A:N6	2.57	0.72
29:D1:3055:U:O2'	29:D1:3056:U:H3'	1.90	0.72
29:D1:3320:A:OP2	29:D1:3320:A:H3'	1.90	0.72
29:D1:3328:G:H1	29:D1:3375:A:H62	1.34	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DO:85:THR:HA	44:DO:87:GLN:H	1.53	0.72
1:A1:646:C:H2'	1:A1:647:G:H5''	1.72	0.72
29:B1:2640:A:H2'	29:B1:2641:U:H6	1.55	0.72
29:B1:2761:G:H1	29:B1:2795:U:H3'	1.55	0.72
29:B1:2797:C:H3'	29:B1:2798:C:C5'	2.19	0.72
30:B2:77:G:H5''	37:BF:107:ALA:HA	1.71	0.72
1:A1:114:C:C5	1:A1:248:U:O4	2.43	0.72
29:B1:3202:G:C2	29:B1:3203:U:N3	2.57	0.72
29:D1:3383:G:C2	29:D1:3384:U:C5	2.78	0.72
29:D1:2520:A:N3	29:D1:2521:U:N3	2.37	0.72
29:B1:338:A:H4'	29:B1:338:A:OP2	1.89	0.72
29:D1:3141:A:H5'	29:D1:3143:C:O2	1.88	0.72
1:A1:1753:A:N1	1:A1:1754:A:C6	2.58	0.72
30:B2:121:U:O3'	36:BE:266:ALA:HB3	1.89	0.72
29:B1:331:G:O2'	29:B1:332:C:OP1	2.08	0.72
1:A1:1663:G:C5	1:A1:1664:C:C5	2.78	0.72
29:B1:2545:C:H2'	29:B1:2546:C:H6	1.54	0.72
29:D1:2971:A:H3'	29:D1:2971:A:OP1	1.89	0.72
29:D1:1705:U:O2'	29:D1:1706:C:O5'	2.08	0.72
1:C1:730:G:H2'	1:C1:731:C:H5'	1.71	0.72
72:DL:38:SER:H	72:DL:68:GLN:HA	1.54	0.72
5:CD:133:VAL:O	5:CD:136:ALA:HB3	1.89	0.72
35:BD:273:GLY:O	35:BD:275:THR:N	2.22	0.72
29:D1:255:A:H2'	29:D1:256:G:C8	2.25	0.72
1:A1:1760:G:C5	1:A1:1761:U:H5	2.07	0.72
1:A1:560:U:H2'	1:A1:561:G:H8	1.55	0.72
29:B1:1109:U:H5''	29:B1:1110:U:OP2	1.89	0.72
29:B1:2155:G:H2'	29:B1:2156:C:C6	2.24	0.72
29:B1:2281:A:O2'	29:B1:2282:U:H5''	1.90	0.72
29:B1:2655:U:H4'	29:B1:2656:A:O5'	1.90	0.72
29:B1:284:A:N6	29:B1:2785:A:H4'	2.05	0.72
29:B1:2961:G:C6	29:B1:2962:U:C4	2.76	0.72
29:B1:3303:G:H1'	29:B1:3304:U:O5'	1.90	0.72
29:B1:354:U:H2'	29:B1:354:U:O2	1.90	0.72
29:B1:392:G:C6	29:B1:393:U:C5	2.77	0.72
29:B1:886:C:O2'	29:B1:887:G:H5'	1.90	0.72
1:C1:1759:C:H2'	1:C1:1760:G:C8	2.25	0.72
1:C1:556:A:H3'	1:C1:558:U:OP2	1.89	0.72
1:C1:985:G:C4	1:C1:986:G:N7	2.58	0.72
29:D1:1138:U:H2'	29:D1:1139:G:H5''	1.70	0.72
29:D1:1454:A:O2'	29:D1:1455:U:OP1	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2192:C:H2'	29:D1:2193:U:H5'	1.71	0.72
29:D1:2287:C:N3	29:D1:2298:U:O2	2.23	0.72
29:D1:2356:A:C2	29:D1:2357:A:C4	2.78	0.72
29:D1:2816:G:H4'	29:D1:2817:A:C5'	2.19	0.72
29:D1:2912:G:C6	29:D1:2913:C:N3	2.58	0.72
29:D1:3078:U:H1'	29:D1:3079:U:OP2	1.90	0.72
29:D1:882:A:H2'	29:D1:883:A:H5''	1.72	0.72
31:D3:141:C:H2'	31:D3:142:C:H6	1.53	0.72
1:C1:1166:A:C6	1:C1:1167:G:C8	2.77	0.72
1:C1:1348:A:C2'	1:C1:1349:G:H5''	2.19	0.72
1:C1:1617:U:O2'	1:C1:1618:C:H5''	1.89	0.72
1:A1:1244:A:C2'	1:A1:1244:A:N3	2.51	0.72
1:A1:1515:A:H2'	1:A1:1516:A:C4'	2.20	0.72
29:D1:3190:C:O2	29:D1:3190:C:H2'	1.88	0.72
30:D2:27:A:C2	30:D2:28:C:C2	2.78	0.72
1:C1:883:C:H2'	1:C1:883:C:O2	1.90	0.72
29:B1:3383:G:C2	29:B1:3384:U:C5	2.78	0.72
35:DD:148:ILE:HA	35:DD:149:PRO:C	2.09	0.72
1:C1:916:U:H5	1:C1:917:U:C4	2.08	0.72
1:C1:1280:C:H4'	15:CN:70:THR:CB	2.19	0.72
29:B1:3271:G:N3	29:B1:3272:C:OP1	2.23	0.72
1:C1:375:U:O2	1:C1:375:U:H2'	1.88	0.72
45:BP:57:PHE:N	45:BP:60:LYS:CB	2.53	0.72
45:DP:57:PHE:O	45:DP:58:LEU:CB	2.37	0.72
21:CT:91:LEU:CB	21:CT:101:GLN:O	2.38	0.72
1:A1:427:C:H5'	1:A1:427:C:H6	1.52	0.72
29:B1:1159:A:O2'	29:B1:1160:C:OP2	2.08	0.72
29:B1:1875:G:C5	29:B1:1876:U:C5	2.77	0.72
29:B1:2150:G:H2'	29:B1:2151:C:H5''	1.70	0.72
29:B1:53:G:H2'	29:B1:54:C:H6	1.54	0.72
29:B1:680:G:C6	29:B1:681:U:O4	2.43	0.72
29:B1:705:A:H4'	29:B1:706:A:OP1	1.90	0.72
29:B1:761:A:H3'	29:B1:762:U:C5'	2.20	0.72
35:BD:7:THR:N	35:BD:19:ALA:HA	2.03	0.72
1:C1:1099:U:OP1	1:C1:1099:U:C4'	2.36	0.72
1:C1:591:A:H2'	1:C1:592:A:H8	1.55	0.72
1:C1:611:U:H5	1:C1:612:U:C5	2.08	0.72
29:D1:1540:U:H2'	29:D1:1540:U:O2	1.88	0.72
29:D1:2114:C:H4'	29:D1:2116:G:C4	2.24	0.72
29:D1:2278:C:H2'	29:D1:2279:A:H5''	1.71	0.72
29:D1:2363:A:C2	29:D1:2376:G:C5	2.78	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2716:U:O2	29:D1:2716:U:H2'	1.88	0.72
29:D1:3308:C:H6	29:D1:3308:C:H3'	1.54	0.72
29:D1:3316:A:H61	29:D1:3388:C:H42	1.35	0.72
29:D1:511:G:C2	29:D1:579:G:N1	2.57	0.72
29:D1:592:A:C2'	29:D1:593:C:O2'	2.38	0.72
29:D1:609:G:C4'	29:D1:610:G:OP1	2.38	0.72
29:D1:594:U:C6	29:D1:609:G:N2	2.57	0.72
38:DG:75:TYR:CB	38:DG:76:TYR:HA	2.19	0.72
1:A1:651:G:O2'	1:A1:652:G:H5''	1.89	0.72
29:B1:2699:G:H2'	29:B1:2700:G:O4'	1.90	0.72
29:B1:2702:A:H8	29:B1:2704:A:N6	1.83	0.72
1:A1:272:U:H3	1:A1:284:G:H1	0.77	0.72
1:A1:272:U:H4'	1:A1:272:U:OP1	1.87	0.72
29:D1:2682:C:OP1	42:DK:51:ARG:N	2.22	0.72
1:C1:1364:G:C5	1:C1:1365:C:C5	2.77	0.72
1:C1:1385:G:C2	1:C1:1386:G:C8	2.78	0.72
1:C1:1558:U:H6	1:C1:1558:U:H3'	1.55	0.72
1:C1:1613:U:H3	1:C1:1614:A:H8	1.35	0.72
29:D1:3205:G:N2	43:DN:89:ALA:HB1	2.05	0.72
29:B1:849:C:O2'	29:B1:850:U:H5'	1.89	0.72
1:A1:315:A:C5	1:A1:350:U:H5	2.07	0.72
1:C1:1657:U:C4	74:C1:1955:OHX:N2	2.58	0.72
1:C1:1663:G:C5	1:C1:1664:C:C5	2.77	0.72
13:AL:71:GLN:O	13:AL:75:ASN:N	2.23	0.72
1:C1:930:A:H5''	1:C1:931:C:OP2	1.88	0.72
46:DQ:47:TYR:C	46:DQ:49:GLU:H	1.92	0.72
1:C1:1358:G:C6	1:C1:1359:C:N4	2.58	0.72
29:B1:2766:U:H2'	29:B1:2767:U:C6	2.25	0.72
29:D1:898:U:C4	29:D1:899:U:C5	2.78	0.72
41:BJ:155:ALA:O	41:BJ:158:LYS:N	2.21	0.72
42:BK:142:LYS:O	42:BK:143:ARG:O	2.08	0.72
15:CN:102:ARG:C	15:CN:104:THR:H	1.93	0.72
47:DR:150:VAL:CB	47:DR:151:ARG:HA	2.19	0.72
1:A1:1003:A:C8	1:A1:1005:A:C6	2.78	0.72
1:A1:1119:G:H2'	1:A1:1120:U:C6	2.23	0.72
1:A1:379:U:OP2	1:A1:380:U:OP2	2.08	0.72
1:A1:518:A:H61	1:A1:535:A:C1'	2.03	0.72
1:A1:521:A:H3'	1:A1:523:G:C8	2.25	0.72
1:A1:551:G:H5''	1:A1:552:G:OP2	1.90	0.72
1:A1:622:A:H4'	1:A1:623:A:OP1	1.82	0.72
29:B1:1319:G:HO2'	29:B1:1320:C:H6	1.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1448:U:O2'	29:B1:1449:A:H5'	1.90	0.72
29:B1:157:A:O2'	29:B1:158:G:C4	2.39	0.72
29:B1:1686:U:H4'	29:B1:1687:U:OP2	1.86	0.72
29:B1:1900:A:N3	29:B1:1906:G:C8	2.57	0.72
29:B1:2145:A:C2	29:B1:2146:C:C5	2.78	0.72
29:B1:3096:C:C2	29:B1:3097:C:C5	2.78	0.72
29:B1:722:G:O2'	29:B1:723:U:OP2	2.07	0.72
29:B1:891:G:O2'	29:B1:892:U:H5'	1.90	0.72
1:C1:523:G:C4	1:C1:524:U:O4	2.43	0.72
29:D1:1204:A:H62	29:D1:1300:G:H21	1.38	0.72
29:D1:1777:U:H2'	29:D1:1778:G:H8	1.55	0.72
29:D1:1795:U:O3'	29:D1:1796:G:O4'	2.08	0.72
29:D1:2249:G:O4'	29:D1:2272:G:C8	2.42	0.72
29:D1:1452:A:H1'	29:D1:2347:U:C5'	2.20	0.72
29:D1:2370:G:C4	29:D1:2371:G:C8	2.78	0.72
29:D1:3035:A:C5	29:D1:3036:G:N7	2.58	0.72
29:D1:3048:A:H62	29:D1:3090:U:H3'	1.55	0.72
29:D1:3299:A:C2	29:D1:3300:U:C5	2.78	0.72
29:D1:563:U:C2'	29:D1:564:G:H4'	2.19	0.72
29:D1:680:G:H2'	29:D1:681:U:C6	2.25	0.72
29:D1:826:G:H2'	29:D1:827:A:C8	2.24	0.72
29:D1:891:G:O2'	29:D1:892:U:H5'	1.90	0.72
29:B1:1054:A:N6	29:B1:1055:A:C2	2.57	0.72
30:B2:67:G:N1	30:B2:68:C:C2	2.57	0.72
1:A1:258:C:O2'	1:A1:259:U:C6	2.42	0.72
1:C1:1678:A:H2	1:C1:1725:U:N3	1.87	0.72
1:C1:328:A:N6	1:C1:341:A:N6	2.37	0.72
1:C1:1193:A:H4'	1:C1:1194:A:OP2	1.89	0.72
1:C1:1235:C:O2'	1:C1:1236:A:H5'	1.89	0.72
1:C1:1468:U:O2'	1:C1:1469:A:O4'	2.08	0.72
1:A1:1188:G:H2'	1:A1:1189:A:H8	1.55	0.72
1:A1:1364:G:C5	1:A1:1365:C:C5	2.78	0.72
29:D1:3209:A:H3'	29:D1:3210:A:C8	2.25	0.72
29:B1:3257:C:OP2	29:B1:3257:C:H6	1.72	0.72
29:B1:3205:G:N2	43:BN:89:ALA:HB1	2.05	0.72
29:B1:1268:G:H22	29:B1:1272:C:H42	1.38	0.72
29:D1:3228:C:H2'	29:D1:3229:G:H8	1.55	0.72
2:AA:186:GLY:CA	2:AA:187:ALA:HB2	2.16	0.72
1:C1:1339:C:O2'	1:C1:1340:U:H5'	1.89	0.72
1:C1:921:U:HO2'	1:C1:922:G:H5'	1.55	0.72
29:B1:1927:G:N3	29:B1:1927:G:H3'	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:836:A:OP2	29:D1:836:A:C8	2.43	0.72
29:D1:3178:A:O2'	29:D1:3179:U:OP1	2.06	0.72
29:D1:1740:U:C2'	29:D1:1741:A:H5'	2.19	0.72
29:D1:1747:G:H2'	29:D1:1748:G:H5'	1.70	0.72
29:B1:2602:G:C4	29:B1:2603:G:C8	2.78	0.72
29:D1:2880:U:O2'	29:D1:2881:C:H5'	1.89	0.72
29:B1:1915:A:H2'	29:B1:1916:U:C6	2.25	0.72
29:B1:736:A:H2'	29:B1:737:G:C8	2.25	0.72
29:D1:1725:C:H2'	29:D1:1726:C:C6	2.25	0.72
37:DF:99:GLU:O	37:DF:102:ASN:N	2.23	0.72
13:AL:121:ALA:HB3	13:AL:124:GLY:HA3	1.72	0.72
1:A1:104:A:H5'	1:A1:105:A:OP2	1.90	0.71
1:A1:1073:G:C6	1:A1:1074:G:C6	2.78	0.71
1:A1:1625:C:H2'	1:A1:1626:U:C6	2.25	0.71
1:A1:365:G:C6	1:A1:377:G:C6	2.78	0.71
1:A1:606:A:C5	1:A1:608:U:C5	2.77	0.71
29:B1:2267:C:H2'	29:B1:2268:U:O4'	1.90	0.71
29:B1:2301:U:H2'	29:B1:2302:G:H8	1.55	0.71
29:B1:2357:A:N1	29:B1:2983:C:H5	1.87	0.71
29:B1:422:A:H4'	29:B1:423:A:OP2	1.90	0.71
29:D1:11:A:N1	31:D3:148:G:C6	2.58	0.71
29:D1:2997:G:H1'	29:D1:2998:U:C5'	2.19	0.71
29:D1:327:A:C2	29:D1:328:U:C4	2.75	0.71
74:D1:3502:OHX:N4	54:DY:20:GLY:HA2	2.04	0.71
29:D1:562:C:O2'	29:D1:563:U:H5'	1.90	0.71
29:D1:722:G:N2	29:D1:749:C:C6	2.58	0.71
29:D1:722:G:N1	29:D1:748:U:N3	2.37	0.71
29:D1:761:A:H3'	29:D1:762:U:C5'	2.20	0.71
31:D3:123:G:C6	31:D3:131:A:N6	2.58	0.71
31:D3:40:A:N3	31:D3:41:A:C8	2.58	0.71
1:A1:826:U:H2'	1:A1:827:C:C6	2.25	0.71
29:B1:3219:G:C2	29:B1:3258:U:OP2	2.43	0.71
29:D1:190:U:H5'	29:D1:191:U:OP1	1.90	0.71
29:D1:213:A:H61	29:D1:227:G:C2'	2.02	0.71
29:D1:392:G:C2	29:D1:393:U:C6	2.78	0.71
29:D1:2513:U:H1'	29:D1:2514:U:H2'	1.72	0.71
29:D1:2592:G:O6	74:D1:3463:OHX:N4	2.22	0.71
1:A1:1315:U:H5''	1:A1:1329:A:N3	2.04	0.71
30:B2:2:G:H2'	30:B2:3:U:H6	1.54	0.71
31:D3:155:A:C2	31:D3:156:U:C2	2.78	0.71
1:C1:1656:U:H5''	1:C1:1657:U:O5'	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AM:126:GLU:O	14:AM:128:GLY:N	2.22	0.71
1:C1:776:G:C2	1:C1:785:U:O2	2.43	0.71
72:DL:77:ALA:O	72:DL:79:SER:N	2.23	0.71
72:DL:23:GLY:O	72:DL:27:ALA:HB3	1.89	0.71
29:B1:1123:U:H2'	29:B1:1124:U:O4'	1.90	0.71
29:D1:3165:A:C2'	29:D1:3166:C:H5'	2.20	0.71
1:A1:36:C:H2'	1:A1:37:U:C6	2.25	0.71
1:A1:400:A:C4'	1:A1:401:A:H5'	2.18	0.71
29:B1:1167:U:O3'	38:BG:211:SER:O	2.08	0.71
29:B1:144:A:H2'	29:B1:145:G:O4'	1.89	0.71
29:B1:2853:A:C6	29:B1:2854:U:N3	2.58	0.71
29:B1:3012:A:N1	29:B1:3043:C:C2	2.58	0.71
29:B1:3316:A:O4'	29:B1:3317:U:OP2	2.08	0.71
29:B1:360:G:H2'	29:B1:361:A:C8	2.26	0.71
29:B1:354:U:OP2	29:B1:364:G:N1	2.22	0.71
29:B1:716:A:H2'	29:B1:717:C:C3'	2.20	0.71
1:C1:1003:A:C8	1:C1:1005:A:C6	2.78	0.71
1:C1:1149:G:H4'	1:C1:1150:G:OP1	1.89	0.71
1:C1:138:A:N6	1:C1:142:G:H1'	2.04	0.71
1:C1:172:C:HO2'	1:C1:173:A:H8	1.33	0.71
29:D1:1057:A:C5	29:D1:1058:U:C5	2.79	0.71
29:D1:1130:A:O2'	29:D1:1131:G:H3'	1.89	0.71
29:D1:1563:C:H2'	29:D1:1564:U:C6	2.25	0.71
29:D1:2145:A:C2	29:D1:2146:C:C5	2.78	0.71
29:D1:2141:U:N3	29:D1:2956:A:C2	2.58	0.71
29:D1:3000:A:H2'	29:D1:3001:C:H6	1.54	0.71
29:D1:3121:U:H4'	29:D1:3122:A:OP1	1.90	0.71
29:D1:3297:U:C2	29:D1:3298:C:C6	2.77	0.71
29:D1:3301:U:H2'	29:D1:3302:U:C5	2.25	0.71
29:D1:3316:A:C4'	29:D1:3317:U:OP2	2.37	0.71
29:D1:548:G:C4	29:D1:549:U:H1'	2.25	0.71
34:DC:51:ALA:CB	34:DC:79:VAL:HA	2.19	0.71
38:DG:75:TYR:CB	38:DG:76:TYR:CA	2.68	0.71
1:A1:830:U:H2'	1:A1:830:U:O2	1.90	0.71
1:C1:827:C:C2	1:C1:846:G:C6	2.76	0.71
29:B1:2761:G:N2	29:B1:2795:U:C2	2.58	0.71
29:B1:2628:A:H1'	29:B1:2798:C:C5	2.25	0.71
30:B2:14:U:O4'	30:B2:14:U:OP2	2.07	0.71
30:B2:9:C:C5	30:B2:10:C:O2	2.43	0.71
30:D2:64:A:N1	30:D2:111:U:C4	2.58	0.71
30:D2:75:G:P	74:D2:201:OHX:N1	2.63	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2678:A:H8	29:D1:2679:A:N3	1.87	0.71
1:A1:750:U:H2'	1:A1:751:G:H5'	1.72	0.71
1:C1:1379:C:C3'	1:C1:1380:U:H5'	2.21	0.71
1:C1:1459:C:H4'	1:C1:1460:A:OP1	1.87	0.71
36:DE:78:ALA:HB1	36:DE:105:ILE:CB	2.19	0.71
29:D1:132:C:O2	29:D1:132:C:C2'	2.38	0.71
11:CJ:93:HIS:CB	11:CJ:94:GLN:CA	2.68	0.71
29:D1:1350:A:H5'	29:D1:1351:U:C5	2.23	0.71
6:AE:66:ASP:C	6:AE:68:LYS:N	2.44	0.71
20:AS:24:CYS:CB	74:AS:101:OHX:N2	2.53	0.71
21:AT:81:LEU:HA	21:AT:91:LEU:HA	1.70	0.71
29:D1:2545:C:H2'	29:D1:2546:C:H6	1.54	0.71
47:DR:43:PRO:O	47:DR:45:ASN:N	2.23	0.71
1:C1:1358:G:H2'	1:C1:1358:G:N3	2.02	0.71
48:DS:18:GLY:O	48:DS:20:ARG:N	2.22	0.71
1:A1:1109:G:H2'	1:A1:1110:G:H5'	1.71	0.71
1:A1:1109:G:O6	1:A1:1136:U:O4	2.08	0.71
1:A1:296:U:H2'	1:A1:297:U:C6	2.25	0.71
1:A1:404:G:H2'	1:A1:405:C:C6	2.25	0.71
29:B1:1213:G:H8	29:B1:1213:G:C5'	2.03	0.71
29:B1:1317:A:C8	29:B1:1319:G:N7	2.59	0.71
29:B1:1158:A:O2'	29:B1:1330:A:C2	2.44	0.71
29:B1:1375:G:N3	29:B1:1407:A:H2	1.87	0.71
29:B1:1495:U:C5'	29:B1:1496:C:C5	2.72	0.71
29:B1:2223:A:O2'	29:B1:2224:A:C8	2.29	0.71
29:B1:3302:U:C3'	29:B1:3303:G:H5''	2.19	0.71
29:B1:3364:C:O2'	29:B1:3365:U:H5'	1.90	0.71
29:B1:3390:G:C6	29:B1:3391:A:C5	2.78	0.71
29:B1:596:C:H5'	29:B1:597:G:OP1	1.91	0.71
29:B1:718:G:H4'	29:B1:719:U:C5'	2.19	0.71
29:B1:952:A:N3	29:B1:1114:U:H4'	2.05	0.71
31:B3:103:G:C6	31:B3:105:A:C6	2.78	0.71
1:C1:1109:G:H2'	1:C1:1110:G:H5'	1.72	0.71
1:C1:389:G:H2'	1:C1:390:G:H8	1.55	0.71
1:C1:425:A:H8	1:C1:425:A:H5'	1.54	0.71
29:D1:1167:U:H5'	29:D1:1167:U:H6	1.54	0.71
29:D1:2168:A:C2	29:D1:2170:U:C1'	2.73	0.71
29:D1:2379:U:H2'	29:D1:2380:U:H6	1.53	0.71
29:D1:2987:A:C4	29:D1:2988:C:C5	2.78	0.71
29:D1:3118:C:H2'	29:D1:3119:U:C6	2.25	0.71
29:D1:524:U:O2'	29:D1:525:C:H5'	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:591:G:N2	29:D1:592:A:N9	2.37	0.71
29:D1:951:A:N3	29:D1:1369:A:C2	2.57	0.71
31:D3:129:C:C2	31:D3:130:C:C5	2.78	0.71
1:C1:830:U:HO2'	1:C1:831:U:H6	1.36	0.71
29:B1:2703:A:H3'	29:B1:2704:A:C5'	2.21	0.71
1:A1:183:U:O2'	1:A1:184:C:H5''	1.90	0.71
1:A1:76:A:H1'	1:A1:77:U:C5	2.25	0.71
1:A1:251:A:H2'	1:A1:252:U:H5'	1.73	0.71
1:C1:1594:G:O6	1:C1:1595:U:N3	2.23	0.71
1:A1:1385:G:N3	1:A1:1386:G:C8	2.58	0.71
29:D1:199:A:C6	29:D1:219:A:C6	2.79	0.71
4:AC:67:ASN:O	4:AC:71:LEU:CB	2.38	0.71
29:B1:3225:C:N4	29:B1:3261:C:N4	2.38	0.71
29:B1:132:C:C2'	29:B1:132:C:O2	2.38	0.71
1:A1:314:C:N3	1:A1:354:C:N4	2.36	0.71
1:C1:1579:U:C4	1:C1:1580:C:N4	2.58	0.71
29:B1:2602:G:H2'	29:B1:2603:G:H8	1.54	0.71
44:BO:78:GLY:HA3	44:BO:79:ALA:HB2	1.73	0.71
29:B1:1539:A:N6	29:B1:1583:A:C8	2.58	0.71
29:D1:1002:A:O2'	29:D1:1003:A:H5'	1.90	0.71
34:DC:85:VAL:O	34:DC:87:VAL:N	2.22	0.71
33:DB:229:ALA:O	33:DB:231:SER:N	2.24	0.71
1:C1:1622:G:H3'	1:C1:1623:C:H6	1.55	0.71
29:B1:3165:A:C2'	29:B1:3166:C:H5'	2.21	0.71
41:DJ:65:LEU:O	41:DJ:68:ALA:HB3	1.90	0.71
40:DI:86:TYR:CB	40:DI:87:LYS:HA	2.19	0.71
1:A1:1008:G:N2	1:A1:1009:U:H1'	2.04	0.71
1:A1:872:G:H5'	1:A1:873:U:OP2	1.89	0.71
29:B1:1313:G:C4	29:B1:1314:C:C5	2.78	0.71
29:B1:1454:A:O2'	29:B1:1455:U:OP1	2.05	0.71
29:B1:1777:U:H2'	29:B1:1778:G:H8	1.54	0.71
29:B1:2284:C:H2'	29:B1:2285:C:O2	1.90	0.71
29:B1:648:C:C5	29:B1:2375:G:O5'	2.42	0.71
29:B1:3152:U:H4'	29:B1:3153:U:OP2	1.90	0.71
1:C1:1764:C:H5'	1:C1:1764:C:C6	2.25	0.71
1:C1:25:C:C6	1:C1:25:C:H3'	2.25	0.71
1:C1:356:G:C6	1:C1:357:G:N7	2.58	0.71
1:C1:479:C:H3'	1:C1:480:G:C8	2.26	0.71
29:D1:1220:U:P	29:D1:1222:G:O2'	2.49	0.71
29:D1:1399:A:H2'	29:D1:1399:A:N3	2.04	0.71
29:D1:1495:U:C5'	29:D1:1496:C:C5	2.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2628:A:H1'	29:D1:2798:C:C5	2.24	0.71
29:D1:2655:U:H4'	29:D1:2656:A:O5'	1.86	0.71
29:D1:3296:A:C2	29:D1:3297:U:H1'	2.25	0.71
29:D1:517:G:P	29:D1:517:G:H3'	2.31	0.71
29:D1:557:A:H3'	29:D1:557:A:C8	2.24	0.71
29:D1:3086:A:O3'	34:DC:365:PHE:O	2.08	0.71
37:DF:152:THR:HA	37:DF:156:LYS:H	1.55	0.71
1:C1:651:G:O2'	1:C1:652:G:H5''	1.90	0.71
30:D2:12:U:OP2	30:D2:68:C:H4'	1.90	0.71
1:C1:1713:G:H2'	1:C1:1713:G:N3	2.05	0.71
1:C1:336:G:H4'	7:CF:132:SER:HA	1.72	0.71
29:B1:2676:A:C2	29:B1:2680:A:C6	2.78	0.71
1:A1:1711:C:H2'	1:A1:1712:A:C8	2.25	0.71
1:C1:1356:U:H2'	1:C1:1357:A:C8	2.25	0.71
1:C1:1558:U:C6	1:C1:1559:A:C2	2.78	0.71
74:C1:1912:OHX:N1	74:C1:2001:OHX:N1	2.37	0.71
1:A1:1515:A:H2'	1:A1:1516:A:H5''	1.72	0.71
37:DF:21:THR:HA	37:DF:112:THR:N	2.04	0.71
30:B2:4:U:H2'	30:B2:5:G:C8	2.25	0.71
29:D1:1013:G:H3'	29:D1:1014:U:H4'	1.73	0.71
29:D1:1930:A:H4'	29:D1:1931:U:OP1	1.88	0.71
29:D1:2581:U:H5''	74:D1:3567:OHX:N3	2.06	0.71
29:B1:1337:A:C5	29:B1:1338:C:C5	2.79	0.71
29:B1:1350:A:H5'	29:B1:1351:U:C5	2.24	0.71
29:B1:1184:A:H5'	29:B1:1184:A:H8	1.55	0.71
29:B1:1539:A:C5	29:B1:1540:U:H5	2.08	0.71
74:D1:3442:OHX:N3	74:D1:3592:OHX:N5	2.38	0.71
14:CM:58:ALA:O	14:CM:62:ALA:HB2	1.90	0.71
35:DD:115:HIS:O	35:DD:117:GLU:N	2.23	0.71
1:C1:714:G:H2'	1:C1:715:U:C6	2.25	0.71
2:CA:106:SER:C	2:CA:108:THR:H	1.92	0.71
12:CK:58:MET:HA	12:CK:63:LYS:H	1.55	0.71
1:A1:467:G:H5''	1:A1:468:A:OP2	1.90	0.71
29:B1:1303:A:C2	29:B1:2887:A:C2	2.77	0.71
29:B1:566:G:O2'	29:B1:567:G:H5'	1.89	0.71
29:B1:609:G:H3'	29:B1:609:G:OP1	1.89	0.71
29:B1:979:U:C4'	29:B1:980:A:OP1	2.38	0.71
1:C1:594:A:C4'	1:C1:595:G:H5'	2.21	0.71
1:C1:619:A:P	1:C1:620:A:OP2	2.49	0.71
1:C1:813:U:H2'	1:C1:813:U:O2	1.89	0.71
29:D1:1560:G:O6	29:D1:1579:C:N3	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3136:G:C4	29:D1:3137:C:C6	2.78	0.71
29:D1:679:U:H2'	29:D1:680:G:H8	1.55	0.71
1:A1:824:G:C5'	1:A1:825:U:H5'	2.19	0.71
1:A1:847:A:H2'	1:A1:848:C:H5''	1.72	0.71
1:C1:825:U:O2'	1:C1:826:U:C6	2.42	0.71
1:A1:457:G:O2'	1:A1:458:G:H5'	1.90	0.71
29:D1:2682:C:H5'	29:D1:2683:U:OP2	1.91	0.71
1:C1:1346:A:H3'	1:C1:1347:U:H6	1.55	0.71
1:C1:1558:U:H2'	1:C1:1559:A:C2	2.25	0.71
4:CC:80:ALA:C	4:CC:82:GLY:H	1.93	0.71
29:B1:3174:A:H4'	29:B1:3174:A:OP2	1.90	0.71
29:B1:3217:C:H1'	29:B1:3220:G:O2'	1.91	0.71
29:D1:1063:G:C8	29:D1:1064:A:O4'	2.44	0.71
29:D1:2092:A:H3'	29:D1:2093:A:C5'	2.19	0.71
1:C1:127:G:O6	1:C1:179:A:C6	2.29	0.71
30:D2:95:A:C2	30:D2:96:U:C2	2.79	0.71
45:BP:56:ASP:C	45:BP:60:LYS:H	1.92	0.71
29:B1:605:U:H6	29:B1:605:U:C5'	2.03	0.71
34:DC:72:VAL:HA	50:DU:88:ARG:O	1.90	0.71
29:B1:1459:C:C2'	29:B1:1460:A:H5'	2.21	0.71
36:BE:109:THR:O	36:BE:252:ALA:HB2	1.90	0.71
4:CC:175:VAL:CB	4:CC:183:GLY:H	2.03	0.71
1:C1:569:C:O4'	1:C1:583:C:H4'	1.90	0.71
1:A1:1781:A:H8	1:A1:1781:A:O5'	1.72	0.71
1:A1:560:U:H2'	1:A1:561:G:C8	2.26	0.71
29:B1:115:A:H2'	29:B1:116:A:H2	1.55	0.71
29:B1:1310:G:H5'	29:B1:1310:G:H8	1.56	0.71
29:B1:1495:U:C2	29:B1:1842:A:C2	2.75	0.71
29:B1:307:A:O2'	29:B1:2223:A:H1'	1.90	0.71
29:B1:3101:G:O2'	29:B1:3102:G:H5''	1.89	0.71
29:B1:637:C:C2	29:B1:2361:A:N3	2.59	0.71
29:B1:705:A:C6	29:B1:715:A:N7	2.59	0.71
29:B1:727:G:H22	29:B1:741:U:H3	1.37	0.71
29:B1:827:A:H2'	29:B1:827:A:N3	2.04	0.71
1:C1:1756:A:O2'	1:C1:1757:G:H5'	1.89	0.71
1:C1:44:U:H5'	1:C1:45:U:O4	1.90	0.71
29:D1:1175:C:H3'	29:D1:1175:C:OP2	1.91	0.71
29:D1:1192:C:H5'	29:D1:1298:C:OP1	1.90	0.71
29:D1:2858:U:H2'	29:D1:2859:U:C5	2.25	0.71
29:D1:2947:G:H2'	29:D1:2948:C:C5	2.25	0.71
29:D1:3370:A:H5'	29:D1:3371:G:OP1	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:542:G:H2'	29:D1:543:C:H6	1.55	0.71
1:A1:844:A:H2'	1:A1:845:G:H8	1.56	0.71
1:A1:169:A:C5	1:A1:171:A:C6	2.78	0.71
1:A1:1227:A:C8	1:A1:1229:G:H5'	2.26	0.71
1:A1:1558:U:H2'	1:A1:1559:A:C2	2.25	0.71
29:D1:3383:G:N3	29:D1:3384:U:C5	2.58	0.71
29:D1:1238:C:H2'	29:D1:1239:C:C6	2.26	0.71
31:B3:24:G:N2	31:B3:25:G:H1'	2.06	0.71
1:C1:1330:G:H2'	1:C1:1331:A:H8	1.54	0.71
29:D1:3072:C:H5	29:D1:3073:A:N7	1.86	0.71
1:C1:1092:A:O2'	1:C1:1093:A:H3'	1.91	0.71
1:C1:1094:G:H2'	1:C1:1095:U:H5	1.56	0.71
20:CS:24:CYS:CB	74:CS:101:OHX:N4	2.53	0.71
30:B2:5:G:H2'	30:B2:6:C:H5''	1.73	0.71
1:C1:981:U:H1'	1:C1:1124:A:H2	1.55	0.71
45:BP:57:PHE:O	45:BP:58:LEU:CB	2.38	0.71
46:DQ:33:ALA:C	46:DQ:35:ALA:H	1.94	0.71
29:D1:2746:A:N6	29:D1:2747:A:C2	2.59	0.71
1:A1:804:A:H2'	1:A1:805:U:C6	2.25	0.71
42:DK:139:THR:C	42:DK:141:ARG:H	1.94	0.71
14:AM:28:LEU:C	14:AM:30:VAL:H	1.94	0.71
38:BG:83:LEU:HA	38:BG:84:VAL:CB	2.18	0.71
33:BB:49:VAL:O	33:BB:50:HIS:O	2.09	0.71
34:DC:169:THR:O	34:DC:170:PRO:C	2.28	0.71
17:AP:106:GLY:HA2	17:AP:122:PHE:HA	1.73	0.71
1:A1:1632:C:HO2'	1:A1:1633:A:H8	1.37	0.71
29:B1:1482:A:OP2	29:B1:1858:A:C5	2.43	0.71
29:B1:159:A:H2'	29:B1:160:G:C8	2.25	0.71
29:B1:1311:G:H1'	29:B1:2381:G:H5'	1.73	0.71
29:B1:2852:C:C5	29:B1:2853:A:C4	2.78	0.71
29:B1:3160:U:C2	29:B1:3161:C:C5	2.78	0.71
29:B1:3302:U:H3'	29:B1:3303:G:H5''	1.70	0.71
29:B1:503:C:N3	29:B1:588:G:N1	2.38	0.71
29:B1:596:C:H3'	29:B1:597:G:C5'	2.18	0.71
29:B1:770:G:H2'	29:B1:771:A:O4'	1.91	0.71
1:C1:365:G:C6	1:C1:377:G:C6	2.79	0.71
29:D1:1223:A:N6	29:D1:1285:G:OP2	2.23	0.71
29:D1:1337:A:H2'	29:D1:1338:C:H6	1.55	0.71
29:D1:1901:A:C5'	29:D1:2919:A:OP1	2.38	0.71
29:D1:2397:A:H8	29:D1:2941:A:H61	1.39	0.71
29:D1:3060:C:O2'	29:D1:3331:U:O2	2.08	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:534:U:P	29:D1:534:U:C6	2.84	0.71
1:A1:707:A:H2'	1:A1:731:C:N4	2.05	0.71
29:B1:2702:A:O4'	29:B1:2704:A:C8	2.43	0.71
30:B2:77:G:H1'	30:B2:78:U:OP2	1.91	0.71
31:B3:72:A:N3	31:B3:88:A:N1	2.38	0.71
1:A1:264:G:C3'	1:A1:265:A:H5'	2.19	0.71
1:A1:65:A:C4'	1:A1:66:U:OP1	2.34	0.71
30:D2:14:U:P	30:D2:14:U:C6	2.84	0.71
1:C1:1722:A:H4'	1:C1:1722:A:OP1	1.85	0.71
1:C1:330:G:C4	1:C1:331:A:C8	2.79	0.71
1:A1:115:G:N2	1:A1:334:G:N2	2.37	0.71
1:C1:1466:G:C4	1:C1:1467:C:C5	2.78	0.71
1:C1:1556:A:H2'	1:C1:1560:U:C4	2.26	0.71
1:A1:1175:U:H3	1:A1:1464:G:H1	1.39	0.71
30:B2:91:G:C6	30:B2:92:A:C5	2.78	0.71
29:B1:3228:C:H2'	29:B1:3229:G:H8	1.56	0.71
29:D1:3201:C:P	29:D1:3201:C:C6	2.77	0.71
37:DF:21:THR:HA	37:DF:111:LEU:O	1.90	0.71
29:D1:188:U:O2	29:D1:222:A:C2	2.44	0.71
1:A1:157:A:O2'	1:A1:158:U:H5'	1.91	0.71
29:B1:2517:U:H2'	29:B1:2517:U:O2	1.91	0.71
29:B1:1468:A:C2	29:B1:1469:C:C4	2.78	0.71
1:C1:1219:A:H5'	1:C1:1220:C:C5	2.15	0.71
29:D1:140:C:H2'	29:D1:141:C:H6	1.53	0.71
29:B1:2953:U:H2'	29:B1:2954:U:C6	2.24	0.71
29:B1:1180:A:C5	29:B1:1182:A:C8	2.78	0.71
35:DD:119:ARG:C	35:DD:121:ALA:H	1.94	0.71
72:DL:62:LEU:HA	72:DL:70:ALA:O	1.91	0.71
29:D1:1334:U:H5''	38:DG:206:LYS:O	1.90	0.71
33:DB:216:HIS:O	33:DB:217:GLN:CB	2.39	0.71
1:A1:1121:C:H1'	1:A1:1127:G:N2	2.06	0.71
29:B1:1302:A:C4	29:B1:2887:A:C2	2.78	0.71
29:B1:1317:A:O2'	29:B1:1318:A:H3'	1.90	0.71
29:B1:1371:G:H5'	29:B1:1372:C:OP2	1.91	0.71
29:B1:627:U:O3'	29:B1:1399:A:C8	2.43	0.71
29:B1:13:A:H2	29:B1:15:C:H3'	1.56	0.71
29:B1:18:G:N2	31:B3:142:C:C2	2.59	0.71
29:B1:2816:G:H4'	29:B1:2817:A:C5'	2.21	0.71
29:B1:2847:A:H3'	29:B1:2848:G:H8	1.55	0.71
29:B1:3107:U:H2'	29:B1:3108:G:H8	1.56	0.71
29:B1:3136:G:C4	29:B1:3137:C:C6	2.79	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:312:C:H2'	29:B1:313:A:H8	1.55	0.71
29:B1:829:U:C4'	29:B1:866:A:H2	2.02	0.71
37:BF:160:SER:CB	38:BG:49:ALA:HB2	2.20	0.71
1:C1:1017:U:H2'	1:C1:1018:U:C6	2.26	0.71
1:C1:872:G:H5'	1:C1:873:U:OP2	1.90	0.71
29:D1:115:A:H2'	29:D1:116:A:H2	1.55	0.71
29:D1:1550:C:C2'	29:D1:1551:C:H5'	2.20	0.71
29:D1:1560:G:OP2	29:D1:1560:G:H3'	1.90	0.71
29:D1:2631:U:O2'	29:D1:2632:G:H5'	1.91	0.71
29:D1:3102:G:H8	29:D1:3102:G:C5'	2.02	0.71
29:D1:3107:U:H2'	29:D1:3108:G:H8	1.55	0.71
29:D1:421:G:H8	29:D1:421:G:C3'	1.94	0.71
29:D1:608:A:C3'	29:D1:608:A:C8	2.74	0.71
54:DY:15:VAL:O	54:DY:17:ALA:HA	1.90	0.71
30:D2:16:U:O2'	30:D2:17:A:H5'	1.90	0.71
1:A1:1683:C:H2'	1:A1:1719:A:N1	2.06	0.71
1:C1:1378:U:C5'	1:C1:1379:C:C6	2.73	0.71
1:A1:1533:C:H5''	1:A1:1534:G:OP2	1.90	0.71
6:CE:82:ARG:CB	6:CE:149:ARG:HA	2.20	0.71
31:D3:29:U:O2'	31:D3:30:C:H5'	1.89	0.71
29:B1:2593:A:H4'	29:B1:2594:C:C5'	2.18	0.71
29:D1:986:U:C2'	29:D1:987:U:O5'	2.39	0.71
2:CA:17:LEU:C	2:CA:19:ALA:N	2.42	0.71
29:D1:1075:A:C8	29:D1:1076:C:H6	2.06	0.71
1:A1:913:G:H4'	1:A1:914:G:OP2	1.89	0.71
29:D1:1037:C:HO2'	29:D1:1038:C:H6	1.37	0.71
29:D1:1716:U:H2'	29:D1:1716:U:O2	1.90	0.71
9:CH:63:ALA:O	9:CH:65:GLN:N	2.23	0.71
1:C1:792:U:H2'	1:C1:792:U:O2	1.90	0.71
44:DO:155:VAL:O	44:DO:157:LYS:N	2.23	0.71
29:B1:1472:U:O2'	29:B1:1473:G:H5'	1.91	0.71
29:D1:3049:A:N3	34:DC:75:ALA:HB2	2.05	0.71
1:C1:568:G:H4'	17:CP:90:ASP:HA	1.73	0.71
1:C1:500:C:H2'	1:C1:501:U:C6	2.25	0.71
1:A1:951:A:H2'	1:A1:952:A:O5'	1.89	0.71
43:DN:71:ALA:O	43:DN:72:LEU:C	2.27	0.71
42:BK:139:THR:C	42:BK:141:ARG:H	1.94	0.71
33:BB:145:LYS:O	33:BB:156:LYS:HA	1.90	0.71
29:B1:1115:G:H8	29:B1:1115:G:H3'	1.55	0.71
29:B1:12:A:OP2	29:B1:12:A:H8	1.74	0.71
29:B1:1455:U:H3'	29:B1:1456:A:H8	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2376:G:C6	29:B1:2377:G:O6	2.44	0.71
1:C1:129:U:C5	1:C1:264:G:O6	2.43	0.71
29:D1:952:A:N3	29:D1:1114:U:H4'	2.05	0.71
29:D1:1213:G:H8	29:D1:1213:G:C5'	2.01	0.71
29:D1:1908:A:N6	29:D1:1909:A:C6	2.59	0.71
29:D1:2270:A:C2	29:D1:2271:A:C4	2.78	0.71
29:D1:2826:U:C2'	29:D1:2827:U:H5'	2.20	0.71
29:D1:3047:U:O2'	29:D1:3048:A:C5'	2.38	0.71
29:D1:415:G:H2'	29:D1:416:A:H8	1.56	0.71
29:D1:504:A:H2	29:D1:587:U:O2	1.73	0.71
29:D1:761:A:C2	29:D1:762:U:H1'	2.26	0.71
29:D1:821:U:O2'	29:D1:822:G:H5'	1.91	0.71
31:D3:17:A:C5	31:D3:18:U:C5	2.79	0.71
35:DD:100:PHE:O	35:DD:101:ALA:C	2.26	0.71
1:C1:806:A:C2'	1:C1:807:A:H5''	2.21	0.71
29:B1:2633:U:O2'	29:B1:2634:U:H5'	1.91	0.71
1:A1:268:C:N3	1:A1:288:A:H2	1.89	0.71
1:A1:1676:U:H4'	1:A1:1677:C:OP2	1.89	0.71
1:C1:1364:G:H3'	1:C1:1365:C:H5'	1.73	0.71
1:C1:1599:C:O2'	1:C1:1600:A:N3	2.23	0.71
15:CN:17:GLN:CB	15:CN:18:GLN:C	2.58	0.71
1:A1:1382:A:H5''	15:AN:59:PRO:HA	1.72	0.71
1:A1:1507:G:C2	1:A1:1508:U:H1'	2.26	0.71
15:AN:12:GLN:C	15:AN:14:GLN:N	2.39	0.71
1:C1:1065:A:H2'	1:C1:1066:C:C6	2.26	0.71
42:BK:7:ASN:HA	42:BK:8:PRO:CB	2.21	0.71
29:D1:182:U:H3	29:D1:234:G:H1	1.35	0.71
29:D1:3241:G:N2	29:D1:3246:G:C2	2.59	0.71
29:B1:344:A:H2'	29:B1:345:G:O5'	1.91	0.71
1:A1:1125:A:C5	1:A1:1126:G:H1'	2.26	0.71
30:D2:3:U:H2'	30:D2:4:U:C6	2.26	0.71
29:D1:1023:C:H3'	29:D1:1024:G:C4'	2.21	0.71
29:B1:140:C:H2'	29:B1:141:C:H6	1.54	0.71
18:AQ:46:LYS:O	18:AQ:50:ILE:CB	2.39	0.71
29:B1:1806:A:H2'	29:B1:1807:G:O4'	1.91	0.71
29:B1:2900:A:C2	29:B1:2901:G:C5	2.79	0.71
29:D1:1804:A:H2'	29:D1:1805:C:H6	1.56	0.71
29:D1:2209:U:C6	29:D1:2209:U:OP2	2.43	0.71
1:A1:802:G:C6	1:A1:803:A:N1	2.59	0.71
29:B1:1720:U:O4	48:BS:124:TYR:CB	2.37	0.71
41:DJ:75:TYR:O	41:DJ:76:MET:C	2.28	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:871:G:O2'	1:A1:872:G:C8	2.34	0.71
29:B1:11:A:O2'	29:B1:12:A:H5'	1.91	0.71
29:B1:1295:G:H2'	29:B1:1296:C:C6	2.26	0.71
29:B1:284:A:H2'	29:B1:284:A:N3	2.05	0.71
29:B1:2898:G:H8	29:B1:2898:G:O5'	1.74	0.71
29:B1:744:A:C6	29:B1:745:C:N3	2.58	0.71
1:C1:1761:U:O2'	1:C1:1762:A:OP2	2.07	0.71
1:C1:515:A:H2'	1:C1:516:G:OP1	1.91	0.71
6:CE:143:ILE:O	6:CE:145:SER:N	2.23	0.71
29:D1:1054:A:N6	29:D1:1055:A:C2	2.59	0.71
29:D1:1220:U:H4'	29:D1:1222:G:H3'	1.73	0.71
29:D1:1435:A:H8	29:D1:1437:C:C6	2.08	0.71
29:D1:2638:C:C2	29:D1:2639:G:C8	2.79	0.71
29:D1:3058:U:O2'	29:D1:3059:G:OP1	2.08	0.71
29:D1:3068:U:OP1	48:DS:58:HIS:HA	1.91	0.71
29:D1:606:C:C2'	29:D1:607:A:H1'	2.16	0.71
29:D1:739:G:H2'	29:D1:740:G:C8	2.25	0.71
31:D3:10:A:N3	31:D3:11:C:C6	2.59	0.71
31:D3:128:U:C5'	31:D3:129:C:H5	2.02	0.71
31:D3:2:A:O2'	31:D3:3:A:H5'	1.91	0.71
44:DO:49:ARG:HA	44:DO:53:TYR:CB	2.21	0.71
1:A1:221:A:C5	1:A1:833:U:C5	2.79	0.71
31:B3:70:G:C8	31:B3:71:A:N6	2.59	0.71
1:C1:250:C:O2	1:C1:251:A:C8	2.44	0.71
1:A1:1713:G:H2'	1:A1:1713:G:N3	2.06	0.71
29:D1:208:C:C2'	29:D1:209:A:C5'	2.68	0.71
30:B2:23:A:C8	30:B2:24:A:N7	2.59	0.71
1:C1:889:U:O2'	1:C1:890:C:H5'	1.91	0.71
29:D1:1234:G:H3'	29:D1:1235:U:H2'	1.72	0.71
29:D1:3141:A:C4'	29:D1:3143:C:H2'	2.19	0.71
29:B1:821:U:C2'	29:B1:822:G:H5'	2.19	0.71
29:B1:1041:U:H2'	29:B1:1042:U:H5'	1.72	0.71
39:DH:99:PRO:C	39:DH:101:THR:N	2.42	0.71
29:B1:1353:U:H2'	29:B1:1354:G:H5''	1.73	0.71
29:B1:1422:G:C5	29:B1:1423:C:C5	2.78	0.71
29:D1:141:C:H2'	29:D1:142:C:C6	2.26	0.71
36:DE:223:PHE:O	36:DE:225:GLY:HA3	1.90	0.71
29:B1:1539:A:C2'	29:B1:1540:U:H5'	2.20	0.71
29:D1:235:A:H2'	29:D1:236:G:C8	2.26	0.71
74:B1:3519:OHX:N2	74:B1:3605:OHX:N3	2.39	0.71
21:CT:116:ASP:CB	21:CT:121:MET:H	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:500:C:H2'	1:A1:501:U:C6	2.26	0.71
5:CD:208:SER:CB	5:CD:209:TYR:HA	2.21	0.71
1:A1:394:C:C2'	1:A1:395:U:H5'	2.21	0.70
1:A1:553:G:H3'	1:A1:554:C:C5'	2.20	0.70
1:A1:93:A:N3	1:A1:399:A:C2	2.59	0.70
29:B1:1140:G:H2'	29:B1:1141:C:C6	2.26	0.70
29:B1:1310:G:H2'	29:B1:1311:G:O5'	1.91	0.70
29:B1:1194:G:H4'	29:B1:1320:C:OP1	1.91	0.70
29:B1:11:A:H1'	29:B1:1557:A:H61	1.53	0.70
29:B1:2269:U:C6	29:B1:2272:G:O6	2.44	0.70
29:B1:2423:U:H2'	29:B1:2424:A:C8	2.26	0.70
29:B1:3005:A:C2	29:B1:3140:G:N3	2.59	0.70
29:B1:306:A:N6	29:B1:2783:U:H3	1.89	0.70
29:B1:3311:C:H2'	29:B1:3312:U:C6	2.26	0.70
29:B1:3316:A:C4'	29:B1:3317:U:OP2	2.39	0.70
29:B1:3392:U:H2'	29:B1:3393:U:C6	2.25	0.70
35:BD:10:SER:HA	35:BD:17:ALA:H	1.54	0.70
1:C1:1003:A:N7	1:C1:1005:A:C2	2.59	0.70
1:C1:509:G:C2'	1:C1:510:G:H8	2.01	0.70
1:C1:557:G:C2'	1:C1:558:U:H4'	2.21	0.70
1:C1:595:G:H2'	1:C1:596:C:C6	2.26	0.70
1:C1:61:A:C4'	1:C1:62:A:H5'	2.21	0.70
29:D1:1130:A:H2'	29:D1:1132:C:H6	1.54	0.70
29:D1:1368:U:H2'	29:D1:1369:A:H8	1.56	0.70
29:D1:1461:A:H2'	29:D1:1462:A:H8	1.55	0.70
29:D1:1784:G:O2'	29:D1:1785:U:H5'	1.89	0.70
29:D1:284:A:N6	29:D1:2785:A:O4'	2.24	0.70
29:D1:2912:G:C6	29:D1:3130:A:C5	2.79	0.70
29:D1:3160:U:C2	29:D1:3161:C:C5	2.79	0.70
29:D1:423:A:H2'	29:D1:424:G:O5'	1.90	0.70
29:D1:723:U:H2'	29:D1:724:U:C5'	2.21	0.70
29:D1:821:U:C2'	29:D1:822:G:H5'	2.20	0.70
29:D1:979:U:C4'	29:D1:980:A:OP1	2.38	0.70
1:A1:66:U:H3	1:A1:71:A:H62	1.33	0.70
1:A1:110:U:H4'	1:A1:797:G:H21	1.54	0.70
1:C1:1195:C:OP1	1:C1:1197:C:H1'	1.90	0.70
1:C1:1464:G:O2'	1:C1:1465:C:H5'	1.91	0.70
1:A1:1259:U:O5'	1:A1:1259:U:C6	2.44	0.70
1:A1:1348:A:C2	1:A1:1378:U:C6	2.79	0.70
1:A1:1347:U:H2'	1:A1:1349:G:N7	2.06	0.70
1:A1:1170:G:O6	1:A1:1574:G:C6	2.44	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1463:U:C4	29:B1:1464:G:N7	2.58	0.70
29:D1:2772:C:OP1	29:D1:2772:C:H4'	1.90	0.70
29:B1:340:C:H2'	29:B1:341:G:C8	2.26	0.70
44:BO:39:ALA:N	44:BO:62:TYR:HA	2.00	0.70
29:D1:2105:G:C8	29:D1:2105:G:H5'	2.26	0.70
29:D1:3071:U:O2'	29:D1:3072:C:C5'	2.39	0.70
1:A1:772:G:C5	1:A1:773:C:N3	2.58	0.70
29:D1:1041:U:H2'	29:D1:1042:U:H5'	1.73	0.70
1:C1:1399:C:H2'	1:C1:1400:A:C8	2.26	0.70
1:A1:951:A:C2'	1:A1:952:A:O5'	2.38	0.70
51:DV:22:VAL:O	51:DV:23:ARG:O	2.09	0.70
29:D1:1060:U:H4'	29:D1:1060:U:OP1	1.91	0.70
40:BI:92:TYR:HA	40:BI:179:ILE:HA	1.73	0.70
1:A1:1094:G:H2'	1:A1:1095:U:H5	1.54	0.70
1:A1:1110:G:O2'	1:A1:1111:G:O5'	2.08	0.70
1:A1:1773:C:H5''	1:A1:1774:G:OP2	1.90	0.70
1:A1:533:U:H3'	1:A1:534:A:C8	2.26	0.70
29:B1:1105:A:H2'	29:B1:1106:G:H8	1.52	0.70
29:B1:1139:G:C8	29:B1:1139:G:H5'	2.26	0.70
29:B1:121:A:C4	29:B1:121:A:OP2	2.44	0.70
29:B1:1406:A:C2	29:B1:1407:A:C5	2.79	0.70
29:B1:213:A:H2'	29:B1:214:G:O4'	1.90	0.70
29:B1:2256:A:O2'	29:B1:2257:C:P	2.49	0.70
29:B1:258:G:C2	29:B1:259:C:C6	2.78	0.70
29:B1:2834:G:N3	29:B1:2835:U:C6	2.59	0.70
29:B1:52:A:H2'	29:B1:53:G:O5'	1.90	0.70
37:BF:150:LYS:O	37:BF:152:THR:N	2.24	0.70
1:C1:17:C:H2'	1:C1:18:C:H6	1.56	0.70
1:C1:269:G:C6	1:C1:287:G:N1	2.59	0.70
1:C1:553:G:H3'	1:C1:554:C:H5''	1.73	0.70
1:C1:970:A:H2'	1:C1:971:A:H5'	1.72	0.70
29:D1:1517:G:H2'	29:D1:1518:U:H6	1.55	0.70
29:D1:1539:A:H2'	29:D1:1540:U:H5'	1.73	0.70
29:D1:2149:A:H3'	29:D1:2149:A:H8	1.56	0.70
29:D1:2151:C:O2'	29:D1:2243:A:N1	2.17	0.70
29:D1:3304:U:O2'	29:D1:3305:A:H5'	1.90	0.70
29:D1:503:C:N3	29:D1:588:G:N1	2.39	0.70
29:D1:736:A:H2'	29:D1:737:G:H8	1.56	0.70
29:D1:965:A:C6	29:D1:966:U:N3	2.59	0.70
31:D3:109:A:C2'	31:D3:110:C:H5'	2.21	0.70
1:A1:844:A:H2'	1:A1:845:G:C8	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:270:C:H3'	1:A1:271:A:H5''	1.73	0.70
30:D2:64:A:C1'	30:D2:65:G:O5'	2.40	0.70
30:D2:7:G:H2'	30:D2:8:G:O4'	1.90	0.70
45:DP:124:LEU:CB	45:DP:128:ARG:N	2.54	0.70
1:A1:1347:U:H5'	15:AN:10:GLU:CA	2.18	0.70
29:D1:2520:A:N3	29:D1:2521:U:C2	2.59	0.70
29:B1:3383:G:N3	29:B1:3384:U:C5	2.58	0.70
29:D1:3244:A:C8	29:D1:3245:A:N7	2.59	0.70
1:A1:883:C:O2	1:A1:883:C:H2'	1.90	0.70
5:CD:153:GLY:CA	5:CD:154:ALA:HB3	2.20	0.70
29:B1:1625:A:H3'	29:B1:1626:U:H5''	1.73	0.70
29:D1:3273:A:H2'	29:D1:3274:A:O4'	1.91	0.70
1:A1:1338:C:C1'	1:A1:1410:A:N3	2.55	0.70
43:BN:50:LYS:H	43:BN:53:VAL:CB	2.03	0.70
29:B1:1695:U:O2'	29:B1:1749:A:N1	2.19	0.70
29:B1:1750:A:H5'	29:B1:1751:G:C8	2.27	0.70
45:BP:148:LYS:CB	45:BP:149:TYR:CB	2.69	0.70
10:AI:19:GLY:H	13:AL:98:TYR:HA	1.56	0.70
38:BG:111:ILE:O	38:BG:112:ASN:C	2.27	0.70
34:DC:76:VAL:HA	34:DC:325:LYS:CB	2.20	0.70
29:D1:247:C:H2'	29:D1:248:U:H4'	1.72	0.70
1:A1:1304:G:N7	1:A1:1305:U:C5	2.59	0.70
34:DC:53:MET:HA	34:DC:77:THR:HA	1.73	0.70
1:A1:1032:G:H2'	1:A1:1033:C:C6	2.26	0.70
1:A1:17:C:H2'	1:A1:18:C:H6	1.55	0.70
1:A1:297:U:H2'	1:A1:298:C:O5'	1.91	0.70
1:A1:611:U:H5''	1:A1:612:U:OP2	1.91	0.70
1:A1:973:A:H2'	1:A1:974:A:C8	2.26	0.70
29:B1:1152:G:O2'	29:B1:1153:A:OP1	2.08	0.70
29:B1:1564:U:C2	29:B1:1565:G:C8	2.80	0.70
29:B1:1577:G:H2'	29:B1:1578:C:C6	2.26	0.70
29:B1:2271:A:C3'	29:B1:2272:G:H5''	2.20	0.70
29:B1:2714:G:N2	29:B1:2751:G:C5	2.60	0.70
29:B1:2931:C:C4	29:B1:2932:U:C5	2.78	0.70
29:B1:3305:A:C6	29:B1:3306:U:N3	2.58	0.70
29:B1:3377:G:H1'	29:B1:3378:C:OP1	1.91	0.70
1:C1:1109:G:H2'	1:C1:1110:G:C5'	2.21	0.70
1:C1:1632:C:C2	1:C1:1633:A:N7	2.60	0.70
1:C1:518:A:H8	1:C1:519:C:H5''	1.53	0.70
1:C1:620:A:C5	1:C1:621:A:N1	2.59	0.70
29:D1:1056:U:O5'	29:D1:1056:U:H6	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1212:A:C3'	29:D1:1213:G:H5''	2.21	0.70
29:D1:1226:G:N3	29:D1:1227:C:C6	2.59	0.70
29:D1:1405:U:H2'	29:D1:1406:A:C8	2.21	0.70
29:D1:2150:G:C2'	29:D1:2151:C:H5''	2.20	0.70
29:D1:2249:G:O4'	29:D1:2272:G:H8	1.74	0.70
29:D1:2661:G:H5'	29:D1:2749:G:N2	2.07	0.70
29:D1:2386:A:C8	29:D1:2994:A:N1	2.58	0.70
29:D1:3307:A:O5'	29:D1:3307:A:C8	2.39	0.70
29:D1:514:G:O3'	29:D1:515:C:O4'	2.09	0.70
29:D1:532:A:H3'	29:D1:533:A:C8	2.25	0.70
29:D1:59:G:O3'	29:D1:60:A:H4'	1.89	0.70
31:D3:88:A:H2'	31:D3:89:A:C6	2.27	0.70
33:DB:182:ALA:C	33:DB:184:ARG:N	2.43	0.70
1:A1:737:A:O2'	1:A1:738:G:C8	2.40	0.70
30:B2:11:A:N1	36:BE:16:PHE:HA	2.07	0.70
29:B1:2673:A:H2	29:B1:2674:A:C5	2.08	0.70
1:C1:1255:G:O4'	1:C1:1255:G:OP2	2.10	0.70
1:A1:1382:A:O2'	1:A1:1383:G:H5''	1.91	0.70
29:B1:3196:U:H5	29:B1:3198:U:C6	2.10	0.70
21:AT:289:ALA:CA	21:AT:305:TYR:HA	2.11	0.70
29:D1:1393:A:C8	29:D1:1418:A:C5	2.79	0.70
30:D2:49:G:C8	30:D2:49:G:OP2	2.44	0.70
31:B3:29:U:O2'	31:B3:30:C:H5'	1.92	0.70
29:B1:3273:A:C6	29:B1:3274:A:C8	2.78	0.70
29:B1:1716:U:H3'	29:B1:1717:U:C4'	2.20	0.70
29:D1:2503:G:H2'	29:D1:2504:U:C6	2.26	0.70
39:BH:99:PRO:HA	39:BH:236:GLY:N	2.06	0.70
1:A1:922:G:O2'	1:A1:923:A:H8	1.74	0.70
1:A1:1292:G:H2'	1:A1:1293:U:C6	2.26	0.70
29:D1:1358:C:O2	29:D1:1358:C:H2'	1.91	0.70
1:A1:1089:U:C2'	1:A1:1090:C:H5'	2.21	0.70
1:C1:1358:G:H5'	1:C1:1359:C:OP2	1.90	0.70
42:DK:133:ARG:N	42:DK:155:THR:H	1.89	0.70
39:BH:81:THR:O	39:BH:82:LEU:C	2.30	0.70
1:A1:319:U:H5'	1:A1:319:U:H6	1.54	0.70
1:A1:1118:G:O2'	1:A1:1119:G:O5'	2.09	0.70
1:A1:1765:A:H4'	1:A1:1766:A:OP2	1.91	0.70
29:B1:1175:C:H3'	29:B1:1175:C:OP2	1.91	0.70
29:B1:1194:G:C2'	29:B1:1309:U:O2	2.40	0.70
29:B1:1580:A:H3'	29:B1:1581:C:H5'	1.73	0.70
29:B1:1131:G:C2	29:B1:2373:A:C4	2.79	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3110:C:H2'	29:B1:3111:U:H6	1.56	0.70
29:B1:3393:U:C2'	29:B1:3394:U:H5'	2.21	0.70
29:B1:592:A:O2'	29:B1:593:C:O2'	2.07	0.70
29:B1:5:G:N2	31:B3:155:A:H1'	2.05	0.70
31:B3:17:A:C4	31:B3:18:U:C5	2.79	0.70
29:B1:743:C:H4'	47:BR:142:GLY:HA2	1.72	0.70
1:C1:1153:G:H8	1:C1:1153:G:OP2	1.75	0.70
1:C1:1756:A:C8	1:C1:1756:A:OP2	2.44	0.70
1:C1:142:G:C8	1:C1:266:A:N1	2.59	0.70
1:C1:365:G:H8	1:C1:365:G:OP2	1.74	0.70
1:C1:37:U:OP1	1:C1:531:C:O2'	2.09	0.70
29:D1:1175:C:O2'	29:D1:1176:C:O5'	2.07	0.70
29:D1:421:G:N2	29:D1:2365:C:C1'	2.53	0.70
29:D1:2614:G:C2	29:D1:2797:C:C6	2.80	0.70
29:D1:2815:G:O2'	29:D1:2817:A:H2'	1.91	0.70
29:D1:2895:G:C2'	29:D1:2896:A:H5''	2.21	0.70
29:D1:3019:U:C5	29:D1:3020:U:C5	2.80	0.70
29:D1:3135:U:C6	29:D1:3136:G:N7	2.59	0.70
29:D1:3317:U:P	29:D1:3317:U:H3'	2.31	0.70
29:D1:3323:A:C6	29:D1:3324:C:C4	2.79	0.70
29:D1:637:C:C2	29:D1:638:C:C5	2.79	0.70
29:D1:676:G:H4'	29:D1:678:G:O3'	1.91	0.70
29:D1:773:G:C2'	29:D1:774:G:C8	2.71	0.70
29:D1:826:G:H21	29:D1:1589:A:N6	1.88	0.70
31:D3:69:U:N1	31:D3:70:G:H1'	2.07	0.70
1:A1:825:U:O2'	1:A1:826:U:C6	2.44	0.70
29:B1:2640:A:C5	29:B1:2641:U:C5	2.79	0.70
1:A1:269:G:C6	1:A1:287:G:N1	2.60	0.70
1:A1:65:A:H2	1:A1:84:A:H62	1.38	0.70
29:B1:2676:A:H2	29:B1:2680:A:C2	2.09	0.70
1:A1:1244:A:C2	1:A1:1245:G:N9	2.60	0.70
30:D2:25:G:C4	30:D2:26:C:C5	2.80	0.70
29:D1:219:A:C2	29:D1:1390:A:H2'	2.26	0.70
29:D1:3228:C:H3'	29:D1:3229:G:C8	2.25	0.70
29:B1:1697:A:H2'	29:B1:1698:C:C5'	2.17	0.70
29:B1:3262:U:H2'	29:B1:3263:G:H8	1.56	0.70
29:B1:1715:A:H3'	29:B1:1716:U:C5'	2.20	0.70
29:D1:1914:G:H5''	29:D1:1915:A:OP2	1.91	0.70
29:B1:3268:A:H1'	29:B1:3269:U:P	2.30	0.70
34:DC:193:ASP:C	34:DC:195:ALA:H	1.94	0.70
29:B1:1471:U:H2'	29:B1:1472:U:H6	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1806:A:H2'	29:D1:1807:G:O4'	1.91	0.70
29:B1:247:C:H2'	29:B1:248:U:H4'	1.73	0.70
21:CT:255:ALA:HA	21:CT:260:ILE:HA	1.73	0.70
29:B1:2599:U:H2'	29:B1:2600:C:H6	1.57	0.70
41:DJ:135:ILE:O	41:DJ:137:SER:N	2.25	0.70
29:B1:115:A:C5	29:B1:116:A:N1	2.59	0.70
29:B1:11:A:C2'	29:B1:12:A:H5'	2.20	0.70
29:B1:2912:G:C6	29:B1:2913:C:N3	2.60	0.70
29:B1:1901:A:OP2	29:B1:2919:A:OP1	2.10	0.70
29:B1:3291:G:H2'	29:B1:3292:A:C8	2.27	0.70
29:B1:504:A:H8	29:B1:504:A:C3'	1.98	0.70
29:B1:559:A:C2'	29:B1:560:G:H8	2.05	0.70
29:B1:563:U:H2'	29:B1:564:G:H4'	1.72	0.70
1:C1:1003:A:H1'	1:C1:1004:U:OP2	1.90	0.70
29:D1:660:A:N1	29:D1:1435:A:C2	2.59	0.70
29:D1:1478:C:H5''	29:D1:1478:C:H6	1.56	0.70
29:D1:156:G:H1'	29:D1:157:A:H4'	1.73	0.70
29:D1:159:A:H2'	29:D1:160:G:C8	2.27	0.70
29:D1:1884:A:C4	29:D1:1885:U:N3	2.59	0.70
29:D1:2196:C:N4	29:D1:2242:A:N7	2.40	0.70
29:D1:2253:G:N7	29:D1:2254:U:C4	2.59	0.70
29:D1:2407:C:H1'	29:D1:2818:U:H3	1.56	0.70
29:D1:2868:U:H2'	29:D1:2869:U:H6	1.56	0.70
29:D1:305:U:O2'	29:D1:306:A:C8	2.44	0.70
29:D1:3309:G:C2	29:D1:3310:A:C8	2.80	0.70
29:D1:2846:U:H1'	74:D1:3570:OHX:N5	2.07	0.70
38:DG:47:ARG:O	38:DG:50:ALA:HB3	1.91	0.70
1:C1:336:G:H2'	1:C1:338:C:C5	2.26	0.70
1:A1:1683:C:OP2	1:A1:1683:C:H3'	1.91	0.70
1:C1:1468:U:O2'	1:C1:1469:A:O5'	2.06	0.70
1:C1:1481:C:C5	1:C1:1482:C:C2	2.80	0.70
1:C1:1494:C:O2'	1:C1:1495:C:H5'	1.91	0.70
1:A1:1240:U:C3'	1:A1:1241:G:H5'	2.20	0.70
1:A1:1272:U:H5''	1:A1:1273:G:OP2	1.91	0.70
1:A1:1594:G:C6	1:A1:1595:U:N3	2.60	0.70
30:D2:54:U:H2'	30:D2:54:U:O2	1.90	0.70
29:D1:1416:C:O2	29:D1:1416:C:C2'	2.39	0.70
29:D1:370:U:H5	29:D1:371:G:C5	2.08	0.70
29:D1:395:A:H8	29:D1:395:A:OP1	1.74	0.70
29:D1:1239:C:H2'	29:D1:1240:A:C8	2.26	0.70
20:AS:49:ASP:H	20:AS:50:ILE:CB	2.03	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3245:A:O2'	29:D1:3246:G:O4'	2.09	0.70
38:BG:29:GLU:O	38:BG:32:ALA:HB3	1.91	0.70
29:D1:1687:U:P	29:D1:1687:U:H6	2.13	0.70
1:A1:1579:U:C4	1:A1:1580:C:N4	2.59	0.70
54:BY:80:THR:C	54:BY:82:ILE:N	2.45	0.70
29:B1:1351:U:O2	29:B1:1352:A:C5	2.45	0.70
29:B1:1352:A:H8	29:B1:1352:A:P	2.14	0.70
1:C1:1296:A:H2'	1:C1:1297:G:H5''	1.74	0.70
29:D1:2883:U:C2	29:D1:2884:C:C5	2.79	0.70
29:B1:1180:A:C2	29:B1:1182:A:C4	2.80	0.70
29:D1:1088:U:H2'	29:D1:1089:G:C8	2.26	0.70
45:BP:18:ARG:O	45:BP:20:ALA:N	2.24	0.70
1:C1:736:C:H2'	1:C1:737:A:H8	1.55	0.70
45:BP:63:ALA:HB2	45:BP:69:GLY:HA3	1.73	0.70
29:B1:730:C:C2'	29:B1:731:U:H5'	2.22	0.70
16:AO:98:GLN:O	16:AO:100:GLY:N	2.25	0.70
49:DT:50:LYS:C	49:DT:52:MET:H	1.93	0.70
43:BN:107:GLU:O	43:BN:110:ALA:N	2.24	0.70
6:CE:111:THR:O	6:CE:113:VAL:N	2.24	0.70
1:A1:1102:G:C2'	1:A1:1103:U:O5'	2.37	0.70
1:A1:1118:G:C2	1:A1:1119:G:C4	2.80	0.70
1:A1:1629:G:H2'	1:A1:1630:U:O4'	1.91	0.70
1:A1:1645:G:O2'	1:A1:1646:C:O5'	2.10	0.70
29:B1:9:U:H2'	29:B1:10:C:H5'	1.73	0.70
29:B1:1129:A:C6	29:B1:1130:A:N6	2.59	0.70
29:B1:1166:G:H2'	29:B1:1167:U:H5''	1.71	0.70
29:B1:1435:A:C5'	29:B1:1436:U:H5''	2.17	0.70
29:B1:285:A:C2	29:B1:305:U:O5'	2.44	0.70
29:B1:2141:U:N3	29:B1:2956:A:C2	2.60	0.70
29:B1:3089:C:H3'	29:B1:3090:U:H5''	1.74	0.70
29:B1:3308:C:C5	29:B1:3309:G:C2	2.77	0.70
29:B1:749:C:H2'	29:B1:750:G:H8	1.55	0.70
29:B1:910:G:C4	29:B1:911:C:C6	2.79	0.70
1:C1:210:A:H2'	1:C1:211:U:C6	2.27	0.70
1:C1:623:A:H2	1:C1:1105:C:HO2'	1.36	0.70
29:D1:2113:A:C2'	29:D1:2114:C:H5'	2.21	0.70
29:D1:2389:C:O2'	29:D1:2390:A:H5'	1.91	0.70
29:D1:3161:C:H2'	29:D1:3161:C:O2	1.90	0.70
29:D1:3376:A:H5''	29:D1:3376:A:N3	2.06	0.70
29:D1:498:A:H2'	29:D1:499:G:H8	1.54	0.70
29:D1:536:U:OP2	29:D1:536:U:H2'	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:590:G:O2'	29:D1:591:G:P	2.50	0.70
30:B2:64:A:H4'	30:B2:65:G:O5'	1.90	0.70
31:B3:71:A:N6	31:B3:87:G:N7	2.40	0.70
1:A1:272:U:O4	1:A1:284:G:O6	2.10	0.70
1:C1:1719:A:H2'	1:C1:1720:G:N7	2.05	0.70
29:B1:2680:A:H61	42:BK:56:THR:C	1.95	0.70
1:C1:1349:G:O2'	1:C1:1350:U:OP2	2.10	0.70
1:C1:1521:G:C6	74:C1:1930:OHX:N5	2.60	0.70
1:C1:1592:A:H2'	1:C1:1593:A:H8	1.55	0.70
1:C1:1521:G:O6	74:C1:1930:OHX:N1	2.22	0.70
30:D2:25:G:N1	30:D2:26:C:N4	2.38	0.70
29:D1:3218:A:H4'	29:D1:3220:G:H8	1.56	0.70
2:AA:182:LEU:O	2:AA:187:ALA:HA	1.92	0.70
30:D2:34:C:C2'	30:D2:34:C:O2	2.37	0.70
29:B1:3384:U:C4	29:B1:3385:U:O4	2.45	0.70
29:B1:1812:G:H2'	29:B1:1812:G:N3	2.06	0.70
1:A1:127:G:O6	1:A1:179:A:N1	2.24	0.70
1:A1:1391:A:H5''	1:A1:1392:U:OP2	1.91	0.70
1:C1:1219:A:C5'	1:C1:1220:C:H5	2.02	0.70
29:D1:1691:U:H2'	29:D1:1692:U:C6	2.27	0.70
1:C1:1734:U:H2'	1:C1:1735:U:H6	1.54	0.70
29:B1:1740:U:C2'	29:B1:1741:A:H5'	2.22	0.70
29:B1:1351:U:H2'	29:B1:1352:A:C5	2.27	0.70
29:B1:1354:G:H8	29:B1:1355:A:N1	1.89	0.70
34:DC:105:VAL:O	34:DC:106:TRP:C	2.28	0.70
29:B1:255:A:H2'	29:B1:256:G:C8	2.27	0.70
29:D1:1401:A:H2'	29:D1:1402:C:H6	1.57	0.70
5:AD:208:SER:CB	5:AD:209:TYR:HA	2.21	0.70
31:B3:34:U:C2	31:B3:34:U:H3'	2.26	0.70
1:C1:575:C:C5'	1:C1:576:G:OP2	2.39	0.70
46:BQ:33:ALA:O	46:BQ:35:ALA:N	2.23	0.70
1:A1:1132:A:C2	1:A1:1133:A:N7	2.60	0.70
1:A1:390:G:H22	1:A1:407:A:H61	1.37	0.70
29:B1:1189:C:H4'	29:B1:1192:C:C5	2.22	0.70
29:B1:2137:U:OP1	29:B1:2137:U:H4'	1.92	0.70
29:B1:2146:C:C2'	29:B1:2147:A:C5'	2.69	0.70
29:B1:2259:A:H3'	29:B1:2260:U:H6	1.57	0.70
29:B1:2294:U:H2'	29:B1:2294:U:O2	1.92	0.70
29:B1:2348:A:H5'	29:B1:2349:U:OP2	1.92	0.70
29:B1:2780:A:H2'	29:B1:2781:U:C6	2.27	0.70
29:B1:2932:U:O2	29:B1:2932:U:C2'	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3001:C:O2'	29:B1:3002:C:H5'	1.91	0.70
29:B1:3063:C:O2'	29:B1:3064:U:H5'	1.92	0.70
29:B1:517:G:P	29:B1:517:G:H3'	2.29	0.70
29:B1:67:A:C8	29:B1:317:A:H1'	2.27	0.70
29:B1:710:A:O2'	29:B1:711:A:H5'	1.91	0.70
29:B1:953:G:C3'	29:B1:953:G:C8	2.73	0.70
1:C1:202:A:C6	1:C1:203:U:O4	2.45	0.70
29:D1:1315:U:O2	29:D1:1315:U:H2'	1.89	0.70
29:D1:155:G:H8	29:D1:155:G:OP2	1.74	0.70
29:D1:1838:G:O5'	29:D1:1838:G:H8	1.74	0.70
29:D1:2896:A:H2'	29:D1:2897:A:H5''	1.74	0.70
29:D1:3377:G:C1'	29:D1:3378:C:OP1	2.39	0.70
29:D1:750:G:N1	29:D1:784:A:H1'	2.06	0.70
29:D1:760:G:N3	29:D1:760:G:H2'	2.04	0.70
29:D1:887:G:C6	29:D1:888:A:C6	2.80	0.70
31:D3:55:U:H2'	31:D3:56:G:C8	2.23	0.70
29:B1:2725:U:H5	29:B1:2727:A:HO2'	1.39	0.70
31:B3:92:A:N3	31:B3:92:A:H2'	2.07	0.70
1:C1:1456:C:H5''	1:C1:1457:C:C5'	2.22	0.70
1:A1:1346:A:H2	15:AN:13:GLU:O	1.74	0.70
1:A1:1558:U:H3'	1:A1:1558:U:H6	1.55	0.70
29:B1:3214:U:OP2	29:B1:3215:A:OP2	2.09	0.70
29:D1:3198:U:C3'	29:D1:3199:G:C8	2.74	0.70
29:B1:1324:U:H5'	29:B1:1324:U:C6	2.27	0.70
29:B1:1260:A:H3'	29:B1:1261:G:N2	2.07	0.70
15:CN:21:LYS:H	15:CN:92:ASP:HA	1.55	0.70
29:D1:1646:G:O2'	29:D1:1808:G:N2	2.21	0.70
29:D1:2234:G:O6	74:D1:3473:OHX:N5	2.25	0.70
1:A1:1310:U:H2'	1:A1:1311:U:H6	1.56	0.70
1:A1:1388:A:C6	1:A1:1411:A:C5	2.79	0.70
1:A1:1409:G:H2'	1:A1:1411:A:N7	2.07	0.70
30:D2:121:U:H5''	36:DE:263:GLU:CB	2.22	0.70
30:D2:121:U:O3'	36:DE:266:ALA:HB3	1.91	0.70
29:D1:1915:A:H2'	29:D1:1916:U:C6	2.27	0.70
29:D1:130:A:C2	29:D1:131:C:N4	2.60	0.70
1:A1:357:G:C5	1:A1:358:U:C5	2.79	0.70
45:BP:119:VAL:O	45:BP:120:VAL:O	2.09	0.70
45:BP:81:TYR:O	45:BP:83:ALA:N	2.24	0.70
1:A1:1764:C:H5'	1:A1:1764:C:C6	2.27	0.70
1:A1:813:U:O2	1:A1:813:U:H2'	1.90	0.70
29:B1:1192:C:H5'	29:B1:1298:C:OP1	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1288:U:O2	29:B1:1289:G:C8	2.45	0.70
29:B1:2932:U:C2	29:B1:2934:A:OP2	2.45	0.70
29:B1:3087:A:H2'	29:B1:3088:G:C8	2.27	0.70
29:B1:3111:U:H2'	29:B1:3112:G:H5'	1.73	0.70
29:B1:3060:C:O2'	29:B1:3331:U:O2	2.05	0.70
29:B1:683:U:C2'	29:B1:684:G:H5'	2.22	0.70
1:C1:1142:A:O2'	1:C1:1143:A:O4'	2.09	0.70
1:C1:272:U:OP1	1:C1:272:U:H4'	1.90	0.70
1:C1:315:A:C5	1:C1:350:U:H5	2.10	0.70
1:C1:973:A:O3'	29:D1:848:A:H1'	1.90	0.70
29:D1:12:A:OP2	29:D1:12:A:H8	1.75	0.70
29:D1:152:U:O2'	29:D1:153:U:H5'	1.91	0.70
29:D1:158:G:C6	29:D1:159:A:O2'	2.45	0.70
29:D1:1884:A:C6	29:D1:1885:U:N3	2.58	0.70
29:D1:280:U:C6	29:D1:282:G:OP2	2.45	0.70
29:D1:2846:U:O2	29:D1:2850:G:O6	2.09	0.70
29:D1:287:G:O2'	29:D1:288:C:H5'	1.92	0.70
29:D1:2997:G:N3	29:D1:2998:U:C5'	2.55	0.70
29:D1:3114:A:C5	29:D1:3115:C:C5	2.80	0.70
29:D1:3153:U:C4	29:D1:3160:U:H1'	2.27	0.70
29:D1:536:U:H1'	29:D1:537:A:OP2	1.90	0.70
29:D1:585:A:H3'	29:D1:586:C:H6	1.57	0.70
29:D1:714:G:HO2'	29:D1:751:A:HO2'	1.39	0.70
31:D3:106:C:O4'	31:D3:138:A:C8	2.45	0.70
31:D3:67:U:H3'	31:D3:68:G:C8	2.25	0.70
29:D1:1543:G:OP1	44:DO:34:ASN:HA	1.92	0.70
1:C1:228:G:O2'	1:C1:229:U:H6	1.75	0.70
29:B1:995:U:O4	29:B1:2637:A:C4	2.45	0.70
30:B2:60:G:H2'	30:B2:61:G:H8	1.56	0.70
31:B3:69:U:H2'	31:B3:70:G:C1'	2.22	0.70
30:D2:73:C:H42	30:D2:74:C:H41	1.38	0.70
29:B1:2684:C:C2	29:B1:2685:C:C6	2.80	0.70
1:C1:1238:A:H2'	1:C1:1239:U:H5'	1.73	0.70
1:C1:1243:G:C6	1:C1:1244:A:N6	2.59	0.70
1:A1:1203:A:H4'	1:A1:1204:A:OP2	1.92	0.70
30:B2:95:A:C2	30:B2:96:U:C2	2.80	0.70
29:B1:3204:C:H5'	43:BN:88:ALA:HB3	1.73	0.70
29:D1:3181:C:O2	29:D1:3181:C:H2'	1.92	0.70
29:D1:3174:A:OP2	29:D1:3174:A:H4'	1.91	0.70
29:D1:3257:C:OP2	29:D1:3257:C:H6	1.75	0.70
9:CH:11:SER:CB	9:CH:12:GLN:HA	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1315:U:H5''	1:C1:1329:A:N3	2.07	0.70
1:A1:1334:U:H5''	1:A1:1335:U:OP2	1.91	0.70
29:D1:834:U:C5'	29:D1:834:U:H6	2.05	0.70
1:A1:351:C:N3	7:AF:102:LYS:O	2.24	0.70
37:BF:86:ALA:HB1	37:BF:87:THR:CA	2.21	0.70
1:C1:1580:C:O2'	1:C1:1581:C:O4'	2.03	0.70
1:C1:1657:U:H1'	1:C1:1658:G:OP2	1.91	0.70
44:BO:79:ALA:H	44:BO:80:THR:CB	2.04	0.70
29:B1:1543:G:OP1	44:BO:34:ASN:HA	1.92	0.70
29:D1:2553:U:H1'	29:D1:2554:A:H5'	1.72	0.70
74:B1:3519:OHX:N4	74:B1:3605:OHX:N1	2.40	0.70
29:B1:1830:G:H2'	29:B1:1831:U:H6	1.55	0.70
1:A1:377:G:O2'	1:A1:378:A:OP2	2.10	0.70
1:A1:438:A:O2'	1:A1:439:U:H5''	1.91	0.70
1:A1:518:A:N1	1:A1:535:A:N3	2.40	0.70
29:B1:1689:U:C4	29:B1:1690:C:C5	2.79	0.70
29:B1:1857:C:OP2	29:B1:1857:C:H6	1.74	0.70
29:B1:2897:A:C2	29:B1:2905:U:C2	2.79	0.70
29:B1:3135:U:C4	29:B1:3136:G:C5	2.80	0.70
29:B1:536:U:H6	29:B1:536:U:P	2.13	0.70
29:B1:564:G:H3'	29:B1:565:U:C5	2.27	0.70
1:C1:1118:G:C2	1:C1:1119:G:C4	2.79	0.70
1:C1:18:C:C2	1:C1:19:A:C8	2.80	0.70
1:C1:817:A:H5''	1:C1:818:C:OP2	1.91	0.70
1:C1:14:C:OP2	3:CB:162:CYS:C	2.30	0.70
29:D1:1105:A:H2'	29:D1:1106:G:C8	2.25	0.70
29:D1:1174:G:O2'	29:D1:1175:C:H5'	1.91	0.70
29:D1:1199:C:H2'	29:D1:1199:C:O2	1.91	0.70
29:D1:1498:A:O2'	29:D1:1499:C:H5'	1.92	0.70
29:D1:2135:U:H2'	29:D1:2136:C:H6	1.56	0.70
29:D1:2255:A:P	74:D1:3415:OHX:N2	2.65	0.70
29:D1:2289:U:C2'	29:D1:2290:C:H5'	2.22	0.70
29:D1:2299:A:H8	29:D1:2299:A:H5'	1.56	0.70
29:D1:2378:C:O2	29:D1:2378:C:H2'	1.91	0.70
29:D1:2424:A:H5''	29:D1:2425:G:OP2	1.91	0.70
29:D1:2665:U:N3	29:D1:2706:G:N1	2.40	0.70
29:D1:959:C:H41	29:D1:2801:A:C5'	2.04	0.70
29:D1:3013:U:C5'	29:D1:3013:U:C6	2.75	0.70
29:D1:3063:C:O2'	29:D1:3064:U:H5'	1.92	0.70
29:D1:344:A:C2	29:D1:345:G:H1'	2.27	0.70
29:D1:563:U:C2	29:D1:564:G:O4'	2.44	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:573:C:C2	29:D1:574:U:C5	2.80	0.70
37:DF:159:LEU:C	37:DF:161:ALA:H	1.92	0.70
74:D1:3543:OHX:N3	38:DG:217:PRO:O	2.25	0.70
1:C1:833:U:H3'	1:C1:834:G:C5'	2.22	0.70
30:B2:13:A:OP2	30:B2:112:G:N2	2.21	0.70
30:B2:14:U:H2'	30:B2:15:C:O5'	1.92	0.70
1:C1:326:G:O6	1:C1:337:G:O6	2.08	0.70
1:A1:1714:A:H2'	1:A1:1715:G:O4'	1.91	0.70
1:C1:1158:C:H42	1:C1:1163:A:H61	1.37	0.70
1:A1:1524:A:C2'	1:A1:1525:A:C8	2.72	0.70
1:A1:1592:A:C4	1:A1:1605:G:N2	2.59	0.70
1:A1:1614:A:C2	1:A1:1616:G:OP2	2.43	0.70
4:CC:27:ARG:O	4:CC:29:LEU:N	2.25	0.70
29:B1:3215:A:P	29:B1:3218:A:H5''	2.32	0.70
29:B1:3280:U:H6	29:B1:3280:U:OP2	1.74	0.70
29:D1:1393:A:C8	29:D1:1418:A:C4	2.79	0.70
29:B1:1261:G:O2'	29:B1:1262:G:C5	2.45	0.70
29:B1:2513:U:C5	29:B1:2591:A:N1	2.58	0.70
29:D1:1625:A:H3'	29:D1:1626:U:H5''	1.74	0.70
17:CP:109:ARG:N	17:CP:110:LYS:CA	2.54	0.70
29:D1:2098:C:H2'	29:D1:2099:A:C8	2.26	0.70
1:A1:1334:U:C2	1:A1:1335:U:C6	2.79	0.70
1:A1:1123:C:H5	1:A1:1124:A:C5	2.08	0.70
34:BC:94:GLU:HA	34:BC:154:TYR:CB	2.21	0.70
1:A1:1656:U:C5'	1:A1:1657:U:O5'	2.40	0.70
1:A1:312:A:C2	1:A1:314:C:H2'	2.27	0.70
47:DR:126:GLN:O	47:DR:128:ALA:N	2.22	0.70
47:BR:126:GLN:O	47:BR:128:ALA:N	2.23	0.70
1:C1:926:A:H2'	1:C1:927:C:H5'	1.74	0.70
38:BG:237:ASN:O	38:BG:240:VAL:N	2.25	0.70
29:B1:2506:U:H2'	29:B1:2507:C:C5	2.26	0.70
15:AN:25:THR:HA	15:AN:90:TYR:HA	1.74	0.70
73:DM:100:ILE:O	73:DM:102:SER:N	2.23	0.70
1:A1:528:U:H4'	1:A1:529:A:O4'	1.91	0.70
1:A1:544:A:C2	1:A1:545:A:H8	2.09	0.70
29:B1:115:A:C8	29:B1:116:A:C2	2.80	0.70
29:B1:1287:A:OP1	29:B1:1287:A:H4'	1.92	0.70
29:B1:1204:A:H62	29:B1:1300:G:H21	1.39	0.70
29:B1:1604:G:H8	29:B1:1605:A:H5''	1.57	0.70
29:B1:2294:U:O2	29:B1:2296:A:H2'	1.90	0.70
29:B1:2846:U:O2	29:B1:2850:G:O6	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3113:A:C2	29:B1:3122:A:C5	2.80	0.70
29:B1:3325:G:H2'	29:B1:3326:G:O4'	1.92	0.70
29:B1:3328:G:C2	29:B1:3375:A:N7	2.60	0.70
29:B1:416:A:C2	29:B1:417:A:C4	2.80	0.70
29:B1:423:A:H2'	29:B1:424:G:O5'	1.92	0.70
29:B1:504:A:C2	29:B1:587:U:C2	2.70	0.70
29:B1:542:G:H2'	29:B1:543:C:H6	1.54	0.70
29:B1:592:A:C2	29:B1:593:C:C2	2.80	0.70
29:B1:776:U:H5'	29:B1:777:U:H6	1.55	0.70
29:B1:785:G:OP1	29:B1:785:G:C8	2.45	0.70
29:B1:865:U:O4	29:B1:866:A:C6	2.45	0.70
29:B1:866:A:H8	29:B1:867:G:C8	2.09	0.70
34:BC:2:SER:O	34:BC:4:ARG:N	2.24	0.70
34:BC:4:ARG:C	34:BC:6:TYR:N	2.44	0.70
1:C1:149:C:C2	1:C1:150:U:C5	2.80	0.70
1:C1:469:C:OP1	1:C1:469:C:N3	2.25	0.70
1:C1:509:G:C4	1:C1:510:G:N7	2.60	0.70
1:C1:811:A:N3	1:C1:858:G:H1'	2.07	0.70
29:D1:1178:G:C2'	29:D1:1179:A:H5'	2.22	0.70
29:D1:1580:A:H3'	29:D1:1581:C:H5'	1.73	0.70
29:D1:1851:G:H8	29:D1:1851:G:O5'	1.74	0.70
29:D1:2296:A:O2'	29:D1:2297:U:H5'	1.92	0.70
29:D1:3099:C:H5'	29:D1:3099:C:H6	1.57	0.70
29:D1:3303:G:C1'	29:D1:3304:U:H5'	2.22	0.70
29:D1:3316:A:N6	29:D1:3387:U:N3	2.40	0.70
29:D1:588:G:C6	29:D1:612:U:C5	2.80	0.70
29:D1:769:G:C2	29:D1:770:G:C4	2.80	0.70
29:D1:779:G:C4	29:D1:780:A:C8	2.80	0.70
29:D1:937:G:N2	29:D1:960:U:C5'	2.53	0.70
1:A1:739:G:H2'	1:A1:740:A:C8	2.27	0.70
1:C1:686:C:C2'	1:C1:687:G:H8	1.97	0.70
1:A1:283:U:O3'	1:A1:284:G:H4'	1.92	0.70
1:A1:1681:A:H5'	1:A1:1682:U:OP2	1.92	0.70
1:C1:1186:U:H2'	1:C1:1187:U:O4'	1.92	0.70
1:C1:1200:G:H5'	1:C1:1201:G:C8	2.26	0.70
1:C1:1515:A:H8	15:CN:58:LEU:CB	2.03	0.70
1:C1:1533:C:H3'	1:C1:1534:G:C8	2.27	0.70
1:A1:1367:G:H5''	1:A1:1368:G:OP2	1.91	0.70
1:A1:1497:U:C2	1:A1:1498:G:C8	2.80	0.70
29:B1:3218:A:H2'	29:B1:3219:G:H3'	1.73	0.70
30:B2:40:C:O2	42:BK:69:VAL:HA	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:157:A:O2'	1:C1:158:U:H5'	1.92	0.70
29:B1:1063:G:C8	29:B1:1064:A:O4'	2.44	0.70
29:D1:2513:U:O2'	29:D1:2514:U:O5'	2.09	0.70
29:D1:3069:G:C2	29:D1:3070:A:N7	2.60	0.70
29:D1:1913:A:N3	29:D1:2120:A:C8	2.59	0.70
29:D1:1713:G:C8	29:D1:1714:A:H2	2.09	0.70
36:DE:128:GLU:CB	36:DE:129:TYR:CA	2.69	0.70
29:D1:1493:G:H21	29:D1:1493:G:P	2.15	0.70
34:BC:192:VAL:O	34:BC:195:ALA:HB3	1.92	0.70
37:BF:124:GLU:C	37:BF:126:GLN:H	1.96	0.70
29:D1:3050:U:C5	29:D1:3051:U:C5	2.80	0.70
74:D1:3471:OHX:N3	74:D1:3607:OHX:N1	2.40	0.70
33:DB:49:VAL:O	33:DB:50:HIS:O	2.10	0.70
10:AI:17:TYR:CB	10:AI:18:ARG:CB	2.70	0.70
4:CC:115:ILE:HA	4:CC:118:ALA:HB3	1.72	0.70
45:BP:192:LYS:C	45:BP:194:LEU:H	1.94	0.70
1:A1:1745:G:O2'	1:A1:1746:A:C8	2.45	0.69
1:A1:26:A:H2	1:A1:600:U:C2	2.10	0.69
29:B1:1169:A:C2	29:B1:1330:A:C6	2.79	0.69
29:B1:1448:U:C5	29:B1:2355:G:N2	2.57	0.69
29:B1:2896:A:O2'	29:B1:2897:A:P	2.50	0.69
29:B1:2916:U:H5	29:B1:2935:U:O2'	1.75	0.69
29:B1:285:A:C2	29:B1:304:G:O3'	2.45	0.69
29:B1:3135:U:C5	29:B1:3136:G:N7	2.60	0.69
29:B1:431:U:O2'	29:B1:432:G:P	2.50	0.69
29:B1:594:U:C2'	29:B1:594:U:O2	2.39	0.69
29:B1:637:C:O2'	29:B1:638:C:H6	1.74	0.69
29:B1:698:U:C1'	29:B1:699:A:OP1	2.39	0.69
31:B3:104:A:OP2	31:B3:105:A:H2'	1.91	0.69
31:B3:19:C:C5	31:B3:20:U:C5	2.79	0.69
1:C1:129:U:H5	1:C1:264:G:C5	2.10	0.69
1:C1:270:C:H3'	1:C1:271:A:H5''	1.73	0.69
1:C1:55:A:C2	1:C1:403:G:C5	2.80	0.69
1:C1:606:A:C5	1:C1:608:U:C5	2.80	0.69
29:D1:1220:U:C6	29:D1:1220:U:H3'	2.27	0.69
29:D1:299:G:O5'	29:D1:299:G:H8	1.74	0.69
29:D1:3108:G:C2	29:D1:3109:G:C8	2.80	0.69
29:D1:3390:G:C2	29:D1:3391:A:C4	2.80	0.69
29:D1:49:A:C6	29:D1:279:U:H4'	2.27	0.69
29:D1:606:C:H3'	29:D1:607:A:H8	1.00	0.69
31:D3:69:U:H2'	31:D3:70:G:C4'	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DG:74:SER:CB	38:DG:75:TYR:CA	2.69	0.69
1:C1:824:G:C5'	1:C1:825:U:H5'	2.21	0.69
1:C1:830:U:O2	1:C1:830:U:H2'	1.91	0.69
1:C1:746:A:H2'	1:C1:747:C:O4'	1.92	0.69
1:C1:807:A:C2	1:C1:808:U:C2	2.80	0.69
29:B1:2697:A:H2'	29:B1:2698:G:C8	2.26	0.69
30:B2:111:U:O3'	30:B2:112:G:O3'	2.10	0.69
30:B2:12:U:C2'	30:B2:13:A:N1	2.55	0.69
30:B2:16:U:H2'	30:B2:17:A:C8	2.26	0.69
30:B2:98:C:H2'	30:B2:98:C:O2	1.90	0.69
31:B3:78:G:O6	31:B3:79:A:N6	2.25	0.69
41:BJ:177:ASP:HA	41:BJ:178:ARG:C	2.09	0.69
30:D2:69:C:H2'	30:D2:69:C:O2	1.92	0.69
1:C1:1689:A:N3	1:C1:1689:A:H2'	2.06	0.69
29:B1:2673:A:H2	29:B1:2674:A:C6	2.09	0.69
1:A1:1689:A:H2'	1:A1:1689:A:N3	2.06	0.69
1:C1:1259:U:O5'	1:C1:1259:U:C6	2.44	0.69
1:C1:1269:U:N3	1:C1:1432:U:O4'	2.24	0.69
1:C1:1614:A:C2	1:C1:1616:G:OP2	2.44	0.69
1:A1:1274:C:H6	1:A1:1427:A:N6	1.87	0.69
1:A1:1468:U:O2'	1:A1:1469:A:O4'	2.10	0.69
29:D1:3210:A:C8	29:D1:3211:C:H5	2.10	0.69
29:B1:1324:U:C5'	29:B1:1324:U:C6	2.73	0.69
1:A1:912:U:H4'	1:A1:912:U:OP1	1.91	0.69
29:B1:3274:A:C1'	29:B1:3275:U:P	2.79	0.69
29:B1:2881:C:O2'	29:B1:2882:U:O4'	2.05	0.69
1:A1:350:U:C4'	1:A1:352:A:C8	2.75	0.69
29:B1:2287:C:N3	29:B1:2298:U:O2	2.25	0.69
29:D1:1640:G:H5''	29:D1:1738:C:OP1	1.92	0.69
29:B1:1644:C:C4	74:B1:3505:OHX:N1	2.60	0.69
29:B1:2746:A:C6	29:B1:2747:A:C2	2.80	0.69
1:C1:569:C:H1'	1:C1:583:C:H5'	1.74	0.69
1:A1:1104:U:C5	1:A1:1105:C:C5	2.80	0.69
1:A1:1137:A:C2	1:A1:1138:A:C5	2.80	0.69
1:A1:105:A:C2	74:A1:1910:OHX:N6	2.60	0.69
29:B1:1119:C:C2	29:B1:1120:A:C8	2.80	0.69
29:B1:1838:G:O5'	29:B1:1838:G:H8	1.75	0.69
29:B1:2168:A:N1	29:B1:2170:U:H1'	2.07	0.69
1:A1:1780:G:C1'	29:B1:2262:A:O2'	2.35	0.69
29:B1:226:C:H2'	29:B1:227:G:O4'	1.91	0.69
1:A1:1746:A:H1'	29:B1:2291:A:H1'	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2295:A:N6	29:B1:2296:A:N6	2.40	0.69
29:B1:2872:A:H4'	29:B1:2873:U:OP1	1.91	0.69
29:B1:3041:U:O2'	29:B1:3042:U:H5'	1.92	0.69
29:B1:3324:C:H2'	29:B1:3325:G:C8	2.22	0.69
29:B1:413:U:C2	29:B1:414:U:C5	2.80	0.69
29:B1:723:U:H2'	29:B1:724:U:C5'	2.21	0.69
29:B1:744:A:C5	29:B1:745:C:C4	2.80	0.69
29:B1:807:A:H8	29:B1:807:A:H3'	1.56	0.69
1:C1:379:U:OP2	1:C1:380:U:OP2	2.11	0.69
1:C1:590:C:H2'	1:C1:591:A:C8	2.27	0.69
1:C1:867:G:C4	1:C1:868:G:C8	2.80	0.69
29:D1:1317:A:H8	29:D1:1317:A:H5'	1.57	0.69
29:D1:144:A:H2'	29:D1:145:G:O4'	1.92	0.69
29:D1:2287:C:O2	29:D1:2298:U:O2	2.11	0.69
29:D1:2359:C:H2'	29:D1:2360:C:C6	2.27	0.69
29:D1:3299:A:N3	29:D1:3300:U:C6	2.61	0.69
29:D1:3322:A:N6	29:D1:3323:A:N6	2.40	0.69
29:D1:597:G:C2	29:D1:598:A:C4	2.81	0.69
29:D1:64:G:H22	29:D1:322:U:H2'	1.55	0.69
29:D1:680:G:H5''	29:D1:681:U:OP2	1.92	0.69
29:D1:712:G:H21	29:D1:753:C:P	2.16	0.69
1:A1:217:A:H1'	1:A1:218:A:H5'	1.72	0.69
29:B1:2703:A:C3'	29:B1:2704:A:H5'	2.21	0.69
30:B2:75:G:OP1	74:B2:201:OHX:N2	2.25	0.69
29:B1:2677:G:N1	29:B1:2679:A:C5	2.60	0.69
1:C1:1246:C:C5	1:C1:1247:U:C5	2.79	0.69
1:C1:1583:A:N3	1:C1:1585:U:N3	2.40	0.69
1:C1:1616:G:O2'	1:C1:1617:U:H5'	1.91	0.69
1:A1:1356:U:H2'	1:A1:1357:A:C8	2.25	0.69
1:A1:1481:C:H4'	1:A1:1482:C:OP1	1.91	0.69
11:AJ:81:ILE:O	11:AJ:84:ALA:HB3	1.92	0.69
29:B1:3282:U:O2	29:B1:3283:U:C5	2.45	0.69
37:DF:21:THR:H	37:DF:112:THR:HA	1.55	0.69
29:D1:221:A:C2	29:D1:224:C:C5	2.80	0.69
29:D1:400:G:H5''	29:D1:403:C:O2'	1.92	0.69
29:B1:2596:U:H2'	29:B1:2597:U:C6	2.27	0.69
1:C1:1391:A:H2'	1:C1:1392:U:C6	2.26	0.69
1:C1:1409:G:H2'	1:C1:1411:A:N7	2.07	0.69
1:C1:1754:A:H1'	1:C1:1755:A:C2	2.27	0.69
39:BH:194:THR:CB	39:BH:195:SER:CA	2.70	0.69
9:AH:11:SER:CB	9:AH:12:GLN:HA	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:1:G:H2'	30:D2:1:G:N3	2.05	0.69
1:C1:1124:A:O2'	1:C1:1125:A:H5'	1.93	0.69
33:DB:78:ALA:O	33:DB:80:GLU:N	2.25	0.69
46:BQ:33:ALA:C	46:BQ:35:ALA:H	1.95	0.69
29:B1:2095:G:C2'	29:B1:2096:A:H5'	2.22	0.69
16:CO:98:GLN:O	16:CO:100:GLY:N	2.24	0.69
1:A1:410:A:C2	1:A1:411:C:C2	2.80	0.69
73:DM:53:MET:CB	73:DM:85:GLY:HA2	2.22	0.69
1:A1:1075:C:C4	1:A1:1076:A:C6	2.80	0.69
1:A1:1097:U:C2'	1:A1:1098:U:H5'	2.21	0.69
1:A1:1778:G:N1	1:A1:1779:U:C4	2.60	0.69
1:A1:17:C:C2	1:A1:18:C:C5	2.81	0.69
1:A1:29:U:H2'	1:A1:30:G:H8	1.57	0.69
29:B1:1377:G:C2	29:B1:1378:U:C5	2.80	0.69
29:B1:1658:G:C6	29:B1:1796:G:O6	2.44	0.69
29:B1:190:U:H5'	29:B1:191:U:OP1	1.91	0.69
29:B1:2196:C:N4	29:B1:2242:A:N7	2.40	0.69
29:B1:2877:G:H2'	29:B1:2878:G:O4'	1.90	0.69
29:B1:2963:C:C2'	29:B1:2964:G:H5'	2.22	0.69
29:B1:3065:G:H2'	29:B1:3066:U:H6	1.56	0.69
29:B1:3386:G:H3'	29:B1:3386:G:C8	2.28	0.69
29:B1:586:C:O2	29:B1:586:C:H2'	1.92	0.69
29:B1:590:G:O2'	29:B1:591:G:P	2.50	0.69
29:B1:649:A:N3	29:B1:650:C:C5	2.60	0.69
29:B1:759:U:N3	29:B1:773:G:C5	2.60	0.69
29:B1:769:G:C2	29:B1:770:G:C4	2.80	0.69
29:B1:880:G:N9	29:B1:882:A:N7	2.41	0.69
29:B1:917:A:C2	29:B1:918:C:C2	2.79	0.69
1:C1:1000:C:C5	1:C1:1003:A:OP2	2.42	0.69
1:C1:1625:C:H2'	1:C1:1626:U:H6	1.56	0.69
1:C1:560:U:H2'	1:C1:561:G:H8	1.57	0.69
29:D1:1129:A:N6	29:D1:1130:A:N6	2.40	0.69
29:D1:1196:C:C6	29:D1:1197:A:N7	2.60	0.69
29:D1:1209:G:H2'	29:D1:1210:U:C6	2.27	0.69
29:D1:1608:C:C2'	29:D1:1609:C:H5'	2.22	0.69
29:D1:1453:A:C1'	29:D1:1850:A:C2	2.75	0.69
29:D1:2395:G:H2'	29:D1:2396:G:C5'	2.22	0.69
29:D1:2716:U:C3'	29:D1:2717:U:H5''	2.21	0.69
29:D1:2776:C:H5'	29:D1:2777:G:C5'	2.22	0.69
29:D1:3117:C:C2'	29:D1:3118:C:H5'	2.16	0.69
29:D1:510:G:N2	29:D1:511:G:H1'	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:516:A:H3'	29:D1:517:G:N7	2.07	0.69
29:D1:608:A:H2'	29:D1:609:G:O5'	1.93	0.69
1:C1:1714:A:H2'	1:C1:1715:G:O4'	1.92	0.69
1:A1:243:G:H2'	1:A1:244:A:C8	2.22	0.69
1:C1:1175:U:H3	1:C1:1464:G:H1	1.39	0.69
29:B1:3211:C:H2'	29:B1:3212:C:C6	2.26	0.69
30:B2:46:A:OP2	30:B2:46:A:C6	2.45	0.69
29:B1:3026:G:C2	29:B1:3030:G:C6	2.80	0.69
29:D1:186:U:H5''	29:D1:187:A:OP2	1.91	0.69
29:B1:2592:G:O6	74:B1:3449:OHX:N4	2.25	0.69
29:D1:1623:G:C2	29:D1:1624:G:H1'	2.26	0.69
29:B1:1468:A:H2'	29:B1:1469:C:C6	2.26	0.69
20:CS:21:CYS:O	20:CS:23:VAL:O	2.10	0.69
1:C1:912:U:H4'	1:C1:912:U:OP1	1.90	0.69
29:B1:2102:U:H2'	29:B1:2103:U:C6	2.27	0.69
1:C1:1733:C:C4	1:C1:1734:U:C4	2.80	0.69
36:BE:128:GLU:CB	36:BE:129:TYR:CA	2.71	0.69
17:AP:127:VAL:CB	17:AP:129:GLY:H	2.06	0.69
29:B1:3049:A:C2	34:BC:75:ALA:HB2	2.27	0.69
1:C1:951:A:H2'	1:C1:952:A:O5'	1.92	0.69
33:BB:188:LYS:C	33:BB:190:ARG:H	1.93	0.69
41:DJ:155:ALA:O	41:DJ:158:LYS:N	2.24	0.69
45:BP:14:HIS:HA	45:BP:122:GLN:O	1.92	0.69
1:A1:1043:A:H2'	1:A1:1044:U:C5	2.28	0.69
1:A1:1099:U:C6	1:A1:1100:G:C6	2.80	0.69
29:B1:1144:U:H6	29:B1:1144:U:O5'	1.75	0.69
29:B1:1178:G:N7	29:B1:1179:A:C6	2.61	0.69
29:B1:1393:A:C8	29:B1:1418:A:C5	2.80	0.69
29:B1:1450:G:O5'	29:B1:1450:G:C8	2.46	0.69
29:B1:219:A:H2	29:B1:1390:A:H2'	1.55	0.69
29:B1:2253:G:C8	29:B1:2254:U:C5	2.81	0.69
29:B1:23:A:H2'	29:B1:23:A:N3	2.07	0.69
29:B1:2393:G:N1	29:B1:2982:A:C2	2.56	0.69
29:B1:2997:G:H1'	29:B1:2998:U:C5'	2.22	0.69
29:B1:3297:U:C2	29:B1:3298:C:C6	2.80	0.69
29:B1:522:A:H3'	29:B1:523:A:H5''	1.74	0.69
29:B1:591:G:N2	29:B1:592:A:C4	2.60	0.69
29:B1:715:A:H3'	54:BY:115:LYS:CB	2.23	0.69
29:B1:882:A:H2'	29:B1:883:A:H5''	1.73	0.69
29:B1:887:G:H2'	29:B1:888:A:H8	1.57	0.69
1:C1:10:G:C5	1:C1:1633:A:C2	2.79	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:267:U:C2'	1:C1:267:U:O2	2.40	0.69
1:C1:35:U:O2'	1:C1:36:C:H5'	1.92	0.69
1:C1:396:G:H22	1:C1:399:A:H5''	1.58	0.69
1:C1:50:C:C4	1:C1:424:C:C5	2.80	0.69
29:D1:1495:U:H3'	29:D1:1496:C:H5'	1.74	0.69
29:D1:2300:G:O2'	29:D1:2328:U:H1'	1.92	0.69
29:D1:2812:C:H2'	29:D1:2813:A:C8	2.23	0.69
29:D1:3096:C:H2'	29:D1:3097:C:C6	2.27	0.69
29:D1:3303:G:H1'	29:D1:3304:U:O5'	1.92	0.69
29:D1:346:C:H41	29:D1:348:A:H3'	1.53	0.69
74:D1:3588:OHX:N5	74:D1:3589:OHX:N6	2.41	0.69
29:D1:592:A:C6	29:D1:593:C:C6	2.79	0.69
29:D1:776:U:C5'	29:D1:777:U:H6	2.06	0.69
29:D1:1618:G:H4'	31:D3:129:C:H1'	1.74	0.69
40:DI:170:LYS:O	40:DI:171:ASP:C	2.30	0.69
1:C1:833:U:H2'	1:C1:833:U:O2	1.93	0.69
1:C1:643:G:C2	1:C1:692:C:N3	2.60	0.69
30:B2:9:C:C2'	30:B2:13:A:N6	2.54	0.69
1:A1:142:G:C5	1:A1:266:A:C6	2.80	0.69
1:A1:336:G:H2'	1:A1:338:C:C5	2.27	0.69
1:A1:1185:U:O2'	1:A1:1456:C:H4'	1.93	0.69
1:A1:1363:U:H2'	1:A1:1364:G:C8	2.28	0.69
1:A1:1378:U:C5'	1:A1:1379:C:H6	2.06	0.69
1:A1:1207:C:O2	1:A1:1455:G:N1	2.25	0.69
1:A1:1526:A:OP2	1:A1:1527:C:H5	1.75	0.69
30:B2:88:G:H2'	30:B2:89:G:H8	1.58	0.69
42:BK:18:VAL:HA	42:BK:70:THR:CB	2.22	0.69
29:B1:1323:G:H3'	29:B1:1324:U:C5'	2.16	0.69
29:B1:1280:C:H2'	29:B1:1281:G:H8	1.52	0.69
29:B1:70:A:H2	29:B1:71:A:O2'	1.73	0.69
29:B1:983:A:C2	29:B1:985:U:C4	2.80	0.69
39:BH:185:ARG:C	39:BH:187:GLY:H	1.95	0.69
29:D1:1382:G:H2'	29:D1:1383:G:O4'	1.92	0.69
29:D1:1914:G:H3'	29:D1:1915:A:C8	2.27	0.69
29:D1:2155:G:H2'	29:D1:2156:C:C6	2.26	0.69
29:B1:2571:U:H3'	29:B1:2572:C:H6	1.58	0.69
31:D3:34:U:C2	31:D3:34:U:H3'	2.26	0.69
1:C1:710:U:C2	1:C1:729:G:C2	2.81	0.69
35:DD:119:ARG:C	35:DD:121:ALA:N	2.44	0.69
6:CE:106:GLU:HA	6:CE:111:THR:CB	2.23	0.69
29:B1:2098:C:H2'	29:B1:2099:A:C8	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BJ:37:GLY:HA3	41:BJ:86:HIS:H	1.57	0.69
35:BD:259:ASP:HA	35:BD:260:GLN:C	2.13	0.69
45:DP:14:HIS:HA	45:DP:122:GLN:O	1.91	0.69
2:AA:139:VAL:O	2:AA:141:ILE:N	2.26	0.69
1:A1:1003:A:N7	1:A1:1005:A:N1	2.39	0.69
1:A1:498:G:H1'	1:A1:499:U:H5	1.57	0.69
1:A1:55:A:O2'	1:A1:56:U:O5'	2.08	0.69
29:B1:1174:G:C2	29:B1:1175:C:C6	2.81	0.69
29:B1:3377:G:C2'	29:B1:3378:C:OP1	2.40	0.69
29:B1:3395:G:O2'	29:B1:3396:U:P	2.51	0.69
29:B1:581:U:O2'	29:B1:582:G:H5'	1.93	0.69
29:B1:836:A:C6	29:B1:837:A:N7	2.60	0.69
29:B1:88:A:N3	29:B1:89:A:H1'	2.07	0.69
1:C1:167:U:H5'	1:C1:167:U:H6	1.58	0.69
1:C1:28:A:H2'	1:C1:29:U:H6	1.50	0.69
1:C1:623:A:H3'	1:C1:623:A:OP2	1.93	0.69
1:C1:986:G:H2'	1:C1:987:G:H8	1.57	0.69
29:D1:1119:C:H1'	29:D1:1154:A:N3	2.06	0.69
29:D1:1226:G:C4	29:D1:1227:C:C5	2.80	0.69
29:D1:2168:A:N1	29:D1:2170:U:H1'	2.05	0.69
29:D1:2294:U:C5'	29:D1:2295:A:OP2	2.40	0.69
29:D1:2667:A:N6	29:D1:2690:G:C2	2.57	0.69
29:D1:2697:A:H2'	29:D1:2698:G:C8	2.26	0.69
29:D1:3152:U:H4'	29:D1:3153:U:OP2	1.92	0.69
29:D1:3375:A:OP2	29:D1:3375:A:H4'	1.92	0.69
29:D1:3393:U:H6	29:D1:3393:U:O5'	1.75	0.69
29:D1:523:A:C5	29:D1:524:U:C5	2.79	0.69
29:D1:550:A:H2'	29:D1:551:A:C8	2.27	0.69
31:D3:17:A:C4	31:D3:18:U:C5	2.81	0.69
31:D3:92:A:H2'	31:D3:92:A:N3	2.07	0.69
30:B2:74:C:O3'	74:B2:201:OHX:N6	2.25	0.69
31:B3:88:A:H2'	31:B3:89:A:C6	2.27	0.69
1:A1:61:A:H4'	1:A1:62:A:H3'	1.74	0.69
1:C1:1712:A:H2'	1:C1:1713:G:C8	2.26	0.69
1:C1:243:G:C6	1:C1:250:C:N4	2.58	0.69
45:DP:124:LEU:CA	45:DP:126:VAL:H	2.03	0.69
1:C1:1363:U:H2'	1:C1:1364:G:C8	2.28	0.69
1:A1:1364:G:H3'	1:A1:1365:C:H5'	1.72	0.69
1:A1:1481:C:C5	1:A1:1482:C:C2	2.80	0.69
1:A1:1558:U:OP2	1:A1:1559:A:H5'	1.92	0.69
30:B2:90:U:C4	30:B2:91:G:C5	2.80	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3212:C:N3	29:B1:3213:A:C2	2.59	0.69
29:D1:1415:U:C2	29:D1:1416:C:C5	2.79	0.69
30:B2:25:G:C4	30:B2:26:C:C5	2.80	0.69
36:DE:100:ALA:C	36:DE:102:GLY:H	1.96	0.69
1:C1:1092:A:C4	1:C1:1094:G:N7	2.59	0.69
1:C1:498:G:H1'	1:C1:499:U:H5	1.56	0.69
29:B1:2583:C:OP1	29:B1:2583:C:H4'	1.92	0.69
29:D1:3271:G:C2'	29:D1:3271:G:N3	2.56	0.69
1:A1:310:C:C2'	1:A1:311:U:O5'	2.41	0.69
29:B1:1913:A:C4	29:B1:2120:A:N7	2.59	0.69
1:C1:1575:G:H4'	1:C1:1575:G:OP1	1.91	0.69
29:B1:1023:C:H3'	29:B1:1024:G:C4'	2.21	0.69
17:AP:132:LEU:CB	17:AP:134:ALA:O	2.40	0.69
29:D1:1745:C:H2'	29:D1:1746:U:C6	2.28	0.69
45:DP:60:LYS:O	45:DP:61:ALA:O	2.09	0.69
35:BD:119:ARG:C	35:BD:121:ALA:H	1.94	0.69
1:C1:931:C:H3'	1:C1:932:U:H2'	1.74	0.69
1:A1:879:G:O2'	1:A1:880:C:H5'	1.92	0.69
45:BP:194:LEU:O	45:BP:198:GLY:N	2.26	0.69
8:CG:49:GLN:HA	8:CG:50:ILE:CB	2.22	0.69
53:BX:18:ALA:O	53:BX:22:ALA:HB2	1.92	0.69
29:B1:2218:G:O2'	29:B1:2219:A:H5'	1.92	0.69
29:B1:3249:C:O2	29:B1:3249:C:H2'	1.90	0.69
29:B1:1307:G:O2'	29:B1:1308:A:OP2	2.08	0.69
1:A1:978:A:N1	1:A1:1024:U:O2	2.26	0.69
1:A1:1760:G:C4	1:A1:1761:U:H5	2.10	0.69
1:A1:539:G:N2	1:A1:543:C:N3	2.41	0.69
1:A1:871:G:C4	1:A1:872:G:C8	2.80	0.69
1:A1:986:G:C2'	1:A1:987:G:H8	2.05	0.69
29:B1:1130:A:O2'	29:B1:1131:G:H3'	1.93	0.69
29:B1:1286:A:C2	29:B1:1287:A:H1'	2.27	0.69
29:B1:1405:U:C5	29:B1:1406:A:N7	2.61	0.69
29:B1:2285:C:H5	29:B1:2286:U:N3	1.90	0.69
29:B1:2716:U:H5'	29:B1:2717:U:OP2	1.91	0.69
29:B1:2834:G:O2'	29:B1:2835:U:O5'	2.08	0.69
29:B1:3069:G:C2	29:B1:3070:A:N7	2.61	0.69
29:B1:306:A:N3	29:B1:306:A:H2'	2.07	0.69
29:B1:3093:C:H5'	29:B1:3093:C:H6	1.57	0.69
29:B1:3393:U:O5'	29:B1:3393:U:H6	1.75	0.69
1:C1:1005:A:N7	1:C1:1006:C:C4	2.61	0.69
1:C1:207:U:C2	1:C1:208:U:C5	2.80	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:26:A:H2	1:C1:600:U:C2	2.10	0.69
1:C1:58:U:O2	1:C1:58:U:H2'	1.93	0.69
29:D1:1103:A:HO2'	29:D1:1104:G:P	2.15	0.69
29:D1:1478:C:H6	29:D1:1478:C:C5'	2.06	0.69
29:D1:1900:A:N3	29:D1:1906:G:C8	2.61	0.69
29:D1:423:A:OP1	29:D1:2363:A:H4'	1.93	0.69
29:D1:3028:G:O2'	29:D1:3029:A:O4'	2.08	0.69
29:D1:3058:U:OP1	29:D1:3058:U:H3'	1.92	0.69
29:D1:3328:G:N2	29:D1:3375:A:N7	2.39	0.69
29:D1:3377:G:C4	74:D1:3452:OHX:N2	2.60	0.69
29:D1:52:A:H2'	29:D1:53:G:O5'	1.93	0.69
29:D1:575:G:C5'	29:D1:575:G:H8	2.00	0.69
29:D1:582:G:C2	29:D1:583:G:C8	2.81	0.69
29:D1:759:U:H2'	29:D1:760:G:H5''	1.74	0.69
29:D1:770:G:H2'	29:D1:771:A:O4'	1.93	0.69
29:D1:829:U:O2'	29:D1:866:A:N1	2.22	0.69
29:D1:900:G:H1'	29:D1:1589:A:H61	1.58	0.69
31:D3:67:U:H2'	31:D3:68:G:C8	2.27	0.69
34:DC:51:ALA:HB2	34:DC:79:VAL:HA	1.74	0.69
1:A1:825:U:C4	1:A1:847:A:N6	2.58	0.69
1:C1:809:A:C2	1:C1:810:G:N1	2.60	0.69
29:B1:2626:A:C8	29:B1:2644:C:H5'	2.27	0.69
30:B2:113:C:O2'	30:B2:114:U:O4'	2.09	0.69
30:B2:74:C:O3'	74:B2:201:OHX:N5	2.25	0.69
30:B2:73:C:H42	30:B2:74:C:N4	1.90	0.69
1:A1:84:A:H2'	1:A1:85:A:C5'	2.13	0.69
42:BK:55:ARG:O	42:BK:57:PHE:N	2.26	0.69
1:A1:1685:G:N2	1:A1:1718:G:H21	1.90	0.69
1:A1:1684:U:O4	1:A1:1721:A:C2	2.44	0.69
1:A1:329:G:N3	1:A1:330:G:C8	2.61	0.69
1:C1:1159:C:H3'	1:C1:1160:A:H5'	1.74	0.69
1:C1:1239:U:C5	1:C1:1241:G:C6	2.80	0.69
1:C1:1472:C:H5	1:C1:1474:G:C2	2.11	0.69
1:A1:1364:G:H2'	1:A1:1365:C:H5'	1.74	0.69
1:A1:1429:G:C4	1:A1:1430:U:C5	2.79	0.69
29:D1:1389:G:HO2'	29:D1:1390:A:P	2.14	0.69
36:BE:97:ALA:CA	36:BE:100:ALA:HB3	2.16	0.69
29:B1:72:C:C2	29:B1:73:C:O4'	2.46	0.69
29:B1:349:A:C2	31:B3:24:G:N9	2.60	0.69
29:D1:3144:G:C5	74:D1:3431:OHX:N5	2.61	0.69
29:B1:2555:G:N3	29:B1:2555:G:H2'	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1621:A:O2'	29:B1:1622:U:H5'	1.93	0.69
1:C1:912:U:H1'	1:C1:914:G:O6	1.92	0.69
29:B1:3271:G:N3	29:B1:3271:G:C2'	2.54	0.69
17:AP:127:VAL:HA	17:AP:128:SER:C	2.11	0.69
3:CB:118:ALA:HB2	3:CB:124:ALA:HB2	1.73	0.69
46:DQ:52:LEU:H	46:DQ:54:HIS:H	1.40	0.69
34:DC:106:TRP:O	34:DC:108:GLU:N	2.25	0.69
12:CK:12:ALA:HA	12:CK:15:ALA:HB3	1.72	0.69
48:BS:59:SER:O	48:BS:61:SER:N	2.23	0.69
29:D1:1424:C:C4	29:D1:1425:U:C5	2.80	0.69
1:A1:1670:G:N2	1:A1:1732:A:N6	2.41	0.69
1:A1:388:G:C2	1:A1:389:G:C8	2.80	0.69
1:A1:390:G:N2	1:A1:391:A:C5	2.60	0.69
1:A1:468:A:N6	1:A1:595:G:C6	2.59	0.69
1:A1:515:A:H2'	1:A1:516:G:OP1	1.92	0.69
1:A1:862:A:C8	1:A1:963:A:C6	2.80	0.69
29:B1:1302:A:H1'	29:B1:2887:A:C2	2.27	0.69
29:B1:1550:C:O2'	29:B1:1551:C:H5'	1.93	0.69
29:B1:2837:A:C8	29:B1:2845:A:C2	2.81	0.69
29:B1:3102:G:H2'	29:B1:3103:A:O4'	1.93	0.69
29:B1:3331:U:C2'	29:B1:3332:U:H5'	2.23	0.69
29:B1:563:U:C4	29:B1:564:G:C8	2.80	0.69
29:B1:59:G:O3'	29:B1:60:A:H4'	1.93	0.69
29:B1:683:U:H2'	29:B1:684:G:H5'	1.74	0.69
29:B1:742:G:C2'	29:B1:743:C:H5''	2.21	0.69
29:B1:826:G:H2'	29:B1:827:A:C8	2.25	0.69
29:B1:82:C:H2'	29:B1:83:U:O5'	1.93	0.69
29:B1:836:A:OP2	29:B1:836:A:C8	2.45	0.69
34:BC:131:THR:O	34:BC:132:LYS:O	2.09	0.69
1:C1:1140:G:C2	1:C1:1141:G:C8	2.81	0.69
1:C1:1147:A:H2'	1:C1:1148:C:C6	2.27	0.69
1:C1:29:U:H2'	1:C1:30:G:H8	1.58	0.69
1:C1:445:A:H1'	1:C1:524:U:H4'	1.73	0.69
1:C1:942:G:OP1	1:C1:977:A:H1'	1.91	0.69
29:D1:2222:A:O2'	29:D1:2223:A:C8	2.45	0.69
29:D1:2413:A:C2	29:D1:2414:G:N7	2.61	0.69
29:D1:2847:A:H2'	29:D1:2847:A:N3	2.08	0.69
29:D1:2899:C:H42	40:DI:173:ARG:CB	2.06	0.69
29:D1:2900:A:H2'	29:D1:2901:G:O5'	1.91	0.69
29:D1:3299:A:O2'	29:D1:3300:U:OP1	2.07	0.69
29:D1:3333:G:H1	29:D1:3370:A:C4'	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:40:A:N7	29:D1:937:G:C5	2.60	0.69
29:D1:509:U:H2'	29:D1:510:G:H5'	1.73	0.69
29:D1:516:A:OP1	29:D1:517:G:OP1	2.10	0.69
29:D1:533:A:N6	29:D1:555:U:O2'	2.24	0.69
29:D1:560:G:N2	29:D1:561:C:N3	2.40	0.69
29:D1:612:U:H1'	29:D1:613:G:N7	2.06	0.69
29:D1:717:C:C5	29:D1:721:G:P	2.85	0.69
29:D1:757:C:C2'	29:D1:757:C:O2	2.41	0.69
29:D1:947:G:H2'	29:D1:948:C:H6	1.56	0.69
29:D1:968:G:C6	29:D1:969:C:N4	2.61	0.69
30:D2:97:A:H8	30:D2:97:A:OP2	1.76	0.69
31:D3:71:A:N6	31:D3:87:G:N7	2.40	0.69
1:C1:687:G:N2	1:C1:688:G:C4	2.61	0.69
30:B2:79:A:O2'	30:B2:80:G:H5'	1.93	0.69
1:A1:177:U:OP2	1:A1:177:U:H6	1.76	0.69
1:C1:1722:A:C8	1:C1:1723:U:C6	2.80	0.69
29:D1:2677:G:N2	29:D1:2679:A:C4	2.61	0.69
45:DP:124:LEU:HA	45:DP:126:VAL:H	1.55	0.69
1:A1:321:C:C2'	1:A1:322:G:H5'	2.23	0.69
1:C1:1455:G:C4	1:C1:1456:C:N3	2.61	0.69
1:C1:1209:C:C2	1:C1:1455:G:N2	2.61	0.69
1:A1:1533:C:H3'	1:A1:1534:G:C8	2.27	0.69
30:D2:31:U:C6	30:D2:32:U:H5	2.10	0.69
30:D2:33:U:O2'	30:D2:34:C:C6	2.45	0.69
29:B1:1093:A:H2'	29:B1:1094:U:C2	2.27	0.69
16:CO:54:ASP:CA	16:CO:59:GLY:HA2	2.21	0.69
29:B1:987:U:H2'	29:B1:988:U:C6	2.27	0.69
29:B1:1811:G:C6	29:B1:1812:G:C8	2.81	0.69
29:D1:1689:U:H2'	29:D1:1690:C:O4'	1.93	0.69
36:DE:134:ALA:N	36:DE:135:VAL:HA	2.05	0.69
29:D1:2583:C:OP1	29:D1:2583:C:H4'	1.91	0.69
1:C1:1221:A:O2'	1:C1:1222:C:H5'	1.92	0.69
29:B1:2491:A:H2'	29:B1:2492:C:O4'	1.92	0.69
11:CJ:50:GLU:O	11:CJ:54:LEU:CB	2.41	0.69
29:D1:2529:A:H2'	29:D1:2530:G:C8	2.28	0.69
34:BC:166:ILE:O	34:BC:168:LYS:N	2.25	0.69
42:DK:85:LYS:O	42:DK:86:VAL:C	2.30	0.69
74:A1:1913:OHX:N1	74:A1:1986:OHX:N3	2.40	0.69
34:DC:58:ARG:O	34:DC:71:GLU:O	2.10	0.69
37:BF:121:LEU:O	37:BF:123:PRO:N	2.26	0.69
51:BV:41:LYS:C	51:BV:43:ARG:H	1.95	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1032:G:H2'	1:A1:1033:C:H6	1.57	0.69
1:A1:1092:A:C4	1:A1:1094:G:N7	2.60	0.69
1:A1:426:G:H2'	1:A1:427:C:H5''	1.75	0.69
29:B1:208:C:C2'	29:B1:209:A:C5'	2.70	0.69
29:B1:2113:A:C2'	29:B1:2114:C:H5'	2.20	0.69
29:B1:2168:A:C2	29:B1:2170:U:C1'	2.74	0.69
29:B1:2743:A:H3'	29:B1:2744:U:C6	2.26	0.69
29:B1:2777:G:C2'	29:B1:2777:G:N3	2.54	0.69
29:B1:2834:G:HO2'	29:B1:2835:U:H6	0.76	0.69
29:B1:3295:A:O2'	29:B1:3296:A:H5'	1.93	0.69
29:B1:421:G:H8	29:B1:421:G:C3'	1.99	0.69
29:B1:64:G:H22	29:B1:322:U:H2'	1.57	0.69
29:B1:704:U:C6	29:B1:704:U:H3'	2.28	0.69
29:B1:747:A:H2'	29:B1:748:U:OP1	1.93	0.69
29:B1:975:C:H2'	29:B1:976:U:C5	2.28	0.69
1:A1:105:A:N1	74:A1:1910:OHX:N4	2.41	0.69
29:B1:113:C:H2'	29:B1:114:A:H5'	1.72	0.69
29:B1:1522:U:H4'	29:B1:1523:U:OP2	1.92	0.69
29:B1:1689:U:H2'	29:B1:1690:C:O4'	1.93	0.69
29:B1:2239:G:O2'	29:B1:2240:G:H5'	1.93	0.69
29:B1:2933:A:N7	29:B1:2934:A:C6	2.61	0.69
29:B1:3078:U:H1'	29:B1:3079:U:OP2	1.92	0.69
29:B1:311:C:O2	29:B1:2779:A:C2	2.46	0.69
29:B1:3141:A:H5''	29:B1:3143:C:C2	2.26	0.69
29:B1:534:U:P	29:B1:534:U:C6	2.86	0.69
29:B1:762:U:OP1	29:B1:762:U:H4'	1.91	0.69
29:B1:80:G:C2	29:B1:81:C:C5	2.81	0.69
35:BD:39:PHE:O	35:BD:41:SER:N	2.26	0.69
29:B1:2111:G:H21	51:BV:49:ILE:HA	1.56	0.69
1:C1:1107:G:O2'	1:C1:1108:G:OP1	2.10	0.69
1:C1:190:C:H3'	1:C1:191:C:C5'	2.16	0.69
1:C1:767:U:O2'	1:C1:768:C:C6	2.45	0.69
1:C1:871:G:O2'	1:C1:872:G:C8	2.36	0.69
29:D1:1115:G:C8	29:D1:1115:G:H3'	2.28	0.69
29:D1:2354:C:H2'	29:D1:2354:C:O2	1.91	0.69
29:D1:2407:C:H2'	29:D1:2408:U:H6	1.58	0.69
29:D1:2820:A:H5'	29:D1:2821:C:OP2	1.92	0.69
29:D1:2903:A:C5	29:D1:2904:U:C6	2.80	0.69
29:D1:2931:C:C4	29:D1:2932:U:C5	2.81	0.69
29:D1:3063:C:H2'	29:D1:3064:U:C6	2.23	0.69
29:D1:3290:G:H2'	29:D1:3291:G:C8	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:504:A:C2	29:D1:587:U:C2	2.74	0.69
29:D1:808:A:C4	29:D1:809:G:C8	2.80	0.69
29:D1:22:G:H5'	31:D3:104:A:O2'	1.93	0.69
31:D3:124:G:H5'	31:D3:125:U:OP2	1.92	0.69
1:C1:313:U:C6	1:C1:1118:G:C2	2.81	0.69
1:C1:528:U:H4'	1:C1:529:A:C4'	2.23	0.69
1:C1:528:U:C4'	1:C1:529:A:O4'	2.41	0.69
1:C1:26:A:H2	1:C1:600:U:O2	1.76	0.69
29:D1:1303:A:O4'	29:D1:1303:A:N3	2.19	0.69
29:D1:1380:G:H2'	29:D1:1380:G:N3	2.08	0.69
29:D1:2315:G:N2	29:D1:2316:G:N7	2.41	0.69
29:D1:2360:C:H5''	29:D1:2361:A:OP2	1.92	0.69
29:D1:3046:A:C5	29:D1:3047:U:C5	2.81	0.69
29:D1:3102:G:C8	29:D1:3102:G:H5'	2.25	0.69
29:D1:3386:G:C8	29:D1:3386:G:O5'	2.45	0.69
29:D1:522:A:N7	29:D1:523:A:C8	2.61	0.69
29:D1:558:U:O2'	29:D1:559:A:OP1	2.09	0.69
29:D1:627:U:H2'	29:D1:628:A:C8	2.28	0.69
29:D1:715:A:H3'	54:DY:115:LYS:HA	1.75	0.69
29:D1:744:A:C6	29:D1:745:C:C4	2.81	0.69
29:D1:749:C:H2'	29:D1:750:G:H8	1.55	0.69
29:D1:915:A:H3'	29:D1:915:A:C8	2.28	0.69
29:D1:972:A:H2'	29:D1:973:A:O4'	1.93	0.69
1:A1:224:C:H42	1:A1:837:G:H1	1.40	0.69
1:C1:647:G:N2	1:C1:648:G:N1	2.41	0.69
29:B1:2727:A:N1	29:B1:2728:G:C6	2.60	0.69
29:B1:2628:A:C1'	29:B1:2798:C:C5	2.76	0.69
29:B1:2703:A:C5'	29:B1:2704:A:H5'	2.21	0.69
1:A1:335:U:H3'	1:A1:336:G:H8	1.55	0.69
1:C1:1241:G:H2'	1:C1:1242:A:H3'	1.73	0.69
1:C1:1351:G:C4	1:C1:1352:G:C8	2.81	0.69
1:C1:1609:U:H5''	1:C1:1609:U:H6	1.57	0.69
1:C1:1364:G:H2'	1:C1:1365:C:H5'	1.73	0.69
1:C1:1557:U:H2'	1:C1:1558:U:H5'	1.75	0.69
1:C1:1558:U:C5	1:C1:1559:A:H2'	2.27	0.69
1:C1:1609:U:C5'	1:C1:1609:U:H6	2.06	0.69
1:A1:1241:G:H2'	1:A1:1242:A:H3'	1.72	0.69
1:A1:1604:U:C3'	1:A1:1605:G:H5''	2.20	0.69
29:B1:3171:U:C1'	29:B1:3172:A:OP2	2.41	0.69
37:BF:40:LEU:HA	37:BF:85:ILE:CA	2.23	0.69
29:B1:3202:G:C2	29:B1:3203:U:C2	2.81	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3203:U:OP2	29:B1:3203:U:H6	1.74	0.69
29:B1:3181:C:N4	29:B1:3190:C:OP1	2.25	0.69
29:D1:3202:G:O2'	29:D1:3203:U:O4'	2.09	0.69
30:D2:28:C:O2	30:D2:28:C:H2'	1.93	0.69
29:D1:404:G:N1	29:D1:405:U:O2	2.25	0.69
29:B1:2520:A:C2	29:B1:2521:U:N3	2.58	0.69
29:D1:226:C:H2'	29:D1:227:G:O4'	1.93	0.69
29:D1:372:A:N6	29:D1:373:A:C6	2.61	0.69
29:D1:3231:U:H2'	29:D1:3232:G:C8	2.27	0.69
29:D1:69:C:N4	29:D1:70:A:C8	2.61	0.69
29:D1:3141:A:C5'	29:D1:3143:C:O2	2.40	0.69
29:D1:2095:G:C2'	29:D1:2096:A:H5'	2.23	0.69
29:D1:2101:C:C2'	29:D1:2102:U:H5'	2.23	0.69
29:B1:1647:A:C2'	29:B1:1648:A:H5'	2.19	0.69
1:A1:981:U:H1'	1:A1:1124:A:H2	1.57	0.69
5:AD:153:GLY:CA	5:AD:154:ALA:HB3	2.21	0.69
18:CQ:46:LYS:O	18:CQ:50:ILE:CB	2.40	0.69
30:B2:3:U:H2'	30:B2:4:U:C6	2.27	0.69
29:D1:2501:U:C4'	29:D1:2502:A:OP1	2.39	0.69
39:DH:99:PRO:HA	39:DH:236:GLY:N	2.08	0.69
5:CD:166:ARG:O	5:CD:168:VAL:N	2.25	0.69
29:D1:2915:U:O2	29:D1:2915:U:C2'	2.40	0.69
29:D1:2834:G:O2'	29:D1:2835:U:H6	1.70	0.69
37:DF:86:ALA:HB1	37:DF:87:THR:CA	2.22	0.69
17:AP:131:SER:C	17:AP:133:LEU:HA	2.12	0.69
36:BE:223:PHE:O	36:BE:225:GLY:HA3	1.92	0.69
1:C1:789:A:C4	1:C1:790:U:C6	2.81	0.69
29:B1:1915:A:H2'	29:B1:1916:U:H6	1.57	0.69
29:D1:1827:C:H2'	29:D1:1828:A:H8	1.57	0.69
29:B1:2503:G:H2'	29:B1:2504:U:C6	2.28	0.69
29:B1:898:U:C4	29:B1:899:U:C5	2.81	0.69
8:AG:127:ARG:C	8:AG:129:TYR:H	1.96	0.69
45:BP:137:THR:O	45:BP:139:GLY:N	2.25	0.69
29:D1:1830:G:C8	29:D1:1830:G:OP2	2.46	0.69
17:CP:58:GLY:O	17:CP:59:ILE:O	2.11	0.69
1:A1:1042:G:H2'	1:A1:1043:A:O4'	1.92	0.69
1:A1:1116:A:C6	1:A1:1117:U:C4	2.80	0.69
1:A1:556:A:H3'	1:A1:558:U:OP2	1.91	0.69
1:A1:955:A:H2'	1:A1:956:C:H6	1.57	0.69
29:B1:1146:C:H4'	29:B1:1331:U:C5	2.28	0.69
29:B1:1839:A:C5'	29:B1:1840:U:OP1	2.35	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1900:A:C2	29:B1:1906:G:C8	2.81	0.69
29:B1:3057:U:C3'	29:B1:3058:U:H4'	2.23	0.69
29:B1:3099:C:H6	29:B1:3099:C:C5'	2.06	0.69
29:B1:3313:U:O2'	29:B1:3314:A:H8	1.74	0.69
29:B1:197:G:N2	29:B1:372:A:C8	2.61	0.69
29:B1:517:G:H2'	29:B1:518:G:C1'	2.22	0.69
31:B3:144:G:C2'	31:B3:145:U:H5'	2.23	0.69
31:B3:19:C:C4	31:B3:20:U:C5	2.81	0.69
35:BD:159:ILE:O	35:BD:161:LYS:N	2.26	0.69
1:C1:1008:G:C2	1:C1:1009:U:H1'	2.27	0.69
1:C1:871:G:N3	1:C1:872:G:C8	2.61	0.69
29:D1:1156:C:H3'	29:D1:1157:G:C5'	2.23	0.69
29:D1:1189:C:C4'	29:D1:1192:C:H5	2.02	0.69
29:D1:2185:G:C6	29:D1:2186:U:C4	2.80	0.69
29:D1:2310:U:C2'	29:D1:2311:G:O5'	2.41	0.69
29:D1:3123:A:C2'	29:D1:3124:G:H5'	2.21	0.69
29:D1:760:G:H2'	29:D1:761:A:H8	1.57	0.69
29:D1:920:A:H5''	29:D1:922:U:C4	2.27	0.69
29:D1:965:A:N3	29:D1:965:A:H2'	2.07	0.69
1:C1:646:C:C2'	1:C1:647:G:H5''	2.23	0.69
29:B1:995:U:O4	29:B1:2637:A:C5	2.46	0.69
31:B3:48:A:C2	31:B3:51:G:C6	2.80	0.69
1:A1:1250:U:O4	1:A1:1251:U:O4	2.10	0.69
1:A1:1265:G:O5'	1:A1:1265:G:H8	1.76	0.69
1:A1:1494:C:O2'	1:A1:1495:C:H5'	1.93	0.69
1:A1:1597:A:C6	1:A1:1598:U:N3	2.60	0.69
29:D1:210:U:H3	35:DD:162:THR:H	1.38	0.69
29:D1:400:G:C1'	29:D1:401:U:OP2	2.41	0.69
1:C1:883:C:N4	1:C1:945:U:H3	1.89	0.69
30:D2:49:G:N9	30:D2:49:G:OP2	2.25	0.69
36:BE:103:LEU:N	36:BE:166:ALA:HA	2.07	0.69
29:B1:851:C:H2'	29:B1:852:U:C6	2.27	0.69
1:A1:1285:U:H4'	1:A1:1286:U:OP1	1.91	0.69
1:A1:1754:A:H1'	1:A1:1755:A:C2	2.28	0.69
29:B1:1633:C:C4	29:B1:1634:G:N7	2.61	0.69
16:AO:54:ASP:HA	16:AO:59:GLY:CA	2.21	0.69
29:B1:1038:C:H2'	29:B1:1039:U:C6	2.27	0.69
1:C1:772:G:C6	1:C1:773:C:N3	2.61	0.69
1:A1:760:A:C2	1:A1:791:A:C4	2.81	0.69
31:D3:34:U:C2'	31:D3:34:U:O2	2.40	0.69
8:AG:125:LEU:O	8:AG:126:ALA:C	2.31	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:802:G:C6	1:C1:803:A:N1	2.60	0.69
29:D1:2118:C:H6	29:D1:2118:C:O5'	1.75	0.69
7:CF:128:CYS:H	7:CF:137:PHE:HA	1.56	0.69
4:AC:115:ILE:HA	4:AC:118:ALA:HB3	1.75	0.69
29:D1:1812:G:OP1	29:D1:1812:G:H4'	1.93	0.69
54:DY:84:GLU:HA	54:DY:85:ASP:CB	2.22	0.69
1:A1:1786:G:H2'	1:A1:1787:C:C6	2.28	0.69
1:A1:313:U:C5	1:A1:1118:G:C2	2.80	0.69
1:A1:605:A:N6	1:A1:606:A:N6	2.40	0.69
29:B1:13:A:H2	29:B1:15:C:C3'	2.06	0.69
29:B1:1406:A:C2	29:B1:1407:A:C6	2.81	0.69
29:B1:2788:C:H2'	29:B1:2789:U:C6	2.28	0.69
29:B1:3141:A:C4'	29:B1:3143:C:H2'	2.23	0.69
29:B1:608:A:N6	29:B1:609:G:N7	2.41	0.69
29:B1:949:C:O2	29:B1:971:G:H5''	1.92	0.69
31:B3:106:C:O4'	31:B3:138:A:C8	2.46	0.69
1:C1:1637:C:OP2	1:C1:1637:C:H4'	1.92	0.69
1:C1:364:G:C2	1:C1:381:C:N3	2.62	0.69
1:C1:119:A:O4'	1:C1:397:A:H1'	1.93	0.69
1:C1:618:U:C2'	1:C1:619:A:H5'	2.22	0.69
29:D1:1166:G:H2'	29:D1:1167:U:H5''	1.73	0.69
29:D1:1196:C:C5	29:D1:1197:A:N6	2.38	0.69
29:D1:16:A:O2'	29:D1:17:G:H5'	1.93	0.69
29:D1:1453:A:H1'	29:D1:1850:A:C2	2.28	0.69
29:D1:307:A:O2'	29:D1:2223:A:H1'	1.92	0.69
29:D1:2222:A:N6	29:D1:2783:U:H5'	2.08	0.69
29:D1:3388:C:H2'	29:D1:3389:U:C5	2.28	0.69
29:D1:351:A:H8	31:D3:53:A:HO2'	1.41	0.69
29:D1:2149:A:H4'	33:DB:178:PRO:O	1.93	0.69
40:DI:73:SER:O	40:DI:74:LEU:C	2.31	0.69
1:A1:845:G:H2'	1:A1:846:G:H5''	1.75	0.69
29:B1:2619:G:H8	29:B1:2619:G:P	2.16	0.69
29:B1:2696:A:N7	29:B1:2697:A:C5	2.61	0.69
31:B3:74:U:H3'	31:B3:76:C:H5''	1.75	0.69
1:A1:214:G:O2'	1:A1:215:A:H5'	1.92	0.69
29:D1:3176:G:C2'	29:D1:3177:G:C5'	2.70	0.69
29:B1:3218:A:H3'	29:B1:3220:G:OP2	1.92	0.69
29:D1:394:G:H22	29:D1:396:A:H2'	1.56	0.69
29:B1:2513:U:C1'	29:B1:2514:U:OP1	2.41	0.69
1:C1:1651:A:C2	1:C1:1652:C:C5	2.80	0.69
1:A1:1752:U:C2'	1:A1:1753:A:H8	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1728:G:H4'	29:B1:1729:A:OP2	1.93	0.69
29:B1:1339:C:H2'	29:B1:1340:G:H8	1.57	0.69
29:B1:2909:U:C4	29:B1:2910:A:C8	2.80	0.69
29:B1:2603:G:H3'	29:B1:2604:U:C6	2.28	0.69
21:AT:21:THR:CB	21:AT:69:GLN:HA	2.22	0.69
29:D1:1804:A:H2'	29:D1:1805:C:C6	2.28	0.69
7:CF:75:VAL:HA	7:CF:86:ILE:HA	1.75	0.69
45:DP:95:GLY:O	45:DP:97:ALA:N	2.25	0.69
29:B1:2320:A:H8	29:B1:2320:A:O5'	1.75	0.69
1:C1:278:U:H3'	1:C1:278:U:O2	1.93	0.69
1:A1:537:G:H2'	1:A1:537:G:N3	2.06	0.68
29:B1:507:U:H4'	29:B1:1167:U:OP1	1.92	0.68
29:B1:1528:G:C6	29:B1:1833:G:C6	2.81	0.68
29:B1:1779:C:C4'	29:B1:1780:G:H5''	2.15	0.68
29:B1:1522:U:C5	29:B1:1835:A:H1'	2.28	0.68
29:B1:2826:U:C2'	29:B1:2827:U:H5'	2.22	0.68
29:B1:2997:G:C4	29:B1:2998:U:H5'	2.28	0.68
29:B1:3126:C:C4	29:B1:3127:A:N7	2.61	0.68
29:B1:3316:A:C1'	29:B1:3317:U:OP2	2.42	0.68
29:B1:535:G:H3'	29:B1:536:U:C5	2.27	0.68
29:B1:592:A:C2'	29:B1:593:C:O2'	2.41	0.68
29:B1:818:C:H2'	29:B1:819:U:H5'	1.75	0.68
34:BC:20:LYS:O	34:BC:21:ARG:O	2.11	0.68
35:BD:42:VAL:O	35:BD:45:ASN:N	2.21	0.68
1:C1:1109:G:C2'	1:C1:1110:G:H5''	2.22	0.68
1:C1:272:U:O4	1:C1:284:G:O6	2.10	0.68
1:C1:429:G:H5''	1:C1:439:U:H3'	1.73	0.68
1:C1:65:A:H2	1:C1:84:A:H62	1.40	0.68
1:C1:59:C:N4	1:C1:89:G:C2	2.61	0.68
29:D1:1157:G:C8	29:D1:1157:G:C5'	2.74	0.68
29:D1:1190:A:H2	29:D1:1191:U:C6	2.09	0.68
29:D1:1303:A:H8	29:D1:1304:A:C6	2.07	0.68
29:D1:2414:G:C2'	29:D1:2415:C:O5'	2.41	0.68
29:D1:2614:G:C2	29:D1:2797:C:H6	2.10	0.68
29:D1:2853:A:N6	29:D1:2854:U:H3	1.92	0.68
29:D1:3299:A:C2	29:D1:3300:U:C4	2.80	0.68
29:D1:3316:A:N1	29:D1:3388:C:C4	2.61	0.68
29:D1:421:G:H21	29:D1:2365:C:H1'	1.54	0.68
29:D1:593:C:C2'	29:D1:594:U:C4'	2.66	0.68
37:DF:145:LEU:O	37:DF:146:ILE:O	2.11	0.68
30:B2:12:U:H3'	30:B2:13:A:N1	2.04	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:149:C:C3'	1:A1:150:U:H6	2.06	0.68
1:C1:1683:C:P	1:C1:1684:U:OP1	2.51	0.68
1:C1:1720:G:C2'	1:C1:1721:A:H5'	2.22	0.68
1:A1:1163:A:N6	1:A1:1164:G:C6	2.60	0.68
1:A1:1244:A:H2	1:A1:1245:G:N9	1.91	0.68
1:A1:1372:U:H2'	1:A1:1373:C:O4'	1.93	0.68
1:A1:1457:C:C4	1:A1:1559:A:N6	2.60	0.68
29:B1:3203:U:C6	29:B1:3203:U:OP2	2.47	0.68
29:D1:392:G:C6	29:D1:393:U:C5	2.81	0.68
4:AC:9:ARG:CB	4:AC:13:ALA:HB2	2.24	0.68
36:BE:134:ALA:N	36:BE:135:VAL:HA	2.08	0.68
29:D1:1354:G:H8	29:D1:1355:A:N1	1.91	0.68
10:CI:19:GLY:N	13:CL:98:TYR:HA	2.08	0.68
29:B1:1539:A:C5	29:B1:1540:U:C5	2.81	0.68
1:C1:716:C:C5	1:C1:717:C:H5	2.10	0.68
1:C1:710:U:C2	1:C1:729:G:N1	2.61	0.68
29:B1:232:G:C5	29:B1:233:C:C5	2.80	0.68
29:B1:2320:A:H5''	29:B1:2321:A:OP2	1.92	0.68
29:B1:1002:A:O2'	29:B1:1003:A:H5'	1.93	0.68
12:CK:48:ASN:HA	12:CK:51:ALA:HB3	1.75	0.68
1:A1:429:G:H5''	1:A1:439:U:H3'	1.75	0.68
1:A1:26:A:H2	1:A1:600:U:H3	1.39	0.68
29:B1:1212:A:C3'	29:B1:1213:G:H5''	2.23	0.68
29:B1:1495:U:H3'	29:B1:1496:C:H5'	1.74	0.68
29:B1:1876:U:H2'	29:B1:1877:U:C5	2.28	0.68
29:B1:2361:A:N6	29:B1:2377:G:C6	2.62	0.68
29:B1:2417:U:H5	29:B1:2606:G:N7	1.88	0.68
29:B1:2860:U:C5	29:B1:2938:G:H4'	2.28	0.68
29:B1:3117:C:H2'	29:B1:3118:C:C5'	2.18	0.68
29:B1:3310:A:C2	29:B1:3311:C:O4'	2.46	0.68
29:B1:509:U:N3	29:B1:510:G:C8	2.61	0.68
29:B1:514:G:O3'	29:B1:515:C:O4'	2.11	0.68
29:B1:580:C:N3	29:B1:581:U:C5	2.61	0.68
29:B1:836:A:OP2	29:B1:836:A:H8	1.76	0.68
29:B1:878:G:O4'	29:B1:880:G:N2	2.26	0.68
29:B1:972:A:O2'	29:B1:973:A:H5'	1.93	0.68
1:C1:1072:C:H5''	1:C1:1073:G:OP2	1.94	0.68
1:C1:1147:A:H2'	1:C1:1148:C:O4'	1.92	0.68
1:C1:1627:U:O2'	1:C1:1628:U:C6	2.45	0.68
1:C1:1633:A:O4'	1:C1:1634:C:OP2	2.11	0.68
1:C1:289:U:O2	1:C1:290:G:C8	2.46	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:521:A:H3'	1:C1:523:G:N7	2.08	0.68
1:C1:964:U:H1'	1:C1:965:U:OP2	1.93	0.68
29:D1:1139:G:H5''	29:D1:1139:G:H8	1.55	0.68
29:D1:2326:A:C5'	29:D1:2327:U:OP2	2.38	0.68
29:D1:2327:U:H5''	29:D1:2328:U:OP2	1.93	0.68
74:D1:3446:OHX:N3	74:D1:3574:OHX:N1	2.42	0.68
31:D3:72:A:O2'	31:D3:73:U:OP2	2.09	0.68
29:D1:1167:U:O3'	38:DG:211:SER:O	2.10	0.68
29:B1:2673:A:C2	29:B1:2674:A:C5	2.81	0.68
1:C1:1185:U:O2'	1:C1:1456:C:H4'	1.93	0.68
1:A1:1242:A:C4'	10:AI:78:THR:HA	2.23	0.68
29:D1:3176:G:H2'	29:D1:3177:G:H5'	1.75	0.68
29:D1:3212:C:C2	29:D1:3213:A:C2	2.81	0.68
37:BF:42:LEU:HA	37:BF:84:VAL:CB	2.23	0.68
29:D1:208:C:N3	29:D1:209:A:N7	2.42	0.68
29:B1:1278:A:N7	29:B1:1279:C:C5	2.61	0.68
29:D1:3384:U:H2'	29:D1:3385:U:C6	2.27	0.68
29:D1:988:U:H2'	29:D1:989:A:H8	1.58	0.68
1:C1:1341:A:N3	1:C1:1341:A:H2'	2.08	0.68
29:D1:3273:A:O4'	29:D1:3273:A:OP1	2.11	0.68
29:D1:1076:C:H5'	29:D1:1077:U:OP2	1.92	0.68
29:D1:1687:U:H6	29:D1:1687:U:OP1	1.75	0.68
29:D1:1039:U:H2'	29:D1:1040:A:C8	2.28	0.68
29:D1:2119:A:C5	29:D1:2120:A:C2	2.82	0.68
11:CJ:91:ALA:HB3	11:CJ:96:TYR:CB	2.22	0.68
29:B1:1931:U:C2	29:B1:2121:G:C2	2.81	0.68
1:C1:1657:U:C4'	1:C1:1658:G:O5'	2.42	0.68
1:C1:310:C:C2'	1:C1:311:U:O5'	2.41	0.68
29:B1:2545:C:H2'	29:B1:2546:C:C6	2.28	0.68
29:D1:318:A:OP2	29:D1:318:A:H8	1.77	0.68
29:D1:2555:G:N3	29:D1:2555:G:H2'	2.08	0.68
1:A1:934:C:H2'	1:A1:934:C:O2	1.92	0.68
33:BB:209:HIS:O	33:BB:210:PRO:O	2.11	0.68
1:C1:934:C:H2'	1:C1:934:C:O2	1.91	0.68
1:A1:1094:G:C2	1:A1:1095:U:C4	2.82	0.68
1:A1:1756:A:H2'	1:A1:1757:G:H5'	1.76	0.68
1:A1:378:A:C8	1:A1:378:A:OP1	2.47	0.68
1:A1:437:A:H5''	1:A1:438:A:OP1	1.92	0.68
1:A1:446:A:C5	1:A1:447:U:C5	2.81	0.68
1:A1:34:G:O6	1:A1:474:A:H2	1.76	0.68
1:A1:523:G:C4	1:A1:524:U:O4	2.45	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:546:U:H2'	1:A1:547:U:H6	1.54	0.68
1:A1:612:U:H5'	1:A1:613:G:H3'	1.75	0.68
1:A1:867:G:C4	1:A1:868:G:C8	2.81	0.68
1:A1:989:U:C2'	1:A1:990:C:C6	2.76	0.68
29:B1:1445:U:C5	29:B1:1446:A:C8	2.80	0.68
29:B1:188:U:O2	29:B1:222:A:C2	2.46	0.68
29:B1:2244:A:O2'	33:BB:222:ALA:HB3	1.93	0.68
29:B1:2252:A:C2	29:B1:2253:G:C5	2.81	0.68
29:B1:2371:G:H5''	29:B1:2372:A:OP2	1.94	0.68
29:B1:2875:U:H5'	29:B1:2876:C:OP2	1.94	0.68
29:B1:2997:G:N3	29:B1:2998:U:C5'	2.57	0.68
29:B1:3322:A:N6	29:B1:3323:A:N6	2.41	0.68
29:B1:3363:U:H5	29:B1:3364:C:H1'	1.58	0.68
29:B1:522:A:C5	29:B1:523:A:C8	2.80	0.68
29:B1:594:U:N3	29:B1:595:G:C4	2.62	0.68
29:B1:607:A:C6	29:B1:608:A:C5	2.80	0.68
29:B1:760:G:HO2'	29:B1:761:A:H8	1.40	0.68
1:C1:1035:G:H2'	1:C1:1036:A:O4'	1.93	0.68
1:C1:1106:U:O2'	1:C1:1107:G:H5'	1.93	0.68
1:C1:1121:C:H1'	1:C1:1127:G:N2	2.09	0.68
1:C1:1132:A:N3	1:C1:1133:A:C8	2.61	0.68
1:C1:404:G:H2'	1:C1:405:C:C6	2.26	0.68
1:C1:40:A:C2	1:C1:469:C:H1'	2.28	0.68
1:C1:611:U:H5''	1:C1:612:U:OP2	1.94	0.68
29:D1:1167:U:H6	29:D1:1167:U:C5'	2.06	0.68
29:D1:1469:C:C2	29:D1:1509:A:C2	2.81	0.68
29:D1:1564:U:C2	29:D1:1565:G:C8	2.80	0.68
29:D1:157:A:O2'	29:D1:158:G:C4	2.45	0.68
29:D1:2649:A:H1'	29:D1:2696:A:H1'	1.74	0.68
29:D1:2726:C:H5''	29:D1:2727:A:H5''	1.74	0.68
29:D1:3037:U:H2'	29:D1:3038:U:C6	2.27	0.68
29:D1:3309:G:C4	29:D1:3310:A:C8	2.81	0.68
29:D1:3316:A:O4'	29:D1:3317:U:OP2	2.11	0.68
29:D1:769:G:H4'	29:D1:770:G:OP1	1.93	0.68
29:D1:78:U:H3	29:D1:325:A:H61	1.41	0.68
31:D3:104:A:H5''	31:D3:105:A:C8	2.27	0.68
1:A1:833:U:H2'	1:A1:833:U:O2	1.93	0.68
1:C1:806:A:H2'	1:C1:807:A:H8	1.59	0.68
29:B1:2616:C:C2'	29:B1:2617:U:H5'	2.23	0.68
29:B1:2651:G:C2	29:B1:2796:G:C2	2.82	0.68
1:A1:341:A:C4	1:A1:342:C:C5	2.81	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1614:A:H2'	1:C1:1615:C:H5''	1.73	0.68
29:D1:3196:U:H5	29:D1:3198:U:C6	2.12	0.68
29:D1:185:C:C2	29:D1:186:U:C5	2.81	0.68
29:B1:1275:C:C4	29:B1:1276:U:C4	2.81	0.68
29:D1:3262:U:O2'	29:D1:3263:G:H5'	1.93	0.68
29:B1:1615:C:H2'	29:B1:1616:U:C6	2.26	0.68
29:D1:3350:C:H4'	29:D1:3354:U:C5	2.28	0.68
29:D1:986:U:H2'	29:D1:987:U:H6	1.58	0.68
29:D1:1625:A:H5''	29:D1:1626:U:H5''	1.75	0.68
29:D1:2436:U:H5'	29:D1:2437:G:OP2	1.94	0.68
29:D1:2592:G:O6	74:D1:3463:OHX:N3	2.26	0.68
29:B1:2556:C:H2'	29:B1:2556:C:O2	1.92	0.68
29:D1:1352:A:H8	29:D1:1352:A:P	2.16	0.68
29:D1:1716:U:H3'	29:D1:1717:U:C4'	2.21	0.68
1:C1:1656:U:C5'	1:C1:1657:U:O5'	2.42	0.68
29:D1:2306:C:C6	29:D1:2306:C:H3'	2.27	0.68
29:B1:1358:C:O2	29:B1:1358:C:H2'	1.94	0.68
3:AB:178:ILE:HA	3:AB:195:ASP:O	1.93	0.68
29:B1:1471:U:C2	29:B1:1472:U:C5	2.82	0.68
1:A1:767:U:O2'	1:A1:768:C:C6	2.44	0.68
1:A1:768:C:O2'	1:A1:769:A:H5'	1.92	0.68
39:DH:219:ASP:O	39:DH:223:ALA:HB3	1.93	0.68
3:CB:157:LYS:O	3:CB:213:ALA:HB1	1.93	0.68
13:CL:116:LEU:O	13:CL:118:LYS:N	2.26	0.68
45:DP:158:ALA:O	45:DP:161:LYS:N	2.25	0.68
1:A1:365:G:H2'	1:A1:366:A:O5'	1.93	0.68
1:A1:610:G:C2	1:A1:614:C:C2	2.82	0.68
29:B1:10:C:H5	31:B3:149:A:H2	1.41	0.68
29:B1:1691:U:H2'	29:B1:1692:U:C5	2.29	0.68
29:B1:1793:C:C1'	29:B1:1794:G:OP1	2.41	0.68
29:B1:2269:U:C4	29:B1:2272:G:N1	2.61	0.68
29:B1:890:C:O2'	29:B1:2324:A:N3	2.26	0.68
29:B1:3333:G:O2'	29:B1:3369:G:N2	2.27	0.68
29:B1:43:A:N7	29:B1:2803:A:N6	2.42	0.68
29:B1:533:A:H2'	29:B1:534:U:C4	2.27	0.68
29:B1:588:G:C6	29:B1:612:U:C5	2.81	0.68
29:B1:797:U:O2'	29:B1:798:G:H5'	1.93	0.68
29:B1:911:C:H2'	29:B1:912:G:H5'	1.74	0.68
1:C1:1032:G:N2	1:C1:1033:C:C2	2.61	0.68
1:C1:1104:U:C5	1:C1:1105:C:C5	2.81	0.68
1:C1:992:A:N1	1:C1:1012:U:C2	2.62	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1224:C:C5	29:D1:1285:G:C6	2.81	0.68
29:D1:1330:A:H2'	29:D1:1331:U:H3'	1.75	0.68
29:D1:1337:A:C5	29:D1:1338:C:C5	2.81	0.68
29:D1:1468:A:H2'	29:D1:1469:C:C6	2.29	0.68
29:D1:686:G:H2'	29:D1:687:U:O4'	1.94	0.68
29:D1:716:A:C4	29:D1:716:A:OP2	2.47	0.68
29:D1:829:U:C4'	29:D1:866:A:H2	2.03	0.68
35:DD:14:GLU:N	35:DD:15:ALA:HA	2.09	0.68
35:DD:39:PHE:O	35:DD:42:VAL:N	2.26	0.68
44:DO:84:PRO:HA	74:DO:301:OHX:N5	2.07	0.68
1:C1:825:U:C4	1:C1:847:A:N6	2.58	0.68
30:B2:77:G:O5'	37:BF:107:ALA:HB2	1.93	0.68
1:C1:1244:A:C2	1:C1:1245:G:N9	2.61	0.68
1:C1:1457:C:C4	1:C1:1559:A:N6	2.61	0.68
1:C1:1457:C:C6	1:C1:1559:A:N6	2.56	0.68
1:C1:1477:G:H2'	1:C1:1478:G:H5'	1.75	0.68
29:B1:379:C:H5''	29:B1:379:C:C6	2.24	0.68
29:B1:383:G:C3'	29:B1:384:A:H5''	2.17	0.68
29:D1:405:U:H5	29:D1:406:G:C4	2.12	0.68
29:D1:3174:A:O2'	29:D1:3175:U:H5'	1.92	0.68
1:A1:416:A:C4'	1:A1:417:A:OP2	2.37	0.68
29:B1:2434:U:H4'	29:B1:2435:G:H5'	1.76	0.68
29:D1:983:A:C2	29:D1:985:U:C4	2.82	0.68
29:B1:338:A:C4'	29:B1:338:A:OP2	2.41	0.68
29:B1:1077:U:HO2'	29:B1:1078:U:H6	1.40	0.68
29:D1:3273:A:C5	29:D1:3274:A:C8	2.81	0.68
20:CS:41:GLN:CB	74:CS:101:OHX:N5	2.57	0.68
29:B1:2584:G:OP1	29:B1:2584:G:H4'	1.93	0.68
29:D1:1351:U:H2'	29:D1:1352:A:C5	2.28	0.68
1:C1:1657:U:N3	74:C1:1955:OHX:N5	2.42	0.68
29:B1:2888:U:C5	29:B1:2910:A:N1	2.61	0.68
29:D1:1748:G:H2'	29:D1:1749:A:C8	2.28	0.68
2:AA:17:LEU:C	2:AA:19:ALA:N	2.41	0.68
29:D1:789:A:O2'	29:D1:790:U:H5'	1.92	0.68
45:BP:190:VAL:C	45:BP:192:LYS:H	1.96	0.68
1:A1:963:A:O2'	1:A1:964:U:C6	2.45	0.68
29:B1:1103:A:H1'	29:B1:1104:G:OP1	1.92	0.68
29:B1:1105:A:C6	29:B1:1106:G:C6	2.81	0.68
29:B1:157:A:N1	29:B1:266:A:C2	2.61	0.68
29:B1:1653:G:C2'	29:B1:1654:A:H5'	2.20	0.68
29:B1:195:U:H2'	29:B1:196:G:O4'	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2114:C:H4'	29:B1:2116:G:C4	2.28	0.68
29:B1:23:A:C2	29:B1:24:G:C4	2.81	0.68
29:B1:3301:U:H2'	29:B1:3302:U:C5	2.28	0.68
29:B1:3304:U:O2'	29:B1:3305:A:H5'	1.91	0.68
29:B1:3314:A:H2'	34:BC:119:TYR:CA	2.22	0.68
29:B1:585:A:C3'	29:B1:586:C:C6	2.77	0.68
29:B1:776:U:C5'	29:B1:777:U:H6	2.07	0.68
35:BD:100:PHE:O	35:BD:101:ALA:C	2.28	0.68
35:BD:165:ALA:O	35:BD:166:VAL:C	2.31	0.68
1:C1:1008:G:N2	1:C1:1009:U:H1'	2.07	0.68
1:C1:1111:G:H2'	1:C1:1112:G:O4'	1.94	0.68
1:C1:1756:A:C2'	1:C1:1757:G:H5'	2.23	0.68
29:D1:1106:G:C5	29:D1:1107:C:C5	2.82	0.68
29:D1:1204:A:H5''	29:D1:1205:A:OP2	1.92	0.68
29:D1:1226:G:C2	29:D1:1227:C:C4	2.82	0.68
29:D1:1310:G:H8	29:D1:1310:G:H5'	1.59	0.68
29:D1:1514:G:O2'	29:D1:1515:A:H5'	1.94	0.68
29:D1:1899:G:N2	29:D1:2334:U:C5	2.62	0.68
29:D1:2252:A:C2	29:D1:2253:G:C5	2.81	0.68
29:D1:2328:U:C3'	29:D1:2329:C:H5''	2.24	0.68
29:D1:2743:A:C5	29:D1:2744:U:C4	2.82	0.68
29:D1:2897:A:N1	29:D1:2904:U:O4	2.26	0.68
29:D1:531:G:N2	29:D1:561:C:C2	2.43	0.68
29:D1:636:C:H5	29:D1:2378:C:C1'	2.05	0.68
29:D1:688:G:H1'	29:D1:692:A:N6	2.08	0.68
29:D1:846:A:C4	29:D1:847:A:C8	2.81	0.68
1:A1:450:U:H5''	1:A1:451:A:OP2	1.92	0.68
29:D1:2680:A:N6	42:DK:56:THR:C	2.46	0.68
1:A1:110:U:H3'	1:A1:111:U:H5''	1.75	0.68
1:A1:1684:U:C4	1:A1:1721:A:H2	2.12	0.68
1:C1:1486:G:O6	1:C1:1520:U:O2	2.12	0.68
1:C1:1555:A:H2'	1:C1:1555:A:N3	2.09	0.68
1:A1:1459:C:H4'	1:A1:1460:A:OP1	1.92	0.68
29:D1:1324:U:C6	29:D1:1324:U:H5'	2.29	0.68
43:DN:89:ALA:O	43:DN:93:LYS:N	2.27	0.68
29:B1:3027:A:C2'	29:B1:3028:G:H8	2.05	0.68
29:D1:195:U:H4'	29:D1:1391:C:C5	2.28	0.68
30:B2:56:A:O3'	42:BK:149:GLY:HA2	1.92	0.68
29:D1:1252:A:H2'	29:D1:1253:U:H5'	1.74	0.68
29:D1:1256:G:C4	29:D1:1257:C:H6	2.11	0.68
38:DG:30:ARG:O	38:DG:31:ALA:C	2.32	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2174:G:OP1	29:B1:2174:G:H8	1.76	0.68
41:BJ:161:GLY:CA	41:BJ:162:GLN:CB	2.69	0.68
1:A1:916:U:H5	1:A1:917:U:C4	2.11	0.68
29:B1:2501:U:C4'	29:B1:2502:A:OP1	2.39	0.68
29:B1:2550:U:H5'	29:B1:2551:U:OP2	1.94	0.68
3:AB:239:PRO:O	3:AB:241:ASP:N	2.27	0.68
34:DC:166:ILE:O	34:DC:168:LYS:N	2.26	0.68
1:C1:926:A:C2'	1:C1:927:C:H5'	2.23	0.68
1:C1:579:A:N1	4:CC:144:ALA:HB2	2.07	0.68
21:AT:116:ASP:CB	21:AT:121:MET:H	2.06	0.68
1:A1:666:U:O2'	1:A1:667:U:H5'	1.94	0.68
29:B1:1868:G:C5	29:B1:1869:C:C5	2.81	0.68
1:A1:1046:G:C5	1:A1:1073:G:C2	2.81	0.68
1:A1:461:G:H2'	1:A1:462:G:H8	1.59	0.68
1:A1:541:A:H4'	1:A1:542:A:OP1	1.94	0.68
3:AB:165:VAL:HA	3:AB:166:THR:CB	2.23	0.68
29:B1:213:A:C2	29:B1:214:G:H1'	2.28	0.68
29:B1:1452:A:H1'	29:B1:2347:U:C5'	2.23	0.68
29:B1:1311:G:C1'	29:B1:2381:G:H5'	2.24	0.68
29:B1:2714:G:H4'	29:B1:2715:A:OP1	1.93	0.68
29:B1:3005:A:C4	29:B1:3140:G:N2	2.62	0.68
29:B1:3096:C:H2'	29:B1:3097:C:H6	1.58	0.68
29:B1:3296:A:C2	29:B1:3297:U:H1'	2.28	0.68
29:B1:3297:U:O2	29:B1:3298:C:C6	2.47	0.68
29:B1:3303:G:C4'	29:B1:3304:U:OP1	2.38	0.68
29:B1:534:U:C5	29:B1:534:U:OP2	2.47	0.68
29:B1:595:G:N1	29:B1:609:G:C4'	2.54	0.68
29:B1:740:G:C6	29:B1:741:U:C5	2.82	0.68
29:B1:808:A:C4	29:B1:809:G:C8	2.81	0.68
35:BD:16:THR:CB	35:BD:152:VAL:HA	2.23	0.68
38:BG:75:TYR:CB	38:BG:76:TYR:HA	2.22	0.68
1:C1:106:U:C4	1:C1:107:C:C4	2.81	0.68
1:C1:442:C:O2'	1:C1:443:C:H5'	1.93	0.68
1:C1:521:A:C4'	1:C1:522:U:OP1	2.42	0.68
1:C1:560:U:H2'	1:C1:561:G:C8	2.28	0.68
29:D1:3010:U:O2'	29:D1:3011:A:H5'	1.93	0.68
29:D1:342:A:N1	29:D1:349:A:C8	2.62	0.68
29:D1:360:G:O2'	29:D1:361:A:H5'	1.93	0.68
29:D1:756:U:H5''	29:D1:757:C:OP2	1.92	0.68
29:D1:810:A:H5''	29:D1:811:U:OP2	1.94	0.68
29:D1:849:C:O2'	29:D1:850:U:H5'	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:891:G:C6	29:D1:892:U:C4	2.81	0.68
31:D3:65:A:C6	31:D3:66:A:C6	2.81	0.68
34:DC:12:GLY:O	34:DC:13:HIS:C	2.31	0.68
29:B1:2642:A:C2	29:B1:2643:A:C5	2.82	0.68
1:A1:59:C:N4	1:A1:89:G:C2	2.61	0.68
30:D2:14:U:O4'	30:D2:14:U:OP2	2.12	0.68
1:C1:1167:G:N3	1:C1:1167:G:H2'	2.07	0.68
1:A1:1536:G:N2	1:A1:1538:U:H3	1.92	0.68
1:A1:1515:A:C8	15:AN:58:LEU:CB	2.77	0.68
29:B1:386:A:C2'	29:B1:387:A:O5'	2.42	0.68
29:D1:1627:U:H5'	29:D1:1628:C:OP2	1.93	0.68
1:A1:912:U:H1'	1:A1:914:G:O6	1.93	0.68
29:D1:1913:A:N3	29:D1:2120:A:H8	1.92	0.68
29:B1:355:A:H2'	29:B1:356:C:O4'	1.93	0.68
29:D1:1001:G:C8	29:D1:1042:U:OP1	2.47	0.68
1:C1:215:A:H8	1:C1:215:A:O5'	1.76	0.68
29:D1:317:A:C2	29:D1:318:A:C4	2.81	0.68
1:C1:879:G:C2'	1:C1:880:C:H5'	2.24	0.68
3:AB:118:ALA:HB2	3:AB:124:ALA:HB2	1.75	0.68
29:D1:2556:C:N4	29:D1:2557:A:C2	2.62	0.68
29:D1:338:A:C4'	29:D1:338:A:OP2	2.41	0.68
54:BY:84:GLU:HA	54:BY:85:ASP:CB	2.23	0.68
29:D1:730:C:C2'	29:D1:731:U:H5'	2.24	0.68
29:D1:629:U:H3'	29:D1:630:A:H8	1.58	0.68
4:AC:144:ALA:O	4:AC:145:ALA:HB2	1.93	0.68
9:AH:28:VAL:O	9:AH:41:ARG:HA	1.94	0.68
16:AO:85:ASP:O	16:AO:87:GLU:N	2.27	0.68
1:A1:1112:G:N2	1:A1:1134:C:C4	2.62	0.68
29:B1:1498:A:O2'	29:B1:1499:C:H5'	1.94	0.68
29:B1:213:A:H61	29:B1:227:G:H2'	1.59	0.68
29:B1:2307:G:C6	29:B1:2310:U:O4	2.47	0.68
29:B1:3090:U:O2'	29:B1:3091:A:OP1	2.12	0.68
29:B1:3118:C:H2'	29:B1:3119:U:C6	2.28	0.68
29:B1:60:A:C4	29:B1:328:U:N3	2.62	0.68
29:B1:3316:A:N1	29:B1:3388:C:C4	2.61	0.68
29:B1:361:A:O2'	29:B1:362:U:O4'	2.12	0.68
29:B1:411:U:C2'	29:B1:412:G:H5'	2.24	0.68
29:B1:422:A:N3	29:B1:422:A:O4'	2.23	0.68
29:B1:512:U:N3	29:B1:579:G:N1	2.42	0.68
29:B1:947:G:C4	29:B1:948:C:C5	2.82	0.68
1:C1:1671:A:C8	1:C1:1731:A:N6	2.61	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:586:G:H2'	1:C1:587:C:C6	2.29	0.68
29:D1:11:A:C2'	29:D1:12:A:H5'	2.23	0.68
29:D1:1450:G:C2	29:D1:1451:C:C5	2.82	0.68
29:D1:1847:A:H2	29:D1:1849:C:O4'	1.77	0.68
29:D1:2697:A:H2'	29:D1:2698:G:H8	1.58	0.68
29:D1:271:C:O2'	29:D1:272:G:C8	2.46	0.68
29:D1:2386:A:N6	29:D1:2993:G:O2'	2.25	0.68
29:D1:3315:G:H5''	29:D1:3319:U:H5'	1.76	0.68
29:D1:565:U:C2'	29:D1:566:G:H5'	2.23	0.68
31:D3:106:C:C4	31:D3:138:A:N6	2.62	0.68
31:D3:69:U:H2'	31:D3:70:G:H4'	1.75	0.68
31:D3:69:U:H2'	31:D3:70:G:C1'	2.24	0.68
37:DF:42:LEU:HA	37:DF:84:VAL:CB	2.22	0.68
1:C1:826:U:H2'	1:C1:827:C:C6	2.28	0.68
29:B1:2651:G:C4	29:B1:2796:G:N2	2.62	0.68
31:B3:58:G:H2'	31:B3:99:C:O2'	1.94	0.68
31:B3:69:U:H3'	31:B3:70:G:H4'	1.75	0.68
30:D2:9:C:H3'	30:D2:10:C:H4'	1.75	0.68
1:C1:1720:G:H2'	1:C1:1721:A:H8	1.59	0.68
1:C1:1250:U:O4	1:C1:1251:U:O4	2.10	0.68
1:C1:1267:G:H21	1:C1:1448:G:C5'	2.06	0.68
1:C1:1178:G:N2	1:C1:1462:G:C4	2.62	0.68
1:A1:1199:G:C6	1:A1:1200:G:H1'	2.28	0.68
1:A1:1269:U:O2	1:A1:1269:U:O4'	2.07	0.68
30:D2:22:A:H2'	30:D2:23:A:C8	2.28	0.68
30:B2:44:C:C5	30:B2:45:A:N7	2.62	0.68
29:D1:1256:G:C4	29:D1:1257:C:C6	2.81	0.68
29:B1:2591:A:C2	29:B1:2592:G:C1'	2.76	0.68
29:D1:3240:C:O2'	29:D1:3241:G:H5'	1.94	0.68
29:D1:1631:C:H5'	29:D1:1813:A:C2	2.29	0.68
29:D1:2131:A:H2'	29:D1:2132:C:C5'	2.18	0.68
49:DT:70:SER:O	49:DT:72:VAL:N	2.27	0.68
30:D2:2:G:H2'	30:D2:3:U:C6	2.29	0.68
29:D1:2833:A:C6	29:D1:2834:G:C8	2.82	0.68
1:C1:1580:C:H4'	1:C1:1581:C:OP1	1.93	0.68
1:C1:1663:G:C4	1:C1:1664:C:C5	2.82	0.68
47:DR:123:THR:O	47:DR:125:ASP:N	2.26	0.68
5:CD:117:THR:CA	5:CD:191:ALA:HB1	2.24	0.68
11:AJ:93:HIS:CB	11:AJ:94:GLN:CA	2.72	0.68
29:D1:355:A:C8	29:D1:356:C:C6	2.81	0.68
29:D1:2883:U:H2'	29:D1:2884:C:C6	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2560:C:O5'	29:B1:2560:C:H6	1.76	0.68
1:C1:930:A:H3'	1:C1:931:C:C6	2.28	0.68
54:DY:90:TYR:O	54:DY:92:LYS:HA	1.93	0.68
43:BN:26:GLY:O	43:BN:27:GLN:O	2.12	0.68
1:A1:278:U:O2	1:A1:278:U:H3'	1.94	0.68
29:B1:1129:A:N6	29:B1:1130:A:C6	2.61	0.68
29:B1:1130:A:H2'	29:B1:1132:C:H6	1.57	0.68
29:B1:1174:G:N3	29:B1:1175:C:C6	2.62	0.68
29:B1:213:A:H61	29:B1:227:G:C2'	2.06	0.68
29:B1:221:A:O2'	29:B1:223:U:OP2	2.12	0.68
29:B1:3328:G:N2	29:B1:3329:U:C2	2.61	0.68
29:B1:44:U:C5	29:B1:45:A:C4	2.81	0.68
29:B1:722:G:N2	29:B1:749:C:C6	2.62	0.68
29:B1:891:G:H2'	29:B1:892:U:O5'	1.94	0.68
1:C1:1043:A:H2'	1:C1:1044:U:H5	1.59	0.68
1:C1:1765:A:H4'	1:C1:1766:A:OP2	1.94	0.68
1:C1:523:G:H2'	1:C1:524:U:C4	2.29	0.68
29:D1:112:U:O2'	29:D1:113:C:O5'	2.09	0.68
29:D1:1294:A:C2'	29:D1:1295:G:O5'	2.42	0.68
29:D1:1437:C:O2	29:D1:1437:C:H2'	1.91	0.68
29:D1:1468:A:O2'	29:D1:1469:C:P	2.52	0.68
29:D1:2698:G:H2'	29:D1:2699:G:C5'	2.21	0.68
29:D1:2918:G:C2	29:D1:2919:A:C8	2.82	0.68
29:D1:3102:G:H2'	29:D1:3103:A:O4'	1.93	0.68
29:D1:342:A:C2	29:D1:349:A:C8	2.82	0.68
29:D1:423:A:N1	29:D1:637:C:OP1	2.26	0.68
29:D1:712:G:N2	29:D1:752:C:O3'	2.27	0.68
29:D1:785:G:C8	29:D1:785:G:OP1	2.47	0.68
29:B1:955:U:C2	29:B1:956:U:C5	2.81	0.68
30:B2:16:U:O2'	30:B2:17:A:H5'	1.94	0.68
1:A1:129:U:H4'	1:A1:129:U:OP1	1.91	0.68
1:A1:150:U:H2'	1:A1:150:U:O2	1.93	0.68
30:D2:62:U:H5'	30:D2:63:A:OP2	1.94	0.68
1:C1:1272:U:H5''	1:C1:1273:G:OP2	1.94	0.68
1:A1:1558:U:C6	1:A1:1559:A:C2	2.82	0.68
29:B1:2520:A:H2'	29:B1:2521:U:C2	2.29	0.68
29:D1:232:G:C5	29:D1:233:C:C5	2.82	0.68
29:B1:1229:G:H2'	29:B1:1230:G:H8	1.58	0.68
29:D1:3219:G:C4	29:D1:3257:C:H3'	2.29	0.68
46:DQ:76:PHE:CA	46:DQ:78:VAL:H	2.00	0.68
30:D2:94:C:H2'	30:D2:95:A:H8	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1353:U:H2'	29:D1:1354:G:H5''	1.76	0.68
29:D1:1635:G:H2'	29:D1:1635:G:OP2	1.94	0.68
42:BK:84:LEU:O	42:BK:89:TYR:N	2.26	0.68
29:D1:1042:U:H6	29:D1:1042:U:OP2	1.77	0.68
74:A1:1913:OHX:N1	74:A1:1986:OHX:N4	2.42	0.68
41:DJ:144:ASN:O	41:DJ:147:VAL:CB	2.41	0.68
16:CO:53:ILE:O	16:CO:60:LYS:N	2.26	0.68
9:AH:89:THR:HA	9:AH:90:ARG:C	2.14	0.68
29:D1:230:U:H2'	29:D1:231:G:O4'	1.94	0.68
6:CE:95:TYR:O	6:CE:98:ALA:HB3	1.94	0.68
43:DN:126:GLN:O	43:DN:128:ARG:N	2.27	0.68
73:DM:46:ARG:HA	73:DM:49:ALA:HB2	1.75	0.68
1:A1:1024:U:OP1	1:A1:1127:G:O2'	2.11	0.68
1:A1:1046:G:C6	1:A1:1073:G:C2	2.82	0.68
1:A1:44:U:H5'	1:A1:45:U:O4	1.94	0.68
1:A1:587:C:H6	1:A1:587:C:O5'	1.77	0.68
29:B1:1127:G:N2	29:B1:1132:C:N4	2.41	0.68
29:B1:158:G:C6	29:B1:159:A:O2'	2.46	0.68
29:B1:1453:A:H1'	29:B1:1850:A:C2	2.28	0.68
29:B1:2193:U:H5'	29:B1:2312:A:C2	2.29	0.68
1:A1:1746:A:O2'	29:B1:2290:C:H1'	1.94	0.68
29:B1:2356:A:C2	29:B1:2357:A:C4	2.82	0.68
29:B1:2981:U:O2'	29:B1:2982:A:H5''	1.94	0.68
29:B1:3131:U:H2'	29:B1:3131:U:O2	1.92	0.68
29:B1:3315:G:H5''	29:B1:3319:U:H5'	1.76	0.68
29:B1:392:G:C2	29:B1:393:U:H6	2.12	0.68
29:B1:585:A:H3'	29:B1:586:C:H6	1.58	0.68
29:B1:745:C:N4	29:B1:746:A:H61	1.89	0.68
29:B1:910:G:C4	29:B1:911:C:C5	2.82	0.68
31:B3:12:A:H2'	31:B3:13:A:H5'	1.76	0.68
3:CB:165:VAL:HA	3:CB:166:THR:CB	2.23	0.68
29:D1:1225:A:C2'	29:D1:1226:G:OP1	2.42	0.68
29:D1:1798:A:H2'	29:D1:1799:A:C8	2.28	0.68
29:D1:2689:A:H4'	29:D1:2690:G:C5'	2.21	0.68
29:D1:2690:G:HO2'	29:D1:2691:A:P	2.17	0.68
29:D1:2797:C:H3'	29:D1:2798:C:C5'	2.22	0.68
29:D1:3327:G:C2	29:D1:3328:G:N7	2.62	0.68
29:D1:591:G:N2	29:D1:592:A:C4	2.61	0.68
29:D1:971:G:O2'	29:D1:972:A:H5'	1.94	0.68
29:D1:3295:A:OP1	34:DC:132:LYS:CB	2.42	0.68
1:C1:824:G:O3'	1:C1:825:U:O2	2.12	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2699:G:C8	29:B1:2699:G:C5'	2.73	0.68
29:B1:965:A:H2'	29:B1:965:A:N3	2.08	0.68
1:A1:286:C:H2'	1:A1:287:G:C8	2.29	0.68
1:C1:115:G:N2	1:C1:334:G:N2	2.42	0.68
29:B1:2684:C:C2	29:B1:2685:C:C5	2.82	0.68
1:A1:1676:U:H2'	1:A1:1677:C:C5	2.29	0.68
1:A1:1721:A:H3'	1:A1:1722:A:C5'	2.22	0.68
1:C1:1483:A:H1'	1:C1:1524:A:H62	1.58	0.68
1:C1:1195:C:H41	11:CJ:142:TYR:HA	1.59	0.68
1:A1:1238:A:C2'	1:A1:1239:U:H5'	2.22	0.68
1:A1:1571:C:H3'	1:A1:1572:G:H5''	1.74	0.68
29:B1:384:A:H5''	29:B1:385:A:OP2	1.94	0.68
30:B2:35:C:C6	30:B2:35:C:H5'	2.28	0.68
29:B1:3019:U:C4	29:B1:3020:U:C5	2.81	0.68
30:B2:23:A:H3'	30:B2:24:A:C8	2.29	0.68
1:C1:417:A:O5'	1:C1:417:A:C8	2.43	0.68
29:B1:3384:U:H2'	29:B1:3385:U:C6	2.28	0.68
9:CH:22:SER:O	9:CH:24:ASN:N	2.27	0.68
29:B1:336:A:O2'	29:B1:337:G:C5'	2.41	0.68
1:C1:702:G:N3	1:C1:702:G:H2'	2.07	0.68
34:BC:50:LYS:CB	34:BC:334:ARG:H	2.07	0.68
1:A1:1388:A:N7	1:A1:1411:A:N6	2.42	0.68
34:BC:154:TYR:H	34:BC:155:ALA:CB	2.04	0.68
5:CD:204:GLY:C	5:CD:206:SER:H	1.96	0.68
29:B1:2131:A:C2'	29:B1:2132:C:H5''	2.22	0.68
29:D1:3179:U:HO2'	29:D1:3180:A:P	2.17	0.68
29:D1:2491:A:H2'	29:D1:2492:C:O4'	1.92	0.68
29:B1:177:U:O2	29:B1:177:U:H2'	1.92	0.68
43:BN:81:VAL:O	43:BN:83:LYS:N	2.27	0.68
3:AB:236:PRO:O	3:AB:237:VAL:C	2.30	0.68
19:CR:25:VAL:O	19:CR:38:ARG:HA	1.94	0.68
1:C1:319:U:H5'	1:C1:319:U:H6	1.58	0.68
1:A1:1094:G:H2'	1:A1:1095:U:C5	2.29	0.68
1:A1:32:U:H3	1:A1:468:A:N6	1.91	0.68
1:A1:811:A:N3	1:A1:858:G:H1'	2.09	0.68
29:B1:162:G:N2	29:B1:163:C:H1'	2.09	0.68
29:B1:19:U:H2'	29:B1:20:A:C8	2.29	0.68
29:B1:2295:A:C6	29:B1:2296:A:N6	2.62	0.68
29:B1:2968:G:H2'	29:B1:2969:A:O5'	1.94	0.68
29:B1:3072:C:C5	29:B1:3073:A:C5	2.81	0.68
29:B1:3141:A:C5'	29:B1:3143:C:O2	2.42	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3321:C:O2'	29:B1:3322:A:C3'	2.37	0.68
29:B1:564:G:C3'	29:B1:565:U:C6	2.76	0.68
29:B1:595:G:H1	29:B1:609:G:H4'	1.58	0.68
29:B1:627:U:H2'	29:B1:628:A:C8	2.30	0.68
29:B1:883:A:C5	29:B1:921:A:C6	2.82	0.68
31:B3:11:C:O2'	46:BQ:4:TYR:HA	1.94	0.68
1:C1:390:G:N2	1:C1:391:A:C5	2.63	0.68
1:C1:572:C:H5''	1:C1:573:C:OP2	1.93	0.68
1:C1:57:G:C5	1:C1:58:U:C5	2.81	0.68
29:D1:1226:G:C2'	29:D1:1227:C:H6	2.04	0.68
29:D1:1455:U:C3'	29:D1:1456:A:H8	2.07	0.68
29:D1:2288:G:C4	29:D1:2289:U:C5	2.82	0.68
29:D1:2275:A:C2	29:D1:2312:A:C5	2.82	0.68
29:D1:2636:A:H5''	29:D1:2637:A:O5'	1.93	0.68
29:D1:2714:G:C8	29:D1:2716:U:C5	2.82	0.68
29:D1:284:A:H2'	29:D1:284:A:N3	2.08	0.68
29:D1:759:U:C4	29:D1:773:G:C5	2.82	0.68
34:DC:51:ALA:CB	34:DC:78:VAL:O	2.42	0.68
1:C1:844:A:H2'	1:C1:845:G:H8	1.58	0.68
1:C1:743:U:O4	1:C1:809:A:N1	2.27	0.68
30:B2:69:C:O2	30:B2:69:C:H2'	1.93	0.68
31:B3:71:A:C4'	31:B3:72:A:OP1	2.42	0.68
1:C1:331:A:C2	1:C1:332:U:C2	2.81	0.68
1:C1:1209:C:H2'	1:C1:1210:C:H6	1.58	0.68
1:C1:1348:A:C2	1:C1:1378:U:C6	2.82	0.68
29:D1:3208:G:H2'	29:D1:3208:G:N3	2.07	0.68
29:B1:3210:A:C8	29:B1:3211:C:H5	2.12	0.68
30:D2:25:G:H2'	30:D2:26:C:C6	2.29	0.68
15:AN:21:LYS:H	15:AN:92:ASP:HA	1.57	0.68
30:B2:33:U:O2'	30:B2:34:C:N1	2.27	0.68
29:B1:1595:U:HO2'	29:B1:1596:C:H6	1.41	0.68
1:C1:1647:U:H2'	1:C1:1648:A:H8	1.59	0.68
29:D1:2595:A:H2'	29:D1:2596:U:H6	1.58	0.68
29:B1:2354:C:H2'	29:B1:2354:C:O2	1.93	0.68
30:B2:3:U:C2	30:B2:4:U:C5	2.82	0.68
1:A1:1656:U:H5''	1:A1:1657:U:O5'	1.94	0.68
29:B1:1035:G:C4	29:B1:1036:A:C8	2.82	0.68
29:B1:3350:C:H4'	29:B1:3354:U:C5	2.28	0.68
29:D1:2914:G:C4	29:D1:2915:U:C6	2.82	0.68
17:AP:102:VAL:HA	17:AP:127:VAL:CB	2.24	0.68
17:CP:127:VAL:HA	17:CP:128:SER:C	2.14	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:212:U:O2'	1:C1:213:A:H5'	1.93	0.68
1:A1:345:U:H4'	1:A1:346:G:OP1	1.94	0.68
29:B1:668:G:H2'	29:B1:669:U:H6	1.58	0.68
29:B1:2336:U:C5	29:B1:2337:C:C5	2.82	0.68
74:A1:1913:OHX:N2	74:A1:1986:OHX:N6	2.41	0.68
1:C1:567:A:N6	1:C1:568:G:C4	2.62	0.68
31:B3:34:U:H2'	31:B3:34:U:O2	1.93	0.68
36:DE:238:ASP:O	36:DE:240:TYR:N	2.27	0.68
16:AO:102:VAL:H	16:AO:113:HIS:CB	2.07	0.68
1:A1:594:A:C4'	1:A1:595:G:H5'	2.23	0.67
1:A1:871:G:O2'	1:A1:872:G:H5''	1.94	0.67
29:B1:11:A:O3'	29:B1:1558:A:C2	2.47	0.67
29:B1:2221:G:N2	29:B1:2225:U:N3	2.41	0.67
29:B1:3135:U:C6	29:B1:3136:G:N7	2.62	0.67
29:B1:3160:U:H2'	29:B1:3161:C:C6	2.29	0.67
29:B1:67:A:C4	29:B1:317:A:C8	2.81	0.67
29:B1:416:A:C2	29:B1:417:A:C8	2.83	0.67
29:B1:779:G:H3'	29:B1:779:G:H8	1.60	0.67
29:B1:796:U:H2'	29:B1:797:U:H6	1.57	0.67
31:B3:109:A:C2'	31:B3:110:C:H5'	2.24	0.67
38:BG:66:LYS:O	38:BG:69:ALA:CB	2.40	0.67
1:C1:1781:A:O5'	1:C1:1781:A:H8	1.76	0.67
1:C1:427:C:H5'	1:C1:427:C:H6	1.57	0.67
1:C1:610:G:C2	1:C1:614:C:C2	2.82	0.67
29:D1:2628:A:C1'	29:D1:2798:C:C5	2.76	0.67
29:D1:1302:A:H1'	29:D1:2887:A:C2	2.29	0.67
29:D1:3096:C:O2'	29:D1:3097:C:H5'	1.94	0.67
29:D1:566:G:O2'	29:D1:567:G:H5'	1.94	0.67
29:D1:589:A:OP2	29:D1:611:A:C2	2.47	0.67
29:D1:878:G:O4'	29:D1:880:G:N2	2.27	0.67
31:D3:24:G:H2'	31:D3:25:G:O5'	1.94	0.67
1:A1:226:A:O2'	1:A1:227:U:H6	1.77	0.67
1:A1:740:A:C2'	1:A1:741:C:H5''	2.24	0.67
29:B1:2643:A:H3'	29:B1:2644:C:H5''	1.76	0.67
1:A1:147:A:H3'	1:A1:148:A:H8	1.57	0.67
1:C1:1372:U:H2'	1:C1:1373:C:O4'	1.93	0.67
1:C1:1385:G:H2'	1:C1:1386:G:H8	1.59	0.67
1:A1:1556:A:H2'	1:A1:1560:U:C5	2.29	0.67
29:B1:1234:G:H3'	29:B1:1235:U:H5''	1.76	0.67
29:D1:3217:C:H1'	29:D1:3220:G:O2'	1.94	0.67
29:D1:3265:C:C4	29:D1:3266:G:N7	2.62	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1248:C:H2'	29:D1:1249:G:H5'	1.76	0.67
1:C1:1392:U:H2'	1:C1:1393:C:H6	1.59	0.67
29:B1:1086:C:H5'	29:B1:1087:G:OP2	1.93	0.67
29:B1:986:U:C2'	29:B1:987:U:O5'	2.42	0.67
29:B1:625:G:O2'	29:B1:626:U:O5'	2.13	0.67
29:D1:2506:U:H2'	29:D1:2507:C:C5	2.28	0.67
39:BH:99:PRO:C	39:BH:101:THR:N	2.44	0.67
29:B1:2207:A:H8	29:B1:2237:C:O2	1.76	0.67
36:DE:226:TYR:CB	36:DE:234:ASP:H	2.07	0.67
45:DP:18:ARG:C	45:DP:20:ALA:N	2.46	0.67
14:AM:60:SER:C	14:AM:62:ALA:H	1.94	0.67
43:DN:23:ILE:O	43:DN:32:LEU:HA	1.94	0.67
29:B1:1819:U:C6	29:B1:1820:U:C5	2.82	0.67
46:DQ:128:ARG:HA	46:DQ:138:LYS:HA	1.74	0.67
4:CC:135:GLU:HA	4:CC:152:PHE:O	1.93	0.67
54:BY:126:LYS:O	54:BY:147:LEU:HA	1.94	0.67
1:C1:666:U:O2'	1:C1:667:U:H5'	1.94	0.67
16:CO:37:PHE:C	16:CO:39:GLN:H	1.97	0.67
1:A1:1045:C:O2	1:A1:1045:C:C2'	2.40	0.67
1:A1:518:A:H2'	1:A1:519:C:C5'	2.23	0.67
1:A1:817:A:C2	1:A1:855:A:H2	2.12	0.67
29:B1:1376:C:H5'	29:B1:1407:A:N1	2.10	0.67
29:B1:149:U:C2	44:BO:55:ALA:HA	2.30	0.67
29:B1:185:C:C2	29:B1:186:U:C5	2.83	0.67
29:B1:2222:A:O2'	29:B1:2223:A:C8	2.46	0.67
29:B1:2255:A:N3	74:B1:3438:OHX:N5	2.42	0.67
29:B1:2262:A:H5''	29:B1:2263:C:H5'	1.76	0.67
29:B1:2919:A:H3'	29:B1:2920:U:H5'	1.77	0.67
29:B1:2989:U:H2'	29:B1:2990:G:O4'	1.93	0.67
29:B1:3005:A:N3	29:B1:3140:G:C2	2.63	0.67
29:B1:306:A:C2	29:B1:307:A:C8	2.82	0.67
29:B1:3123:A:H2'	29:B1:3124:G:H5'	1.77	0.67
29:B1:2255:A:C2	74:B1:3438:OHX:N5	2.62	0.67
29:B1:510:G:N2	29:B1:511:G:H1'	2.09	0.67
29:B1:769:G:H4'	29:B1:770:G:OP1	1.94	0.67
1:C1:461:G:H2'	1:C1:462:G:H8	1.59	0.67
1:C1:478:A:C2	1:C1:479:C:C2	2.82	0.67
1:C1:553:G:H3'	1:C1:554:C:C5'	2.24	0.67
1:C1:8:U:H3	1:C1:1139:A:H62	1.41	0.67
1:C1:93:A:C6	1:C1:398:G:C6	2.82	0.67
29:D1:1103:A:H1'	29:D1:1104:G:OP1	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1119:C:H3'	29:D1:1120:A:H8	1.59	0.67
29:D1:20:A:H4'	29:D1:21:G:OP1	1.94	0.67
29:D1:2239:G:O2'	29:D1:2240:G:H5'	1.93	0.67
29:D1:2271:A:C3'	29:D1:2272:G:H5''	2.23	0.67
29:D1:2363:A:C2	29:D1:2376:G:C6	2.83	0.67
29:D1:563:U:C4	29:D1:564:G:C8	2.82	0.67
29:D1:609:G:H4'	29:D1:610:G:OP1	1.92	0.67
29:D1:701:G:H2'	29:D1:702:C:C6	2.30	0.67
29:D1:716:A:H3'	29:D1:717:C:H4'	1.75	0.67
30:D2:75:G:P	74:D2:201:OHX:N2	2.66	0.67
1:C1:1685:G:H22	1:C1:1718:G:N2	1.92	0.67
29:D1:2678:A:O4'	29:D1:2679:A:H2	1.77	0.67
29:B1:2682:C:C4	29:B1:2683:U:H5	2.12	0.67
1:C1:1240:U:H2'	1:C1:1241:G:C5'	2.14	0.67
1:C1:1566:U:O2'	1:C1:1567:U:H5''	1.94	0.67
1:A1:1244:A:C2	1:A1:1245:G:C8	2.82	0.67
1:A1:1379:C:H2'	1:A1:1379:C:O2	1.94	0.67
1:A1:1454:G:H2'	1:A1:1455:G:H5'	1.75	0.67
29:D1:3181:C:N4	29:D1:3190:C:OP1	2.27	0.67
29:D1:1248:C:C5	29:D1:1249:G:C8	2.82	0.67
29:D1:1256:G:C2	29:D1:1257:C:H1'	2.30	0.67
29:D1:1065:A:O2'	29:D1:1066:G:C8	2.44	0.67
29:B1:851:C:H2'	29:B1:852:U:H6	1.59	0.67
1:C1:1402:G:C6	1:C1:1403:C:C4	2.83	0.67
29:D1:2517:U:O2	29:D1:2517:U:H2'	1.93	0.67
1:C1:1753:A:H61	1:C1:1754:A:H61	1.42	0.67
1:A1:127:G:O6	1:A1:179:A:C6	2.28	0.67
1:A1:1341:A:H2'	1:A1:1341:A:N3	2.08	0.67
29:D1:3074:G:C2'	29:D1:3075:G:H5'	2.24	0.67
29:D1:2550:U:H5'	29:D1:2551:U:OP2	1.93	0.67
5:CD:199:ILE:C	5:CD:201:ALA:H	1.98	0.67
29:D1:2861:U:H2'	29:D1:2862:U:C6	2.29	0.67
46:DQ:32:THR:O	46:DQ:35:ALA:HB3	1.94	0.67
29:B1:1815:U:H3'	29:B1:1816:A:H5'	1.77	0.67
42:DK:18:VAL:HA	42:DK:70:THR:CB	2.25	0.67
42:DK:84:LEU:HA	42:DK:89:TYR:HA	1.76	0.67
41:DJ:69:ARG:O	41:DJ:72:ALA:HB3	1.94	0.67
42:DK:153:LYS:O	42:DK:155:THR:N	2.27	0.67
45:BP:81:TYR:O	45:BP:82:LYS:C	2.31	0.67
4:CC:144:ALA:O	4:CC:145:ALA:HB2	1.95	0.67
36:DE:12:TYR:O	36:DE:13:SER:CB	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:350:ALA:O	34:DC:351:LEU:CB	2.42	0.67
1:A1:1302:U:H6	1:A1:1302:U:OP2	1.77	0.67
1:A1:1728:A:C5	1:A1:1729:C:C5	2.81	0.67
1:A1:97:C:O2	1:A1:425:A:O2'	2.13	0.67
1:A1:445:A:H2'	1:A1:446:A:C8	2.29	0.67
1:A1:590:C:H2'	1:A1:591:A:C8	2.30	0.67
1:A1:861:U:C5	1:A1:862:A:H8	2.12	0.67
29:B1:1167:U:H6	29:B1:1167:U:C5'	2.07	0.67
29:B1:1174:G:H1'	29:B1:1181:U:N3	2.10	0.67
29:B1:1688:U:C2'	29:B1:1689:U:C5	2.77	0.67
29:B1:1904:C:C4	29:B1:1905:G:N7	2.62	0.67
29:B1:2407:C:H2'	29:B1:2408:U:H6	1.58	0.67
29:B1:3094:A:H2'	29:B1:3095:U:C6	2.29	0.67
29:B1:3148:U:H2'	29:B1:3149:G:H8	1.60	0.67
29:B1:638:C:H2'	29:B1:639:G:C8	2.29	0.67
29:B1:952:A:H62	29:B1:1142:G:H21	1.42	0.67
31:B3:104:A:H5'	31:B3:105:A:C5'	2.23	0.67
31:B3:104:A:C5'	31:B3:105:A:H8	2.06	0.67
34:BC:175:LYS:O	34:BC:176:ALA:O	2.11	0.67
44:BO:85:THR:CB	44:BO:88:GLY:H	2.08	0.67
1:C1:1102:G:H2'	1:C1:1103:U:O5'	1.95	0.67
1:C1:143:G:N3	1:C1:144:U:H1'	2.09	0.67
1:C1:20:G:H2'	1:C1:21:U:H5'	1.76	0.67
1:C1:450:U:C2	1:C1:451:A:N7	2.62	0.67
1:C1:463:U:H2'	1:C1:464:A:C8	2.29	0.67
29:D1:1466:G:C6	29:D1:1511:U:C5	2.82	0.67
29:D1:1482:A:OP2	29:D1:1858:A:C5	2.47	0.67
29:D1:1547:G:H2'	29:D1:1548:C:C5	2.28	0.67
29:D1:158:G:C5	29:D1:159:A:H1'	2.29	0.67
29:D1:1590:G:C2	29:D1:1591:G:C8	2.82	0.67
29:D1:2289:U:H2'	29:D1:2290:C:H5'	1.75	0.67
29:D1:2405:C:C2'	29:D1:2405:C:O2	2.41	0.67
29:D1:2621:G:H2'	29:D1:2622:C:C6	2.28	0.67
29:D1:2703:A:C3'	29:D1:2704:A:H5'	2.23	0.67
29:D1:3041:U:O2'	29:D1:3042:U:C5'	2.43	0.67
29:D1:3309:G:N7	29:D1:3310:A:H1'	2.09	0.67
29:D1:574:U:C5'	29:D1:574:U:H6	2.06	0.67
29:D1:585:A:C4	29:D1:586:C:C5	2.82	0.67
29:D1:9:U:N3	29:D1:10:C:C5	2.63	0.67
37:DF:93:VAL:O	37:DF:97:ASN:N	2.27	0.67
1:A1:825:U:C6	1:A1:847:A:N1	2.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1239:U:C5	1:A1:1241:G:C6	2.81	0.67
29:B1:618:C:C2	29:B1:619:A:C8	2.82	0.67
29:D1:207:U:C2	29:D1:208:C:C5	2.82	0.67
29:B1:1233:G:O2'	29:B1:1234:G:H5''	1.95	0.67
1:A1:1283:U:C2	1:A1:1284:C:H5	2.12	0.67
34:DC:94:GLU:HA	34:DC:154:TYR:CB	2.24	0.67
29:D1:1687:U:OP1	29:D1:1687:U:C6	2.48	0.67
43:DN:33:ALA:HB1	43:DN:48:GLY:N	2.07	0.67
43:DN:47:ASP:CB	43:DN:54:PRO:O	2.42	0.67
29:D1:2178:A:H5'	33:DB:128:ARG:CB	2.25	0.67
1:C1:1089:U:H2'	1:C1:1090:C:H5'	1.77	0.67
8:AG:108:ASP:O	8:AG:111:ALA:N	2.27	0.67
74:B1:3519:OHX:N2	74:B1:3605:OHX:N1	2.42	0.67
1:A1:766:U:C4	1:A1:769:A:N7	2.62	0.67
49:DT:14:MET:C	49:DT:16:GLN:H	1.97	0.67
10:AI:33:PHE:C	10:AI:35:LYS:H	1.97	0.67
29:D1:495:G:C2'	29:D1:496:C:H5'	2.24	0.67
1:A1:1003:A:H1'	1:A1:1004:U:OP2	1.95	0.67
1:A1:1101:G:C8	1:A1:1101:G:OP2	2.43	0.67
1:A1:1138:A:N3	1:A1:1139:A:C8	2.62	0.67
1:A1:1631:A:N6	1:A1:1636:C:C5	2.60	0.67
1:A1:364:G:C8	1:A1:377:G:N2	2.62	0.67
29:B1:1479:U:C3'	29:B1:1480:G:C5'	2.57	0.67
29:B1:2714:G:C8	29:B1:2716:U:C5	2.81	0.67
29:B1:279:U:O2'	29:B1:280:U:H5'	1.94	0.67
29:B1:2841:G:C6	29:B1:2844:C:C4	2.82	0.67
29:B1:2858:U:H2'	29:B1:2859:U:C6	2.30	0.67
29:B1:2897:A:C8	29:B1:2899:C:O4'	2.47	0.67
29:B1:2949:U:C5	29:B1:2950:G:O6	2.47	0.67
29:B1:2393:G:C6	29:B1:2982:A:H2	2.04	0.67
29:B1:3377:G:N9	74:B1:3450:OHX:N4	2.43	0.67
29:B1:693:A:C4	29:B1:694:C:C5	2.81	0.67
29:B1:701:G:H2'	29:B1:702:C:C6	2.30	0.67
29:B1:3314:A:C8	34:BC:119:TYR:HA	2.29	0.67
37:BF:152:THR:HA	37:BF:156:LYS:N	2.10	0.67
1:C1:1756:A:N6	74:C1:1901:OHX:N4	2.43	0.67
1:C1:57:G:C6	1:C1:58:U:C5	2.82	0.67
1:C1:985:G:C5	1:C1:986:G:N7	2.62	0.67
29:D1:1224:C:P	29:D1:1224:C:H6	2.17	0.67
29:D1:2259:A:H3'	29:D1:2260:U:H6	1.57	0.67
29:D1:2265:C:N4	29:D1:2266:U:C4	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:648:C:H5	29:D1:2374:C:O3'	1.77	0.67
29:D1:993:G:H1'	29:D1:2637:A:H2'	1.77	0.67
29:D1:2374:C:N4	29:D1:2941:A:N3	2.42	0.67
29:D1:3090:U:OP1	29:D1:3090:U:H4'	1.95	0.67
29:D1:3331:U:C3'	29:D1:3332:U:H5'	2.24	0.67
29:D1:3393:U:C2'	29:D1:3394:U:H5'	2.24	0.67
29:D1:594:U:O2	29:D1:595:G:C5	2.47	0.67
29:D1:64:G:H1'	29:D1:77:A:N3	2.09	0.67
29:D1:773:G:N2	29:D1:774:G:C4	2.63	0.67
29:D1:907:G:C6	29:D1:926:A:C8	2.83	0.67
29:D1:974:G:C5	29:D1:975:C:C5	2.82	0.67
31:D3:2:A:C6	31:D3:3:A:C2	2.83	0.67
1:C1:846:G:O2'	1:C1:847:A:O4'	2.11	0.67
29:B1:992:A:N1	29:B1:993:G:C5	2.63	0.67
5:AD:108:LEU:C	5:AD:110:ALA:N	2.48	0.67
29:D1:2676:A:H2	29:D1:2680:A:C2	2.11	0.67
1:C1:1256:A:N3	1:C1:1256:A:H2'	2.10	0.67
1:C1:1585:U:C5	1:C1:1610:G:N2	2.62	0.67
1:A1:1174:C:C2	1:A1:1466:G:C2	2.82	0.67
1:A1:1166:A:O2'	1:A1:1587:A:H4'	1.95	0.67
29:B1:1196:C:H5	29:B1:1197:A:C5	2.13	0.67
29:D1:3200:G:H2'	29:D1:3201:C:C5	2.28	0.67
29:D1:197:G:C8	29:D1:395:A:H1'	2.29	0.67
31:B3:125:U:N3	74:B3:206:OHX:N6	2.42	0.67
30:D2:46:A:OP2	30:D2:46:A:C5	2.48	0.67
29:D1:988:U:H2'	29:D1:989:A:C8	2.29	0.67
1:C1:1340:U:O3'	1:C1:1341:A:H2'	1.94	0.67
1:C1:1408:G:H1'	1:C1:1409:G:C2	2.30	0.67
1:A1:1651:A:C2	1:A1:1652:C:C6	2.81	0.67
29:B1:1629:U:H3'	29:B1:1630:U:H5''	1.76	0.67
29:B1:126:U:O2'	29:B1:127:G:H8	1.74	0.67
29:B1:624:G:C2	29:B1:625:G:N7	2.63	0.67
1:A1:1324:G:C6	1:A1:1325:A:N7	2.62	0.67
29:D1:1715:A:N6	29:D1:1716:U:C5	2.60	0.67
6:CE:71:PHE:O	6:CE:75:ALA:CB	2.43	0.67
29:D1:841:A:H5''	48:DS:125:LYS:O	1.93	0.67
29:D1:2555:G:H1'	29:D1:2556:C:OP2	1.94	0.67
29:D1:1724:U:H2'	29:D1:1725:C:C6	2.28	0.67
10:AI:98:ASN:N	10:AI:101:ALA:HB3	2.10	0.67
52:DW:57:LEU:CB	52:DW:58:ASP:CB	2.72	0.67
72:DL:125:LEU:HA	72:DL:129:THR:CB	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DR:57:ILE:C	47:DR:59:ARG:H	1.97	0.67
29:D1:2764:C:OP2	29:D1:2764:C:H6	1.77	0.67
2:CA:88:LYS:O	2:CA:90:ALA:N	2.27	0.67
1:A1:512:A:O2'	1:A1:513:U:O5'	2.13	0.67
1:A1:26:A:H2	1:A1:600:U:N3	1.93	0.67
16:AO:8:ALA:O	16:AO:12:ASN:CB	2.42	0.67
29:B1:1153:A:N7	29:B1:1154:A:C2	2.62	0.67
29:B1:1302:A:C1'	29:B1:2887:A:C2	2.78	0.67
29:B1:156:G:H1'	29:B1:157:A:OP1	1.95	0.67
29:B1:1838:G:C4'	29:B1:1839:A:C8	2.78	0.67
29:B1:2249:G:O4'	29:B1:2272:G:C8	2.48	0.67
29:B1:3071:U:O2'	29:B1:3072:C:H5'	1.95	0.67
29:B1:3313:U:O2'	29:B1:3314:A:O5'	2.13	0.67
29:B1:3333:G:N3	29:B1:3371:G:C8	2.63	0.67
29:B1:78:U:H3	29:B1:325:A:H61	1.43	0.67
29:B1:827:A:H3'	29:B1:828:A:H8	1.58	0.67
31:B3:140:G:C6	31:B3:141:C:N3	2.62	0.67
1:C1:1005:A:C8	1:C1:1006:C:C5	2.82	0.67
1:C1:1629:G:H2'	1:C1:1630:U:O4'	1.94	0.67
1:C1:1760:G:C5	1:C1:1761:U:C5	2.82	0.67
1:C1:1767:G:OP1	1:C1:1770:U:H4'	1.95	0.67
29:D1:1144:U:H6	29:D1:1144:U:O5'	1.77	0.67
29:D1:11:A:O3'	29:D1:1558:A:C2	2.48	0.67
29:D1:1220:U:O3'	29:D1:1222:G:OP1	2.12	0.67
29:D1:1449:A:H3'	29:D1:1450:G:H8	1.58	0.67
29:D1:2986:U:C2	29:D1:2987:A:C8	2.82	0.67
29:D1:3026:G:O6	74:D1:3413:OHX:N2	2.28	0.67
29:D1:3135:U:C5	29:D1:3136:G:C6	2.83	0.67
29:D1:637:C:C2	29:D1:2361:A:C2	2.82	0.67
31:D3:103:G:C6	31:D3:105:A:N6	2.62	0.67
31:D3:142:C:H2'	31:D3:142:C:O2	1.93	0.67
1:C1:646:C:H2'	1:C1:647:G:H5''	1.77	0.67
29:B1:2689:A:C2	29:B1:2702:A:H2	2.13	0.67
29:B1:998:A:H2'	29:B1:999:G:H5'	1.76	0.67
30:B2:9:C:H3'	30:B2:10:C:H4'	1.76	0.67
1:A1:267:U:C2'	1:A1:267:U:O2	2.41	0.67
30:D2:77:G:N2	30:D2:101:G:C4	2.63	0.67
30:D2:77:G:C2	30:D2:101:G:C5	2.82	0.67
1:C1:331:A:H2'	1:C1:331:A:N3	2.10	0.67
29:D1:2681:U:O2'	29:D1:2682:C:H5''	1.95	0.67
1:A1:1720:G:H2'	1:A1:1721:A:O4'	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1540:G:C4	1:C1:1541:G:C8	2.83	0.67
1:A1:1274:C:O2'	1:A1:1275:A:OP2	2.11	0.67
30:B2:91:G:H2'	30:B2:92:A:C8	2.30	0.67
29:B1:2687:G:N3	29:B1:2687:G:C3'	2.49	0.67
29:B1:3026:G:N2	29:B1:3030:G:C6	2.62	0.67
30:B2:26:C:C2'	30:B2:27:A:O4'	2.42	0.67
29:D1:3144:G:N7	74:D1:3431:OHX:N1	2.42	0.67
20:CS:38:ILE:N	74:CS:101:OHX:N3	2.39	0.67
29:D1:2584:G:OP1	29:D1:2584:G:H4'	1.94	0.67
29:B1:2861:U:H2'	29:B1:2862:U:H6	1.58	0.67
5:AD:197:GLU:H	5:AD:200:ASN:N	1.91	0.67
29:B1:1351:U:O2	29:B1:1352:A:N7	2.28	0.67
40:DI:111:PHE:HA	40:DI:112:ILE:O	1.94	0.67
44:DO:78:GLY:HA3	44:DO:79:ALA:HB2	1.75	0.67
47:BR:66:ARG:O	47:BR:68:ALA:N	2.26	0.67
29:D1:2545:C:H2'	29:D1:2546:C:C6	2.29	0.67
40:DI:161:LEU:C	40:DI:163:GLN:H	1.98	0.67
1:A1:500:C:H2'	1:A1:501:U:C5	2.30	0.67
39:BH:81:THR:O	39:BH:84:ARG:N	2.28	0.67
1:A1:1302:U:OP2	1:A1:1302:U:C6	2.48	0.67
37:BF:173:MET:O	37:BF:174:LEU:CB	2.43	0.67
40:BI:157:ASN:O	40:BI:158:ALA:C	2.32	0.67
32:DA:66:CYS:H	32:DA:110:PHE:HA	1.59	0.67
48:DS:130:ASN:C	48:DS:132:PHE:H	1.96	0.67
1:A1:1109:G:N3	1:A1:1110:G:C8	2.63	0.67
1:A1:1138:A:C2	1:A1:1139:A:N7	2.61	0.67
1:A1:1778:G:C2	1:A1:1779:U:C5	2.83	0.67
1:A1:40:A:C2	1:A1:469:C:H1'	2.29	0.67
1:A1:44:U:H3'	1:A1:45:U:C5'	2.24	0.67
29:B1:1303:A:O2'	29:B1:1304:A:C8	2.46	0.67
29:B1:1377:G:C2	29:B1:1378:U:C6	2.82	0.67
29:B1:1514:G:O2'	29:B1:1515:A:H5'	1.93	0.67
29:B1:19:U:H2'	29:B1:20:A:N7	2.10	0.67
29:B1:2111:G:O6	29:B1:3332:U:H3'	1.95	0.67
29:B1:2225:U:O2'	29:B1:2226:U:H5'	1.95	0.67
29:B1:264:G:C4	29:B1:265:A:N7	2.62	0.67
29:B1:2946:A:C5	29:B1:2982:A:N6	2.62	0.67
29:B1:915:A:H3'	29:B1:915:A:C8	2.30	0.67
29:B1:932:U:O4'	29:B1:933:A:H5''	1.95	0.67
31:B3:103:G:N1	31:B3:105:A:N6	2.42	0.67
35:BD:165:ALA:O	35:BD:168:ALA:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1025:A:H2'	1:C1:1027:A:H5''	1.77	0.67
1:C1:1097:U:O2'	1:C1:1098:U:C5'	2.39	0.67
1:C1:345:U:H4'	1:C1:346:G:OP1	1.92	0.67
1:C1:622:A:H4'	1:C1:623:A:OP1	1.91	0.67
29:D1:2912:G:C5	29:D1:2913:C:C2	2.83	0.67
29:D1:315:C:H2'	29:D1:316:U:H6	1.59	0.67
29:D1:3305:A:C6	29:D1:3306:U:N3	2.62	0.67
29:D1:3320:A:H2'	29:D1:3321:C:N1	2.09	0.67
29:D1:504:A:O2'	29:D1:505:G:H5'	1.95	0.67
29:D1:2111:G:H22	51:DV:50:ALA:H	1.43	0.67
1:C1:827:C:H2'	1:C1:828:U:N3	2.09	0.67
29:B1:2725:U:H5	29:B1:2727:A:O2'	1.78	0.67
30:B2:8:G:H2'	30:B2:9:C:C6	2.29	0.67
30:D2:75:G:OP1	74:D2:201:OHX:N2	2.28	0.67
1:C1:1684:U:C5	1:C1:1721:A:H2	2.12	0.67
1:C1:1685:G:N2	1:C1:1718:G:H21	1.92	0.67
29:B1:2682:C:C4	29:B1:2683:U:C5	2.82	0.67
1:A1:1722:A:H4'	1:A1:1722:A:OP1	1.94	0.67
1:C1:1554:U:C5	1:C1:1555:A:C8	2.82	0.67
1:A1:1489:U:H5	1:A1:1513:G:N1	1.93	0.67
1:A1:1516:A:H3'	1:A1:1517:U:H5'	1.75	0.67
6:AE:82:ARG:CB	6:AE:149:ARG:HA	2.24	0.67
29:B1:3234:A:H2	29:B1:3253:G:H22	1.40	0.67
29:D1:200:C:H5'	29:D1:221:A:N3	2.09	0.67
29:B1:1282:G:H2'	29:B1:1283:C:H5'	1.77	0.67
30:D2:41:G:C6	30:D2:43:U:C4	2.83	0.67
29:D1:1621:A:O2'	29:D1:1622:U:H5'	1.95	0.67
1:C1:1324:G:C6	1:C1:1325:A:N7	2.62	0.67
29:B1:1088:U:H2'	29:B1:1089:G:H8	1.59	0.67
29:D1:2516:U:H2'	29:D1:2517:U:H6	1.60	0.67
50:DU:97:ASP:O	50:DU:98:ASN:CB	2.42	0.67
29:B1:1728:G:H5'	29:B1:1730:G:O4'	1.95	0.67
29:B1:2105:G:H5'	29:B1:2105:G:C8	2.30	0.67
29:B1:1342:C:H2'	29:B1:1343:A:C8	2.29	0.67
29:B1:1912:U:O2'	29:B1:1913:A:C8	2.48	0.67
29:D1:142:C:H2'	29:D1:143:G:H8	1.60	0.67
1:A1:806:A:H2'	1:A1:807:A:H8	1.59	0.67
29:B1:3165:A:H2'	29:B1:3166:C:H5'	1.76	0.67
1:C1:500:C:H2'	1:C1:501:U:C5	2.30	0.67
29:D1:2117:A:OP2	29:D1:2118:C:N4	2.28	0.67
29:B1:2732:G:C6	29:B1:2733:A:C5	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AI:67:ALA:HA	10:AI:68:PRO:O	1.93	0.67
34:BC:271:GLY:O	34:BC:273:HIS:N	2.27	0.67
1:A1:977:A:C4	1:A1:1025:A:C2	2.81	0.67
1:A1:119:A:O4'	1:A1:397:A:H1'	1.94	0.67
29:B1:1655:G:N2	29:B1:1801:U:C4	2.63	0.67
29:B1:1939:G:H2'	29:B1:1940:G:H5'	1.75	0.67
29:B1:2420:C:C4	29:B1:2421:U:C5	2.82	0.67
29:B1:3302:U:O2'	29:B1:3303:G:O4'	2.10	0.67
29:B1:3309:G:C2	29:B1:3310:A:C8	2.83	0.67
29:B1:422:A:C1'	29:B1:423:A:H5''	2.24	0.67
29:B1:565:U:C2'	29:B1:566:G:H5'	2.25	0.67
29:B1:576:C:H2'	29:B1:577:C:O5'	1.94	0.67
29:B1:58:G:H5''	29:B1:59:G:OP2	1.94	0.67
29:B1:883:A:C6	29:B1:921:A:C6	2.83	0.67
35:BD:39:PHE:O	35:BD:40:THR:C	2.32	0.67
44:BO:49:ARG:HA	44:BO:53:TYR:CB	2.25	0.67
1:C1:1107:G:H3'	1:C1:1108:G:N2	2.09	0.67
1:C1:1645:G:O2'	1:C1:1646:C:O5'	2.13	0.67
1:C1:955:A:H2'	1:C1:956:C:H6	1.60	0.67
1:C1:972:G:O2'	29:D1:847:A:N6	2.27	0.67
29:D1:1212:A:C6	29:D1:1294:A:C2	2.82	0.67
29:D1:1525:G:H1'	29:D1:1829:G:N3	2.08	0.67
29:D1:890:C:O2'	29:D1:2324:A:N3	2.26	0.67
29:D1:2904:U:C2'	29:D1:2904:U:O2	2.42	0.67
29:D1:2912:G:N1	29:D1:2913:C:O2	2.27	0.67
29:D1:2393:G:N1	29:D1:2982:A:C2	2.62	0.67
29:D1:3148:U:H2'	29:D1:3149:G:H8	1.58	0.67
29:D1:3308:C:H5	29:D1:3309:G:N3	1.93	0.67
29:D1:3327:G:N3	29:D1:3328:G:C8	2.62	0.67
29:D1:3363:U:H5	29:D1:3364:C:H1'	1.59	0.67
29:D1:3333:G:C2	29:D1:3370:A:H4'	2.30	0.67
29:D1:347:G:C2	29:D1:353:G:C5	2.82	0.67
29:D1:596:C:C3'	29:D1:596:C:O2	2.40	0.67
29:D1:701:G:H2'	29:D1:702:C:H6	1.60	0.67
29:D1:85:A:H4'	29:D1:86:G:OP1	1.95	0.67
29:D1:952:A:H5'	29:D1:952:A:C8	2.29	0.67
1:A1:833:U:H3'	1:A1:834:G:C5'	2.23	0.67
1:A1:838:G:N7	74:A1:1917:OHX:N6	2.42	0.67
1:C1:828:U:O2'	1:C1:829:A:H5'	1.95	0.67
1:C1:688:G:H2'	1:C1:689:G:H8	1.60	0.67
30:B2:105:C:H2'	30:B2:106:U:H5'	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:86:A:O2'	1:A1:147:A:N3	2.20	0.67
1:A1:72:A:C6	1:A1:82:U:O2	2.48	0.67
1:A1:1679:G:C2	1:A1:1680:G:H1'	2.30	0.67
1:A1:330:G:C4	1:A1:331:A:C8	2.83	0.67
1:C1:1274:C:O2'	1:C1:1275:A:OP2	2.11	0.67
1:C1:1558:U:C6	1:C1:1559:A:H2	2.12	0.67
15:CN:12:GLN:C	15:CN:14:GLN:N	2.44	0.67
1:A1:1209:C:H2'	1:A1:1210:C:H6	1.60	0.67
1:A1:1431:C:C3'	1:A1:1432:U:H5'	2.25	0.67
1:A1:1561:U:H2'	1:A1:1562:G:C8	2.30	0.67
1:A1:1602:C:H3'	1:A1:1603:U:C6	2.25	0.67
29:B1:3201:C:C2'	29:B1:3202:G:H8	2.04	0.67
29:D1:3202:G:O2'	29:D1:3203:U:H5'	1.94	0.67
29:D1:195:U:H2'	29:D1:196:G:O4'	1.95	0.67
1:C1:887:A:C2	1:C1:888:U:C2	2.83	0.67
29:B1:2513:U:H1'	29:B1:2514:U:H2'	1.77	0.67
29:B1:2592:G:C6	74:B1:3449:OHX:N4	2.62	0.67
2:CA:186:GLY:HA2	2:CA:187:ALA:CB	2.15	0.67
29:B1:1075:A:C8	29:B1:1076:C:C6	2.82	0.67
29:B1:1640:G:HO2'	29:B1:1641:U:H6	0.75	0.67
1:A1:1416:G:C5	1:A1:1417:A:C8	2.82	0.67
1:C1:127:G:O6	1:C1:179:A:N1	2.26	0.67
29:D1:1728:G:H21	29:D1:1730:G:N2	1.92	0.67
29:B1:1912:U:C4	29:B1:1913:A:C2	2.82	0.67
29:D1:836:A:H5'	29:D1:837:A:OP2	1.95	0.67
42:BK:84:LEU:HA	42:BK:89:TYR:HA	1.75	0.67
45:DP:148:LYS:CB	45:DP:149:TYR:CB	2.73	0.67
29:B1:2529:A:H2'	29:B1:2530:G:C8	2.30	0.67
29:B1:733:G:N1	29:B1:736:A:N1	2.43	0.67
29:B1:2571:U:O2	29:B1:2571:U:H2'	1.93	0.67
1:C1:951:A:C2'	1:C1:952:A:O5'	2.43	0.67
74:A1:1913:OHX:N5	74:A1:1986:OHX:N6	2.43	0.67
29:D1:1812:G:N3	29:D1:1812:G:H2'	2.10	0.67
32:DA:55:LEU:H	32:DA:167:VAL:HA	1.59	0.67
7:AF:110:HIS:HA	7:AF:111:VAL:CB	2.24	0.67
35:DD:193:LYS:O	35:DD:195:ARG:N	2.28	0.67
1:A1:364:G:C2	1:A1:381:C:N3	2.62	0.67
1:A1:401:A:C2	1:A1:404:G:C8	2.82	0.67
1:A1:513:U:H5	1:A1:538:A:C6	2.12	0.67
1:A1:518:A:H8	1:A1:519:C:H5"	1.59	0.67
16:AO:8:ALA:HB2	16:AO:75:ILE:CB	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1444:G:H1	29:B1:2359:C:H42	1.40	0.67
29:B1:1856:C:H2'	29:B1:1857:C:H5'	1.76	0.67
29:B1:2284:C:C2	29:B1:2308:C:O4'	2.48	0.67
29:B1:2931:C:C2	29:B1:2932:U:C6	2.82	0.67
29:B1:645:A:C5	29:B1:649:A:N7	2.63	0.67
29:B1:716:A:H2'	29:B1:717:C:C2'	2.24	0.67
29:B1:8:C:C2'	29:B1:9:U:C6	2.77	0.67
31:B3:114:G:O2'	31:B3:115:C:H5'	1.95	0.67
1:C1:1007:C:C2'	1:C1:1007:C:O2	2.41	0.67
1:C1:515:A:H5'	74:C1:1933:OHX:N4	2.09	0.67
1:C1:390:G:H22	1:C1:407:A:H61	1.41	0.67
1:C1:71:A:C6	1:C1:83:G:N1	2.63	0.67
29:D1:1140:G:C2	29:D1:1141:C:C5	2.83	0.67
29:D1:1210:U:H2'	29:D1:1211:U:H5'	1.76	0.67
29:D1:1302:A:C4	29:D1:2887:A:C2	2.83	0.67
29:D1:1311:G:H1'	29:D1:2381:G:H5'	1.77	0.67
29:D1:1366:A:H2'	29:D1:1367:G:C8	2.29	0.67
29:D1:1376:C:O4'	29:D1:1407:A:C2	2.48	0.67
29:D1:1660:C:O2'	29:D1:1661:G:H8	1.78	0.67
29:D1:2310:U:OP1	74:D1:3582:OHX:N1	2.28	0.67
29:D1:2375:G:O2'	29:D1:2377:G:OP2	2.12	0.67
29:D1:2628:A:C6	29:D1:2629:U:C5	2.83	0.67
29:D1:2836:C:C2'	29:D1:2836:C:O2	2.43	0.67
29:D1:3320:A:C2'	29:D1:3321:C:C6	2.71	0.67
29:D1:3322:A:C6	29:D1:3386:G:N2	2.63	0.67
29:D1:430:U:O2'	29:D1:431:U:H5'	1.95	0.67
29:D1:515:C:C6	29:D1:515:C:P	2.88	0.67
29:D1:517:G:P	29:D1:517:G:H8	2.18	0.67
29:D1:892:U:H2'	29:D1:893:C:O4'	1.93	0.67
37:DF:156:LYS:O	37:DF:159:LEU:N	2.27	0.67
1:A1:228:G:O2'	1:A1:229:U:H6	1.75	0.67
1:C1:226:A:O2'	1:C1:227:U:H6	1.77	0.67
1:A1:647:G:N1	1:A1:687:G:N1	2.42	0.67
1:A1:647:G:N2	1:A1:648:G:N1	2.42	0.67
31:B3:67:U:H3'	31:B3:68:G:C8	2.29	0.67
30:D2:13:A:O5'	30:D2:13:A:N3	2.28	0.67
30:D2:11:A:N1	36:DE:15:ARG:O	2.28	0.67
1:C1:1199:G:C6	1:C1:1200:G:H1'	2.30	0.67
1:C1:1238:A:C2'	1:C1:1239:U:H5'	2.24	0.67
1:C1:1345:A:H2'	1:C1:1346:A:C8	2.28	0.67
1:A1:1159:C:H3'	1:A1:1160:A:H5'	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1426:C:O2'	1:A1:1427:A:H4'	1.95	0.67
1:A1:1584:G:N3	1:A1:1585:U:OP1	2.28	0.67
1:A1:1591:C:HO2'	1:A1:1592:A:C5'	2.07	0.67
29:D1:372:A:C6	29:D1:373:A:C6	2.83	0.67
29:B1:1267:U:H2'	29:B1:1268:G:C8	2.30	0.67
29:B1:3273:A:C6	29:B1:3274:A:C5	2.83	0.67
29:D1:1038:C:H2'	29:D1:1039:U:C6	2.30	0.67
9:AH:64:ALA:HA	9:AH:68:ALA:N	2.09	0.67
2:AA:146:LEU:HA	2:AA:160:ILE:CA	2.24	0.67
14:AM:60:SER:C	14:AM:62:ALA:N	2.48	0.67
29:D1:2123:G:O2'	29:D1:2124:G:H5'	1.95	0.67
29:B1:1724:U:H2'	29:B1:1725:C:C6	2.29	0.67
29:B1:2792:A:O2'	29:B1:2793:G:H5'	1.94	0.67
29:D1:2571:U:H3'	29:D1:2572:C:H6	1.60	0.67
34:DC:105:VAL:O	34:DC:107:ALA:N	2.26	0.67
29:B1:730:C:H2'	29:B1:731:U:H5'	1.77	0.67
1:A1:410:A:H2	1:A1:423:G:H22	1.42	0.67
45:DP:158:ALA:O	45:DP:159:LYS:C	2.34	0.67
8:AG:94:LYS:O	8:AG:98:VAL:CB	2.43	0.67
29:B1:495:G:C2'	29:B1:496:C:H5'	2.24	0.67
34:BC:85:VAL:O	34:BC:87:VAL:N	2.28	0.67
43:BN:126:GLN:O	43:BN:128:ARG:N	2.27	0.67
1:A1:1778:G:H2'	1:A1:1779:U:H5'	1.77	0.67
1:A1:436:A:H5''	1:A1:437:A:OP2	1.95	0.67
1:A1:510:G:H5''	1:A1:511:A:O5'	1.94	0.67
1:A1:518:A:H8	1:A1:519:C:C5'	2.08	0.67
29:B1:1413:G:C2	29:B1:1414:G:C8	2.82	0.67
29:B1:2222:A:O2'	29:B1:2223:A:H8	1.78	0.67
29:B1:2251:G:N3	29:B1:2252:A:C8	2.63	0.67
29:B1:2295:A:C5	29:B1:2296:A:N6	2.63	0.67
29:B1:2308:C:H2'	29:B1:2309:A:H8	1.59	0.67
29:B1:3058:U:HO2'	29:B1:3059:G:P	2.18	0.67
29:B1:314:U:H2'	29:B1:315:C:H6	1.58	0.67
29:B1:701:G:H2'	29:B1:702:C:H6	1.60	0.67
29:B1:727:G:N2	29:B1:741:U:N3	2.42	0.67
29:B1:811:U:C2	29:B1:812:G:C8	2.83	0.67
29:B1:952:A:H5'	29:B1:952:A:H8	1.60	0.67
1:C1:587:C:O5'	1:C1:587:C:H6	1.76	0.67
1:C1:959:U:H1'	1:C1:960:U:OP1	1.94	0.67
29:D1:1303:A:O2'	29:D1:1304:A:C8	2.47	0.67
29:D1:2414:G:H2'	29:D1:2415:C:O5'	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2616:C:C2'	29:D1:2617:U:H5'	2.23	0.67
29:D1:2903:A:C4	29:D1:2904:U:H6	2.13	0.67
29:D1:3091:A:O2'	29:D1:3092:C:P	2.52	0.67
29:D1:597:G:C2	29:D1:607:A:C2	2.83	0.67
29:D1:759:U:C4	29:D1:773:G:C6	2.83	0.67
29:D1:885:U:O2	29:D1:885:U:H2'	1.95	0.67
29:D1:887:G:H2'	29:D1:888:A:C8	2.30	0.67
31:D3:123:G:H3'	31:D3:124:G:H5''	1.77	0.67
31:D3:43:A:H2'	31:D3:44:A:C8	2.30	0.67
1:C1:825:U:C6	1:C1:847:A:N1	2.58	0.67
1:C1:1497:U:C4	1:C1:1498:G:N7	2.63	0.67
1:C1:1561:U:H2'	1:C1:1562:G:C8	2.30	0.67
29:D1:1184:A:H5'	29:D1:1184:A:H8	1.60	0.67
30:B2:92:A:C2'	30:B2:93:C:O4'	2.41	0.67
29:B1:3201:C:C2	29:B1:3202:G:N7	2.63	0.67
30:D2:27:A:H5'	30:D2:28:C:OP2	1.95	0.67
30:B2:46:A:O5'	30:B2:46:A:C4	2.48	0.67
29:D1:1422:G:H2'	29:D1:1423:C:H6	1.59	0.67
29:D1:392:G:C6	29:D1:393:U:H5	2.13	0.67
29:D1:3217:C:H5'	29:D1:3276:G:H22	1.58	0.67
29:D1:3280:U:C2	29:D1:3281:U:H5	2.13	0.67
29:B1:2554:A:C2	33:BB:84:THR:O	2.48	0.67
20:CS:37:ASN:O	74:CS:101:OHX:N6	2.28	0.67
29:D1:1912:U:O2'	29:D1:1913:A:C8	2.47	0.67
29:D1:1915:A:H2'	29:D1:1916:U:H6	1.58	0.67
43:BN:49:PRO:O	43:BN:53:VAL:N	2.27	0.67
29:B1:1703:U:H5'	29:B1:1704:A:OP2	1.95	0.67
29:B1:1018:G:H2'	29:B1:1019:G:H8	1.59	0.67
19:CR:28:VAL:CB	19:CR:35:ASP:H	2.07	0.67
43:DN:24:LYS:HA	43:DN:31:LYS:C	2.16	0.67
54:DY:131:SER:CB	54:DY:134:ALA:HB2	2.23	0.67
29:D1:102:C:C1'	29:D1:103:G:OP1	2.43	0.67
42:BK:153:LYS:O	42:BK:155:THR:N	2.28	0.67
43:BN:82:SER:O	43:BN:85:TRP:N	2.28	0.67
29:B1:2741:C:O3'	37:BF:19:LYS:HA	77.24	0.67
17:CP:135:LEU:HA	17:CP:139:LYS:HA	1.77	0.67
1:C1:1188:G:H2'	1:C1:1189:A:H8	1.59	0.67
49:BT:79:MET:CB	49:BT:84:TYR:O	2.43	0.67
19:AR:28:VAL:CB	19:AR:35:ASP:H	2.08	0.67
1:A1:1047:G:O6	1:A1:1071:U:O4	2.13	0.67
1:A1:553:G:C6	1:A1:554:C:N3	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:162:CYS:H	3:AB:209:ASN:CB	2.08	0.67
29:B1:1107:C:C2	29:B1:1108:U:C5	2.83	0.67
29:B1:1170:A:OP2	74:B1:3537:OHX:N5	2.28	0.67
29:B1:1143:A:H1'	29:B1:1368:U:C5	2.29	0.67
29:B1:1481:A:C8	29:B1:1859:A:N7	2.63	0.67
29:B1:1517:G:H2'	29:B1:1518:U:C6	2.30	0.67
29:B1:1656:A:H1'	29:B1:1657:C:C5	2.30	0.67
29:B1:1851:G:C5	29:B1:1852:G:N7	2.63	0.67
29:B1:2306:C:C6	29:B1:2306:C:H3'	2.25	0.67
29:B1:3090:U:O2'	29:B1:3091:A:P	2.53	0.67
29:B1:761:A:N1	29:B1:762:U:H1'	2.09	0.67
31:B3:14:C:H3'	31:B3:15:G:H8	1.60	0.67
29:B1:402:A:H61	46:BQ:21:TYR:CB	2.08	0.67
1:C1:1138:A:O2'	1:C1:1139:A:H5'	1.95	0.67
1:C1:975:C:H2'	1:C1:976:G:H8	1.59	0.67
29:D1:1105:A:H2'	29:D1:1106:G:H8	1.60	0.67
29:D1:1471:U:C2	29:D1:1472:U:C5	2.83	0.67
29:D1:1481:A:C8	29:D1:1859:A:N7	2.63	0.67
29:D1:2186:U:H2'	29:D1:2187:G:C8	2.29	0.67
29:D1:2654:C:H5'	29:D1:2657:A:C6	2.30	0.67
29:D1:2655:U:H4'	29:D1:2656:A:H5'	1.75	0.67
29:D1:2725:U:C5	29:D1:2727:A:O2'	2.45	0.67
29:D1:2223:A:N1	29:D1:2783:U:H1'	2.09	0.67
29:D1:2888:U:C4	29:D1:2910:A:C2	2.82	0.67
29:D1:3099:C:C5'	29:D1:3099:C:H6	2.08	0.67
29:D1:3323:A:C6	29:D1:3324:C:C5	2.83	0.67
29:D1:361:A:O2'	29:D1:362:U:O4'	2.12	0.67
29:D1:516:A:H4'	29:D1:517:G:OP1	1.94	0.67
29:D1:560:G:H2'	29:D1:561:C:C5	2.29	0.67
29:D1:910:G:C4	29:D1:911:C:C6	2.83	0.67
31:D3:140:G:C6	31:D3:141:C:N3	2.63	0.67
31:D3:19:C:C5	31:D3:20:U:C5	2.81	0.67
1:C1:844:A:H2'	1:C1:845:G:C8	2.28	0.67
29:B1:2640:A:H2'	29:B1:2641:U:C6	2.29	0.67
29:B1:2727:A:C2	29:B1:2728:G:C6	2.83	0.67
30:B2:9:C:O2'	30:B2:13:A:N6	2.28	0.67
1:A1:162:A:H2'	1:A1:163:G:C8	2.30	0.67
1:A1:274:G:H2'	1:A1:275:C:H6	1.60	0.67
1:A1:243:G:N2	1:A1:251:A:N3	2.41	0.67
1:C1:1198:G:C3'	1:C1:1199:G:H5'	2.24	0.67
1:C1:1496:U:H4'	1:C1:1519:U:O2'	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1466:G:C4	1:A1:1467:C:C5	2.83	0.67
1:A1:1475:A:C5	1:A1:1476:C:C5	2.83	0.67
1:C1:1049:U:H2'	1:C1:1050:G:C8	2.30	0.67
29:B1:3208:G:H2'	29:B1:3208:G:N3	2.10	0.67
29:D1:200:C:H4'	29:D1:201:A:OP2	1.94	0.67
30:B2:22:A:C6	30:B2:23:A:C6	2.81	0.67
36:BE:96:ALA:O	36:BE:100:ALA:N	2.25	0.67
29:D1:1627:U:OP1	29:D1:1627:U:H4'	1.95	0.67
29:D1:1627:U:H3'	29:D1:1628:C:O4'	1.94	0.67
1:C1:1310:U:H6	1:C1:1310:U:O5'	1.79	0.67
1:C1:1330:G:H2'	1:C1:1331:A:C8	2.30	0.67
29:D1:3142:A:O3'	29:D1:3144:G:H8	1.78	0.67
1:A1:1651:A:C2	1:A1:1652:C:C5	2.82	0.67
29:B1:1635:G:OP2	29:B1:1635:G:H2'	1.95	0.67
29:D1:3072:C:C5	29:D1:3073:A:C8	2.83	0.67
43:DN:73:PRO:O	43:DN:75:GLY:N	2.28	0.67
34:DC:294:GLY:O	34:DC:305:ILE:N	2.28	0.67
29:D1:355:A:C2	29:D1:365:A:C4	2.83	0.67
14:CM:128:GLY:C	14:CM:130:ARG:H	1.97	0.67
1:C1:710:U:N3	1:C1:729:G:C6	2.63	0.67
38:DG:237:ASN:O	38:DG:240:VAL:N	2.27	0.67
29:B1:908:G:C8	29:B1:925:A:C2	2.83	0.67
47:DR:110:ALA:O	47:DR:112:ALA:N	2.27	0.67
38:DG:201:PHE:O	38:DG:202:LEU:CB	2.43	0.67
42:BK:65:ILE:O	42:BK:66:ALA:HB2	1.95	0.67
39:DH:247:ASP:O	39:DH:249:ARG:N	2.28	0.67
1:A1:1007:C:C2'	1:A1:1007:C:O2	2.40	0.66
29:B1:1140:G:H2'	29:B1:1141:C:H6	1.59	0.66
29:B1:1153:A:N7	29:B1:1154:A:C4	2.64	0.66
29:B1:1211:U:H2'	29:B1:1212:A:C8	2.28	0.66
29:B1:1376:C:N3	29:B1:1377:G:N7	2.44	0.66
29:B1:1901:A:O3'	29:B1:2918:G:C5'	2.38	0.66
29:B1:2226:U:HO2'	29:B1:2227:C:H6	1.43	0.66
29:B1:2280:A:C6	29:B1:2282:U:C5	2.83	0.66
29:B1:2815:G:O2'	29:B1:2817:A:H2'	1.95	0.66
29:B1:2836:C:H5	29:B1:2853:A:N1	1.93	0.66
29:B1:3057:U:O2'	29:B1:3058:U:H4'	1.94	0.66
29:B1:517:G:P	29:B1:517:G:H8	2.18	0.66
29:B1:691:A:H4'	29:B1:692:A:OP2	1.94	0.66
29:B1:750:G:H5''	29:B1:751:A:OP2	1.94	0.66
29:B1:891:G:C2'	29:B1:892:U:O5'	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BG:68:ASP:O	38:BG:71:ALA:HB3	1.95	0.66
1:C1:1134:C:O2'	1:C1:1135:U:H5'	1.95	0.66
1:C1:469:C:OP1	1:C1:469:C:C2	2.48	0.66
1:C1:550:A:H5''	1:C1:551:G:OP1	1.95	0.66
1:C1:61:A:H4'	1:C1:62:A:H3'	1.76	0.66
29:D1:1145:G:C5	29:D1:1146:C:C5	2.83	0.66
29:D1:115:A:C8	29:D1:116:A:C2	2.84	0.66
29:D1:1507:G:OP2	29:D1:1507:G:C8	2.47	0.66
29:D1:1594:A:H1'	29:D1:1615:C:H1'	1.78	0.66
29:D1:2419:A:N6	29:D1:2804:A:N6	2.43	0.66
29:D1:281:G:C2	29:D1:282:G:N7	2.63	0.66
29:D1:3021:A:C4	29:D1:3023:U:O4	2.48	0.66
29:D1:3363:U:H5''	29:D1:3364:C:OP2	1.94	0.66
29:D1:54:C:O2'	29:D1:55:G:H5'	1.96	0.66
1:A1:725:U:O2	1:A1:725:U:H2'	1.95	0.66
1:A1:824:G:O3'	1:A1:825:U:O2	2.12	0.66
1:C1:228:G:C5	1:C1:229:U:C4	2.82	0.66
1:C1:743:U:O4	1:C1:809:A:C2	2.47	0.66
1:C1:1720:G:C5	1:C1:1721:A:C4	2.83	0.66
1:C1:1560:U:O2	1:C1:1561:U:C5	2.48	0.66
1:C1:1583:A:N3	1:C1:1585:U:C4	2.63	0.66
1:A1:1478:G:H2'	1:A1:1479:A:O4'	1.95	0.66
1:A1:1570:A:H3'	1:A1:1571:C:C6	2.30	0.66
30:B2:49:G:N9	30:B2:49:G:OP2	2.27	0.66
1:A1:884:A:H2'	1:A1:885:G:C8	2.30	0.66
47:DR:98:LYS:CA	47:DR:117:ALA:HB1	2.24	0.66
34:BC:51:ALA:CB	34:BC:79:VAL:HA	2.24	0.66
29:B1:1468:A:O2'	29:B1:1469:C:P	2.52	0.66
35:BD:12:THR:CB	35:BD:13:GLY:CA	2.73	0.66
1:C1:1123:C:H2'	1:C1:1124:A:O5'	1.94	0.66
29:B1:2909:U:C4	29:B1:2910:A:N7	2.63	0.66
1:C1:1773:C:H5''	1:C1:1774:G:OP2	1.95	0.66
3:CB:177:GLY:O	3:CB:195:ASP:HA	1.95	0.66
45:DP:187:GLU:O	45:DP:189:ASP:N	2.28	0.66
32:DA:154:THR:C	32:DA:157:PHE:H	1.97	0.66
1:A1:1622:G:H3'	1:A1:1623:C:H6	1.59	0.66
1:A1:926:A:H2'	1:A1:927:C:H5'	1.77	0.66
39:BH:93:LEU:O	39:BH:94:PHE:C	2.33	0.66
47:DR:83:VAL:O	47:DR:103:ALA:HB3	1.95	0.66
6:CE:55:ALA:O	6:CE:58:ASP:N	2.28	0.66
1:A1:1041:G:O2'	1:A1:1042:G:H5'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1761:U:H1'	1:A1:1762:A:N7	2.10	0.66
1:A1:25:C:C6	1:A1:25:C:H3'	2.29	0.66
1:A1:400:A:H4'	1:A1:401:A:O5'	1.94	0.66
1:A1:610:G:N2	1:A1:614:C:N3	2.44	0.66
29:B1:1303:A:N1	29:B1:2887:A:C6	2.63	0.66
29:B1:1660:C:O2'	29:B1:1661:G:H8	1.79	0.66
29:B1:2249:G:O4'	29:B1:2272:G:H8	1.76	0.66
29:B1:2279:A:C8	29:B1:2288:G:C6	2.83	0.66
29:B1:157:A:N1	29:B1:266:A:H2	1.93	0.66
29:B1:308:A:H2	29:B1:2782:U:C2	2.14	0.66
29:B1:3099:C:H5'	29:B1:3099:C:H6	1.60	0.66
29:B1:3325:G:H1	29:B1:3380:U:H3	1.41	0.66
29:B1:514:G:H2'	29:B1:515:C:C6	2.31	0.66
29:B1:556:U:C2'	29:B1:557:A:O4'	2.43	0.66
29:B1:952:A:C2'	29:B1:953:G:H5''	2.13	0.66
1:C1:1138:A:C6	1:C1:1139:A:N6	2.63	0.66
1:C1:170:U:P	1:C1:267:U:HO2'	2.14	0.66
1:C1:1727:G:C6	1:C1:1728:A:N6	2.64	0.66
1:C1:1765:A:OP2	74:C1:1983:OHX:N2	2.28	0.66
1:C1:357:G:C5	1:C1:358:U:C4	2.83	0.66
1:C1:450:U:H2'	1:C1:451:A:H8	1.58	0.66
1:C1:556:A:O3'	1:C1:558:U:OP2	2.12	0.66
1:C1:55:A:O2'	1:C1:56:U:O5'	2.11	0.66
1:C1:63:G:C6	1:C1:88:U:O2	2.48	0.66
1:C1:985:G:H2'	1:C1:986:G:H8	1.61	0.66
29:D1:996:A:C6	29:D1:1054:A:C8	2.83	0.66
29:D1:1129:A:C2'	29:D1:1130:A:H5'	2.24	0.66
29:D1:2269:U:C6	29:D1:2272:G:O6	2.49	0.66
29:D1:2614:G:C4	29:D1:2797:C:C5	2.83	0.66
29:D1:2750:U:O2'	29:D1:2751:G:H5'	1.95	0.66
29:D1:2903:A:C5	29:D1:2904:U:H6	2.13	0.66
29:D1:3035:A:C4	29:D1:3036:G:C8	2.83	0.66
29:D1:3160:U:H2'	29:D1:3161:C:C6	2.30	0.66
29:D1:1941:C:O2'	29:D1:3363:U:O2	2.10	0.66
29:D1:3377:G:N3	29:D1:3379:C:OP2	2.28	0.66
29:D1:518:G:H22	29:D1:572:A:N6	1.92	0.66
29:D1:637:C:O2'	29:D1:638:C:H6	1.72	0.66
29:D1:953:G:C8	29:D1:953:G:C3'	2.79	0.66
38:DG:80:GLN:CA	38:DG:81:HIS:CB	2.73	0.66
1:C1:217:A:H1'	1:C1:218:A:OP2	1.94	0.66
1:C1:650:U:C4	1:C1:684:A:N6	2.63	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2649:A:C1'	29:B1:2696:A:H1'	2.26	0.66
30:B2:59:U:H2'	30:B2:60:G:H8	1.58	0.66
30:B2:73:C:H42	30:B2:74:C:H41	1.44	0.66
31:B3:72:A:H61	31:B3:85:G:H5''	1.59	0.66
1:C1:330:G:H2'	1:C1:331:A:H8	1.58	0.66
29:B1:2684:C:O2'	29:B1:2685:C:O4'	2.11	0.66
1:A1:1685:G:H22	1:A1:1718:G:N2	1.92	0.66
1:C1:1166:A:H5''	1:C1:1167:G:OP2	1.94	0.66
1:C1:1364:G:C2'	1:C1:1365:C:H5'	2.25	0.66
1:C1:1511:U:H2'	1:C1:1512:G:C8	2.30	0.66
1:A1:1255:G:OP2	1:A1:1255:G:O4'	2.12	0.66
1:A1:1515:A:H8	15:AN:58:LEU:CB	2.08	0.66
29:D1:1324:U:C6	29:D1:1324:U:C5'	2.78	0.66
29:B1:380:U:C2	29:B1:381:U:C5	2.83	0.66
29:B1:3171:U:O2'	29:B1:3172:A:P	2.53	0.66
29:B1:3381:U:H2'	29:B1:3383:G:N9	2.10	0.66
29:B1:349:A:H2	31:B3:24:G:C8	2.13	0.66
34:DC:118:PHE:CA	34:DC:119:TYR:CB	2.73	0.66
1:A1:946:U:H2'	1:A1:946:U:O2	1.95	0.66
29:D1:3139:A:H2'	29:D1:3140:G:C8	2.30	0.66
29:D1:2593:A:H4'	29:D1:2594:C:C5'	2.25	0.66
29:B1:1631:C:H5'	29:B1:1813:A:C2	2.30	0.66
20:CS:38:ILE:C	20:CS:40:ARG:N	2.47	0.66
29:D1:2872:A:H4'	29:D1:2873:U:OP1	1.95	0.66
29:D1:1351:U:O2	29:D1:1351:U:H2'	1.93	0.66
29:D1:1352:A:H3'	29:D1:1353:U:H4'	1.77	0.66
29:B1:1347:U:H4'	29:B1:1348:U:OP2	1.93	0.66
34:DC:295:ALA:N	34:DC:305:ILE:H	1.92	0.66
29:B1:1024:G:H2'	29:B1:1025:A:H5'	1.78	0.66
29:D1:1018:G:H2'	29:D1:1019:G:H8	1.60	0.66
45:DP:190:VAL:C	45:DP:192:LYS:H	1.98	0.66
29:D1:2571:U:H2'	29:D1:2571:U:O2	1.94	0.66
3:AB:238:SER:O	3:AB:240:LEU:N	2.28	0.66
1:C1:1501:C:C2'	1:C1:1502:G:H5'	2.25	0.66
4:AC:175:VAL:CB	4:AC:183:GLY:H	2.08	0.66
49:BT:100:LYS:C	49:BT:102:ARG:H	1.96	0.66
40:BI:161:LEU:O	40:BI:163:GLN:N	2.28	0.66
34:BC:133:TYR:C	34:BC:135:ALA:H	1.97	0.66
49:DT:75:ILE:O	49:DT:76:ILE:CB	2.43	0.66
29:B1:1164:G:H2'	29:B1:1165:A:H8	1.60	0.66
29:B1:1399:A:N1	31:B3:8:C:O4'	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:943:U:N1	29:B1:1432:C:C5	2.63	0.66
29:B1:2144:A:N3	29:B1:2281:A:C6	2.63	0.66
29:B1:2750:U:C2'	29:B1:2751:G:H5'	2.25	0.66
29:B1:1901:A:C5'	29:B1:2919:A:OP1	2.42	0.66
29:B1:420:G:H21	29:B1:2384:A:C3'	2.07	0.66
29:B1:597:G:C2	29:B1:598:A:C4	2.83	0.66
29:B1:686:G:H2'	29:B1:687:U:O4'	1.95	0.66
1:C1:162:A:C3'	1:C1:163:G:C8	2.76	0.66
1:C1:298:C:C6	1:C1:298:C:H3'	2.30	0.66
1:C1:402:C:N4	1:C1:424:C:OP2	2.28	0.66
29:D1:1172:G:O2'	29:D1:1173:U:H5'	1.95	0.66
29:D1:1503:A:H5''	29:D1:1503:A:C8	2.30	0.66
29:D1:2278:C:C2'	29:D1:2279:A:H5''	2.25	0.66
29:D1:2144:A:N3	29:D1:2281:A:C6	2.64	0.66
29:D1:269:G:C6	29:D1:294:U:H5	2.14	0.66
29:D1:2985:C:H2'	29:D1:2986:U:H6	1.60	0.66
29:D1:315:C:H2'	29:D1:316:U:C6	2.29	0.66
29:D1:3324:C:H2'	29:D1:3325:G:C8	2.23	0.66
29:D1:49:A:N1	29:D1:279:U:H4'	2.10	0.66
29:D1:596:C:H3'	29:D1:597:G:C5'	2.26	0.66
29:D1:637:C:N1	29:D1:638:C:C5	2.64	0.66
29:D1:914:A:H4'	29:D1:915:A:H5'	1.77	0.66
37:DF:150:LYS:O	37:DF:152:THR:N	2.29	0.66
1:A1:224:C:C2'	1:A1:225:A:H8	2.09	0.66
1:A1:827:C:C2	1:A1:846:G:C6	2.82	0.66
29:B1:2702:A:C4'	29:B1:2704:A:C8	2.79	0.66
41:DJ:175:ASN:CB	41:DJ:176:LEU:HA	2.25	0.66
1:A1:289:U:OP1	1:A1:453:U:OP2	2.13	0.66
29:D1:2672:G:H4'	42:DK:104:PHE:O	1.95	0.66
29:B1:2682:C:OP1	42:BK:50:ALA:N	2.29	0.66
1:C1:1227:A:C8	1:C1:1229:G:H5'	2.30	0.66
1:C1:1466:G:C6	1:C1:1467:C:C4	2.84	0.66
1:C1:1584:G:C2	1:C1:1585:U:OP1	2.49	0.66
1:C1:1603:U:O2	1:C1:1603:U:H2'	1.94	0.66
1:A1:1511:U:H2'	1:A1:1512:G:C8	2.30	0.66
30:B2:91:G:C6	30:B2:92:A:C6	2.83	0.66
30:B2:87:G:N2	30:B2:95:A:C4	2.63	0.66
29:D1:196:G:N2	29:D1:219:A:H62	1.92	0.66
29:B1:1230:G:H3'	29:B1:1231:A:C8	2.31	0.66
29:D1:72:C:H3'	29:D1:73:C:H5'	1.75	0.66
1:A1:1280:C:H4'	15:AN:70:THR:CB	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:93:VAL:O	34:DC:99:LEU:HA	1.95	0.66
1:A1:718:U:H5	1:A1:722:G:C5	2.13	0.66
1:A1:720:G:H1'	1:A1:721:U:O5'	1.94	0.66
5:AD:204:GLY:C	5:AD:206:SER:H	1.97	0.66
5:CD:160:VAL:CB	19:CR:51:ASN:HA	2.25	0.66
29:D1:2880:U:O2	34:DC:250:ALA:HB3	1.95	0.66
3:AB:177:GLY:O	3:AB:195:ASP:HA	1.96	0.66
1:A1:135:A:H4'	1:A1:135:A:OP1	1.94	0.66
29:D1:1815:U:H3'	29:D1:1816:A:H5'	1.75	0.66
48:BS:127:SER:O	48:BS:129:GLY:N	2.29	0.66
49:DT:78:LYS:O	49:DT:79:MET:CB	2.43	0.66
29:D1:1123:U:H2'	29:D1:1124:U:O4'	1.95	0.66
1:A1:1287:A:N3	1:A1:1288:G:H1'	2.10	0.66
8:CG:94:LYS:O	8:CG:98:VAL:CB	2.43	0.66
29:B1:2694:A:H2'	29:B1:2695:A:H1'	1.77	0.66
3:CB:59:HIS:CB	3:CB:61:LEU:H	2.07	0.66
10:CI:97:TYR:HA	10:CI:102:PHE:H	1.58	0.66
36:DE:40:HIS:HA	36:DE:41:LYS:O	1.94	0.66
1:A1:395:U:O4	1:A1:396:G:C6	2.48	0.66
1:A1:489:C:H2'	1:A1:490:C:C5	2.30	0.66
1:A1:491:C:H2'	1:A1:492:A:C8	2.30	0.66
29:B1:1302:A:C4	29:B1:2887:A:N1	2.63	0.66
29:B1:1399:A:H2'	29:B1:1399:A:N3	2.09	0.66
29:B1:2254:U:H2'	29:B1:2261:G:H1	1.60	0.66
29:B1:284:A:N6	29:B1:2785:A:O4'	2.28	0.66
29:B1:2987:A:C4	29:B1:2988:C:C5	2.83	0.66
29:B1:3071:U:O2'	29:B1:3072:C:C5'	2.44	0.66
29:B1:3119:U:H2'	29:B1:3120:C:H5'	1.76	0.66
29:B1:3333:G:N2	29:B1:3371:G:H8	1.94	0.66
29:B1:3322:A:C6	29:B1:3386:G:N2	2.63	0.66
29:B1:347:G:C2	29:B1:353:G:C5	2.83	0.66
29:B1:776:U:H3'	29:B1:777:U:C4'	2.24	0.66
29:B1:826:G:OP1	29:B1:1590:G:O2'	2.13	0.66
29:B1:2394:G:H21	34:BC:258:ALA:HA	1.61	0.66
74:B1:3537:OHX:N4	38:BG:217:PRO:O	2.28	0.66
1:C1:1073:G:C6	1:C1:1074:G:C5	2.83	0.66
1:C1:1635:A:H8	1:C1:1635:A:O5'	1.78	0.66
1:C1:1670:G:N2	1:C1:1732:A:N6	2.43	0.66
1:C1:551:G:C2	1:C1:552:G:C5	2.84	0.66
1:C1:765:G:H4'	1:C1:766:U:OP1	1.94	0.66
29:D1:1194:G:C8	29:D1:1319:G:C4'	2.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1522:U:C5	29:D1:1835:A:H1'	2.31	0.66
29:D1:299:G:C6	29:D1:300:G:C5	2.83	0.66
29:D1:285:A:C2	29:D1:304:G:O3'	2.47	0.66
29:D1:285:A:N1	29:D1:305:U:O5'	2.28	0.66
29:D1:3149:G:H2'	29:D1:3150:A:O4'	1.96	0.66
29:D1:422:A:H4'	29:D1:423:A:OP2	1.94	0.66
29:D1:677:A:H4'	29:D1:678:G:O5'	1.95	0.66
35:DD:12:THR:CB	35:DD:13:GLY:CA	2.73	0.66
37:DF:165:LEU:O	37:DF:166:LYS:C	2.33	0.66
29:D1:943:U:C3'	54:DY:10:LYS:HA	2.21	0.66
1:A1:688:G:H2'	1:A1:689:G:H8	1.58	0.66
30:D2:69:C:H1'	30:D2:110:G:H22	1.60	0.66
30:D2:75:G:P	74:D2:201:OHX:N4	2.69	0.66
29:B1:2673:A:N1	29:B1:2676:A:C8	2.63	0.66
1:A1:751:G:O2'	1:A1:752:A:H5'	1.96	0.66
1:C1:1368:G:H5'	14:CM:70:GLN:CB	2.25	0.66
1:C1:1174:C:C2	1:C1:1466:G:C2	2.83	0.66
1:C1:1170:G:N2	1:C1:1571:C:H4'	2.10	0.66
1:C1:1592:A:C4	1:C1:1605:G:N2	2.63	0.66
1:A1:1379:C:C3'	1:A1:1380:U:H5'	2.24	0.66
37:BF:43:LEU:O	37:BF:45:GLY:N	2.28	0.66
29:B1:3182:G:O2'	29:B1:3183:A:H5'	1.96	0.66
29:D1:3201:C:HO2'	29:D1:3202:G:H5'	1.60	0.66
29:D1:213:A:H61	29:D1:227:G:H2'	1.60	0.66
29:D1:3219:G:C5	29:D1:3257:C:H3'	2.31	0.66
29:D1:1269:U:H3	29:D1:1272:C:N4	1.93	0.66
1:C1:1416:G:C5	1:C1:1417:A:C8	2.83	0.66
29:B1:1715:A:C3'	29:B1:1716:U:H5''	2.23	0.66
47:BR:117:ALA:CB	47:BR:118:GLY:HA2	2.22	0.66
74:A1:1913:OHX:N5	74:A1:1986:OHX:N3	2.43	0.66
29:D1:2443:A:H2'	29:D1:2444:C:C6	2.31	0.66
53:BX:36:SER:O	53:BX:40:ARG:N	2.21	0.66
47:DR:37:ALA:O	47:DR:39:ARG:N	2.28	0.66
74:A1:1951:OHX:N3	74:A1:1991:OHX:N4	2.43	0.66
42:DK:121:GLY:C	42:DK:123:PHE:H	1.97	0.66
1:A1:624:G:H1'	1:A1:1027:A:N3	2.11	0.66
1:A1:1087:A:H5''	1:A1:1088:A:OP2	1.95	0.66
1:A1:1099:U:C5	1:A1:1100:G:C6	2.82	0.66
1:A1:1140:G:C2	1:A1:1141:G:C8	2.84	0.66
1:A1:1631:A:C6	1:A1:1632:C:O2	2.49	0.66
1:A1:1761:U:O2'	1:A1:1762:A:OP2	2.12	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:446:A:C4	1:A1:447:U:C5	2.84	0.66
1:A1:539:G:N3	1:A1:543:C:N3	2.44	0.66
1:A1:635:A:H2'	1:A1:636:A:C8	2.30	0.66
1:A1:969:C:H4'	1:A1:1104:U:O2'	1.96	0.66
29:B1:1156:C:C2'	29:B1:1157:G:H5''	2.26	0.66
29:B1:156:G:H1'	29:B1:157:A:H4'	1.78	0.66
29:B1:2255:A:C6	74:B1:3438:OHX:N6	2.62	0.66
29:B1:2395:G:H2'	29:B1:2396:G:C5'	2.24	0.66
29:B1:3102:G:H5'	29:B1:3102:G:C8	2.29	0.66
29:B1:405:U:H5	29:B1:406:G:N7	1.92	0.66
29:B1:408:A:C2	29:B1:409:A:C2	2.84	0.66
29:B1:597:G:C2	29:B1:607:A:H2	2.12	0.66
1:C1:977:A:C6	1:C1:1025:A:C4	2.83	0.66
1:C1:365:G:C2'	1:C1:366:A:O5'	2.44	0.66
1:C1:48:G:C5	1:C1:432:G:N2	2.63	0.66
1:C1:57:G:C5	1:C1:58:U:H5	2.13	0.66
29:D1:1799:A:C2	29:D1:1800:A:C2	2.83	0.66
29:D1:2912:G:O4'	29:D1:3131:U:H5'	1.96	0.66
29:D1:3387:U:H2'	29:D1:3388:C:H5	1.57	0.66
29:D1:514:G:O3'	29:D1:515:C:C6	2.49	0.66
29:D1:523:A:C4	29:D1:524:U:C6	2.83	0.66
29:D1:585:A:C3'	29:D1:586:C:C6	2.76	0.66
29:D1:716:A:N3	29:D1:716:A:OP2	2.28	0.66
29:D1:726:G:N1	29:D1:727:G:O6	2.29	0.66
29:D1:736:A:C8	29:D1:737:G:N7	2.63	0.66
35:DD:100:PHE:O	35:DD:102:PRO:N	2.29	0.66
1:A1:217:A:H1'	1:A1:218:A:OP2	1.95	0.66
30:D2:14:U:H2'	30:D2:15:C:O5'	1.95	0.66
30:D2:64:A:H4'	30:D2:65:G:O5'	1.95	0.66
1:C1:1691:A:C6	1:C1:1713:G:C2	2.83	0.66
1:C1:329:G:N3	1:C1:330:G:C8	2.63	0.66
1:A1:1431:C:C4'	1:A1:1432:U:H5'	2.24	0.66
1:A1:1521:G:H5'	1:A1:1523:G:P	2.36	0.66
1:A1:1566:U:C2'	1:A1:1567:U:H5''	2.24	0.66
29:B1:437:G:C6	29:B1:438:A:C6	2.84	0.66
29:B1:3218:A:C4'	29:B1:3220:G:H8	2.09	0.66
29:B1:3277:U:OP2	29:B1:3277:U:C6	2.48	0.66
30:B2:27:A:H1'	30:B2:57:G:N2	2.10	0.66
31:B3:129:C:C2	31:B3:130:C:C5	2.83	0.66
44:BO:187:ARG:CB	44:BO:188:ARG:CB	2.73	0.66
30:D2:91:G:N3	30:D2:92:A:C8	2.64	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:121:U:HO3'	36:BE:266:ALA:HB3	1.61	0.66
29:D1:7:C:C3'	29:D1:7:C:O2	2.42	0.66
29:D1:836:A:C2	29:D1:858:A:H1'	2.30	0.66
29:D1:2942:C:C6	29:D1:2942:C:C3'	2.79	0.66
29:D1:3179:U:H6	29:D1:3179:U:O5'	1.79	0.66
14:AM:57:ARG:O	14:AM:58:ALA:HB2	1.95	0.66
1:C1:135:A:H4'	1:C1:135:A:OP1	1.94	0.66
29:D1:2556:C:O2	29:D1:2556:C:H2'	1.94	0.66
45:DP:21:SER:O	45:DP:22:VAL:C	2.34	0.66
29:B1:789:A:O2'	29:B1:790:U:H5'	1.95	0.66
72:DL:138:SER:C	72:DL:140:GLY:H	1.97	0.66
29:D1:439:C:O2	29:D1:439:C:H2'	1.95	0.66
29:D1:177:U:H2'	29:D1:177:U:O2	1.95	0.66
48:DS:23:TRP:O	48:DS:50:ILE:HA	1.96	0.66
14:CM:101:ASN:O	14:CM:103:LYS:N	2.28	0.66
1:A1:100:A:OP2	1:A1:101:U:OP2	2.13	0.66
1:A1:1147:A:H2'	1:A1:1148:C:H6	1.61	0.66
1:A1:1632:C:C2	1:A1:1633:A:N7	2.63	0.66
1:A1:1756:A:O5'	1:A1:1756:A:C8	2.41	0.66
1:A1:385:A:C8	1:A1:385:A:OP2	2.49	0.66
1:A1:518:A:C8	1:A1:519:C:H5''	2.30	0.66
1:A1:557:G:C2'	1:A1:558:U:H4'	2.26	0.66
29:B1:1478:C:H6	29:B1:1478:C:C5'	2.09	0.66
29:B1:158:G:C5	29:B1:159:A:H1'	2.31	0.66
29:B1:2714:G:N2	29:B1:2751:G:C6	2.64	0.66
29:B1:3320:A:H2'	29:B1:3321:C:N1	2.11	0.66
29:B1:724:U:H2'	29:B1:725:G:H8	1.59	0.66
29:B1:759:U:N3	29:B1:773:G:C6	2.64	0.66
29:B1:807:A:H3'	29:B1:807:A:C8	2.31	0.66
29:B1:818:C:C2'	29:B1:819:U:H5'	2.25	0.66
29:B1:85:A:H4'	29:B1:86:G:OP1	1.95	0.66
29:B1:938:C:C2'	29:B1:939:U:H5''	2.25	0.66
31:B3:8:C:H2'	31:B3:9:A:C8	2.27	0.66
1:C1:105:A:C2	74:C1:1916:OHX:N3	2.64	0.66
1:C1:139:C:H4'	1:C1:140:A:H4'	1.77	0.66
1:C1:1642:G:H2'	1:C1:1781:A:O2'	1.96	0.66
1:C1:588:U:H2'	1:C1:589:C:H6	1.61	0.66
29:D1:1054:A:OP1	74:D1:3591:OHX:N4	2.28	0.66
29:D1:1127:G:N2	29:D1:1132:C:N4	2.44	0.66
29:D1:1444:G:H2'	29:D1:1445:U:O5'	1.96	0.66
29:D1:18:G:N2	31:D3:142:C:C2	2.64	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:43:A:C6	29:D1:2802:A:H2	2.13	0.66
29:D1:2985:C:H2'	29:D1:2986:U:C6	2.31	0.66
29:D1:31:C:H2'	29:D1:32:U:H5'	1.77	0.66
29:D1:3308:C:C5	29:D1:3309:G:C2	2.81	0.66
29:D1:331:G:C6	31:D3:33:A:N1	2.64	0.66
29:D1:383:G:C3'	29:D1:385:A:OP2	2.44	0.66
29:D1:430:U:H2'	29:D1:431:U:H6	1.59	0.66
29:D1:736:A:H2'	29:D1:737:G:C8	2.30	0.66
35:DD:10:SER:HA	35:DD:17:ALA:H	1.61	0.66
1:A1:824:G:H5''	1:A1:825:U:H5'	1.76	0.66
29:B1:1047:A:O2'	29:B1:1048:A:H5'	1.95	0.66
29:B1:965:A:C6	29:B1:966:U:C2	2.83	0.66
1:A1:140:A:OP2	1:A1:140:A:H4'	1.95	0.66
30:D2:11:A:H1'	30:D2:67:G:N2	2.06	0.66
1:A1:322:G:O4'	1:A1:323:A:H8	1.79	0.66
1:C1:1507:G:C2	1:C1:1508:U:H1'	2.29	0.66
1:C1:1583:A:C2	1:C1:1585:U:C4	2.83	0.66
1:A1:1351:G:C4	1:A1:1352:G:C8	2.83	0.66
1:A1:1454:G:C2'	1:A1:1455:G:H5'	2.25	0.66
1:A1:1457:C:C6	1:A1:1559:A:N6	2.61	0.66
74:A1:1935:OHX:N1	74:A1:1959:OHX:N4	2.44	0.66
29:B1:2596:U:H2'	29:B1:2597:U:H6	1.60	0.66
29:B1:846:A:C4	29:B1:847:A:C8	2.83	0.66
29:D1:2596:U:H2'	29:D1:2597:U:C6	2.30	0.66
29:D1:2592:G:C6	74:D1:3463:OHX:N3	2.64	0.66
29:D1:3070:A:C5	29:D1:3071:U:C5	2.84	0.66
1:C1:374:U:C4	1:C1:375:U:C5	2.84	0.66
29:B1:1422:G:H2'	29:B1:1423:C:H6	1.60	0.66
29:B1:1183:C:C2'	29:B1:1184:A:H5''	2.25	0.66
34:BC:193:ASP:C	34:BC:195:ALA:N	2.49	0.66
29:B1:666:A:C6	29:B1:667:C:C5	2.84	0.66
29:B1:1471:U:H2'	29:B1:1472:U:C6	2.30	0.66
35:BD:119:ARG:C	35:BD:121:ALA:N	2.45	0.66
45:BP:142:SER:O	45:BP:146:GLY:N	2.28	0.66
41:DJ:151:GLY:O	41:DJ:154:ARG:N	2.27	0.66
54:BY:77:LYS:O	54:BY:79:TRP:N	2.29	0.66
21:CT:240:VAL:HA	21:CT:256:THR:HA	1.77	0.66
1:C1:906:A:H2'	1:C1:907:A:O4'	1.96	0.66
29:B1:1386:A:O2'	29:B1:1387:G:OP2	2.13	0.66
51:BV:22:VAL:O	51:BV:23:ARG:O	2.13	0.66
8:CG:125:LEU:O	8:CG:126:ALA:C	2.32	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2732:G:H2'	29:D1:2733:A:O4'	1.95	0.66
34:DC:345:ASN:O	34:DC:347:SER:N	2.28	0.66
41:BJ:75:TYR:O	41:BJ:76:MET:C	2.32	0.66
36:BE:35:ARG:HA	36:BE:38:THR:O	1.96	0.66
8:AG:49:GLN:HA	8:AG:50:ILE:CB	2.26	0.66
35:BD:89:ALA:O	35:BD:91:GLY:N	2.29	0.66
3:CB:238:SER:O	3:CB:240:LEU:N	2.27	0.66
1:A1:50:C:C4	1:A1:424:C:C5	2.84	0.66
1:A1:515:A:OP2	74:A1:1936:OHX:N1	2.28	0.66
1:A1:814:A:C4	1:A1:816:G:N2	2.64	0.66
29:B1:1144:U:O2'	29:B1:1145:G:OP2	2.11	0.66
29:B1:1157:G:C5'	29:B1:1157:G:H8	2.07	0.66
29:B1:1317:A:C4	29:B1:1319:G:C8	2.84	0.66
29:B1:1678:G:OP2	29:B1:1678:G:C8	2.49	0.66
29:B1:2276:G:C6	29:B1:2277:C:C4	2.84	0.66
29:B1:2738:A:H5''	29:B1:2739:A:OP2	1.96	0.66
29:B1:2889:C:O2'	29:B1:2890:A:H5'	1.96	0.66
29:B1:536:U:H6	29:B1:536:U:OP2	1.77	0.66
29:B1:574:U:O2'	29:B1:575:G:OP1	2.08	0.66
29:B1:611:A:C3'	29:B1:612:U:H5''	2.15	0.66
29:B1:977:C:C2	29:B1:978:G:N7	2.64	0.66
29:B1:5:G:N2	31:B3:155:A:N3	2.44	0.66
35:BD:9:HIS:O	35:BD:17:ALA:HB3	1.96	0.66
1:C1:1151:A:OP1	1:C1:1766:A:C2	2.49	0.66
1:C1:1760:G:C6	1:C1:1761:U:C5	2.84	0.66
1:C1:527:A:P	1:C1:527:A:H3'	2.35	0.66
29:D1:1481:A:N7	29:D1:1859:A:N7	2.44	0.66
29:D1:1875:G:C5	29:D1:1876:U:C5	2.84	0.66
29:D1:2628:A:C1'	29:D1:2798:C:C4	2.78	0.66
29:D1:2667:A:H62	29:D1:2690:G:H1	1.41	0.66
29:D1:2725:U:H6	29:D1:2725:U:H3'	1.59	0.66
29:D1:2896:A:O2'	29:D1:2897:A:P	2.53	0.66
29:D1:2919:A:H3'	29:D1:2920:U:H5'	1.76	0.66
29:D1:383:G:C3'	29:D1:384:A:H5''	2.18	0.66
29:D1:420:G:H21	29:D1:2384:A:C3'	2.07	0.66
29:D1:498:A:O2'	29:D1:499:G:H5'	1.94	0.66
29:D1:545:U:H2'	29:D1:546:C:C5	2.31	0.66
29:D1:727:G:N2	29:D1:741:U:N3	2.43	0.66
31:D3:144:G:O2'	31:D3:145:U:H5'	1.96	0.66
31:D3:19:C:C4	31:D3:20:U:C5	2.84	0.66
44:DO:85:THR:HA	44:DO:86:ASN:CB	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:737:A:HO2'	1:A1:738:G:H8	1.41	0.66
29:B1:993:G:C8	29:B1:2637:A:C2	2.83	0.66
1:A1:199:G:C4	1:A1:200:A:N7	2.63	0.66
1:A1:71:A:C6	1:A1:83:G:N1	2.64	0.66
30:D2:13:A:O4'	30:D2:13:A:N3	2.21	0.66
1:C1:1715:G:H2'	1:C1:1716:C:O4'	1.95	0.66
29:D1:2673:A:N1	29:D1:2676:A:C8	2.64	0.66
1:C1:1552:U:H5'	1:C1:1553:G:OP2	1.95	0.66
1:C1:1557:U:OP2	1:C1:1560:U:O4	2.13	0.66
1:A1:1242:A:H4'	10:AI:78:THR:HA	1.78	0.66
29:B1:380:U:H2'	29:B1:381:U:C6	2.31	0.66
29:B1:3238:G:OP2	29:B1:3238:G:C8	2.49	0.66
29:D1:3262:U:H2'	29:D1:3263:G:C8	2.26	0.66
1:A1:156:A:H5'	1:A1:416:A:C8	2.31	0.66
36:BE:113:LEU:N	36:BE:114:GLY:HA3	2.11	0.66
1:C1:1339:C:C2'	1:C1:1340:U:H5'	2.26	0.66
44:BO:38:ARG:O	44:BO:39:ALA:O	2.12	0.66
29:D1:2129:U:H5''	29:D1:2130:G:OP2	1.95	0.66
29:D1:1666:G:H2'	29:D1:1667:A:C8	2.31	0.66
29:D1:1079:A:H2'	29:D1:1080:A:H8	1.58	0.66
9:AH:22:SER:O	9:AH:24:ASN:N	2.29	0.66
29:D1:1689:U:C4	29:D1:1690:C:C5	2.84	0.66
34:BC:93:VAL:O	34:BC:99:LEU:HA	1.95	0.66
1:C1:916:U:C5	1:C1:917:U:C4	2.84	0.66
1:C1:497:G:H2'	1:C1:498:G:H5'	1.78	0.66
29:D1:1038:C:H4'	29:D1:1038:C:OP1	1.96	0.66
1:C1:1129:U:C5	1:C1:1130:G:N7	2.64	0.66
49:DT:69:LYS:O	49:DT:71:SER:N	2.27	0.66
29:B1:1039:U:H2'	29:B1:1040:A:C8	2.31	0.66
29:D1:1728:G:N2	29:D1:1730:G:N2	2.42	0.66
29:B1:1539:A:H2'	29:B1:1540:U:H5'	1.76	0.66
34:BC:189:SER:O	34:BC:190:GLU:C	2.34	0.66
44:BO:157:LYS:C	44:BO:159:ARG:H	1.98	0.66
29:B1:2652:U:H2'	29:B1:2653:C:H6	1.60	0.66
38:DG:237:ASN:O	38:DG:241:LYS:N	2.24	0.66
29:B1:672:A:C6	29:B1:791:A:C6	2.84	0.66
2:AA:198:MET:O	2:AA:200:ASP:HA	1.95	0.66
45:BP:95:GLY:O	45:BP:97:ALA:N	2.28	0.66
3:CB:107:SER:HA	3:CB:190:LEU:O	1.95	0.66
29:B1:2443:A:H2'	29:B1:2444:C:C6	2.30	0.66
6:AE:130:THR:O	6:AE:132:ARG:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1114:G:O2'	1:A1:1115:U:OP2	2.11	0.66
1:A1:1727:G:C6	1:A1:1728:A:N6	2.64	0.66
1:A1:26:A:H2	1:A1:600:U:O2	1.79	0.66
1:A1:756:A:C5	1:A1:757:A:N7	2.63	0.66
1:A1:959:U:H1'	1:A1:960:U:OP1	1.96	0.66
29:B1:10:C:O2	29:B1:11:A:O4'	2.14	0.66
29:B1:1174:G:C6	29:B1:1318:A:C2	2.83	0.66
29:B1:1608:C:C2'	29:B1:1609:C:H5'	2.26	0.66
29:B1:1687:U:P	29:B1:1687:U:H6	2.18	0.66
29:B1:1846:C:O2	29:B1:1846:C:C2'	2.40	0.66
29:B1:2282:U:C6	29:B1:2282:U:H5'	2.30	0.66
29:B1:258:G:O2'	29:B1:259:C:O5'	2.11	0.66
29:B1:2714:G:C2	29:B1:2751:G:C2	2.84	0.66
29:B1:3086:A:H2'	29:B1:3087:A:O4'	1.96	0.66
29:B1:3327:G:C6	29:B1:3328:G:N7	2.63	0.66
29:B1:3327:G:N3	29:B1:3328:G:C8	2.63	0.66
29:B1:395:A:OP1	29:B1:395:A:H8	1.79	0.66
29:B1:573:C:O2'	29:B1:574:U:H5'	1.95	0.66
29:B1:580:C:C2	29:B1:581:U:C5	2.82	0.66
34:BC:118:PHE:CA	34:BC:119:TYR:CB	2.73	0.66
37:BF:136:GLU:O	37:BF:138:GLN:N	2.29	0.66
1:C1:1075:C:C4	1:C1:1076:A:C6	2.84	0.66
1:C1:34:G:C5	1:C1:475:A:N6	2.64	0.66
1:C1:529:A:OP2	1:C1:529:A:C8	2.49	0.66
1:C1:636:A:N1	1:C1:860:U:C4	2.63	0.66
29:D1:1210:U:C2'	29:D1:1211:U:H5'	2.25	0.66
29:D1:1303:A:H4'	29:D1:1303:A:OP1	1.96	0.66
29:D1:2197:C:N4	29:D1:2241:U:H2'	2.11	0.66
29:D1:2725:U:C4	29:D1:2727:A:C2	2.84	0.66
29:D1:2909:U:C4	29:D1:2910:A:N7	2.64	0.66
29:D1:3058:U:O4'	29:D1:3058:U:O2	2.10	0.66
29:D1:3303:G:C4'	29:D1:3304:U:OP1	2.40	0.66
29:D1:3305:A:H2'	29:D1:3306:U:O2	1.95	0.66
29:D1:504:A:C2	29:D1:587:U:N3	2.43	0.66
29:D1:594:U:O4	29:D1:610:G:O5'	2.13	0.66
29:D1:771:A:H3'	29:D1:772:U:H5'	1.77	0.66
29:B1:1056:U:H4'	30:B2:82:G:H4'	1.78	0.66
1:A1:195:G:O2'	1:A1:196:G:H5''	1.96	0.66
1:A1:1256:A:N3	1:A1:1256:A:H2'	2.10	0.66
1:A1:1269:U:N3	1:A1:1432:U:O4'	2.29	0.66
29:D1:3209:A:C6	29:D1:3210:A:N1	2.64	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:625:G:C8	29:D1:625:G:H5'	2.28	0.66
30:B2:24:A:H2'	30:B2:25:G:C8	2.30	0.66
29:D1:1257:C:H3'	29:D1:1258:U:H6	1.60	0.66
29:B1:2593:A:C4'	29:B1:2594:C:H5'	2.24	0.66
1:C1:1321:A:C6	2:CA:105:GLY:HA3	2.30	0.66
29:B1:1061:A:N6	29:B1:1062:A:N6	2.43	0.66
34:DC:93:VAL:CB	34:DC:156:SER:H	2.09	0.66
29:D1:2232:A:H1'	29:D1:2429:G:H5'	1.77	0.66
29:B1:1624:G:N2	29:B1:1625:A:N3	2.43	0.66
1:C1:1094:G:C2	1:C1:1095:U:C4	2.84	0.66
29:D1:1913:A:C4	29:D1:2120:A:N7	2.64	0.66
29:B1:2719:U:C5	29:B1:2720:G:C5	2.84	0.66
29:D1:1351:U:O2	29:D1:1352:A:C5	2.49	0.66
29:D1:1728:G:H5'	29:D1:1730:G:O4'	1.96	0.66
29:B1:3269:U:O2'	29:B1:3270:U:C5'	2.43	0.66
54:BY:129:PHE:CB	54:BY:130:VAL:CA	2.73	0.66
50:DU:129:VAL:O	50:DU:133:SER:CB	2.44	0.66
1:A1:134:U:H3'	1:A1:135:A:H5''	1.78	0.66
13:CL:65:GLU:O	13:CL:67:GLU:N	2.27	0.66
13:CL:75:ASN:O	13:CL:78:HIS:O	2.13	0.66
20:AS:38:ILE:C	20:AS:40:ARG:N	2.48	0.66
45:BP:18:ARG:C	45:BP:20:ALA:N	2.48	0.66
34:BC:167:ARG:HA	74:BC:401:OHX:N4	2.10	0.66
29:D1:244:G:C6	29:D1:245:U:O2	2.49	0.66
47:DR:24:VAL:O	47:DR:27:LYS:N	2.29	0.66
9:AH:99:GLN:O	9:AH:103:ARG:CB	2.44	0.66
33:DB:12:ALA:O	33:DB:14:SER:N	2.28	0.66
5:AD:148:ARG:O	5:AD:157:ARG:HA	1.96	0.66
1:A1:1003:A:N7	1:A1:1005:A:C2	2.64	0.66
1:A1:1049:U:H2'	1:A1:1050:G:C8	2.30	0.66
1:A1:479:C:H3'	1:A1:480:G:C8	2.31	0.66
1:A1:992:A:C4	1:A1:1013:A:C2	2.83	0.66
29:B1:1172:G:O2'	29:B1:1173:U:H5'	1.94	0.66
29:B1:120:G:H3'	29:B1:121:A:N3	2.10	0.66
29:B1:20:A:O2'	29:B1:21:G:C5'	2.44	0.66
29:B1:2918:G:N2	29:B1:2919:A:C8	2.63	0.66
29:B1:3035:A:C5	29:B1:3036:G:N7	2.64	0.66
29:B1:3045:G:H2'	29:B1:3046:A:O5'	1.96	0.66
29:B1:2912:G:O6	29:B1:3130:A:C6	2.49	0.66
29:B1:373:A:C6	29:B1:375:A:N6	2.64	0.66
29:B1:550:A:H2'	29:B1:551:A:C8	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:716:A:H3'	29:B1:717:C:H4'	1.78	0.66
29:B1:726:G:N1	29:B1:727:G:O6	2.29	0.66
29:B1:742:G:C3'	29:B1:743:C:H5''	2.26	0.66
29:B1:889:U:H2'	29:B1:890:C:H6	1.61	0.66
38:BG:73:GLY:HA2	38:BG:74:SER:C	2.12	0.66
43:BN:73:PRO:O	43:BN:75:GLY:N	2.29	0.66
1:C1:1138:A:N3	1:C1:1139:A:C8	2.64	0.66
1:C1:1746:A:H3'	1:C1:1747:G:H8	1.60	0.66
1:C1:1636:C:N3	1:C1:1765:A:N6	2.43	0.66
1:C1:817:A:C2	1:C1:855:A:H2	2.13	0.66
29:D1:1224:C:H5	29:D1:1285:G:C6	2.14	0.66
29:D1:145:G:N3	29:D1:145:G:H2'	2.09	0.66
29:D1:2326:A:C6	29:D1:2327:U:C5	2.83	0.66
29:D1:2650:U:H2'	29:D1:2650:U:O2	1.96	0.66
29:D1:2806:U:O2'	29:D1:2807:U:H5'	1.96	0.66
29:D1:306:A:C2	29:D1:307:A:C8	2.83	0.66
29:D1:3132:C:O2'	29:D1:3133:C:H5'	1.96	0.66
29:D1:3325:G:H2'	29:D1:3326:G:O4'	1.96	0.66
29:D1:3327:G:N3	29:D1:3328:G:N7	2.43	0.66
29:D1:591:G:N1	29:D1:592:A:C4	2.63	0.66
29:D1:707:U:O2'	29:D1:752:C:O2	2.14	0.66
29:D1:915:A:C8	29:D1:916:G:H4'	2.31	0.66
37:DF:56:LYS:C	37:DF:58:LEU:H	1.99	0.66
1:A1:841:U:C4	1:A1:842:C:C4	2.84	0.66
1:C1:224:C:C2'	1:C1:225:A:H8	2.08	0.66
29:B1:2638:C:C2	29:B1:2639:G:C8	2.84	0.66
30:B2:115:G:H2'	30:B2:115:G:N3	2.11	0.66
31:B3:72:A:H62	31:B3:85:G:N2	1.94	0.66
1:A1:148:A:O5'	1:A1:149:C:H5	1.78	0.66
1:A1:176:C:H3'	1:A1:177:U:C6	2.31	0.66
29:B1:2673:A:C2	29:B1:2674:A:C6	2.84	0.66
1:A1:212:U:C2'	1:A1:213:A:H5'	2.25	0.66
1:A1:252:U:O2'	1:A1:253:A:O5'	2.14	0.66
1:C1:1196:A:C4'	1:C1:1197:C:H5''	2.20	0.66
1:A1:1385:G:H2'	1:A1:1386:G:H8	1.61	0.66
1:A1:1552:U:N3	1:A1:1553:G:C4	2.63	0.66
1:A1:1593:A:O2'	1:A1:1594:G:H5'	1.95	0.66
29:D1:3212:C:N3	29:D1:3213:A:C2	2.60	0.66
30:B2:91:G:N3	30:B2:92:A:C8	2.64	0.66
29:B1:1461:A:C4	29:B1:1462:A:C8	2.83	0.66
29:B1:3174:A:C4'	29:B1:3174:A:OP2	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2755:C:O2	29:B1:2755:C:H2'	1.95	0.66
29:B1:3202:G:O2'	29:B1:3203:U:H5'	1.95	0.66
30:D2:22:A:C6	30:D2:23:A:C6	2.83	0.66
29:D1:1412:G:C5	29:D1:1413:G:N7	2.63	0.66
30:B2:22:A:C5	30:B2:23:A:C6	2.83	0.66
1:C1:1650:U:H3'	1:C1:1651:A:C8	2.30	0.66
1:C1:1783:C:H2'	1:C1:1784:C:H6	1.60	0.66
29:B1:2909:U:C5	29:B1:2910:A:N7	2.63	0.66
1:C1:134:U:H3'	1:C1:135:A:H5''	1.78	0.66
1:C1:212:U:C2'	1:C1:213:A:H5'	2.25	0.66
29:D1:1364:C:H2'	29:D1:1365:G:C8	2.31	0.66
74:A1:1951:OHX:N5	74:A1:1991:OHX:N1	2.44	0.66
45:BP:97:ALA:O	45:BP:100:GLU:N	2.29	0.66
35:DD:130:ALA:O	35:DD:131:VAL:C	2.34	0.66
46:BQ:116:HIS:O	46:BQ:148:LEU:HA	1.95	0.66
1:A1:1788:G:OP2	1:A1:1788:G:H8	1.79	0.66
33:DB:102:LEU:O	33:DB:104:LEU:N	2.29	0.66
14:AM:134:ARG:O	14:AM:137:ALA:N	2.28	0.66
2:CA:139:VAL:O	2:CA:141:ILE:N	2.29	0.66
1:A1:1138:A:N3	1:A1:1139:A:N7	2.44	0.66
1:A1:427:C:H5''	1:A1:427:C:H6	1.58	0.66
1:A1:955:A:H2'	1:A1:956:C:O4'	1.96	0.66
29:B1:1169:A:C2	29:B1:1330:A:C5	2.84	0.66
29:B1:1287:A:C6	29:B1:1288:U:C4	2.83	0.66
29:B1:1303:A:H4'	29:B1:1303:A:OP1	1.95	0.66
29:B1:398:A:C2	29:B1:1415:U:H5''	2.30	0.66
29:B1:2421:U:C4	29:B1:2422:C:C5	2.84	0.66
29:B1:519:A:H62	37:BF:30:LEU:HA	1.61	0.66
29:B1:592:A:C5	29:B1:593:C:C6	2.84	0.66
29:B1:592:A:H3'	29:B1:593:C:H4'	1.73	0.66
29:B1:773:G:N2	29:B1:774:G:C4	2.64	0.66
29:B1:77:A:C2	29:B1:78:U:H1'	2.31	0.66
29:B1:86:G:H22	29:B1:98:G:C2'	2.06	0.66
29:B1:891:G:C6	29:B1:892:U:C4	2.84	0.66
31:B3:109:A:C2	31:B3:114:G:C6	2.83	0.66
1:C1:1767:G:O2'	1:C1:1768:G:OP2	2.12	0.66
1:C1:1779:U:O2'	1:C1:1780:G:P	2.53	0.66
1:C1:129:U:H5	1:C1:264:G:C6	2.08	0.66
29:D1:1294:A:O2'	29:D1:1295:G:O5'	2.13	0.66
29:D1:1302:A:C1'	29:D1:2887:A:C2	2.79	0.66
29:D1:1330:A:N1	29:D1:1332:A:H1'	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1907:C:H2'	29:D1:1908:A:H5'	1.78	0.66
29:D1:2761:G:H22	29:D1:2795:U:H2'	1.61	0.66
29:D1:2847:A:N7	29:D1:2898:G:C5	2.64	0.66
29:D1:2980:U:C2'	29:D1:2981:U:H5'	2.26	0.66
29:D1:3390:G:C4	29:D1:3391:A:C8	2.84	0.66
29:D1:585:A:C6	29:D1:586:C:N4	2.64	0.66
29:D1:597:G:C2	29:D1:607:A:H2	2.14	0.66
29:D1:832:G:C2	29:D1:863:C:C2	2.84	0.66
29:D1:972:A:O2'	29:D1:973:A:H5'	1.94	0.66
31:D3:65:A:C5	31:D3:66:A:C5	2.84	0.66
31:D3:72:A:H62	31:D3:85:G:H21	1.44	0.66
34:DC:50:LYS:CB	34:DC:334:ARG:H	2.08	0.66
1:C1:223:U:H5'	1:C1:224:C:OP2	1.96	0.66
1:A1:687:G:N2	1:A1:688:G:C4	2.64	0.66
30:B2:106:U:O2	30:B2:107:C:C6	2.49	0.66
1:A1:126:A:N6	1:A1:292:U:C2	2.64	0.66
1:C1:243:G:C2	1:C1:251:A:C6	2.77	0.66
29:B1:2674:A:P	42:BK:106:ILE:O	2.54	0.66
1:A1:320:U:OP2	1:A1:322:G:H5'	1.96	0.66
1:C1:1602:C:H3'	1:C1:1603:U:C6	2.27	0.66
30:B2:94:C:O2	30:B2:95:A:C8	2.49	0.66
29:D1:3201:C:C2	29:D1:3202:G:N7	2.64	0.66
1:C1:1327:C:C2'	1:C1:1328:G:H5'	2.25	0.66
1:C1:1752:U:C2'	1:C1:1753:A:H8	2.05	0.66
1:A1:1332:C:O2'	1:A1:1333:C:H6	1.79	0.66
1:A1:1337:A:H5'	1:A1:1338:C:OP2	1.95	0.66
9:AH:21:ALA:N	9:AH:85:ALA:HB2	2.11	0.66
1:A1:312:A:H2	1:A1:314:C:H2'	1.60	0.66
29:D1:2562:A:H2'	29:D1:2563:G:H8	1.60	0.66
29:B1:1349:G:O2'	29:B1:1350:A:OP2	2.14	0.66
29:B1:840:C:H2'	29:B1:841:A:H5'	1.77	0.66
29:B1:3178:A:O2'	29:B1:3179:U:OP1	2.12	0.66
29:B1:1585:C:O2'	29:B1:1586:G:H5'	1.96	0.66
47:BR:45:ASN:O	47:BR:48:VAL:N	2.28	0.66
29:D1:840:C:H2'	29:D1:841:A:H5'	1.78	0.66
1:A1:375:U:O2	1:A1:375:U:H2'	1.96	0.66
34:DC:189:SER:O	34:DC:190:GLU:C	2.35	0.66
29:D1:1811:G:C6	29:D1:1812:G:C8	2.84	0.66
35:DD:252:GLU:C	35:DD:254:ALA:H	1.97	0.66
40:BI:90:MET:HA	40:BI:181:VAL:HA	1.77	0.66
46:BQ:50:GLN:O	46:BQ:54:HIS:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:999:U:H2'	1:A1:1000:C:O2	1.96	0.65
1:A1:1746:A:H3'	1:A1:1747:G:H8	1.60	0.65
1:A1:1780:G:H1'	29:B1:2262:A:C2'	2.25	0.65
1:A1:861:U:H5	1:A1:862:A:C8	2.10	0.65
29:B1:1389:G:O2'	29:B1:1390:A:O5'	2.13	0.65
29:B1:1785:U:O2'	29:B1:1786:G:H8	1.79	0.65
29:B1:2223:A:C2	29:B1:2224:A:C4	2.84	0.65
29:B1:2424:A:H8	29:B1:2424:A:OP2	1.79	0.65
29:B1:2987:A:C5	29:B1:2988:C:C5	2.84	0.65
29:B1:3368:U:H6	29:B1:3368:U:H5'	1.61	0.65
29:B1:3386:G:C8	29:B1:3386:G:O5'	2.48	0.65
29:B1:542:G:C2	29:B1:543:C:C4	2.84	0.65
29:B1:592:A:N3	29:B1:593:C:N1	2.42	0.65
29:B1:887:G:C6	29:B1:888:A:C6	2.84	0.65
35:BD:20:LEU:O	35:BD:21:PRO:CB	2.42	0.65
37:BF:159:LEU:C	37:BF:161:ALA:H	1.99	0.65
1:C1:1032:G:H2'	1:C1:1033:C:H6	1.61	0.65
1:C1:269:G:H2'	1:C1:270:C:H6	1.61	0.65
29:D1:1152:G:O5'	29:D1:1152:G:C8	2.47	0.65
29:D1:1198:C:C6	29:D1:1200:A:H8	2.14	0.65
29:D1:1656:A:H1'	29:D1:1657:C:C5	2.31	0.65
29:D1:2112:U:H1'	29:D1:2113:A:OP2	1.95	0.65
29:D1:1899:G:N3	29:D1:2334:U:C5	2.64	0.65
29:D1:264:G:H3'	29:D1:265:A:H8	1.57	0.65
29:D1:2766:U:H2'	29:D1:2767:U:H6	1.58	0.65
29:D1:1901:A:H4'	29:D1:2918:G:H4'	1.78	0.65
29:D1:3299:A:HO2'	29:D1:3300:U:P	2.18	0.65
29:D1:3334:U:O2	29:D1:3335:A:C4	2.49	0.65
74:D1:3477:OHX:N3	74:D1:3589:OHX:N4	2.44	0.65
29:D1:354:U:OP2	29:D1:364:G:N1	2.28	0.65
29:D1:422:A:O4'	29:D1:422:A:N3	2.24	0.65
29:D1:656:A:H3'	29:D1:657:A:C8	2.31	0.65
29:D1:675:C:O2	29:D1:679:U:H5'	1.95	0.65
29:D1:8:C:C2	29:D1:9:U:H5	2.13	0.65
29:D1:2147:A:OP1	33:DB:199:THR:N	2.26	0.65
29:B1:2690:G:O2'	29:B1:2691:A:OP1	2.14	0.65
30:B2:79:A:H1'	30:B2:102:A:N6	2.11	0.65
1:A1:63:G:H5'	1:A1:170:U:C4	2.32	0.65
30:D2:12:U:H3'	30:D2:13:A:N1	2.10	0.65
30:D2:75:G:OP1	74:D2:201:OHX:N1	2.28	0.65
1:C1:115:G:H21	1:C1:334:G:H21	1.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1684:U:C4	1:C1:1721:A:H2	2.13	0.65
45:BP:124:LEU:CB	45:BP:128:ARG:N	2.59	0.65
1:C1:1345:A:N7	1:C1:1347:U:N3	2.45	0.65
1:C1:1612:U:H3'	1:C1:1613:U:H5''	1.78	0.65
1:A1:1166:A:H5''	1:A1:1167:G:OP2	1.96	0.65
1:A1:1202:A:N6	1:A1:1457:C:OP1	2.30	0.65
1:A1:1429:G:H2'	1:A1:1430:U:C6	2.29	0.65
1:A1:1603:U:H2'	1:A1:1603:U:O2	1.95	0.65
74:A1:1935:OHX:N1	74:A1:1959:OHX:N3	2.44	0.65
1:C1:1049:U:H2'	1:C1:1050:G:H8	1.61	0.65
29:B1:3176:G:C2'	29:B1:3177:G:C5'	2.73	0.65
29:B1:3276:G:H2'	29:B1:3277:U:O4'	1.95	0.65
29:B1:3281:U:C4	29:B1:3282:U:O4	2.50	0.65
30:D2:23:A:C2'	30:D2:24:A:C8	2.79	0.65
29:B1:3240:C:O2'	29:B1:3241:G:H5'	1.95	0.65
29:D1:1278:A:HO2'	29:D1:1279:C:H6	0.73	0.65
29:D1:3246:G:H2'	29:D1:3247:G:H8	1.59	0.65
44:DO:187:ARG:CB	44:DO:188:ARG:CB	2.74	0.65
44:DO:38:ARG:O	44:DO:39:ALA:O	2.13	0.65
1:A1:1750:A:C5	1:A1:1751:C:C5	2.83	0.65
29:D1:1948:G:C2	29:D1:1949:G:N7	2.64	0.65
29:D1:1349:G:O2'	29:D1:1350:A:OP2	2.14	0.65
34:BC:295:ALA:H	34:BC:305:ILE:H	1.42	0.65
29:B1:2908:G:C5	29:B1:2909:U:C5	2.84	0.65
1:A1:789:A:C4	1:A1:790:U:C6	2.83	0.65
29:D1:3180:A:C8	45:DP:114:LYS:CB	2.78	0.65
14:AM:55:TYR:O	14:AM:58:ALA:HB3	1.96	0.65
36:BE:194:LEU:O	36:BE:196:ARG:N	2.29	0.65
52:BW:69:SER:O	52:BW:71:THR:N	2.30	0.65
45:BP:18:ARG:C	45:BP:20:ALA:H	1.97	0.65
17:CP:58:GLY:HA2	17:CP:70:LYS:HA	1.78	0.65
45:BP:74:ARG:O	45:BP:75:ALA:O	2.14	0.65
35:DD:134:LEU:O	35:DD:136:LEU:N	2.28	0.65
40:BI:73:SER:O	40:BI:76:ASP:N	2.27	0.65
33:BB:102:LEU:O	33:BB:104:LEU:N	2.29	0.65
1:A1:1142:A:O2'	1:A1:1143:A:O4'	2.07	0.65
1:A1:480:G:O2'	1:A1:481:A:H5'	1.94	0.65
29:B1:1102:A:O3'	29:B1:1103:A:H4'	1.95	0.65
29:B1:1194:G:H2'	29:B1:1309:U:O2	1.95	0.65
29:B1:1428:A:OP2	54:BY:1:MET:CB	2.44	0.65
29:B1:1441:G:C2'	29:B1:1442:U:C5'	2.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2221:G:C8	29:B1:2221:G:H3'	2.31	0.65
29:B1:2299:A:C4	29:B1:2300:G:C8	2.84	0.65
29:B1:2716:U:C3'	29:B1:2717:U:H5''	2.26	0.65
29:B1:318:A:OP2	29:B1:318:A:H8	1.79	0.65
29:B1:3333:G:H1	29:B1:3370:A:C4'	2.09	0.65
29:B1:406:G:N2	31:B3:16:G:C4	2.64	0.65
1:C1:1041:G:O2'	1:C1:1042:G:H5'	1.96	0.65
1:C1:1144:U:H2'	1:C1:1145:U:H6	1.62	0.65
1:C1:974:A:OP1	29:D1:848:A:O2'	2.11	0.65
3:CB:160:GLY:O	3:CB:209:ASN:HA	1.96	0.65
29:D1:1406:A:C2	29:D1:1407:A:C6	2.84	0.65
29:D1:2148:U:H3'	29:D1:2187:G:N2	2.11	0.65
29:D1:2285:C:C5	29:D1:2286:U:N3	2.65	0.65
29:D1:2361:A:N6	29:D1:2377:G:C6	2.64	0.65
29:D1:2696:A:N7	29:D1:2697:A:C5	2.64	0.65
29:D1:3057:U:H5'	29:D1:3086:A:N6	2.11	0.65
29:D1:3097:C:O2'	29:D1:3098:G:P	2.53	0.65
29:D1:3102:G:C2	29:D1:3103:A:C4	2.85	0.65
29:D1:3133:C:H2'	29:D1:3134:A:O4'	1.96	0.65
29:D1:314:U:H2'	29:D1:315:C:H6	1.61	0.65
29:D1:3295:A:H2'	29:D1:3296:A:H8	1.61	0.65
29:D1:3373:U:C4	29:D1:3374:U:C5	2.85	0.65
29:D1:594:U:H2'	29:D1:594:U:O2	1.95	0.65
29:D1:425:G:O6	29:D1:635:G:C6	2.49	0.65
29:D1:880:G:OP2	46:DQ:131:ARG:HA	1.94	0.65
74:D3:204:OHX:N6	74:D3:209:OHX:N1	2.43	0.65
31:D3:70:G:C8	31:D3:71:A:N6	2.63	0.65
1:C1:742:U:O2'	1:C1:744:U:H5	1.80	0.65
29:B1:351:A:H8	31:B3:53:A:H1'	1.61	0.65
1:A1:175:G:C5	74:A1:1915:OHX:N2	2.64	0.65
1:A1:1691:A:C6	1:A1:1713:G:C2	2.84	0.65
1:A1:213:A:H2'	1:A1:214:G:H5'	1.78	0.65
1:C1:1160:A:C4	1:C1:1161:C:C5	2.85	0.65
1:C1:1458:G:H5''	1:C1:1459:C:H5	1.58	0.65
1:C1:1467:C:C2'	1:C1:1468:U:H5'	2.25	0.65
1:C1:1602:C:H5'	1:C1:1603:U:OP2	1.97	0.65
1:A1:1183:A:H2'	1:A1:1210:C:O2'	1.95	0.65
29:D1:3210:A:C6	29:D1:3211:C:N4	2.64	0.65
30:D2:24:A:H2'	30:D2:25:G:C8	2.31	0.65
30:D2:33:U:O2'	30:D2:34:C:N1	2.29	0.65
29:D1:69:C:N3	29:D1:70:A:H1'	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1254:C:H5	29:D1:1263:A:OP1	1.79	0.65
29:D1:1262:G:OP2	29:D1:1262:G:C8	2.49	0.65
29:B1:2436:U:H5'	29:B1:2437:G:OP2	1.94	0.65
1:C1:1330:G:C4	1:C1:1331:A:C8	2.84	0.65
29:D1:1688:U:C2'	29:D1:1689:U:C5	2.78	0.65
36:DE:241:THR:O	36:DE:243:ALA:N	2.30	0.65
29:D1:2861:U:H2'	29:D1:2862:U:O4'	1.95	0.65
34:BC:193:ASP:O	34:BC:195:ALA:N	2.28	0.65
1:C1:879:G:H5'	8:CG:108:ASP:HA	1.78	0.65
17:CP:48:HIS:O	17:CP:49:ALA:HB2	1.95	0.65
5:AD:140:THR:O	5:AD:171:ALA:HB1	1.97	0.65
29:D1:672:A:C6	29:D1:791:A:C6	2.83	0.65
29:B1:1830:G:C4	29:B1:1831:U:C6	2.83	0.65
38:BG:238:LYS:HA	38:BG:241:LYS:CB	2.26	0.65
4:AC:80:ALA:C	4:AC:82:GLY:H	2.00	0.65
38:DG:159:GLN:O	38:DG:160:ARG:O	2.13	0.65
6:AE:99:LEU:O	6:AE:101:VAL:N	2.29	0.65
1:A1:16:G:C2	1:A1:17:C:C4	2.84	0.65
29:B1:2912:G:C6	29:B1:3130:A:C4	2.84	0.65
29:B1:2912:G:C5	29:B1:2913:C:C2	2.84	0.65
29:B1:315:C:H2'	29:B1:316:U:C6	2.31	0.65
29:B1:3309:G:C4	29:B1:3310:A:C8	2.84	0.65
29:B1:3328:G:H2'	29:B1:3328:G:N3	2.10	0.65
29:B1:66:A:H2	29:B1:77:A:O3'	1.78	0.65
1:C1:378:A:H2'	1:C1:378:A:N3	2.09	0.65
29:D1:1158:A:C3'	29:D1:1159:A:H5''	2.26	0.65
29:D1:1406:A:C2	29:D1:1407:A:C5	2.84	0.65
29:D1:146:U:C4	29:D1:147:U:C2	2.84	0.65
29:D1:2147:A:H5'	29:D1:2147:A:H8	1.61	0.65
29:D1:2256:A:O2'	29:D1:2257:C:P	2.53	0.65
29:D1:2374:C:C4	29:D1:2941:A:C4	2.85	0.65
29:D1:3025:C:C2'	29:D1:3026:G:H5'	2.26	0.65
29:D1:542:G:C2	29:D1:543:C:C4	2.85	0.65
29:D1:556:U:C2'	29:D1:557:A:O4'	2.44	0.65
29:D1:642:U:C5	29:D1:644:G:P	2.89	0.65
29:D1:764:U:H4'	29:D1:766:U:H5	1.62	0.65
31:D3:37:A:N6	31:D3:104:A:H2'	2.06	0.65
31:D3:24:G:N2	31:D3:25:G:H1'	2.11	0.65
29:D1:22:G:O2'	31:D3:40:A:N1	2.22	0.65
44:DO:53:TYR:O	44:DO:55:ALA:N	2.29	0.65
30:D2:9:C:C5	30:D2:10:C:O2	2.49	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1685:G:N2	1:C1:1686:C:C2	2.64	0.65
29:B1:2676:A:C2	29:B1:2680:A:N1	2.64	0.65
1:C1:1179:G:N2	1:C1:1461:C:N4	2.45	0.65
1:C1:1454:G:H2'	1:C1:1455:G:H5'	1.78	0.65
1:A1:1232:U:H3'	1:A1:1232:U:O2	1.96	0.65
1:A1:1570:A:C2	1:A1:1571:C:H1'	2.31	0.65
29:D1:3176:G:O2'	29:D1:3177:G:H5''	1.96	0.65
29:D1:3211:C:H2'	29:D1:3212:C:C6	2.31	0.65
29:B1:3215:A:O5'	29:B1:3218:A:C4'	2.44	0.65
21:CT:289:ALA:CA	21:CT:305:TYR:HA	2.15	0.65
30:B2:33:U:O2'	30:B2:34:C:C6	2.49	0.65
29:B1:1281:G:OP2	29:B1:1281:G:C8	2.48	0.65
29:D1:3215:A:O5'	29:D1:3218:A:C4'	2.44	0.65
31:B3:123:G:H3'	31:B3:124:G:H5''	1.79	0.65
34:DC:175:LYS:O	34:DC:176:ALA:O	2.14	0.65
29:B1:2173:U:C4	29:B1:2174:G:C6	2.84	0.65
29:B1:3269:U:O2'	29:B1:3270:U:H5'	1.96	0.65
54:BY:137:LYS:O	54:BY:140:ALA:CB	2.44	0.65
13:CL:121:ALA:O	13:CL:124:GLY:N	2.19	0.65
29:D1:2768:U:C2'	29:D1:2769:A:H5'	2.27	0.65
29:D1:1004:U:N3	29:D1:1005:G:N7	2.45	0.65
49:DT:77:ASN:HA	49:DT:87:LYS:O	1.97	0.65
21:AT:35:SER:CB	21:AT:43:ILE:O	2.45	0.65
55:BZ:45:ALA:HA	55:BZ:70:PHE:CB	2.26	0.65
1:A1:102:U:O4	1:A1:360:A:H2'	1.95	0.65
1:A1:528:U:H4'	1:A1:529:A:C4'	2.27	0.65
1:A1:636:A:N1	1:A1:860:U:C4	2.64	0.65
3:AB:160:GLY:C	3:AB:209:ASN:HA	2.16	0.65
29:B1:1212:A:C6	29:B1:1294:A:C2	2.85	0.65
29:B1:1212:A:C2	29:B1:1294:A:C2	2.84	0.65
29:B1:2912:G:O6	29:B1:3130:A:C5	2.49	0.65
29:B1:2948:C:H5''	29:B1:2948:C:C6	2.30	0.65
29:B1:3326:G:C2	29:B1:3327:G:C8	2.84	0.65
29:B1:3333:G:H22	29:B1:3370:A:C3'	2.08	0.65
29:B1:400:G:C1'	29:B1:401:U:OP2	2.45	0.65
29:B1:514:G:H3'	29:B1:515:C:C6	2.30	0.65
29:B1:534:U:C6	29:B1:534:U:O5'	2.45	0.65
29:B1:824:C:O2'	29:B1:825:U:H5'	1.97	0.65
31:B3:154:C:C2	31:B3:155:A:C8	2.84	0.65
1:C1:166:C:C2'	1:C1:167:U:H5''	2.26	0.65
1:C1:259:U:C4	1:C1:261:U:O4	2.48	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:482:U:H2'	1:C1:483:A:C8	2.32	0.65
1:C1:557:G:P	1:C1:557:G:H3'	2.36	0.65
1:C1:89:G:C2	1:C1:90:C:C2	2.84	0.65
29:D1:644:G:C4'	29:D1:1153:A:C2	2.56	0.65
29:D1:120:G:H3'	29:D1:121:A:N3	2.12	0.65
29:D1:1336:U:O2'	29:D1:1337:A:H5'	1.96	0.65
29:D1:1504:A:C3'	29:D1:1505:C:H5''	2.26	0.65
29:D1:1544:G:N2	29:D1:1545:A:H1'	2.12	0.65
29:D1:1602:A:C6	29:D1:1603:A:C6	2.85	0.65
29:D1:2192:C:HO2'	29:D1:2312:A:H2	1.42	0.65
29:D1:2837:A:C8	29:D1:2845:A:C2	2.83	0.65
29:D1:313:A:H2'	29:D1:314:U:C6	2.32	0.65
29:D1:610:G:C3'	29:D1:610:G:N3	2.57	0.65
29:D1:776:U:H3'	29:D1:777:U:C4'	2.26	0.65
29:D1:952:A:H5'	29:D1:952:A:H8	1.61	0.65
29:D1:953:G:C8	29:D1:1117:G:C8	2.84	0.65
34:DC:332:ARG:O	34:DC:333:LYS:CB	2.44	0.65
1:A1:225:A:N6	1:A1:836:U:H3	1.93	0.65
1:C1:845:G:O6	74:C1:1917:OHX:N4	2.29	0.65
1:C1:647:G:N1	1:C1:687:G:N1	2.43	0.65
1:A1:289:U:C2'	1:A1:289:U:O2	2.43	0.65
30:D2:67:G:C6	30:D2:68:C:N3	2.64	0.65
1:C1:1683:C:O5'	1:C1:1684:U:OP1	2.15	0.65
1:C1:243:G:N2	1:C1:251:A:N3	2.44	0.65
29:D1:2675:C:H5	29:D1:2676:A:C6	2.15	0.65
29:D1:2680:A:N6	42:DK:56:THR:O	2.29	0.65
1:A1:1718:G:H2'	1:A1:1719:A:C5'	2.24	0.65
1:A1:1165:G:O6	1:A1:1166:A:N6	2.30	0.65
1:A1:1515:A:H2'	1:A1:1516:A:C5'	2.26	0.65
30:B2:41:G:C6	30:B2:43:U:C4	2.85	0.65
29:D1:393:U:O2	29:D1:393:U:H2'	1.94	0.65
29:B1:1254:C:C2	29:B1:1255:C:C5	2.84	0.65
29:B1:1255:C:C5	74:B1:3567:OHX:N5	2.64	0.65
29:D1:3218:A:H2'	29:D1:3219:G:H3'	1.79	0.65
29:B1:2553:U:O2	29:B1:2554:A:H2'	1.96	0.65
29:B1:1623:G:H2'	29:B1:1624:G:O4'	1.95	0.65
1:C1:491:C:H2'	1:C1:492:A:C8	2.31	0.65
49:DT:73:GLY:H	49:DT:92:ARG:HA	1.61	0.65
29:D1:1933:A:C2'	29:D1:1934:G:H5'	2.26	0.65
29:B1:1341:U:H2'	29:B1:1342:C:H6	1.62	0.65
29:B1:2602:G:N3	29:B1:2603:G:C8	2.65	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AI:97:TYR:HA	10:AI:102:PHE:N	2.11	0.65
29:B1:3180:A:C8	45:BP:114:LYS:CB	2.79	0.65
44:BO:159:ARG:O	44:BO:161:ALA:N	2.27	0.65
74:D1:3442:OHX:N6	74:D1:3592:OHX:N5	2.44	0.65
1:C1:734:A:H2'	1:C1:735:C:O4'	1.95	0.65
29:D1:3165:A:H2'	29:D1:3166:C:H5'	1.78	0.65
38:BG:85:PHE:HA	38:BG:115:THR:O	1.96	0.65
74:B1:3519:OHX:N4	74:B1:3605:OHX:N3	2.45	0.65
29:D1:1830:G:H2'	29:D1:1831:U:H6	1.60	0.65
29:B1:2732:G:H2'	29:B1:2733:A:O4'	1.95	0.65
29:B1:789:A:C2	29:B1:790:U:C4	2.84	0.65
39:BH:247:ASP:O	39:BH:249:ARG:N	2.29	0.65
41:BJ:146:ASP:O	41:BJ:147:VAL:O	2.14	0.65
1:A1:25:C:C4	1:A1:367:A:C1'	2.78	0.65
1:A1:509:G:C4	1:A1:510:G:N7	2.64	0.65
1:A1:992:A:H2'	1:A1:993:A:C5'	2.17	0.65
29:B1:1297:C:C2'	29:B1:1298:C:H5'	2.23	0.65
29:B1:1313:G:H2'	29:B1:1314:C:C6	2.29	0.65
29:B1:1484:U:C1'	29:B1:1485:G:OP1	2.43	0.65
29:B1:1599:G:C2	29:B1:1600:U:O2	2.49	0.65
29:B1:2365:C:H6	29:B1:2365:C:OP1	1.80	0.65
29:B1:2779:A:C5'	29:B1:2779:A:H8	1.98	0.65
29:B1:2961:G:H5''	29:B1:2962:U:OP2	1.97	0.65
29:B1:2971:A:H4'	29:B1:2972:G:O5'	1.95	0.65
29:B1:3013:U:C6	29:B1:3013:U:H5''	2.32	0.65
29:B1:3289:G:N7	74:B1:3581:OHX:N3	2.45	0.65
29:B1:51:A:H2'	29:B1:52:A:H8	1.61	0.65
29:B1:606:C:C2'	29:B1:607:A:C8	2.79	0.65
29:B1:606:C:C2'	29:B1:607:A:N9	2.60	0.65
29:B1:645:A:C8	29:B1:649:A:C6	2.85	0.65
29:B1:856:G:C6	29:B1:857:G:C2	2.84	0.65
38:BG:75:TYR:CB	38:BG:76:TYR:CA	2.74	0.65
1:C1:142:G:O6	1:C1:266:A:C5	2.49	0.65
1:C1:1793:G:O2'	1:C1:1794:A:P	2.55	0.65
1:C1:427:C:C6	1:C1:427:C:H5''	2.29	0.65
1:C1:527:A:OP2	1:C1:527:A:H3'	1.96	0.65
1:C1:542:A:O2'	1:C1:543:C:O5'	2.12	0.65
29:D1:1480:G:H4'	29:D1:1481:A:OP2	1.97	0.65
29:D1:2113:A:N7	29:D1:2114:C:C4	2.64	0.65
29:D1:2626:A:C8	29:D1:2644:C:H5'	2.31	0.65
29:D1:2699:G:H2'	29:D1:2700:G:O4'	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2875:U:H5'	29:D1:2876:C:OP2	1.96	0.65
29:D1:2980:U:O2'	29:D1:2981:U:H5'	1.96	0.65
29:D1:46:U:H2'	29:D1:47:C:H5'	1.77	0.65
29:D1:557:A:N7	29:D1:559:A:N6	2.45	0.65
29:D1:606:C:C2'	29:D1:607:A:C8	2.79	0.65
34:DC:79:VAL:O	34:DC:321:PHE:HA	1.96	0.65
1:A1:228:G:C5	1:A1:229:U:C4	2.84	0.65
1:A1:448:C:C2'	1:A1:449:C:H6	1.97	0.65
1:C1:243:G:H2'	1:C1:244:A:C8	2.28	0.65
1:A1:1715:G:H2'	1:A1:1716:C:O4'	1.97	0.65
1:C1:1347:U:H5'	15:CN:10:GLU:CA	2.22	0.65
1:C1:1170:G:O6	1:C1:1574:G:C6	2.50	0.65
1:A1:1250:U:N3	1:A1:1251:U:N3	2.45	0.65
29:B1:379:C:H2'	29:B1:380:U:C6	2.31	0.65
29:B1:3209:A:C5	29:B1:3210:A:C6	2.84	0.65
29:B1:3191:G:C4	29:B1:3202:G:N2	2.65	0.65
30:D2:25:G:H2'	30:D2:26:C:C5	2.31	0.65
30:B2:34:C:C2'	30:B2:34:C:O2	2.45	0.65
9:CH:22:SER:C	9:CH:24:ASN:N	2.49	0.65
29:D1:3314:A:C5'	34:DC:119:TYR:H	2.09	0.65
29:D1:3142:A:H5'	29:D1:3143:C:C5	2.31	0.65
29:D1:2515:A:N6	29:D1:2593:A:N7	2.44	0.65
29:B1:1634:G:C6	29:B1:1640:G:O6	2.49	0.65
29:B1:1640:G:C5'	29:B1:1738:C:OP1	2.43	0.65
1:A1:1402:G:C4	1:A1:1403:C:C5	2.84	0.65
29:B1:331:G:N1	29:B1:332:C:C4	2.64	0.65
29:D1:1728:G:H4'	29:D1:1729:A:OP2	1.97	0.65
1:C1:1734:U:C4	1:C1:1735:U:O4	2.49	0.65
29:B1:1748:G:H2'	29:B1:1749:A:C8	2.31	0.65
17:CP:131:SER:C	17:CP:133:LEU:HA	2.16	0.65
1:A1:776:G:N1	1:A1:785:U:C2	2.65	0.65
29:B1:1541:G:H4'	29:B1:1542:G:OP2	1.97	0.65
6:CE:66:ASP:C	6:CE:68:LYS:N	2.50	0.65
42:DK:7:ASN:HA	42:DK:8:PRO:CB	2.26	0.65
29:B1:665:A:O2'	29:B1:666:A:H5'	1.95	0.65
41:BJ:184:LYS:C	41:BJ:186:GLU:H	2.00	0.65
11:CJ:35:PRO:C	11:CJ:37:THR:H	2.00	0.65
9:CH:99:GLN:O	9:CH:103:ARG:CB	2.44	0.65
36:DE:144:VAL:O	36:DE:173:VAL:HA	1.96	0.65
1:A1:1025:A:H2'	1:A1:1027:A:C5'	2.26	0.65
1:A1:1757:G:H2'	1:A1:1758:U:O5'	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:48:G:C6	1:A1:432:G:N2	2.65	0.65
29:B1:219:A:C2	29:B1:1390:A:H2'	2.31	0.65
29:B1:1691:U:H2'	29:B1:1692:U:C6	2.31	0.65
29:B1:190:U:C5	29:B1:224:C:C1'	2.78	0.65
29:B1:1896:A:C4	29:B1:3093:C:C5	2.84	0.65
29:B1:3161:C:O2	29:B1:3161:C:H2'	1.96	0.65
29:B1:3299:A:N3	29:B1:3300:U:C6	2.64	0.65
29:B1:218:G:H1'	29:B1:372:A:H1'	1.78	0.65
29:B1:51:A:O2'	29:B1:52:A:H5'	1.97	0.65
37:BF:157:GLN:C	37:BF:159:LEU:H	1.99	0.65
1:C1:1119:G:O2'	1:C1:1120:U:H5'	1.96	0.65
1:C1:269:G:C4	1:C1:270:C:C5	2.84	0.65
1:C1:295:A:C2	1:C1:296:U:C2	2.84	0.65
1:C1:313:U:C5	1:C1:1118:G:C6	2.85	0.65
1:C1:607:G:H5'	1:C1:613:G:N2	2.11	0.65
29:D1:1338:C:N3	29:D1:1339:C:C5	2.65	0.65
29:D1:1878:G:C8	29:D1:1878:G:H3'	2.31	0.65
29:D1:2254:U:O2	29:D1:2261:G:N2	2.29	0.65
29:D1:2374:C:N4	29:D1:2941:A:O4'	2.29	0.65
29:D1:26:A:H2'	29:D1:27:C:H6	1.59	0.65
29:D1:1199:C:N4	74:D1:3574:OHX:N3	2.45	0.65
29:D1:564:G:H3'	29:D1:565:U:C5	2.30	0.65
29:D1:717:C:C5	29:D1:721:G:OP2	2.50	0.65
29:D1:965:A:N1	29:D1:966:U:C2	2.64	0.65
29:D1:974:G:C4	29:D1:975:C:C5	2.84	0.65
31:D3:109:A:C2	31:D3:114:G:C6	2.85	0.65
34:DC:131:THR:O	34:DC:132:LYS:O	2.15	0.65
1:A1:729:G:C5	1:A1:730:G:C8	2.85	0.65
29:B1:996:A:C6	29:B1:1054:A:C8	2.85	0.65
29:B1:2631:U:O2'	29:B1:2632:G:H5'	1.96	0.65
41:DJ:174:THR:O	41:DJ:175:ASN:C	2.34	0.65
1:A1:139:C:H4'	1:A1:140:A:H4'	1.78	0.65
1:C1:320:U:OP1	1:C1:321:C:H4'	1.95	0.65
1:A1:1455:G:C5	1:A1:1456:C:N3	2.64	0.65
1:A1:1602:C:H2'	1:A1:1602:C:O2	1.96	0.65
29:D1:3196:U:C5	29:D1:3198:U:C5	2.84	0.65
29:B1:2523:A:C4'	29:B1:2524:A:OP1	2.44	0.65
30:B2:25:G:N1	30:B2:26:C:N4	2.43	0.65
29:B1:1616:U:H2'	29:B1:1617:G:C8	2.32	0.65
29:B1:2768:U:C2'	29:B1:2769:A:H5'	2.26	0.65
1:C1:1327:C:H2'	1:C1:1328:G:H5'	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1639:C:H2'	29:B1:1640:G:O5'	1.97	0.65
18:CQ:57:TYR:CB	18:CQ:58:ARG:CA	2.73	0.65
5:AD:153:GLY:HA3	5:AD:154:ALA:CB	2.26	0.65
1:C1:489:C:H2'	1:C1:490:C:C5	2.30	0.65
1:C1:1656:U:C6	1:C1:1656:U:OP2	2.49	0.65
29:D1:835:G:C4	29:D1:857:G:N2	2.64	0.65
29:B1:2129:U:H5''	29:B1:2130:G:OP2	1.97	0.65
29:D1:1018:G:H2'	29:D1:1019:G:C8	2.32	0.65
29:D1:1703:U:H5'	29:D1:1704:A:OP2	1.96	0.65
46:BQ:128:ARG:N	46:BQ:139:TYR:H	1.95	0.65
29:D1:2953:U:H2'	29:D1:2954:U:C6	2.31	0.65
42:BK:134:PRO:O	42:BK:151:SER:O	2.14	0.65
47:DR:31:LYS:O	47:DR:35:PHE:N	2.27	0.65
29:D1:1867:A:H2'	29:D1:1868:G:C8	2.32	0.65
37:BF:61:ASN:HA	37:BF:80:ASN:O	1.96	0.65
13:AL:44:ASN:O	13:AL:48:LYS:CB	2.44	0.65
21:CT:53:LYS:C	21:CT:55:GLY:H	2.00	0.65
29:B1:238:A:OP2	29:B1:238:A:H8	1.80	0.65
1:A1:27:U:C2	1:A1:28:A:C8	2.85	0.65
1:A1:621:A:H1'	1:A1:1107:G:O4'	1.97	0.65
29:B1:2663:G:H3'	29:B1:2664:C:H6	1.62	0.65
29:B1:2892:A:H2'	29:B1:2893:C:H6	1.62	0.65
29:B1:2895:G:O2'	29:B1:2896:A:H5''	1.96	0.65
29:B1:3294:A:N6	29:B1:3295:A:C5	2.65	0.65
29:B1:586:C:C2'	29:B1:586:C:O2	2.42	0.65
29:B1:649:A:C2	29:B1:650:C:C4	2.85	0.65
29:B1:776:U:OP1	29:B1:777:U:OP2	2.14	0.65
29:B1:866:A:H3'	29:B1:867:G:H8	1.59	0.65
31:B3:10:A:N3	31:B3:11:C:C6	2.64	0.65
34:BC:4:ARG:C	34:BC:6:TYR:H	2.00	0.65
38:BG:51:TYR:C	38:BG:53:LYS:H	2.00	0.65
1:C1:119:A:H1'	1:C1:397:A:C8	2.30	0.65
1:C1:1634:C:C6	1:C1:1634:C:P	2.89	0.65
1:C1:512:A:O2'	1:C1:513:U:O5'	2.15	0.65
1:C1:534:A:C2'	1:C1:535:A:C8	2.79	0.65
29:D1:1461:A:C6	29:D1:1462:A:C5	2.85	0.65
29:D1:1605:A:C2	29:D1:1608:C:C6	2.85	0.65
29:D1:161:G:H2'	29:D1:162:G:H8	1.61	0.65
29:D1:2358:A:H2'	29:D1:2359:C:O4'	1.97	0.65
29:D1:3333:G:C2	29:D1:3371:G:C8	2.84	0.65
29:D1:344:A:H2'	29:D1:345:G:O5'	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:889:U:H2'	29:D1:890:C:H6	1.60	0.65
29:D1:935:U:H2'	29:D1:936:A:C8	2.31	0.65
29:D1:962:A:O2'	29:D1:963:G:H5''	1.96	0.65
37:DF:159:LEU:C	37:DF:161:ALA:N	2.49	0.65
29:B1:2619:G:OP1	29:B1:2619:G:H8	1.79	0.65
29:B1:966:U:H2'	29:B1:967:A:H8	1.56	0.65
31:B3:66:A:C6	31:B3:67:U:O4	2.50	0.65
1:A1:176:C:H3'	1:A1:177:U:H6	1.62	0.65
30:D2:60:G:N3	30:D2:61:G:C8	2.65	0.65
29:B1:2676:A:C4'	29:B1:2677:G:C8	2.80	0.65
1:A1:1468:U:HO2'	1:A1:1469:A:C5'	2.09	0.65
1:A1:1560:U:O2	1:A1:1561:U:C5	2.47	0.65
29:B1:3280:U:O2'	29:B1:3281:U:P	2.55	0.65
29:B1:3196:U:C5	29:B1:3198:U:C5	2.85	0.65
30:B2:31:U:C6	30:B2:32:U:C5	2.84	0.65
29:D1:3257:C:O2'	29:D1:3258:U:C5	2.49	0.65
29:D1:3261:C:O5'	29:D1:3262:U:OP1	2.14	0.65
2:AA:171:GLY:O	2:AA:173:ILE:N	2.29	0.65
29:D1:2523:A:C4'	29:D1:2524:A:OP1	2.44	0.65
31:B3:28:C:H2'	31:B3:28:C:O2	1.96	0.65
34:DC:154:TYR:H	34:DC:155:ALA:CB	2.04	0.65
1:A1:1388:A:C6	1:A1:1412:G:C6	2.85	0.65
1:A1:914:G:H5''	74:A1:1937:OHX:N5	2.12	0.65
1:C1:899:G:N2	1:C1:915:A:H2	1.95	0.65
29:B1:2882:U:H2'	29:B1:2883:U:O5'	1.97	0.65
46:BQ:76:PHE:CA	46:BQ:78:VAL:H	2.07	0.65
49:BT:50:LYS:C	49:BT:52:MET:H	1.98	0.65
1:A1:355:G:N2	1:A1:356:G:H1'	2.12	0.65
29:B1:3356:G:H2'	29:B1:3357:U:O5'	1.96	0.65
1:C1:1168:U:C2'	1:C1:1169:G:H5'	2.27	0.65
1:C1:981:U:H1'	1:C1:1124:A:C2	2.30	0.65
47:BR:96:PHE:CA	47:BR:97:PRO:CB	2.73	0.65
29:B1:1018:G:H2'	29:B1:1019:G:C8	2.32	0.65
1:C1:1694:A:H61	1:C1:1708:U:H2'	1.61	0.65
36:BE:20:PHE:O	36:BE:21:ARG:CB	2.45	0.65
29:B1:246:U:H3'	29:B1:247:C:H5''	1.79	0.65
29:B1:1306:G:C6	45:BP:63:ALA:HA	2.31	0.65
4:AC:27:ARG:O	4:AC:29:LEU:N	2.29	0.65
29:B1:790:U:C2	29:B1:791:A:C8	2.84	0.65
45:BP:92:THR:O	45:BP:94:ARG:N	2.29	0.65
50:BU:46:LEU:O	50:BU:47:ASN:CB	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DY:77:LYS:O	54:DY:79:TRP:N	2.29	0.65
1:A1:557:G:P	1:A1:557:G:H3'	2.37	0.65
1:A1:14:C:OP2	3:AB:162:CYS:C	2.35	0.65
29:B1:1120:A:C2	29:B1:1121:U:C4	2.84	0.65
29:B1:1200:A:H3'	29:B1:1200:A:N3	2.12	0.65
29:B1:1661:G:H8	29:B1:1661:G:H5''	1.62	0.65
29:B1:2148:U:O3'	29:B1:2149:A:C8	2.50	0.65
29:B1:2357:A:H2'	29:B1:2358:A:H8	1.62	0.65
29:B1:28:C:H2'	29:B1:28:C:O2	1.95	0.65
29:B1:3308:C:C6	29:B1:3308:C:H3'	2.32	0.65
29:B1:3333:G:N1	29:B1:3370:A:O2'	2.29	0.65
29:B1:3391:A:C2	29:B1:3392:U:C5	2.84	0.65
29:B1:35:A:C6	29:B1:36:C:C5	2.85	0.65
29:B1:28:C:O2'	29:B1:61:A:H1'	1.97	0.65
29:B1:785:G:OP1	29:B1:785:G:O4'	2.15	0.65
35:BD:100:PHE:O	35:BD:102:PRO:N	2.30	0.65
29:B1:40:A:C8	54:BY:30:GLY:O	2.50	0.65
1:C1:100:A:C2	1:C1:101:U:C2	2.84	0.65
1:C1:479:C:H5'	6:CE:124:HIS:CB	2.26	0.65
1:C1:26:A:H2	1:C1:600:U:H3	1.42	0.65
29:D1:121:A:OP2	29:D1:121:A:C4	2.49	0.65
29:D1:1478:C:C6	29:D1:1478:C:C5'	2.80	0.65
29:D1:1541:G:H4'	29:D1:1542:G:OP2	1.97	0.65
29:D1:1662:G:H2'	29:D1:1663:C:H6	1.62	0.65
29:D1:2255:A:OP1	74:D1:3415:OHX:N1	2.29	0.65
29:D1:2186:U:H5''	29:D1:2315:G:OP2	1.96	0.65
29:D1:2841:G:C6	29:D1:2844:C:C4	2.84	0.65
29:D1:2923:U:C2	29:D1:2924:U:C5	2.84	0.65
29:D1:3047:U:HO2'	29:D1:3048:A:H5''	1.61	0.65
29:D1:3087:A:H2'	29:D1:3088:G:C8	2.31	0.65
29:D1:550:A:H2'	29:D1:551:A:H8	1.62	0.65
29:D1:564:G:C3'	29:D1:565:U:C6	2.80	0.65
29:D1:715:A:H3'	54:DY:115:LYS:CA	2.26	0.65
30:B2:77:G:O2'	30:B2:78:U:OP2	2.15	0.65
1:A1:450:U:C2	1:A1:451:A:N7	2.64	0.65
30:D2:112:G:OP2	30:D2:113:C:OP1	2.15	0.65
1:C1:330:G:OP2	1:C1:330:G:C8	2.50	0.65
1:C1:1429:G:C4	1:C1:1430:U:C5	2.84	0.65
1:A1:1364:G:C2'	1:A1:1365:C:H5'	2.26	0.65
1:A1:1178:G:N2	1:A1:1462:G:C4	2.65	0.65
1:A1:1493:A:H2'	1:A1:1493:A:N3	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DN:89:ALA:O	43:DN:90:VAL:C	2.35	0.65
30:D2:25:G:C4	30:D2:26:C:C4	2.85	0.65
29:D1:374:A:C2	29:D1:375:A:C5	2.85	0.65
29:B1:1280:C:H2'	29:B1:1281:G:N7	2.11	0.65
29:D1:3174:A:OP2	29:D1:3174:A:C4'	2.45	0.65
29:D1:3217:C:O2	29:D1:3217:C:H2'	1.95	0.65
29:D1:3280:U:C6	29:D1:3280:U:OP2	2.50	0.65
30:D2:46:A:C6	30:D2:46:A:OP2	2.49	0.65
29:D1:1277:C:H6	29:D1:1277:C:OP2	1.80	0.65
21:AT:301:LEU:O	21:AT:312:VAL:HA	1.97	0.65
29:D1:1625:A:N7	29:D1:1626:U:C6	2.65	0.65
1:A1:1308:G:H2'	1:A1:1309:C:H6	1.61	0.65
1:A1:1663:G:C4	1:A1:1664:C:C5	2.84	0.65
29:B1:3353:G:H3'	29:B1:3354:U:C5'	2.26	0.65
1:C1:763:G:H2'	1:C1:764:U:H6	1.57	0.65
1:C1:1297:G:H2'	1:C1:1299:G:N7	2.12	0.65
29:D1:1750:A:H5'	29:D1:1751:G:C8	2.32	0.65
44:DO:159:ARG:C	44:DO:161:ALA:N	2.50	0.65
1:C1:718:U:H1'	1:C1:719:U:OP1	1.96	0.65
1:C1:695:U:H4'	1:C1:696:C:OP2	1.95	0.65
29:D1:3165:A:C2	29:D1:3286:G:C4	2.85	0.65
31:B3:34:U:O2	31:B3:34:U:C2'	2.45	0.65
29:B1:135:C:H5'	29:B1:136:G:OP2	1.96	0.65
21:AT:255:ALA:HA	21:AT:260:ILE:HA	1.78	0.65
1:A1:1149:G:C4'	1:A1:1150:G:OP1	2.44	0.65
1:A1:11:A:H1'	1:A1:1300:A:O2'	1.96	0.65
1:A1:391:A:H4'	1:A1:1730:A:H4'	1.79	0.65
1:A1:979:A:N3	1:A1:1775:U:O2'	2.28	0.65
29:B1:1130:A:H2'	29:B1:1132:C:C5	2.32	0.65
29:B1:1296:C:H2'	29:B1:1297:C:O5'	1.96	0.65
29:B1:1303:A:N7	29:B1:1304:A:C6	2.65	0.65
29:B1:1479:U:OP2	29:B1:1480:G:C2	2.50	0.65
29:B1:1655:G:N2	29:B1:1801:U:N3	2.45	0.65
29:B1:1878:G:C8	29:B1:1878:G:H3'	2.31	0.65
29:B1:2194:G:C2'	29:B1:2195:C:H5'	2.27	0.65
29:B1:2785:A:C5	29:B1:2786:G:C8	2.84	0.65
29:B1:2934:A:H5''	29:B1:2935:U:OP2	1.97	0.65
29:B1:3133:C:H2'	29:B1:3134:A:O4'	1.96	0.65
29:B1:377:A:H1'	29:B1:392:G:N2	2.12	0.65
29:B1:39:A:H5''	29:B1:40:A:H4'	1.77	0.65
29:B1:682:U:C4	29:B1:699:A:H2	2.15	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3150:A:H5''	34:BC:134:SER:CA	2.24	0.65
35:BD:39:PHE:O	35:BD:42:VAL:N	2.30	0.65
37:BF:21:THR:HA	37:BF:111:LEU:O	1.97	0.65
37:BF:136:GLU:C	37:BF:138:GLN:N	2.50	0.65
54:BY:15:VAL:O	54:BY:17:ALA:HA	1.96	0.65
1:C1:1003:A:N7	1:C1:1005:A:C6	2.65	0.65
1:C1:1042:G:H2'	1:C1:1043:A:O4'	1.96	0.65
1:C1:587:C:H2'	1:C1:588:U:C6	2.32	0.65
1:C1:605:A:N6	1:C1:606:A:N6	2.44	0.65
29:D1:1142:G:H3'	29:D1:1143:A:H5'	1.78	0.65
29:D1:2111:G:H22	51:DV:49:ILE:HA	1.62	0.65
29:D1:2800:G:H5''	29:D1:2801:A:OP1	1.97	0.65
29:D1:2836:C:O2	29:D1:2836:C:H3'	1.97	0.65
29:D1:2909:U:C5	29:D1:2910:A:N7	2.65	0.65
29:D1:3325:G:C2	29:D1:3326:G:C4	2.85	0.65
29:D1:3316:A:N6	29:D1:3387:U:H3	1.94	0.65
29:D1:3386:G:H2'	29:D1:3387:U:H6	1.62	0.65
29:D1:585:A:H3'	29:D1:586:C:C6	2.32	0.65
29:D1:877:C:H6	29:D1:877:C:H3'	1.61	0.65
29:D1:995:U:O2'	29:D1:996:A:P	2.55	0.65
1:A1:224:C:N4	1:A1:837:G:H1	1.95	0.65
1:A1:259:U:C4	1:A1:261:U:O4	2.50	0.65
29:B1:2674:A:H8	42:BK:108:GLU:N	1.94	0.65
1:C1:1347:U:H2'	1:C1:1349:G:C5	2.32	0.65
1:C1:1515:A:H2'	1:C1:1516:A:H5''	1.77	0.65
1:A1:1171:A:H2'	1:A1:1172:G:C8	2.32	0.65
29:B1:3256:G:C6	29:B1:3257:C:C4	2.84	0.65
29:D1:3191:G:N1	29:D1:3202:G:C2	2.65	0.65
31:B3:121:U:H3	31:B3:132:G:H1	1.45	0.65
34:BC:332:ARG:O	34:BC:333:LYS:CB	2.45	0.65
30:B2:1:G:H2'	30:B2:2:G:C8	2.32	0.65
29:D1:1035:G:C4	29:D1:1036:A:C8	2.85	0.65
29:B1:1351:U:O3'	29:B1:1352:A:C8	2.50	0.65
29:D1:2602:G:H2'	29:D1:2603:G:H8	1.62	0.65
73:DM:25:LEU:N	73:DM:191:TYR:HA	2.10	0.65
10:CI:25:LEU:O	10:CI:28:MET:N	2.29	0.65
3:AB:106:ASP:O	3:AB:108:ASN:N	2.27	0.65
29:B1:600:G:N2	29:B1:604:G:C6	2.65	0.65
29:D1:1401:A:H2'	29:D1:1402:C:C6	2.31	0.65
32:BA:53:LEU:CB	32:BA:54:LYS:HA	2.26	0.65
54:BY:85:ASP:H	54:BY:87:ARG:CB	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DD:134:LEU:O	35:DD:137:ALA:N	2.30	0.65
37:DF:164:SER:HA	38:DG:182:ASP:CB	2.26	0.65
8:AG:88:LEU:C	8:AG:90:TYR:H	1.99	0.65
34:DC:236:LYS:O	34:DC:237:LYS:C	2.35	0.65
19:AR:25:VAL:O	19:AR:38:ARG:HA	1.97	0.65
29:D1:2218:G:O2'	29:D1:2219:A:H5'	1.97	0.65
1:A1:1297:G:N1	1:A1:1300:A:OP2	2.30	0.65
1:A1:46:A:N6	1:A1:433:C:H4'	2.12	0.65
29:B1:1220:U:O4'	29:B1:1223:A:H1'	1.97	0.65
29:B1:1376:C:H1'	29:B1:1407:A:H2'	1.79	0.65
29:B1:1505:C:H5''	29:B1:1505:C:C6	2.32	0.65
29:B1:2406:C:H1'	29:B1:2819:A:C6	2.31	0.65
29:B1:284:A:H2	29:B1:306:A:N9	1.94	0.65
29:B1:285:A:N1	29:B1:305:U:O5'	2.30	0.65
29:B1:3079:U:O2	29:B1:3079:U:C2'	2.44	0.65
29:B1:3297:U:N3	29:B1:3298:C:C5	2.65	0.65
29:B1:515:C:H2'	29:B1:516:A:C4'	2.26	0.65
31:B3:114:G:C2'	31:B3:115:C:H5'	2.27	0.65
29:B1:11:A:C2	31:B3:148:G:C6	2.85	0.65
1:C1:55:A:O2'	1:C1:56:U:P	2.54	0.65
1:C1:635:A:H2'	1:C1:636:A:C8	2.31	0.65
29:D1:1107:C:C2	29:D1:1108:U:C5	2.85	0.65
29:D1:1226:G:O4'	29:D1:1226:G:OP1	2.14	0.65
29:D1:1302:A:HO2'	29:D1:2887:A:H2	1.45	0.65
29:D1:1445:U:C5	29:D1:1446:A:N7	2.64	0.65
29:D1:1602:A:C5	29:D1:1603:A:C6	2.84	0.65
29:D1:1900:A:C2	29:D1:1906:G:C8	2.85	0.65
29:D1:19:U:H2'	29:D1:20:A:C8	2.32	0.65
29:D1:2352:A:H2'	29:D1:2353:G:C8	2.32	0.65
29:D1:264:G:C5	29:D1:265:A:C6	2.85	0.65
29:D1:271:C:O2'	29:D1:272:G:O4'	2.15	0.65
29:D1:3311:C:H2'	29:D1:3312:U:O4'	1.98	0.65
29:D1:3376:A:C5'	29:D1:3377:G:H5''	2.27	0.65
29:D1:379:C:C6	29:D1:379:C:H5''	2.27	0.65
29:D1:563:U:H3'	29:D1:564:G:C4'	2.27	0.65
29:D1:569:A:C5	29:D1:570:A:C8	2.85	0.65
29:D1:595:G:C2	29:D1:610:G:OP1	2.49	0.65
44:DO:85:THR:CB	44:DO:88:GLY:H	2.11	0.65
1:A1:832:U:H3'	1:A1:833:U:C5'	2.26	0.65
31:B3:92:A:C2'	31:B3:93:U:H5'	2.25	0.65
1:A1:292:U:H6	1:A1:292:U:O5'	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1684:U:C5	1:A1:1721:A:H2	2.15	0.65
1:A1:115:G:H21	1:A1:334:G:N2	1.94	0.65
1:C1:1251:U:H2'	1:C1:1252:C:O4'	1.96	0.65
1:C1:1454:G:N2	1:C1:1455:G:H1'	2.10	0.65
1:C1:1588:G:C6	1:C1:1589:C:C4	2.85	0.65
1:A1:1474:G:C2	1:A1:1475:A:C5	2.85	0.65
14:AM:67:MET:O	14:AM:69:LYS:N	2.30	0.65
29:B1:3204:C:C2'	29:B1:3205:G:OP1	2.45	0.65
31:D3:28:C:H5'	31:D3:29:U:OP2	1.96	0.65
29:B1:1595:U:H4'	29:B1:1595:U:OP1	1.96	0.65
4:AC:64:ARG:O	4:AC:68:GLU:CB	2.45	0.65
29:B1:69:C:N4	29:B1:70:A:C8	2.64	0.65
29:B1:3225:C:N4	29:B1:3261:C:H42	1.94	0.65
29:D1:3005:A:N3	29:D1:3140:G:N2	2.44	0.65
29:B1:3273:A:H2'	29:B1:3274:A:C4'	2.27	0.65
29:B1:137:G:H3'	29:B1:137:G:C8	2.32	0.65
36:BE:43:LYS:N	49:BT:69:LYS:C	2.50	0.65
49:BT:70:SER:O	49:BT:72:VAL:N	2.26	0.65
1:A1:354:C:H2'	1:A1:355:G:O4'	1.97	0.65
29:B1:1362:G:H2'	29:B1:1363:A:C8	2.31	0.65
1:A1:792:U:H2'	1:A1:792:U:O2	1.97	0.65
29:D1:2768:U:H2'	29:D1:2769:A:H8	1.59	0.65
1:C1:1694:A:H4'	1:C1:1695:G:OP1	1.97	0.65
44:DO:141:ALA:HA	44:DO:144:ARG:CB	2.27	0.65
41:BJ:191:LYS:HA	41:BJ:192:ASP:CB	2.27	0.65
21:AT:53:LYS:C	21:AT:55:GLY:H	2.00	0.65
29:B1:2413:A:C2	29:B1:2414:G:N7	2.65	0.65
4:AC:133:GLY:HA3	4:AC:154:ASP:O	1.98	0.65
1:A1:295:A:C2	1:A1:296:U:C2	2.84	0.64
29:B1:1313:G:C2	29:B1:1314:C:C6	2.85	0.64
29:B1:1504:A:C3'	29:B1:1505:C:H5''	2.28	0.64
29:B1:1680:G:C2	29:B1:1681:U:C6	2.84	0.64
29:B1:2315:G:N2	29:B1:2316:G:C8	2.65	0.64
29:B1:648:C:H5	29:B1:2374:C:O3'	1.80	0.64
29:B1:22:G:C5	29:B1:23:A:C8	2.85	0.64
29:B1:3105:U:C5	29:B1:3106:A:C5	2.85	0.64
29:B1:3153:U:C4	29:B1:3160:U:H1'	2.32	0.64
29:B1:3299:A:C2	29:B1:3300:U:C5	2.85	0.64
29:B1:3309:G:H3'	29:B1:3310:A:H8	1.61	0.64
29:B1:352:A:C4	29:B1:354:U:C5	2.85	0.64
29:B1:421:G:H21	29:B1:2365:C:Cl'	2.05	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:563:U:C2	29:B1:564:G:O4'	2.50	0.64
29:B1:585:A:H3'	29:B1:586:C:C6	2.31	0.64
29:B1:36:C:H4'	29:B1:808:A:C2	2.32	0.64
29:B1:937:G:N2	29:B1:960:U:C5'	2.58	0.64
31:B3:106:C:C4	31:B3:138:A:N6	2.65	0.64
1:C1:274:G:H2'	1:C1:275:C:H6	1.62	0.64
1:C1:364:G:H5'	1:C1:365:G:OP2	1.98	0.64
1:C1:871:G:C6	1:C1:957:G:C6	2.85	0.64
1:C1:871:G:C4	1:C1:872:G:C8	2.85	0.64
29:D1:1128:U:C2'	29:D1:1128:U:O2	2.44	0.64
29:D1:113:C:H2'	29:D1:114:A:H5'	1.78	0.64
29:D1:2254:U:O3'	74:D1:3415:OHX:N2	2.30	0.64
29:D1:2260:U:H2'	29:D1:2261:G:N7	2.13	0.64
29:D1:2650:U:OP2	29:D1:2650:U:C6	2.48	0.64
29:D1:2869:U:O2	29:D1:2869:U:H2'	1.98	0.64
29:D1:2877:G:N7	74:D1:3530:OHX:N1	2.44	0.64
29:D1:3047:U:N3	29:D1:3048:A:C2	2.65	0.64
29:D1:3091:A:O2'	29:D1:3092:C:OP2	2.15	0.64
29:D1:3297:U:N3	29:D1:3298:C:C5	2.65	0.64
29:D1:3328:G:H22	29:D1:3375:A:N6	1.95	0.64
29:D1:344:A:C5	29:D1:345:G:C8	2.85	0.64
29:D1:385:A:N3	29:D1:386:A:C8	2.65	0.64
29:D1:866:A:H8	29:D1:867:G:C8	2.14	0.64
29:D1:965:A:C6	29:D1:966:U:C2	2.84	0.64
31:D3:102:U:H2'	31:D3:103:G:C8	2.32	0.64
29:D1:10:C:H5	31:D3:149:A:H2	1.44	0.64
29:B1:2614:G:C4	29:B1:2797:C:C5	2.85	0.64
34:BC:39:LYS:O	34:BC:41:VAL:N	2.30	0.64
1:A1:257:A:C2'	1:A1:258:C:H5'	2.21	0.64
1:A1:80:A:H3'	1:A1:81:G:H8	1.63	0.64
5:AD:108:LEU:C	5:AD:110:ALA:H	1.99	0.64
1:A1:1241:G:O3'	1:A1:1242:A:H8	1.79	0.64
1:A1:1365:C:H2'	1:A1:1366:U:C4'	2.27	0.64
1:A1:1595:U:H2'	1:A1:1596:C:O2	1.97	0.64
46:DQ:9:THR:HA	46:DQ:14:SER:N	2.10	0.64
29:D1:2687:G:N3	29:D1:2687:G:C3'	2.54	0.64
29:D1:1257:C:H3'	29:D1:1258:U:C6	2.32	0.64
29:D1:1260:A:H1'	29:D1:1280:C:H1'	1.78	0.64
29:D1:1232:C:C4	29:D1:1261:G:C2	2.85	0.64
4:CC:14:ASP:O	4:CC:16:VAL:O	2.15	0.64
29:D1:1097:G:H1'	29:D1:1098:A:O2'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:127:G:O6	1:A1:179:A:C2	2.50	0.64
29:D1:2105:G:H8	29:D1:2105:G:H5'	1.59	0.64
9:AH:22:SER:C	9:AH:24:ASN:N	2.50	0.64
29:D1:2172:A:H1'	33:DB:10:LYS:O	1.97	0.64
29:B1:130:A:C2	29:B1:131:C:N4	2.63	0.64
29:D1:1916:U:H2'	29:D1:1917:C:C6	2.32	0.64
29:B1:1350:A:H3'	29:B1:1351:U:C6	2.31	0.64
29:B1:1351:U:O2	29:B1:1351:U:C2'	2.43	0.64
1:C1:728:U:O2	1:C1:728:U:H2'	1.97	0.64
29:B1:1540:U:C2'	29:B1:1540:U:O2	2.44	0.64
29:B1:2545:C:H2'	29:B1:2546:C:O4'	1.97	0.64
29:D1:67:A:N3	29:D1:317:A:C8	2.65	0.64
29:B1:299:G:H8	29:B1:299:G:O5'	1.78	0.64
3:AB:126:ARG:O	3:AB:128:GLY:N	2.30	0.64
36:BE:238:ASP:O	36:BE:239:ILE:C	2.35	0.64
1:A1:931:C:H3'	1:A1:932:U:H2'	1.79	0.64
5:CD:128:ASN:O	5:CD:130:ILE:N	2.30	0.64
13:AL:27:LYS:HA	13:AL:57:ARG:HA	1.78	0.64
1:A1:906:A:H2'	1:A1:907:A:O4'	1.96	0.64
52:BW:88:MET:C	52:BW:90:ALA:H	2.01	0.64
47:BR:57:ILE:C	47:BR:59:ARG:H	1.99	0.64
52:DW:76:VAL:O	52:DW:132:ALA:HB1	1.97	0.64
45:DP:119:VAL:O	45:DP:120:VAL:O	2.15	0.64
1:A1:528:U:C4'	1:A1:529:A:O4'	2.45	0.64
1:A1:595:G:H2'	1:A1:596:C:C6	2.33	0.64
29:B1:1129:A:N6	29:B1:1130:A:H61	1.94	0.64
29:B1:1553:U:H1'	29:B1:1582:C:H5	1.63	0.64
29:B1:200:C:H5'	29:B1:221:A:N3	2.12	0.64
29:B1:2369:G:C6	29:B1:2370:G:C6	2.85	0.64
29:B1:2894:C:H2'	29:B1:2895:G:H8	1.61	0.64
29:B1:3058:U:O2'	29:B1:3059:G:OP1	2.16	0.64
29:B1:313:A:H2'	29:B1:314:U:C6	2.31	0.64
29:B1:680:G:H5''	29:B1:681:U:OP2	1.96	0.64
29:B1:716:A:H8	29:B1:716:A:H3'	1.62	0.64
29:B1:724:U:H2'	29:B1:725:G:C8	2.32	0.64
31:B3:144:G:O2'	31:B3:145:U:H5'	1.98	0.64
31:B3:19:C:C6	31:B3:20:U:C5	2.84	0.64
29:B1:3329:U:O3'	34:BC:366:GLY:HA3	1.98	0.64
34:BC:4:ARG:HA	34:BC:6:TYR:O	1.98	0.64
1:C1:168:A:H2'	1:C1:169:A:C8	2.31	0.64
1:C1:177:U:OP2	1:C1:177:U:H6	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:296:U:H2'	1:C1:297:U:N1	2.12	0.64
1:C1:396:G:C2'	1:C1:397:A:O5'	2.44	0.64
1:C1:619:A:O5'	1:C1:620:A:OP2	2.14	0.64
1:C1:80:A:H3'	1:C1:81:G:H8	1.62	0.64
29:D1:1106:G:C6	29:D1:1107:C:C4	2.84	0.64
29:D1:507:U:H4'	29:D1:1167:U:OP1	1.97	0.64
29:D1:1535:A:C8	29:D1:1536:G:C8	2.86	0.64
29:D1:2743:A:C6	29:D1:2751:G:C6	2.85	0.64
29:D1:2932:U:O2	29:D1:2934:A:OP2	2.13	0.64
29:D1:3086:A:H2'	29:D1:3087:A:O4'	1.97	0.64
29:D1:3126:C:C4	29:D1:3127:A:N7	2.65	0.64
29:D1:312:C:H2'	29:D1:313:A:C8	2.31	0.64
29:D1:515:C:C4	29:D1:516:A:N7	2.65	0.64
29:D1:523:A:H2'	29:D1:524:U:C5'	2.24	0.64
29:D1:573:C:C2'	29:D1:574:U:H5'	2.27	0.64
29:D1:702:C:C2	29:D1:703:G:C8	2.85	0.64
29:D1:720:A:H4'	29:D1:721:G:OP2	1.96	0.64
31:D3:106:C:N1	31:D3:138:A:N7	2.44	0.64
31:D3:72:A:H61	31:D3:85:G:C5'	2.11	0.64
31:D3:74:U:H1'	31:D3:89:A:N7	2.12	0.64
1:A1:686:C:C2'	1:A1:687:G:C8	2.71	0.64
31:B3:72:A:H61	31:B3:85:G:C5'	2.10	0.64
31:B3:72:A:H62	31:B3:85:G:H21	1.45	0.64
1:A1:169:A:C4	1:A1:171:A:N7	2.65	0.64
1:A1:207:U:C2	1:A1:208:U:C5	2.85	0.64
1:A1:209:U:C2	1:A1:210:A:C8	2.86	0.64
1:C1:250:C:N3	1:C1:251:A:N7	2.45	0.64
1:C1:1177:C:H2'	1:C1:1178:G:O4'	1.96	0.64
1:C1:1216:C:H4'	1:C1:1217:A:H5'	1.77	0.64
1:C1:1244:A:C2	1:C1:1245:G:C8	2.85	0.64
1:C1:1515:A:H2'	1:C1:1516:A:C5'	2.27	0.64
1:C1:1538:U:H3'	1:C1:1538:U:H6	1.62	0.64
1:A1:1196:A:H5''	1:A1:1196:A:N3	2.12	0.64
1:A1:1618:C:H5'	1:A1:1619:C:OP2	1.98	0.64
11:AJ:127:LYS:HA	11:AJ:134:ALA:H	1.62	0.64
29:B1:3211:C:O2	29:B1:3211:C:C2'	2.43	0.64
30:B2:42:A:H2	30:B2:47:C:C5	2.15	0.64
29:D1:221:A:C4	29:D1:224:C:N4	2.65	0.64
29:D1:3313:U:O2'	29:D1:3314:A:H8	1.76	0.64
29:B1:2554:A:H4'	29:B1:2555:G:O5'	1.96	0.64
34:BC:51:ALA:CB	34:BC:78:VAL:O	2.42	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:331:G:C6	31:B3:33:A:N1	2.66	0.64
29:B1:1666:G:H2'	29:B1:1667:A:C8	2.32	0.64
29:B1:1933:A:H2'	29:B1:1934:G:H5'	1.79	0.64
29:B1:2119:A:C5	29:B1:2120:A:C2	2.86	0.64
29:B1:1864:A:H3'	29:B1:1865:A:H8	1.62	0.64
6:AE:71:PHE:O	6:AE:75:ALA:CB	2.46	0.64
5:CD:63:GLN:O	5:CD:92:ARG:HA	1.97	0.64
29:B1:269:G:C6	29:B1:294:U:H5	2.14	0.64
29:B1:271:C:C5	29:B1:295:A:N7	2.65	0.64
29:D1:173:G:H2'	29:D1:174:C:C6	2.33	0.64
1:A1:930:A:H5''	1:A1:931:C:OP2	1.96	0.64
29:D1:730:C:H2'	29:D1:731:U:H5'	1.77	0.64
16:CO:37:PHE:O	16:CO:39:GLN:N	2.30	0.64
1:A1:17:C:H2'	1:A1:18:C:C6	2.32	0.64
1:A1:814:A:C5	1:A1:816:G:C2	2.84	0.64
29:B1:1328:C:H2'	29:B1:1329:U:C6	2.32	0.64
29:B1:1368:U:O2'	29:B1:1369:A:H5'	1.98	0.64
29:B1:145:G:N3	29:B1:145:G:H2'	2.13	0.64
29:B1:2308:C:H2'	29:B1:2309:A:C8	2.31	0.64
29:B1:2363:A:C2	29:B1:2376:G:C5	2.85	0.64
29:B1:2868:U:H2'	29:B1:2869:U:H6	1.61	0.64
29:B1:2895:G:C2'	29:B1:2896:A:H5''	2.27	0.64
29:B1:504:A:C6	29:B1:505:G:C6	2.85	0.64
29:B1:748:U:O2	29:B1:748:U:H2'	1.95	0.64
44:BO:53:TYR:O	44:BO:55:ALA:N	2.30	0.64
1:C1:1745:G:O2'	1:C1:1746:A:C8	2.47	0.64
1:C1:1764:C:H2'	1:C1:1767:G:N7	2.12	0.64
1:C1:207:U:N3	1:C1:208:U:C5	2.65	0.64
1:C1:26:A:H2	1:C1:600:U:N3	1.95	0.64
1:C1:940:A:H2'	1:C1:941:A:H8	1.61	0.64
1:C1:14:C:H5'	3:CB:164:SER:H	1.63	0.64
29:D1:1199:C:N3	74:D1:3574:OHX:N6	2.45	0.64
29:D1:1341:U:H2'	29:D1:1342:C:C6	2.31	0.64
29:D1:1435:A:C5'	29:D1:1436:U:H5''	2.19	0.64
29:D1:1559:A:H2'	29:D1:1560:G:H5'	1.79	0.64
29:D1:1696:A:C2	29:D1:1697:A:C6	2.85	0.64
29:D1:1793:C:C1'	29:D1:1794:G:OP1	2.44	0.64
29:D1:1939:G:H2'	29:D1:1940:G:H5'	1.78	0.64
29:D1:2280:A:C5	29:D1:2282:U:H5	2.14	0.64
29:D1:2716:U:H3'	29:D1:2717:U:C5'	2.26	0.64
29:D1:2858:U:H2'	29:D1:2859:U:C6	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3045:G:H2'	29:D1:3046:A:O5'	1.95	0.64
29:D1:597:G:H2'	29:D1:598:A:O4'	1.97	0.64
29:D1:611:A:C5'	29:D1:612:U:OP1	2.45	0.64
29:D1:968:G:H2'	29:D1:969:C:H6	1.61	0.64
34:DC:50:LYS:CB	34:DC:331:ASN:O	2.45	0.64
1:C1:742:U:HO2'	1:C1:744:U:H5	1.45	0.64
1:A1:250:C:H2'	1:A1:251:A:C8	2.32	0.64
1:C1:1367:G:H5''	1:C1:1368:G:OP2	1.96	0.64
1:C1:1503:A:H2'	1:C1:1504:G:H5'	1.79	0.64
1:A1:1378:U:C5'	1:A1:1379:C:C6	2.77	0.64
1:A1:1612:U:H3'	1:A1:1613:U:H5''	1.79	0.64
1:A1:1614:A:H2'	1:A1:1615:C:H5''	1.79	0.64
1:A1:1584:G:H8	11:AJ:123:ARG:H	1.38	0.64
29:D1:3181:C:H1'	45:DP:167:TYR:CB	2.27	0.64
29:B1:1234:G:C5	29:B1:1235:U:H2'	2.31	0.64
29:D1:3219:G:OP1	29:D1:3220:G:C5'	2.44	0.64
29:D1:3228:C:H2'	29:D1:3229:G:C8	2.33	0.64
29:D1:3262:U:C2'	29:D1:3263:G:H8	2.11	0.64
30:B2:25:G:C4	30:B2:26:C:C4	2.84	0.64
4:CC:95:GLY:O	4:CC:96:LEU:CB	2.45	0.64
29:B1:2172:A:H1'	33:BB:10:LYS:O	1.98	0.64
1:A1:883:C:N4	1:A1:945:U:H3	1.94	0.64
29:D1:1680:G:C4	29:D1:1681:U:C6	2.86	0.64
1:A1:1733:C:C4	1:A1:1734:U:C4	2.84	0.64
9:AH:63:ALA:O	9:AH:65:GLN:N	2.30	0.64
29:D1:1715:A:H3'	29:D1:1716:U:C5'	2.24	0.64
54:BY:129:PHE:CB	54:BY:130:VAL:CB	2.75	0.64
42:BK:84:LEU:HA	42:BK:89:TYR:CB	2.27	0.64
43:BN:22:LEU:O	43:BN:23:ILE:CB	2.45	0.64
29:D1:1042:U:H2'	29:D1:1043:C:C6	2.32	0.64
29:D1:1492:G:H3'	29:D1:1493:G:H21	1.61	0.64
14:AM:60:SER:O	14:AM:62:ALA:N	2.30	0.64
1:A1:1694:A:H4'	1:A1:1695:G:OP1	1.96	0.64
17:CP:104:LEU:O	17:CP:105:ALA:HB2	1.96	0.64
1:C1:710:U:O2	1:C1:729:G:C2	2.51	0.64
1:A1:926:A:C2'	1:A1:927:C:H5'	2.27	0.64
54:BY:73:LEU:HA	54:BY:116:GLY:HA3	1.80	0.64
12:AK:58:MET:HA	12:AK:63:LYS:H	1.61	0.64
42:BK:101:ASN:O	42:BK:103:GLY:N	2.30	0.64
29:D1:2568:C:O2'	29:D1:2569:A:H4'	1.97	0.64
10:CI:73:PRO:O	10:CI:74:ALA:HB2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DH:93:LEU:O	39:DH:94:PHE:C	2.36	0.64
48:BS:151:ARG:HA	48:BS:154:ALA:HB3	1.79	0.64
35:BD:85:SER:C	35:BD:87:GLN:H	2.01	0.64
1:A1:1147:A:H2'	1:A1:1148:C:C6	2.31	0.64
1:A1:1777:G:C5	1:A1:1778:G:N7	2.66	0.64
1:A1:544:A:O2'	1:A1:545:A:P	2.55	0.64
1:A1:986:G:N3	1:A1:987:G:C8	2.65	0.64
29:B1:1178:G:C2'	29:B1:1179:A:H5'	2.28	0.64
29:B1:1192:C:P	29:B1:1192:C:C3'	2.73	0.64
29:B1:2288:G:C6	29:B1:2289:U:O4	2.50	0.64
29:B1:2300:G:O2'	29:B1:2328:U:H1'	1.97	0.64
29:B1:43:A:C6	29:B1:2802:A:H2	2.15	0.64
29:B1:3006:A:C2	29:B1:3141:A:C2	2.85	0.64
29:B1:3323:A:C6	29:B1:3324:C:C4	2.86	0.64
29:B1:532:A:H2'	29:B1:533:A:C8	2.33	0.64
29:B1:582:G:C2	29:B1:583:G:C8	2.85	0.64
37:BF:20:LYS:C	37:BF:112:THR:HA	2.16	0.64
1:C1:617:U:O4'	1:C1:1031:U:C2	2.50	0.64
1:C1:518:A:H8	1:C1:519:C:C5'	2.10	0.64
1:C1:571:G:N3	1:C1:571:G:H2'	2.12	0.64
1:C1:594:A:H4'	1:C1:595:G:OP1	1.96	0.64
1:C1:989:U:C2'	1:C1:990:C:C6	2.79	0.64
3:CB:163:GLY:O	3:CB:165:VAL:N	2.31	0.64
29:D1:1174:G:H1'	29:D1:1181:U:N3	2.13	0.64
29:D1:1616:U:H2'	29:D1:1617:G:C8	2.31	0.64
29:D1:19:U:H2'	29:D1:20:A:N7	2.12	0.64
29:D1:2290:C:C2	29:D1:2303:A:C2	2.85	0.64
29:D1:258:G:H2'	29:D1:258:G:OP2	1.97	0.64
29:D1:3028:G:C2	29:D1:3029:A:C2	2.86	0.64
29:D1:540:U:C2	29:D1:541:U:C5	2.85	0.64
29:D1:518:G:N2	29:D1:572:A:H61	1.95	0.64
29:D1:779:G:H8	29:D1:779:G:H3'	1.61	0.64
29:D1:407:A:N1	31:D3:17:A:H1'	2.12	0.64
31:D3:123:G:H5''	74:D3:205:OHX:N5	2.13	0.64
31:D3:72:A:C4	31:D3:88:A:N1	2.66	0.64
31:B3:55:U:H2'	31:B3:56:G:C8	2.23	0.64
1:A1:183:U:C4'	1:A1:184:C:OP1	2.46	0.64
30:D2:12:U:C2'	30:D2:13:A:N1	2.60	0.64
1:C1:1265:G:H2'	1:C1:1266:U:O4'	1.97	0.64
1:C1:1521:G:H5'	1:C1:1523:G:P	2.37	0.64
1:A1:1449:U:H2'	1:A1:1450:U:H6	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1567:U:H2'	1:A1:1568:C:O4'	1.97	0.64
1:A1:1609:U:H6	1:A1:1609:U:C5'	2.11	0.64
29:B1:3218:A:N3	29:B1:3218:A:O2'	2.30	0.64
31:D3:29:U:C2	31:D3:30:C:H5	2.16	0.64
1:C1:1391:A:H5''	1:C1:1392:U:OP2	1.97	0.64
29:D1:2510:U:N3	29:D1:2511:A:C8	2.66	0.64
29:D1:2234:G:O6	74:D1:3473:OHX:N6	2.30	0.64
29:D1:3069:G:C2	29:D1:3070:A:C8	2.86	0.64
36:DE:111:GLN:H	36:DE:115:LEU:N	1.96	0.64
49:DT:68:THR:O	49:DT:70:SER:N	2.30	0.64
30:D2:1:G:H2'	30:D2:2:G:C8	2.33	0.64
1:C1:1283:U:C2	1:C1:1284:C:H5	2.15	0.64
31:D3:157:U:H2'	31:D3:158:U:H5''	1.79	0.64
29:B1:1352:A:H3'	29:B1:1353:U:H4'	1.79	0.64
5:CD:191:ALA:O	5:CD:195:ALA:N	2.28	0.64
1:A1:760:A:H2'	1:A1:761:G:H5'	1.78	0.64
1:C1:1068:C:H2'	1:C1:1069:A:C8	2.32	0.64
45:DP:56:ASP:O	45:DP:58:LEU:O	2.16	0.64
7:CF:110:HIS:CA	7:CF:111:VAL:CB	2.76	0.64
46:BQ:31:GLU:O	46:BQ:35:ALA:HB2	1.96	0.64
44:DO:54:LYS:O	44:DO:56:LYS:N	2.30	0.64
13:CL:27:LYS:HA	13:CL:57:ARG:HA	1.79	0.64
21:AT:240:VAL:HA	21:AT:256:THR:HA	1.77	0.64
1:A1:469:C:N3	1:A1:469:C:OP1	2.29	0.64
29:B1:1454:A:C5'	29:B1:1878:G:N1	2.60	0.64
29:B1:1524:A:C1'	29:B1:1525:G:OP1	2.45	0.64
29:B1:1529:A:P	29:B1:1592:G:H22	2.20	0.64
29:B1:211:A:H5'	29:B1:229:G:O2'	1.97	0.64
29:B1:1302:A:N3	29:B1:2887:A:C2	2.65	0.64
29:B1:416:A:C2	29:B1:417:A:C5	2.86	0.64
29:B1:545:U:H2'	29:B1:546:C:C5	2.33	0.64
29:B1:597:G:C2	29:B1:607:A:C2	2.86	0.64
29:B1:760:G:O2'	29:B1:761:A:O4'	2.14	0.64
29:B1:836:A:C5	29:B1:837:A:N7	2.66	0.64
29:B1:9:U:O2	29:B1:9:U:H3'	1.96	0.64
1:C1:1107:G:O2'	1:C1:1108:G:P	2.54	0.64
1:C1:1113:A:O3'	1:C1:1114:G:H4'	1.97	0.64
1:C1:1728:A:C5	1:C1:1729:C:C5	2.86	0.64
1:C1:198:A:O2'	1:C1:199:G:O4'	2.15	0.64
1:C1:481:A:H2'	1:C1:482:U:C6	2.33	0.64
1:C1:545:A:C5	1:C1:594:A:N7	2.66	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:963:A:O2'	1:C1:964:U:P	2.55	0.64
29:D1:11:A:O4'	29:D1:1557:A:N6	2.31	0.64
29:D1:1286:A:C4'	29:D1:1287:A:H5'	2.27	0.64
29:D1:1443:G:O2'	29:D1:1444:G:H5'	1.97	0.64
29:D1:1446:A:OP1	29:D1:2984:C:H5''	1.97	0.64
29:D1:1653:G:C2'	29:D1:1654:A:H5'	2.27	0.64
29:D1:1655:G:N2	29:D1:1801:U:C4	2.66	0.64
29:D1:2149:A:C8	29:D1:2149:A:H3'	2.33	0.64
29:D1:2269:U:N3	29:D1:2272:G:N1	2.40	0.64
29:D1:2371:G:H5''	29:D1:2372:A:OP2	1.97	0.64
29:D1:995:U:N3	29:D1:2637:A:C8	2.66	0.64
29:D1:3012:A:N1	29:D1:3043:C:C2	2.65	0.64
29:D1:3094:A:H2'	29:D1:3095:U:C6	2.32	0.64
29:D1:3392:U:C4	29:D1:3393:U:C4	2.82	0.64
29:D1:344:A:C2	29:D1:345:G:C1'	2.80	0.64
29:D1:37:U:H2'	29:D1:37:U:O2	1.97	0.64
29:D1:384:A:C5	29:D1:1465:A:C2	2.85	0.64
29:D1:593:C:N3	29:D1:594:U:O2'	2.30	0.64
31:D3:114:G:O2'	31:D3:115:C:H5'	1.97	0.64
31:D3:13:A:C2	31:D3:14:C:C2	2.85	0.64
31:D3:72:A:H62	31:D3:85:G:N2	1.95	0.64
1:A1:650:U:C4	1:A1:684:A:N6	2.65	0.64
29:B1:2631:U:H2'	29:B1:2632:G:H8	1.63	0.64
29:B1:956:U:H1'	29:B1:2729:U:O4	1.97	0.64
31:B3:74:U:H1'	31:B3:89:A:N7	2.13	0.64
30:D2:10:C:HO2'	30:D2:13:A:H8	1.43	0.64
1:C1:321:C:H2'	1:C1:322:G:H5'	1.80	0.64
1:A1:331:A:H2'	1:A1:331:A:N3	2.12	0.64
1:C1:1250:U:N3	1:C1:1251:U:N3	2.45	0.64
1:C1:1472:C:H5'	1:C1:1474:G:H1'	1.79	0.64
1:C1:1558:U:H3'	1:C1:1559:A:C5'	2.27	0.64
29:B1:3176:G:O2'	29:B1:3177:G:H5''	1.98	0.64
29:B1:3191:G:C6	29:B1:3192:U:C2	2.85	0.64
29:D1:199:A:N3	29:D1:201:A:C8	2.66	0.64
36:BE:77:ALA:O	36:BE:78:ALA:HB2	1.97	0.64
29:D1:3356:G:H2'	29:D1:3357:U:O5'	1.97	0.64
29:D1:126:U:C2	29:D1:127:G:C8	2.86	0.64
29:B1:1731:A:C6	29:B1:1732:U:C2	2.85	0.64
30:D2:91:G:C6	30:D2:92:A:C5	2.85	0.64
1:A1:1657:U:N3	74:A1:1949:OHX:N2	2.43	0.64
29:D1:3271:G:C4	29:D1:3271:G:H3'	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1281:G:C4	1:C1:1282:U:C5	2.84	0.64
10:CI:17:TYR:CB	10:CI:18:ARG:CB	2.75	0.64
29:D1:1357:G:C4	29:D1:1358:C:C5	2.86	0.64
40:DI:7:GLU:HA	40:DI:56:ALA:HA	1.79	0.64
29:B1:2571:U:H3'	29:B1:2572:C:C6	2.33	0.64
73:DM:102:SER:C	73:DM:104:ARG:H	2.00	0.64
40:BI:161:LEU:O	40:BI:164:ILE:N	2.31	0.64
1:A1:977:A:C6	1:A1:1025:A:N3	2.66	0.64
1:A1:1042:G:H2'	1:A1:1043:A:C8	2.33	0.64
1:A1:29:U:O2'	1:A1:30:G:H5'	1.97	0.64
1:A1:985:G:C6	1:A1:986:G:C6	2.85	0.64
1:A1:985:G:C4	1:A1:986:G:N7	2.65	0.64
29:B1:1212:A:H2'	29:B1:1213:G:C5'	2.10	0.64
29:B1:1453:A:C1'	29:B1:1850:A:H2	2.09	0.64
29:B1:2113:A:C2'	29:B1:2114:C:C5'	2.76	0.64
29:B1:2137:U:N3	29:B1:2141:U:C5	2.65	0.64
29:B1:2253:G:C5	29:B1:2254:U:C4	2.86	0.64
29:B1:648:C:O2	29:B1:2397:A:O4'	2.14	0.64
29:B1:2912:G:C6	29:B1:2913:C:C2	2.85	0.64
29:B1:3139:A:C8	29:B1:3139:A:H5'	2.28	0.64
29:B1:3300:U:O2	29:B1:3300:U:H2'	1.96	0.64
29:B1:506:U:O2'	29:B1:1166:G:H4'	1.97	0.64
29:B1:515:C:C4	29:B1:516:A:N7	2.65	0.64
29:B1:594:U:O4	29:B1:595:G:N1	2.30	0.64
29:B1:609:G:C8	29:B1:610:G:N1	2.65	0.64
29:B1:636:C:H5	29:B1:2378:C:C1'	2.10	0.64
29:B1:715:A:O5'	29:B1:715:A:H8	1.81	0.64
29:B1:770:G:H3'	29:B1:771:A:H5''	1.79	0.64
31:B3:157:U:H2'	31:B3:158:U:H5''	1.79	0.64
29:B1:3010:U:O4'	34:BC:15:GLY:HA3	1.98	0.64
1:C1:1142:A:C2	1:C1:1143:A:C4	2.85	0.64
1:C1:426:G:H2'	1:C1:427:C:H5''	1.78	0.64
1:C1:44:U:H3'	1:C1:45:U:C5'	2.27	0.64
1:C1:34:G:O6	1:C1:474:A:H2	1.80	0.64
1:C1:515:A:OP1	74:C1:1933:OHX:N4	2.31	0.64
1:C1:861:U:H5	1:C1:862:A:C8	2.13	0.64
29:D1:1523:U:H5'	52:DW:113:LEU:CB	2.28	0.64
29:D1:31:C:O2	29:D1:1546:A:H2	1.81	0.64
29:D1:1529:A:P	29:D1:1592:G:H22	2.21	0.64
29:D1:1599:G:C2	29:D1:1600:U:O2	2.51	0.64
29:D1:1846:C:O2	29:D1:1846:C:C2'	2.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2144:A:C4	29:D1:2281:A:C6	2.85	0.64
29:D1:648:C:C5	29:D1:2375:G:O5'	2.50	0.64
29:D1:258:G:C2	29:D1:259:C:C6	2.86	0.64
29:D1:2703:A:H3'	29:D1:2704:A:C5'	2.28	0.64
29:D1:2931:C:C4	29:D1:2932:U:H5	2.15	0.64
29:D1:3011:A:H5''	29:D1:3011:A:N3	2.12	0.64
29:D1:3064:U:C2	29:D1:3065:G:C8	2.86	0.64
29:D1:339:C:H2'	29:D1:340:C:H5''	1.78	0.64
29:D1:380:U:H2'	29:D1:381:U:C6	2.33	0.64
29:D1:40:A:C5	29:D1:937:G:C6	2.85	0.64
29:D1:592:A:OP2	29:D1:592:A:C8	2.51	0.64
29:B1:2621:G:H2'	29:B1:2622:C:C6	2.33	0.64
30:B2:14:U:H6	30:B2:14:U:O5'	1.81	0.64
1:A1:210:A:H2'	1:A1:211:U:C6	2.33	0.64
1:A1:249:U:H3'	1:A1:250:C:C5'	2.25	0.64
1:C1:1379:C:O2	1:C1:1379:C:H2'	1.96	0.64
1:C1:1431:C:C4'	1:C1:1432:U:H5'	2.28	0.64
1:A1:1243:G:H2'	1:A1:1244:A:N7	2.13	0.64
1:A1:1267:G:H21	1:A1:1448:G:C5'	2.10	0.64
29:B1:3209:A:C6	29:B1:3210:A:C6	2.85	0.64
29:B1:3199:G:C2'	29:B1:3200:G:C8	2.80	0.64
29:D1:1394:A:H2'	29:D1:1395:G:O5'	1.98	0.64
29:D1:189:G:C2	29:D1:191:U:O4	2.50	0.64
29:D1:2587:U:H2'	29:D1:2588:U:O4'	1.97	0.64
36:BE:141:PRO:C	36:BE:143:LYS:H	1.99	0.64
1:C1:127:G:O6	1:C1:179:A:C2	2.50	0.64
29:D1:1685:C:C5	29:D1:3069:G:N2	2.62	0.64
43:DN:48:GLY:O	43:DN:49:PRO:C	2.34	0.64
1:C1:1579:U:H2'	1:C1:1580:C:H6	1.58	0.64
29:B1:1745:C:H2'	29:B1:1746:U:C6	2.33	0.64
38:BG:80:GLN:CA	38:BG:81:HIS:CB	2.76	0.64
29:D1:2881:C:O2'	29:D1:2882:U:O4'	2.07	0.64
43:BN:9:ALA:O	43:BN:10:SER:CB	2.44	0.64
44:DO:157:LYS:C	44:DO:159:ARG:H	2.00	0.64
29:B1:271:C:O2'	29:B1:272:G:O4'	2.16	0.64
29:B1:1470:U:C2	29:B1:1471:U:C5	2.85	0.64
10:AI:25:LEU:O	10:AI:28:MET:N	2.28	0.64
40:DI:86:TYR:CB	40:DI:87:LYS:CA	2.75	0.64
1:A1:929:A:H5''	1:A1:930:A:OP2	1.97	0.64
2:CA:198:MET:O	2:CA:200:ASP:HA	1.98	0.64
42:DK:65:ILE:O	42:DK:66:ALA:HB2	1.95	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1139:A:C2	1:A1:1140:G:H1'	2.32	0.64
1:A1:1147:A:C2	1:A1:1148:C:C2	2.86	0.64
1:A1:1778:G:C6	1:A1:1779:U:C4	2.86	0.64
1:A1:363:G:C2	1:A1:364:G:H1'	2.31	0.64
29:B1:1209:G:C5	29:B1:1210:U:C4	2.86	0.64
29:B1:1452:A:H5'	29:B1:1453:A:OP1	1.98	0.64
29:B1:1659:U:C4	29:B1:1660:C:N4	2.66	0.64
29:B1:2148:U:H3'	29:B1:2187:G:N2	2.13	0.64
29:B1:2149:A:H8	29:B1:2149:A:H3'	1.63	0.64
29:B1:2182:A:C2	29:B1:2183:A:C8	2.85	0.64
29:B1:2301:U:H2'	29:B1:2302:G:C8	2.32	0.64
29:B1:1895:A:C2	29:B1:2341:A:C2	2.85	0.64
29:B1:258:G:H2'	29:B1:258:G:OP2	1.98	0.64
29:B1:3129:A:H5''	29:B1:3130:A:OP2	1.98	0.64
29:B1:3317:U:P	29:B1:3317:U:H3'	2.38	0.64
29:B1:3363:U:C5	29:B1:3364:C:H1'	2.31	0.64
29:B1:959:C:H41	29:B1:2801:A:H5''	1.63	0.64
29:B1:3314:A:H2'	34:BC:119:TYR:O	1.96	0.64
1:C1:143:G:C4	1:C1:144:U:H1'	2.33	0.64
1:C1:1633:A:O3'	1:C1:1634:C:C5	2.51	0.64
1:C1:206:A:H2'	1:C1:207:U:H6	1.62	0.64
1:C1:286:C:H2'	1:C1:287:G:C8	2.33	0.64
1:C1:287:G:C6	1:C1:288:A:C6	2.85	0.64
1:C1:361:C:C2	1:C1:384:G:N2	2.65	0.64
1:C1:938:G:N2	1:C1:942:G:C5	2.66	0.64
1:C1:967:A:O2'	1:C1:968:U:H5'	1.97	0.64
29:D1:1843:C:N3	29:D1:1844:C:C5	2.66	0.64
29:D1:2269:U:C4	29:D1:2272:G:N1	2.65	0.64
29:D1:2353:G:C4	29:D1:2354:C:C6	2.86	0.64
29:D1:2612:U:H1'	29:D1:2803:A:C2	2.32	0.64
29:D1:2847:A:C4	29:D1:2848:G:C8	2.86	0.64
29:D1:3148:U:H2'	29:D1:3149:G:C8	2.32	0.64
29:D1:557:A:C8	29:D1:557:A:O5'	2.50	0.64
29:D1:559:A:C2'	29:D1:560:G:H8	2.11	0.64
29:D1:575:G:H2'	29:D1:576:C:H6	1.57	0.64
1:C1:824:G:H5''	1:C1:825:U:H5'	1.78	0.64
1:A1:177:U:C6	1:A1:177:U:OP2	2.50	0.64
30:D2:73:C:N4	30:D2:74:C:H41	1.95	0.64
1:C1:1720:G:H2'	1:C1:1721:A:C5'	2.28	0.64
1:C1:302:U:H2'	1:C1:303:U:H5'	1.78	0.64
1:A1:1594:G:O6	1:A1:1595:U:N3	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1066:C:C4	1:C1:1067:C:C5	2.86	0.64
29:B1:381:U:C2	29:B1:388:G:N1	2.66	0.64
29:B1:3209:A:H2'	29:B1:3210:A:C8	2.33	0.64
29:D1:618:C:O2'	29:D1:619:A:H5'	1.96	0.64
29:D1:3201:C:N3	29:D1:3202:G:C5	2.65	0.64
29:D1:1393:A:H2	29:D1:1394:A:N9	1.95	0.64
29:B1:2431:C:H2'	29:B1:2432:A:C8	2.32	0.64
29:B1:1627:U:H3'	29:B1:1628:C:O4'	1.98	0.64
34:BC:50:LYS:CB	34:BC:331:ASN:O	2.46	0.64
29:D1:645:A:C5	29:D1:649:A:N7	2.65	0.64
29:B1:2883:U:C2	29:B1:2884:C:C5	2.86	0.64
36:DE:199:ILE:O	36:DE:201:GLY:CA	2.46	0.64
45:DP:114:LYS:O	45:DP:115:LYS:CB	2.45	0.64
45:BP:169:ALA:O	45:BP:172:ARG:N	2.29	0.64
29:D1:1820:U:OP2	29:D1:1820:U:H2'	1.97	0.64
29:B1:1820:U:H2'	29:B1:1820:U:OP2	1.98	0.64
43:DN:124:ARG:O	43:DN:126:GLN:N	2.30	0.64
41:BJ:175:ASN:CB	41:BJ:176:LEU:HA	2.27	0.64
8:AG:137:PRO:O	8:AG:141:TYR:N	2.31	0.64
29:D1:2179:C:O2	33:DB:129:ALA:O	2.15	0.64
36:BE:40:HIS:HA	36:BE:41:LYS:O	1.97	0.64
1:A1:105:A:N1	74:A1:1910:OHX:N3	2.45	0.64
1:A1:1107:G:O2'	1:A1:1108:G:P	2.55	0.64
1:A1:362:G:C6	1:A1:363:G:C5	2.85	0.64
1:A1:469:C:OP1	1:A1:469:C:C2	2.51	0.64
29:B1:1552:G:C5'	29:B1:1553:U:OP2	2.46	0.64
29:B1:2111:G:N2	51:BV:49:ILE:CA	2.55	0.64
29:B1:2279:A:N1	29:B1:2283:G:N2	2.46	0.64
29:B1:211:A:C6	29:B1:229:G:N2	2.65	0.64
29:B1:2328:U:C3'	29:B1:2329:C:H5''	2.27	0.64
29:B1:283:G:OP2	29:B1:285:A:H2'	1.98	0.64
29:B1:2947:G:H2'	29:B1:2948:C:C5	2.32	0.64
29:B1:593:C:N3	29:B1:594:U:O2'	2.30	0.64
29:B1:608:A:C8	29:B1:608:A:C3'	2.80	0.64
29:B1:676:G:H4'	29:B1:678:G:O3'	1.98	0.64
29:B1:779:G:H3'	29:B1:779:G:C8	2.33	0.64
29:B1:864:G:OP2	74:B1:3415:OHX:N5	2.30	0.64
29:B1:876:A:C2'	29:B1:877:C:H5'	2.27	0.64
29:B1:885:U:O2	29:B1:885:U:H2'	1.97	0.64
29:B1:8:C:C2	29:B1:9:U:H5	2.15	0.64
31:B3:13:A:C2	31:B3:14:C:C2	2.86	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3314:A:C2'	34:BC:119:TYR:N	2.59	0.64
1:C1:1118:G:H2'	1:C1:1119:G:C8	2.33	0.64
1:C1:17:C:H2'	1:C1:18:C:C6	2.33	0.64
1:C1:354:C:H2'	1:C1:355:G:O4'	1.98	0.64
1:C1:381:C:C2	1:C1:382:C:C5	2.86	0.64
29:D1:1288:U:H6	29:D1:1288:U:H5''	1.62	0.64
29:D1:1376:C:H1'	29:D1:1407:A:H2'	1.80	0.64
29:D1:1782:U:C6	29:D1:1782:U:OP2	2.49	0.64
29:D1:2407:C:H2'	29:D1:2408:U:C6	2.32	0.64
29:D1:2702:A:C8	29:D1:2704:A:C6	2.86	0.64
29:D1:586:C:O2	29:D1:586:C:C2'	2.40	0.64
29:D1:680:G:C6	29:D1:681:U:O4	2.51	0.64
31:D3:19:C:C6	31:D3:20:U:C5	2.83	0.64
31:D3:8:C:H2'	31:D3:9:A:C8	2.29	0.64
29:B1:2614:G:C2	29:B1:2797:C:C6	2.86	0.64
29:B1:2797:C:C3'	29:B1:2798:C:H5'	2.25	0.64
1:A1:210:A:H2'	1:A1:211:U:H6	1.63	0.64
1:A1:246:G:O6	1:A1:247:A:C2	2.51	0.64
1:C1:1604:U:C3'	1:C1:1605:G:H5''	2.24	0.64
1:A1:1377:U:O5'	1:A1:1377:U:C6	2.51	0.64
29:B1:3217:C:H5'	29:B1:3276:G:H22	1.62	0.64
29:B1:3201:C:N3	29:B1:3202:G:C5	2.66	0.64
30:D2:25:G:N1	30:D2:26:C:C4	2.66	0.64
29:B1:1324:U:H6	29:B1:1324:U:H5'	1.58	0.64
29:D1:189:G:N3	29:D1:191:U:C4	2.66	0.64
29:D1:199:A:C5	29:D1:219:A:N6	2.65	0.64
29:D1:392:G:C5	29:D1:393:U:H5	2.15	0.64
1:A1:1280:C:H2'	1:A1:1281:G:H8	1.60	0.64
1:C1:1338:C:N1	1:C1:1410:A:C2	2.66	0.64
1:C1:1750:A:C5	1:C1:1751:C:C5	2.86	0.64
1:A1:1311:U:O2	1:A1:1313:A:C8	2.50	0.64
29:B1:1186:G:C2'	29:B1:1187:C:C5'	2.74	0.64
29:D1:1036:A:H2'	29:D1:1037:C:C5	2.32	0.64
43:DN:49:PRO:O	43:DN:53:VAL:N	2.31	0.64
43:DN:50:LYS:N	43:DN:53:VAL:CB	2.60	0.64
29:B1:1036:A:H2'	29:B1:1037:C:C5	2.32	0.64
1:C1:1297:G:N1	1:C1:1300:A:OP2	2.30	0.64
29:D1:3180:A:H8	45:DP:114:LYS:CA	2.11	0.64
29:B1:2901:G:H2'	29:B1:2902:A:O4'	1.97	0.64
29:D1:2970:C:C3'	29:D1:2971:A:H5''	2.26	0.64
42:DK:134:PRO:O	42:DK:151:SER:O	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1830:G:C5	29:B1:1831:U:C5	2.86	0.64
45:DP:106:GLU:C	45:DP:107:GLY:O	2.31	0.64
2:AA:57:LEU:O	2:AA:60:ALA:HB3	1.98	0.64
10:AI:86:VAL:CB	10:AI:87:PRO:HA	2.28	0.64
8:CG:142:GLU:C	8:CG:144:ALA:H	2.01	0.64
38:BG:160:ARG:O	38:BG:162:PRO:N	2.31	0.64
5:AD:215:ASP:O	5:AD:218:GLU:N	2.30	0.64
29:D1:2788:C:H2'	29:D1:2789:U:C6	2.33	0.64
1:A1:535:A:O2'	1:A1:536:C:H5'	1.97	0.64
1:A1:572:C:H5''	1:A1:573:C:OP2	1.98	0.64
1:A1:607:G:N7	1:A1:613:G:C4	2.66	0.64
29:B1:1153:A:N7	29:B1:1154:A:N1	2.45	0.64
29:B1:1189:C:C4'	29:B1:1192:C:H5	2.07	0.64
29:B1:944:C:C5	29:B1:1431:G:C6	2.86	0.64
29:B1:1687:U:H6	29:B1:1687:U:OP1	1.81	0.64
29:B1:2143:A:H8	29:B1:2143:A:H3'	1.62	0.64
29:B1:2197:C:N4	29:B1:2241:U:H2'	2.13	0.64
29:B1:2285:C:C5	29:B1:2286:U:N3	2.66	0.64
29:B1:2830:G:O2'	29:B1:2831:G:H5'	1.98	0.64
29:B1:2847:A:N7	29:B1:2898:G:C5	2.66	0.64
29:B1:2374:C:N4	29:B1:2941:A:O4'	2.30	0.64
29:B1:3373:U:C4	29:B1:3374:U:C5	2.86	0.64
29:B1:517:G:H2'	29:B1:518:G:N9	2.12	0.64
29:B1:550:A:H2'	29:B1:551:A:H8	1.63	0.64
29:B1:597:G:H2'	29:B1:598:A:H8	1.61	0.64
29:B1:725:G:C2	29:B1:726:G:O4'	2.51	0.64
1:C1:1147:A:H2'	1:C1:1148:C:H6	1.61	0.64
1:C1:1757:G:C6	1:C1:1758:U:C4	2.86	0.64
1:C1:1796:C:OP2	1:C1:1797:A:C8	2.50	0.64
1:C1:142:G:C6	1:C1:266:A:C6	2.86	0.64
1:C1:426:G:C2	1:C1:427:C:C5	2.86	0.64
1:C1:58:U:O2'	1:C1:451:A:N3	2.30	0.64
1:C1:861:U:C5	1:C1:862:A:H8	2.15	0.64
1:C1:992:A:C4	1:C1:1013:A:C2	2.86	0.64
29:D1:1120:A:C2	29:D1:1121:U:C4	2.85	0.64
29:D1:2342:U:H2'	29:D1:2343:C:H6	1.62	0.64
29:D1:2355:G:O2'	29:D1:2356:A:O4'	2.15	0.64
29:D1:23:A:H3'	29:D1:24:G:C8	2.32	0.64
29:D1:2852:C:C5	29:D1:2853:A:C4	2.86	0.64
29:D1:2932:U:C2'	29:D1:2932:U:O2	2.45	0.64
29:D1:3123:A:N7	29:D1:3124:G:C8	2.65	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3367:C:H2'	29:D1:3368:U:H5''	1.78	0.64
29:D1:1487:G:N7	74:D1:3588:OHX:N4	2.46	0.64
29:D1:706:A:C6	29:D1:714:G:N2	2.65	0.64
29:D1:733:G:N1	29:D1:736:A:N1	2.45	0.64
29:D1:742:G:C2'	29:D1:743:C:H5''	2.27	0.64
29:D1:771:A:H3'	29:D1:772:U:C5'	2.28	0.64
29:D1:77:A:C2	29:D1:78:U:H1'	2.33	0.64
29:D1:869:G:H2'	29:D1:870:G:C8	2.33	0.64
29:B1:967:A:H5'	29:B1:968:G:OP2	1.98	0.64
30:B2:97:A:H8	30:B2:97:A:OP2	1.80	0.64
30:D2:64:A:H1'	30:D2:65:G:O5'	1.97	0.64
1:A1:114:C:H42	1:A1:250:C:C4'	2.10	0.64
1:C1:1606:C:H2'	1:C1:1607:G:C8	2.33	0.64
1:A1:1179:G:C6	1:A1:1180:C:C2	2.86	0.64
1:A1:1552:U:O4	1:A1:1553:G:C6	2.51	0.64
1:A1:1602:C:H5'	1:A1:1603:U:OP2	1.98	0.64
46:BQ:109:ALA:O	46:BQ:111:LYS:N	2.31	0.64
29:B1:3172:A:O2'	29:B1:3173:G:OP2	2.11	0.64
29:D1:210:U:P	29:D1:210:U:C6	2.91	0.64
31:B3:123:G:C6	31:B3:131:A:N6	2.66	0.64
31:B3:129:C:O5'	31:B3:129:C:H6	1.79	0.64
30:D2:48:U:H2'	30:D2:49:G:C5	2.33	0.64
29:D1:1230:G:O2'	73:DM:34:SER:CB	2.46	0.64
29:D1:1624:G:N2	29:D1:1625:A:N3	2.46	0.64
1:C1:1308:G:H2'	1:C1:1309:C:H6	1.62	0.64
29:B1:1065:A:N3	29:B1:1065:A:C3'	2.57	0.64
29:B1:1714:A:H1'	29:B1:1731:A:N6	2.12	0.64
30:D2:92:A:C2'	30:D2:93:C:O4'	2.45	0.64
29:B1:2720:G:H2'	29:B1:2721:A:H8	1.63	0.64
29:B1:2119:A:C8	29:B1:2120:A:C2	2.85	0.64
9:CH:57:PRO:O	9:CH:60:ALA:N	2.31	0.64
1:A1:789:A:H3'	1:A1:790:U:H6	1.63	0.64
29:D1:2336:U:C5	29:D1:2337:C:C5	2.86	0.64
34:DC:4:ARG:C	34:DC:6:TYR:N	2.49	0.64
8:CG:109:LYS:C	8:CG:111:ALA:H	2.00	0.64
3:CB:126:ARG:O	3:CB:128:GLY:N	2.31	0.64
1:A1:880:C:H2'	1:A1:881:A:C8	2.33	0.64
46:BQ:32:THR:O	46:BQ:35:ALA:HB3	1.97	0.64
45:DP:95:GLY:O	45:DP:96:LYS:C	2.35	0.64
29:B1:1699:A:H2'	29:B1:1700:G:C8	2.33	0.64
3:CB:245:ASP:C	3:CB:247:ALA:H	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:132:ALA:O	52:BW:136:ALA:N	2.31	0.64
40:BI:42:ASP:O	40:BI:43:VAL:CB	2.46	0.64
29:B1:2117:A:OP2	29:B1:2118:C:N4	2.31	0.64
36:DE:130:GLU:HA	36:DE:131:LEU:CB	2.26	0.64
42:BK:118:PRO:HA	42:BK:119:SER:CB	2.27	0.64
1:A1:300:A:H2'	1:A1:301:A:O4'	1.97	0.64
1:A1:1112:G:N7	1:A1:1113:A:N7	2.45	0.64
1:A1:859:A:H4'	1:A1:860:U:OP2	1.98	0.64
29:B1:1547:G:H2'	29:B1:1548:C:C5	2.32	0.64
29:B1:1684:U:H6	29:B1:1684:U:H3'	1.63	0.64
29:B1:210:U:OP2	29:B1:210:U:H6	1.77	0.64
29:B1:221:A:C4	29:B1:224:C:N4	2.66	0.64
29:B1:2405:C:C2'	29:B1:2405:C:O2	2.46	0.64
29:B1:2984:C:O2'	29:B1:2985:C:H5'	1.97	0.64
29:B1:3105:U:C5	29:B1:3106:A:N7	2.65	0.64
29:B1:3121:U:C2	29:B1:3122:A:N7	2.66	0.64
29:B1:515:C:P	29:B1:515:C:C6	2.91	0.64
29:B1:559:A:H2'	29:B1:560:G:H8	1.63	0.64
29:B1:589:A:OP2	29:B1:611:A:C2	2.51	0.64
29:B1:591:G:C2	29:B1:592:A:C1'	2.78	0.64
29:B1:592:A:C2	29:B1:593:C:C6	2.86	0.64
35:BD:6:VAL:CB	35:BD:20:LEU:H	2.11	0.64
1:C1:142:G:C6	1:C1:266:A:C5	2.86	0.64
1:C1:541:A:H4'	1:C1:542:A:OP1	1.98	0.64
1:C1:67:A:H4'	1:C1:68:A:OP1	1.98	0.64
29:D1:1174:G:C2	29:D1:1175:C:C6	2.86	0.64
29:D1:1178:G:N7	29:D1:1179:A:C6	2.66	0.64
29:D1:1194:G:C8	29:D1:1319:G:H5''	2.33	0.64
29:D1:2738:A:H5''	29:D1:2739:A:OP2	1.98	0.64
29:D1:2909:U:C4	29:D1:2910:A:C8	2.86	0.64
29:D1:2987:A:C5	29:D1:2988:C:C5	2.86	0.64
29:D1:3067:C:O2'	29:D1:3068:U:H5'	1.97	0.64
29:D1:3147:G:H4'	34:DC:101:SER:H	1.63	0.64
29:D1:424:G:C2'	29:D1:425:G:OP1	2.46	0.64
29:D1:559:A:C5	29:D1:560:G:N7	2.65	0.64
29:D1:588:G:N1	29:D1:612:U:C5	2.66	0.64
29:D1:724:U:H2'	29:D1:725:G:C8	2.32	0.64
29:D1:80:G:C2	29:D1:81:C:C5	2.86	0.64
29:D1:974:G:C6	29:D1:975:C:C4	2.86	0.64
29:B1:2631:U:C2	29:B1:2632:G:C8	2.86	0.64
29:B1:998:A:C2'	29:B1:999:G:H5'	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:89:G:C2	1:A1:90:C:C2	2.85	0.64
1:C1:1676:U:H2'	1:C1:1677:C:C5	2.31	0.64
1:C1:300:A:H2'	1:C1:301:A:O4'	1.98	0.64
29:D1:2673:A:H2	29:D1:2674:A:C5	2.15	0.64
29:D1:2677:G:N1	29:D1:2679:A:C4	2.66	0.64
29:B1:2673:A:P	42:BK:105:GLY:HA2	2.38	0.64
1:A1:1683:C:P	1:A1:1684:U:OP1	2.56	0.64
1:C1:1244:A:H2	1:C1:1245:G:N9	1.93	0.64
1:C1:1382:A:N3	1:C1:1383:G:C8	2.66	0.64
1:C1:1489:U:H5	1:C1:1513:G:C2	2.15	0.64
1:C1:1591:C:H4'	1:C1:1592:A:OP1	1.97	0.64
1:A1:1239:U:O2'	1:A1:1240:U:H5'	1.98	0.64
1:A1:1497:U:C4	1:A1:1498:G:N7	2.66	0.64
74:D3:202:OHX:N5	74:D3:212:OHX:N1	2.46	0.64
29:B1:2520:A:N3	29:B1:2521:U:N3	2.46	0.64
29:D1:1412:G:C4	29:D1:1413:G:C8	2.86	0.64
30:D2:44:C:C5	30:D2:45:A:N7	2.66	0.64
29:D1:69:C:O2	29:D1:69:C:H2'	1.97	0.64
29:D1:3353:G:H3'	29:D1:3354:U:C5'	2.26	0.64
29:B1:342:A:C6	29:B1:349:A:C8	2.87	0.64
29:D1:1621:A:H2'	29:D1:1622:U:H6	1.62	0.64
1:C1:1334:U:N3	1:C1:1335:U:C5	2.65	0.64
29:B1:3263:G:N2	29:B1:3264:G:C4	2.66	0.64
29:D1:3141:A:C2	29:D1:3144:G:P	2.91	0.64
29:D1:2511:A:H2'	29:D1:2512:C:H5'	1.80	0.64
1:A1:921:U:HO2'	1:A1:922:G:H5'	1.61	0.64
29:D1:2119:A:C5	29:D1:2120:A:N1	2.66	0.64
29:D1:2580:A:C1'	29:D1:2581:U:P	2.86	0.64
54:DY:130:VAL:O	54:DY:134:ALA:HB3	1.98	0.64
29:B1:1815:U:C2'	29:B1:1816:A:H5'	2.28	0.64
29:B1:296:A:C5	29:B1:297:G:N1	2.66	0.64
37:BF:124:GLU:C	37:BF:126:GLN:N	2.51	0.64
29:D1:2545:C:H2'	29:D1:2546:C:O4'	1.98	0.64
29:D1:2555:G:C1'	29:D1:2556:C:OP2	2.46	0.64
47:BR:123:THR:O	47:BR:125:ASP:N	2.31	0.64
3:CB:188:LEU:O	3:CB:191:ALA:N	2.32	0.64
5:CD:146:THR:HA	5:CD:158:GLN:O	1.99	0.64
36:DE:217:GLU:O	36:DE:221:GLU:N	2.27	0.64
49:BT:73:GLY:H	49:BT:92:ARG:HA	1.62	0.64
20:AS:25:SER:O	20:AS:27:HIS:N	2.30	0.64
1:A1:1131:A:N3	1:A1:1131:A:H2'	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:618:U:C2'	1:A1:619:A:H5'	2.27	0.63
29:B1:1115:G:C8	29:B1:1115:G:H3'	2.33	0.63
29:B1:122:A:H1'	29:B1:150:A:H4'	1.80	0.63
29:B1:1844:C:N3	29:B1:1845:G:C8	2.65	0.63
29:B1:2167:A:C3'	29:B1:2168:A:H8	2.11	0.63
29:B1:2223:A:N1	29:B1:2783:U:H1'	2.13	0.63
29:B1:2278:C:C2'	29:B1:2279:A:H5''	2.27	0.63
29:B1:2275:A:C2	29:B1:2312:A:C5	2.86	0.63
29:B1:2326:A:H2'	29:B1:2326:A:N3	2.12	0.63
29:B1:2383:C:C2	29:B1:2384:A:C8	2.85	0.63
29:B1:2383:C:H2'	29:B1:2384:A:H8	1.64	0.63
29:B1:2814:G:C2	29:B1:2815:G:C4	2.86	0.63
29:B1:286:U:C2'	29:B1:287:G:C8	2.67	0.63
29:B1:2903:A:C4	29:B1:2904:U:H6	2.16	0.63
29:B1:2947:G:C2	29:B1:2948:C:C4	2.85	0.63
29:B1:536:U:H2'	29:B1:536:U:OP2	1.97	0.63
29:B1:548:G:H2'	29:B1:549:U:H4'	1.80	0.63
29:B1:726:G:C6	29:B1:727:G:C6	2.85	0.63
29:B1:835:G:N3	29:B1:857:G:N2	2.46	0.63
29:B1:878:G:H2'	29:B1:2980:U:O2'	1.98	0.63
29:B1:880:G:H2'	29:B1:882:A:OP2	1.98	0.63
29:B1:950:G:O5'	29:B1:950:G:H8	1.81	0.63
31:B3:10:A:H2'	31:B3:11:C:H6	1.61	0.63
1:C1:1149:G:C2	1:C1:1150:G:N7	2.66	0.63
1:C1:123:G:C6	1:C1:295:A:N6	2.66	0.63
1:C1:183:U:C4'	1:C1:184:C:OP1	2.45	0.63
1:C1:963:A:O2'	1:C1:964:U:O5'	2.16	0.63
1:C1:969:C:H4'	1:C1:1104:U:O2'	1.98	0.63
29:D1:1286:A:H4'	29:D1:1287:A:H5'	1.79	0.63
29:D1:1469:C:O2	29:D1:1509:A:C2	2.51	0.63
29:D1:158:G:H2'	29:D1:159:A:H4'	1.80	0.63
29:D1:2112:U:C1'	29:D1:2113:A:OP2	2.46	0.63
29:D1:2315:G:N2	29:D1:2316:G:C8	2.66	0.63
29:D1:2354:C:C2'	29:D1:2354:C:O2	2.45	0.63
29:D1:2714:G:C2	29:D1:2751:G:C2	2.86	0.63
29:D1:2716:U:H5'	29:D1:2717:U:OP2	1.97	0.63
29:D1:2946:A:C5	29:D1:2982:A:N6	2.64	0.63
29:D1:3394:U:H2'	29:D1:3395:G:C8	2.33	0.63
29:D1:3395:G:O2'	29:D1:3396:U:P	2.56	0.63
74:D1:3543:OHX:N5	38:DG:217:PRO:O	2.31	0.63
29:D1:525:C:H2'	29:D1:526:C:C6	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:533:A:H2'	29:D1:534:U:C5	2.33	0.63
29:D1:609:G:OP1	29:D1:609:G:H3'	1.98	0.63
29:D1:636:C:C2'	29:D1:636:C:O2	2.44	0.63
29:D1:724:U:H2'	29:D1:725:G:H8	1.63	0.63
29:D1:722:G:N1	29:D1:748:U:C2	2.66	0.63
29:D1:887:G:H2'	29:D1:888:A:H8	1.63	0.63
29:D1:911:C:C2'	29:D1:911:C:O2	2.46	0.63
31:D3:81:U:C3'	31:D3:82:U:H5''	2.28	0.63
31:B3:48:A:C6	31:B3:51:G:C5	2.86	0.63
31:B3:91:C:H2'	31:B3:92:A:C8	2.33	0.63
1:A1:142:G:C6	1:A1:266:A:C5	2.86	0.63
1:A1:187:G:H4'	1:A1:187:G:OP1	1.97	0.63
1:A1:288:A:C4	1:A1:289:U:C5	2.86	0.63
30:D2:11:A:N1	36:DE:16:PHE:HA	2.14	0.63
1:C1:1720:G:H2'	1:C1:1721:A:C8	2.33	0.63
1:C1:336:G:C2'	1:C1:337:G:H5''	2.27	0.63
29:D1:2676:A:C2	29:D1:2680:A:N1	2.65	0.63
1:A1:326:G:O6	1:A1:337:G:O6	2.16	0.63
1:C1:1159:C:H3'	1:C1:1160:A:C5'	2.27	0.63
1:C1:1196:A:N3	1:C1:1196:A:H5''	2.13	0.63
1:A1:1273:G:H4'	1:A1:1274:C:C4'	2.28	0.63
1:A1:1467:C:C2'	1:A1:1468:U:H5'	2.27	0.63
1:A1:1488:G:O2'	1:A1:1494:C:H1'	1.98	0.63
30:D2:56:A:O3'	42:DK:149:GLY:HA2	1.98	0.63
29:D1:3226:A:O5'	29:D1:3226:A:H8	1.80	0.63
29:D1:1232:C:N3	29:D1:1261:G:C2	2.66	0.63
29:D1:1623:G:H2'	29:D1:1624:G:O4'	1.97	0.63
1:C1:1291:G:O5'	1:C1:1291:G:H8	1.81	0.63
1:C1:1335:U:O2	1:C1:1335:U:H2'	1.97	0.63
1:C1:1337:A:H5'	1:C1:1338:C:OP2	1.98	0.63
1:C1:1338:C:H1'	1:C1:1410:A:N3	2.12	0.63
29:D1:2595:A:H2'	29:D1:2596:U:C6	2.32	0.63
29:B1:1509:A:C6	29:B1:1510:G:C2	2.86	0.63
1:A1:1409:G:H8	1:A1:1411:A:OP2	1.81	0.63
1:A1:1291:G:O5'	1:A1:1291:G:H8	1.80	0.63
29:D1:1350:A:H3'	29:D1:1351:U:C6	2.32	0.63
29:D1:1351:U:O3'	29:D1:1352:A:C8	2.51	0.63
34:BC:105:VAL:O	34:BC:107:ALA:N	2.31	0.63
17:AP:127:VAL:CA	17:AP:129:GLY:N	2.62	0.63
36:DE:234:ASP:C	36:DE:236:LEU:H	2.02	0.63
29:B1:2123:G:O2'	29:B1:2124:G:H5'	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AS:23:VAL:C	74:AS:101:OHX:N1	2.51	0.63
29:D1:2476:C:H2'	29:D1:2477:G:C4'	2.28	0.63
29:B1:2746:A:N6	29:B1:2747:A:C2	2.66	0.63
1:A1:879:G:H5'	8:AG:108:ASP:HA	1.80	0.63
1:A1:1305:U:H3'	1:A1:1306:C:C2	2.33	0.63
11:CJ:14:LYS:O	11:CJ:15:SER:CB	2.46	0.63
29:B1:2510:U:N3	29:B1:2511:A:C8	2.66	0.63
29:B1:2752:U:H3'	29:B1:2752:U:O2	1.98	0.63
32:DA:68:PHE:H	32:DA:112:ALA:CB	2.11	0.63
1:A1:390:G:N2	1:A1:391:A:C6	2.67	0.63
29:B1:1119:C:H3'	29:B1:1120:A:H8	1.63	0.63
29:B1:1453:A:N3	29:B1:1878:G:N2	2.46	0.63
29:B1:1838:G:H4'	29:B1:1839:A:C8	2.32	0.63
29:B1:1941:C:O2'	29:B1:3363:U:H1'	1.99	0.63
29:B1:2255:A:C2	29:B1:2260:U:O4	2.51	0.63
29:B1:2276:G:C6	29:B1:2277:C:C5	2.86	0.63
29:B1:2830:G:C4	29:B1:2831:G:C8	2.86	0.63
29:B1:326:U:H4'	29:B1:327:A:OP2	1.97	0.63
29:B1:3294:A:C6	29:B1:3295:A:C5	2.86	0.63
29:B1:692:A:H2'	29:B1:693:A:C8	2.33	0.63
1:C1:1005:A:C5	1:C1:1006:C:C4	2.87	0.63
1:C1:105:A:N1	74:C1:1916:OHX:N5	2.47	0.63
1:C1:195:G:O2'	1:C1:196:G:H5''	1.98	0.63
1:C1:282:C:O2	1:C1:282:C:H2'	1.98	0.63
1:C1:400:A:C5'	1:C1:401:A:H5'	2.28	0.63
1:C1:97:C:C1'	1:C1:426:G:H5'	2.24	0.63
1:C1:436:A:H5''	1:C1:437:A:OP2	1.98	0.63
29:D1:11:A:H1'	29:D1:1557:A:H61	1.62	0.63
29:D1:1453:A:N3	29:D1:1878:G:N2	2.46	0.63
29:D1:882:A:H5''	29:D1:1849:C:O2	1.99	0.63
29:D1:1857:C:OP2	29:D1:1857:C:H6	1.81	0.63
29:D1:2116:G:N3	29:D1:2116:G:H5'	2.13	0.63
29:D1:2194:G:H2'	29:D1:2195:C:H5'	1.79	0.63
29:D1:2289:U:O2'	29:D1:2290:C:H5'	1.98	0.63
29:D1:2290:C:H2'	29:D1:2291:A:H8	1.64	0.63
29:D1:2702:A:H8	29:D1:2704:A:C6	2.16	0.63
29:D1:940:G:OP1	29:D1:2871:G:O6	2.16	0.63
29:D1:3386:G:C8	29:D1:3386:G:H3'	2.32	0.63
31:D3:141:C:C2	31:D3:142:C:C5	2.86	0.63
31:D3:72:A:H61	31:D3:85:G:H5''	1.61	0.63
34:DC:48:GLY:O	34:DC:49:TYR:CB	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:704:C:C4'	1:A1:705:U:OP1	2.46	0.63
1:C1:849:C:C4	1:C1:850:A:N7	2.66	0.63
1:A1:320:U:OP1	1:A1:321:C:H4'	1.98	0.63
1:C1:1172:G:C6	1:C1:1173:C:C4	2.86	0.63
1:C1:1382:A:O2'	1:C1:1383:G:H5''	1.98	0.63
1:C1:1453:G:H2'	1:C1:1454:G:H8	1.63	0.63
1:C1:1602:C:C3'	1:C1:1603:U:H6	2.11	0.63
1:A1:1251:U:H2'	1:A1:1252:C:O4'	1.98	0.63
31:D3:28:C:O2	31:D3:28:C:H2'	1.98	0.63
29:B1:3028:G:N1	29:B1:3029:A:C2	2.67	0.63
29:B1:1280:C:O2'	29:B1:1281:G:H5'	1.98	0.63
29:D1:3265:C:H5'	29:D1:3265:C:H6	1.62	0.63
30:B2:25:G:H2'	30:B2:26:C:C5	2.33	0.63
29:D1:1230:G:H5'	73:DM:32:ASN:CB	2.29	0.63
29:B1:1064:A:O2'	29:B1:1065:A:P	2.55	0.63
1:A1:1339:C:C2'	1:A1:1340:U:H5'	2.27	0.63
29:B1:1647:A:N1	29:B1:1809:A:H1'	2.12	0.63
41:DJ:161:GLY:CA	41:DJ:162:GLN:CB	2.74	0.63
29:D1:1013:G:C3'	29:D1:1014:U:H4'	2.27	0.63
5:CD:169:ASN:O	5:CD:172:ILE:N	2.31	0.63
1:A1:1579:U:C2	1:A1:1580:C:C5	2.86	0.63
5:AD:199:ILE:C	5:AD:201:ALA:H	2.01	0.63
29:B1:1018:G:N1	29:B1:1019:G:O6	2.31	0.63
13:CL:121:ALA:HB3	13:CL:124:GLY:CA	2.26	0.63
36:BE:226:TYR:O	36:BE:230:ASP:HA	1.97	0.63
36:DE:226:TYR:CB	36:DE:233:ALA:H	2.12	0.63
29:B1:1540:U:H2'	29:B1:1541:G:H5'	1.80	0.63
29:B1:2560:C:H3'	29:B1:2561:A:C5'	2.29	0.63
54:DY:129:PHE:CB	54:DY:130:VAL:CA	2.75	0.63
54:BY:73:LEU:HA	54:BY:116:GLY:CA	2.29	0.63
9:CH:89:THR:HA	9:CH:90:ARG:C	2.19	0.63
44:BO:148:TYR:O	44:BO:150:TRP:N	2.32	0.63
40:DI:47:LYS:O	40:DI:48:VAL:C	2.36	0.63
1:C1:908:U:C5	1:C1:909:U:C6	2.87	0.63
1:A1:1625:C:H2'	1:A1:1626:U:H6	1.61	0.63
1:A1:1636:C:C4	1:A1:1765:A:N6	2.66	0.63
29:B1:1190:A:H2'	29:B1:1190:A:N3	2.12	0.63
29:B1:1212:A:N1	29:B1:1294:A:C2	2.66	0.63
29:B1:1394:A:H2'	29:B1:1395:G:O5'	1.98	0.63
29:B1:1656:A:C1'	29:B1:1657:C:C5	2.82	0.63
29:B1:1939:G:O2'	29:B1:1940:G:H5'	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2143:A:C8	29:B1:2145:A:N7	2.67	0.63
29:B1:1902:G:OP2	29:B1:2919:A:OP1	2.17	0.63
29:B1:3065:G:O2'	29:B1:3066:U:O5'	2.11	0.63
29:B1:3097:C:O2'	29:B1:3098:G:P	2.56	0.63
29:B1:3309:G:C2	29:B1:3310:A:N7	2.67	0.63
29:B1:3333:G:N1	29:B1:3370:A:H4'	2.13	0.63
29:B1:558:U:O2'	29:B1:559:A:OP1	2.16	0.63
29:B1:564:G:H2'	29:B1:565:U:C6	2.33	0.63
29:B1:645:A:N7	29:B1:649:A:C6	2.66	0.63
29:B1:739:G:C2'	29:B1:740:G:C8	2.81	0.63
29:B1:764:U:H4'	29:B1:766:U:H5	1.61	0.63
54:BY:72:VAL:C	54:BY:74:ASN:H	2.00	0.63
1:C1:992:A:N1	1:C1:1012:U:O2	2.31	0.63
1:C1:1634:C:C6	1:C1:1634:C:O5'	2.52	0.63
1:C1:535:A:O2'	1:C1:536:C:H5'	1.98	0.63
1:C1:611:U:C5	1:C1:612:U:C5	2.86	0.63
1:C1:97:C:O2	1:C1:425:A:O2'	2.14	0.63
3:CB:165:VAL:CA	3:CB:166:THR:CB	2.75	0.63
29:D1:1056:U:H4'	30:D2:82:G:H4'	1.81	0.63
29:D1:1484:U:C1'	29:D1:1485:G:OP1	2.45	0.63
29:D1:1522:U:H4'	29:D1:1523:U:OP2	1.98	0.63
29:D1:1779:C:C4'	29:D1:1779:C:OP1	2.46	0.63
29:D1:2107:A:C4	29:D1:2108:C:C5	2.85	0.63
29:D1:2143:A:H8	29:D1:2143:A:H3'	1.64	0.63
29:D1:2288:G:H2'	29:D1:2289:U:C6	2.31	0.63
29:D1:648:C:O2	29:D1:2397:A:O4'	2.17	0.63
29:D1:25:U:N3	29:D1:331:G:C8	2.66	0.63
29:D1:2857:C:H2'	29:D1:2858:U:C6	2.31	0.63
29:D1:2912:G:C2	29:D1:2913:C:O2	2.52	0.63
29:D1:3098:G:C5'	29:D1:3099:C:OP1	2.46	0.63
29:D1:337:G:C6	29:D1:339:C:N4	2.66	0.63
29:D1:407:A:O5'	29:D1:407:A:C8	2.51	0.63
29:D1:705:A:C5	29:D1:715:A:N6	2.67	0.63
29:D1:718:G:H4'	29:D1:719:U:H5''	1.79	0.63
31:D3:56:G:C6	31:D3:62:C:N4	2.66	0.63
31:D3:82:U:H2'	31:D3:83:C:O2	1.98	0.63
31:D3:75:G:OP1	31:D3:90:U:H5''	1.97	0.63
1:A1:218:A:H61	1:A1:844:A:H1'	1.64	0.63
1:C1:749:U:C4	1:C1:750:U:O4	2.51	0.63
29:B1:1056:U:O5'	29:B1:1056:U:H6	1.81	0.63
30:B2:100:C:H5'	30:B2:101:G:OP2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:168:A:H2'	1:A1:169:A:C8	2.33	0.63
1:A1:199:G:C6	1:A1:200:A:N6	2.67	0.63
1:A1:63:G:C2	1:A1:64:U:H1'	2.33	0.63
30:D2:67:G:N2	30:D2:68:C:O4'	2.32	0.63
1:A1:243:G:O2'	1:A1:244:A:H5'	1.98	0.63
1:C1:1491:U:C3'	1:C1:1492:A:H2'	2.28	0.63
1:C1:1586:A:C4	1:C1:1611:A:C2	2.86	0.63
1:A1:1458:G:H5''	1:A1:1458:G:C4	2.33	0.63
1:A1:1472:C:C1'	1:A1:1473:U:OP2	2.45	0.63
1:A1:1481:C:C6	1:A1:1482:C:C2	2.86	0.63
29:D1:3209:A:N1	29:D1:3210:A:C2	2.66	0.63
29:D1:3209:A:H2'	29:D1:3210:A:N9	2.13	0.63
29:B1:1196:C:O2	30:B2:86:U:C6	2.51	0.63
29:D1:3171:U:O2'	29:D1:3172:A:P	2.56	0.63
29:D1:3218:A:O2'	29:D1:3219:G:C3'	2.41	0.63
4:CC:16:VAL:O	4:CC:18:TYR:N	2.32	0.63
29:D1:1093:A:H2'	29:D1:1094:U:C2	2.32	0.63
29:D1:3314:A:H2'	34:DC:119:TYR:O	1.97	0.63
29:D1:3142:A:H3'	29:D1:3143:C:H5'	1.81	0.63
1:A1:1392:U:H6	1:A1:1392:U:H5''	1.62	0.63
36:DE:100:ALA:C	36:DE:102:GLY:N	2.51	0.63
29:B1:1013:G:C3'	29:B1:1014:U:H4'	2.27	0.63
29:B1:2719:U:H4'	29:B1:2719:U:OP1	1.99	0.63
1:A1:719:U:O2	1:A1:719:U:H3'	1.98	0.63
1:C1:1125:A:C5	1:C1:1126:G:H1'	2.33	0.63
1:A1:772:G:C6	1:A1:773:C:N3	2.66	0.63
1:C1:1297:G:N2	1:C1:1301:U:C2	2.66	0.63
45:DP:166:GLU:O	45:DP:168:TYR:N	2.31	0.63
29:B1:1356:U:H2'	29:B1:1356:U:O2	1.98	0.63
54:DY:129:PHE:CB	54:DY:130:VAL:HA	2.27	0.63
1:C1:790:U:O2	1:C1:790:U:H2'	1.98	0.63
34:DC:164:THR:CB	34:DC:177:HIS:H	2.11	0.63
29:B1:2746:A:C2	36:BE:146:LEU:CB	2.81	0.63
29:D1:1830:G:C4	29:D1:1831:U:C6	2.86	0.63
46:BQ:52:LEU:C	46:BQ:54:HIS:N	2.49	0.63
8:AG:91:LEU:O	8:AG:95:ALA:CB	2.47	0.63
29:D1:1053:A:N3	29:D1:1053:A:H2'	2.13	0.63
41:DJ:47:PRO:O	41:DJ:140:THR:O	2.16	0.63
47:BR:150:VAL:CB	47:BR:151:ARG:HA	2.29	0.63
29:B1:235:A:H2'	29:B1:236:G:C8	2.33	0.63
1:A1:1637:C:OP2	1:A1:1637:C:H4'	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:297:U:H2'	1:A1:298:C:C5'	2.29	0.63
29:B1:1198:C:C2'	29:B1:1200:A:H8	2.11	0.63
29:B1:1909:A:N1	29:B1:1910:A:N3	2.46	0.63
29:B1:2310:U:H2'	29:B1:2311:G:O5'	1.98	0.63
29:B1:2655:U:H4'	29:B1:2656:A:H5'	1.78	0.63
29:B1:286:U:C2	29:B1:287:G:N7	2.66	0.63
29:B1:3149:G:C4	29:B1:3150:A:C8	2.87	0.63
29:B1:3316:A:N6	29:B1:3388:C:N4	2.43	0.63
29:B1:3386:G:C8	29:B1:3386:G:C3'	2.81	0.63
1:C1:478:A:N1	1:C1:479:C:C4	2.67	0.63
1:C1:515:A:P	74:C1:1933:OHX:N6	2.71	0.63
1:C1:530:C:H5''	1:C1:531:C:OP2	1.98	0.63
1:C1:513:U:H5	1:C1:538:A:C6	2.15	0.63
1:C1:610:G:C2	1:C1:614:C:N3	2.66	0.63
1:C1:860:U:O2	1:C1:860:U:H2'	1.97	0.63
16:CO:8:ALA:O	16:CO:12:ASN:CB	2.47	0.63
29:D1:114:A:OP2	29:D1:154:U:O4	2.17	0.63
29:D1:1607:U:C1'	29:D1:1608:C:OP1	2.43	0.63
29:D1:1615:C:H2'	29:D1:1616:U:C6	2.32	0.63
29:D1:1896:A:C2	29:D1:3093:C:C6	2.86	0.63
29:D1:1895:A:C6	29:D1:2341:A:C6	2.87	0.63
29:D1:3079:U:O2	29:D1:3079:U:C2'	2.46	0.63
29:D1:3113:A:C2'	29:D1:3114:A:H5'	2.29	0.63
29:D1:3137:C:O2	29:D1:3137:C:C2'	2.40	0.63
29:D1:3309:G:H3'	29:D1:3310:A:H8	1.64	0.63
29:D1:3309:G:N3	29:D1:3310:A:C8	2.67	0.63
29:D1:3320:A:C5	29:D1:3321:C:N4	2.67	0.63
29:D1:383:G:C2'	29:D1:385:A:O5'	2.38	0.63
29:D1:58:G:H5''	29:D1:59:G:OP2	1.97	0.63
29:D1:688:G:C1'	29:D1:692:A:H61	2.11	0.63
29:D1:693:A:C4	29:D1:694:C:C5	2.86	0.63
29:D1:747:A:C8	29:D1:747:A:OP1	2.51	0.63
29:D1:824:C:O2'	29:D1:825:U:H5'	1.99	0.63
29:D1:826:G:C5	29:D1:827:A:N7	2.66	0.63
1:C1:973:A:H4'	29:D1:847:A:C2	2.33	0.63
29:D1:88:A:C2	29:D1:281:G:N3	2.67	0.63
29:D1:941:G:O4'	29:D1:1435:A:H1'	1.99	0.63
29:D1:351:A:H8	31:D3:53:A:H1'	1.64	0.63
37:DF:40:LEU:C	37:DF:85:ILE:HA	2.19	0.63
38:DG:83:LEU:CA	38:DG:84:VAL:CB	2.75	0.63
1:A1:832:U:H5'	1:A1:833:U:OP2	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:832:U:H5'	1:C1:833:U:OP2	1.99	0.63
1:A1:66:U:O2'	1:A1:67:A:P	2.56	0.63
30:D2:69:C:C4	30:D2:70:U:O4	2.51	0.63
1:A1:215:A:H8	1:A1:215:A:O5'	1.81	0.63
1:C1:1542:G:OP2	1:C1:1542:G:H8	1.81	0.63
29:B1:386:A:O5'	29:B1:386:A:H8	1.80	0.63
29:D1:3199:G:C2'	29:D1:3200:G:C8	2.82	0.63
29:D1:3218:A:C4'	29:D1:3220:G:H8	2.12	0.63
29:D1:3277:U:C6	29:D1:3277:U:H3'	2.33	0.63
30:D2:46:A:O5'	30:D2:46:A:C4	2.52	0.63
4:CC:14:ASP:C	4:CC:16:VAL:N	2.50	0.63
29:B1:72:C:H3'	29:B1:73:C:H5'	1.79	0.63
1:C1:1322:A:H2'	1:C1:1323:C:C6	2.33	0.63
1:A1:1410:A:H2'	1:A1:1411:A:O4'	1.98	0.63
29:D1:1079:A:C6	29:D1:1080:A:N6	2.67	0.63
1:A1:1734:U:C2	1:A1:1735:U:C5	2.87	0.63
3:AB:157:LYS:O	3:AB:213:ALA:HB1	1.98	0.63
29:D1:1931:U:N3	29:D1:2121:G:N3	2.46	0.63
36:BE:43:LYS:H	49:BT:69:LYS:C	2.01	0.63
1:C1:1665:U:O4	74:C1:1993:OHX:N5	2.31	0.63
29:B1:2942:C:C6	29:B1:2942:C:C3'	2.81	0.63
14:CM:126:GLU:O	14:CM:128:GLY:N	2.30	0.63
29:D1:1819:U:C6	29:D1:1820:U:C5	2.86	0.63
1:A1:238:U:H4'	1:A1:239:C:H5''	1.80	0.63
13:CL:78:HIS:O	13:CL:80:LYS:N	2.31	0.63
29:B1:296:A:C5	29:B1:297:G:C2	2.87	0.63
29:D1:1003:A:C2	29:D1:1004:U:C1'	2.81	0.63
29:B1:1764:U:H2'	29:B1:1765:U:O4'	1.99	0.63
47:BR:83:VAL:O	47:BR:103:ALA:HB3	1.99	0.63
32:BA:101:LYS:O	32:BA:105:LYS:N	2.31	0.63
2:AA:219:THR:O	2:AA:220:THR:O	2.16	0.63
46:DQ:68:GLY:O	46:DQ:69:ARG:O	2.17	0.63
29:D1:1282:G:H2'	29:D1:1283:C:O4'	1.99	0.63
45:DP:45:GLY:N	45:DP:134:LYS:O	2.26	0.63
1:A1:1049:U:H2'	1:A1:1050:G:H8	1.61	0.63
1:A1:1113:A:O3'	1:A1:1114:G:H4'	1.98	0.63
29:B1:1153:A:N6	29:B1:1154:A:N1	2.41	0.63
29:B1:1164:G:H2'	29:B1:1165:A:C8	2.33	0.63
29:B1:1782:U:H3'	29:B1:1782:U:OP2	1.99	0.63
29:B1:1899:G:C2	29:B1:2334:U:C5	2.87	0.63
29:B1:2378:C:O2	29:B1:2378:C:H2'	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2904:U:C2'	29:B1:2904:U:O2	2.46	0.63
29:B1:2998:U:H2'	29:B1:2999:U:H6	1.62	0.63
29:B1:3105:U:C5	29:B1:3128:G:N2	2.63	0.63
29:B1:594:U:C4	29:B1:595:G:N1	2.66	0.63
29:B1:715:A:HO2'	29:B1:716:A:P	2.22	0.63
1:C1:1132:A:C2	1:C1:1133:A:N7	2.66	0.63
1:C1:1761:U:H1'	1:C1:1762:A:N7	2.14	0.63
1:C1:187:G:OP1	1:C1:187:G:H4'	1.96	0.63
1:C1:534:A:C3'	1:C1:535:A:C8	2.82	0.63
1:C1:975:C:C2	1:C1:976:G:C8	2.87	0.63
29:D1:1297:C:C2'	29:D1:1298:C:H5'	2.26	0.63
29:D1:1455:U:H3'	29:D1:1456:A:C8	2.32	0.63
29:D1:2259:A:H5''	29:D1:2260:U:H5	1.62	0.63
29:D1:2294:U:O2	29:D1:2294:U:H2'	1.98	0.63
29:D1:2609:A:H2'	29:D1:2610:G:C8	2.34	0.63
29:D1:2947:G:N3	29:D1:2948:C:C5	2.66	0.63
29:D1:3343:G:C8	29:D1:3344:A:N7	2.67	0.63
29:D1:522:A:C5	29:D1:523:A:C8	2.86	0.63
29:D1:511:G:C2	29:D1:580:C:N3	2.63	0.63
29:D1:703:G:C6	29:D1:704:U:C4	2.86	0.63
29:D1:748:U:C2'	29:D1:748:U:O2	2.46	0.63
29:D1:781:G:O2'	29:D1:782:U:H5'	1.99	0.63
29:D1:972:A:C2'	29:D1:973:A:H5'	2.27	0.63
1:C1:832:U:H3'	1:C1:833:U:C5'	2.29	0.63
1:C1:841:U:C4	1:C1:842:C:C4	2.86	0.63
29:B1:2639:G:N2	29:B1:2640:A:H1'	2.14	0.63
1:A1:166:C:C4	1:A1:167:U:O4	2.52	0.63
30:D2:64:A:O4'	30:D2:65:G:O5'	2.16	0.63
1:C1:246:G:O6	1:C1:247:A:H2	1.80	0.63
29:B1:2678:A:H3'	29:B1:2679:A:N3	2.14	0.63
1:A1:322:G:O4'	1:A1:323:A:C8	2.52	0.63
1:C1:1454:G:C2'	1:C1:1455:G:H5'	2.29	0.63
1:C1:1560:U:C2'	1:C1:1560:U:O2	2.41	0.63
1:C1:1595:U:C6	1:C1:1596:C:N3	2.64	0.63
29:B1:2520:A:N3	29:B1:2521:U:C2	2.66	0.63
29:D1:1389:G:O2'	29:D1:1390:A:O5'	2.16	0.63
29:B1:1255:C:C5	74:B1:3567:OHX:N2	2.66	0.63
29:B1:1257:C:C5	29:B1:1258:U:H1'	2.32	0.63
29:D1:3357:U:H2'	29:D1:3358:U:C5	2.33	0.63
29:D1:3314:A:OP2	34:DC:174:LYS:O	2.17	0.63
29:D1:3004:C:O2'	29:D1:3005:A:H5'	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1754:A:HO2'	1:C1:1755:A:P	2.22	0.63
29:D1:2101:C:H2'	29:D1:2102:U:O4'	1.99	0.63
29:B1:130:A:C2	29:B1:139:G:C5	2.85	0.63
29:D1:2119:A:H8	29:D1:2119:A:O5'	1.82	0.63
1:A1:310:C:H3'	1:A1:310:C:C6	2.33	0.63
36:BE:156:GLY:HA2	36:BE:181:PRO:HA	1.78	0.63
29:B1:1864:A:H5''	29:B1:1865:A:OP2	1.97	0.63
29:D1:1634:G:C6	29:D1:1640:G:O6	2.51	0.63
1:C1:235:G:H2'	1:C1:236:A:C8	2.33	0.63
1:A1:1358:G:C6	1:A1:1359:C:N4	2.67	0.63
13:AL:78:HIS:O	13:AL:80:LYS:N	2.31	0.63
29:B1:271:C:C6	29:B1:295:A:N6	2.67	0.63
29:D1:2467:G:N2	29:D1:2488:A:H62	1.96	0.63
49:BT:84:TYR:O	49:BT:85:LEU:C	2.36	0.63
36:DE:35:ARG:HA	36:DE:38:THR:O	1.97	0.63
54:BY:67:HIS:CB	54:BY:107:ALA:O	2.47	0.63
6:CE:130:THR:O	6:CE:132:ARG:N	2.31	0.63
43:DN:81:VAL:O	43:DN:83:LYS:N	2.31	0.63
49:BT:53:PRO:O	49:BT:55:LYS:N	2.32	0.63
48:BS:98:ARG:O	48:BS:101:VAL:N	2.31	0.63
41:DJ:191:LYS:HA	41:DJ:192:ASP:CB	2.27	0.63
3:AB:245:ASP:C	3:AB:247:ALA:H	1.99	0.63
16:AO:62:VAL:O	16:AO:63:VAL:CB	2.45	0.63
41:DJ:87:LEU:HA	41:DJ:138:VAL:CB	2.28	0.63
1:A1:481:A:H2'	1:A1:482:U:C6	2.34	0.63
1:A1:523:G:H2'	1:A1:524:U:C4	2.34	0.63
1:A1:986:G:C4	1:A1:987:G:C8	2.87	0.63
29:B1:1302:A:C2	29:B1:2887:A:C4	2.86	0.63
29:B1:1799:A:C2	29:B1:1800:A:C2	2.87	0.63
29:B1:2246:G:C2	29:B1:2247:G:C8	2.86	0.63
29:B1:2847:A:N7	29:B1:2898:G:C6	2.66	0.63
29:B1:2897:A:H2	29:B1:2905:U:C2	2.15	0.63
29:B1:3296:A:C2	29:B1:3297:U:N1	2.67	0.63
29:B1:373:A:C2	29:B1:375:A:C5	2.87	0.63
29:B1:536:U:C6	29:B1:536:U:OP2	2.51	0.63
29:B1:716:A:C8	29:B1:716:A:H3'	2.34	0.63
29:B1:717:C:C5	29:B1:721:G:P	2.92	0.63
29:B1:722:G:N1	29:B1:748:U:C2	2.66	0.63
29:B1:757:C:O2	29:B1:757:C:C2'	2.45	0.63
29:B1:811:U:C2	29:B1:812:G:N7	2.67	0.63
43:BN:71:ALA:O	43:BN:72:LEU:C	2.37	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:131:C:H3'	1:C1:132:U:H4'	1.80	0.63
1:C1:13:C:C5'	3:CB:161:LYS:O	2.47	0.63
1:C1:166:C:H2'	1:C1:167:U:H5''	1.80	0.63
1:C1:1654:G:H2'	1:C1:1745:G:H22	1.62	0.63
1:C1:1744:A:H2'	1:C1:1745:G:H5'	1.81	0.63
1:C1:183:U:C5	1:C1:184:C:C4	2.86	0.63
1:C1:209:U:C2	1:C1:210:A:C8	2.87	0.63
29:D1:1110:U:H2'	29:D1:1111:U:C6	2.33	0.63
29:D1:1225:A:H2'	29:D1:1225:A:N3	2.14	0.63
29:D1:1328:C:H2'	29:D1:1329:U:C5	2.34	0.63
29:D1:2251:G:N2	29:D1:2252:A:C4	2.66	0.63
29:D1:2375:G:C8	29:D1:2378:C:N4	2.67	0.63
29:D1:2643:A:C5'	29:D1:2644:C:OP2	2.44	0.63
29:D1:285:A:H2	29:D1:305:U:P	2.22	0.63
29:D1:3393:U:C4	29:D1:3394:U:C5	2.87	0.63
29:D1:531:G:C2'	29:D1:532:A:H8	2.06	0.63
29:D1:548:G:H2'	29:D1:549:U:H4'	1.80	0.63
29:D1:627:U:O3'	29:D1:1399:A:C8	2.52	0.63
29:D1:722:G:C2	29:D1:748:U:C2	2.86	0.63
29:D1:726:G:C6	29:D1:727:G:C6	2.85	0.63
29:D1:773:G:N3	29:D1:774:G:C8	2.66	0.63
1:C1:974:A:H5'	29:D1:848:A:H1'	1.80	0.63
29:B1:2614:G:C2	29:B1:2797:C:H6	2.17	0.63
29:B1:2667:A:N7	29:B1:2690:G:N2	2.46	0.63
31:B3:54:A:C6	31:B3:55:U:C2	2.87	0.63
1:A1:289:U:O2	1:A1:290:G:C8	2.52	0.63
30:D2:106:U:O2	30:D2:107:C:C6	2.52	0.63
29:B1:2677:G:N2	29:B1:2679:A:C4	2.67	0.63
1:C1:1246:C:C4	1:C1:1247:U:C5	2.87	0.63
1:C1:1449:U:H2'	1:C1:1450:U:H6	1.64	0.63
1:C1:1533:C:H5''	1:C1:1534:G:OP2	1.98	0.63
1:A1:1214:U:H4'	1:A1:1245:G:H21	1.64	0.63
1:A1:1523:G:OP2	1:A1:1524:A:OP2	2.16	0.63
1:A1:1555:A:H2'	1:A1:1555:A:N3	2.13	0.63
1:A1:1603:U:H5''	1:A1:1604:U:OP2	1.98	0.63
29:B1:3231:U:H2'	29:B1:3232:G:C8	2.33	0.63
29:B1:3021:A:C4	29:B1:3023:U:O4	2.51	0.63
29:D1:3218:A:O2'	29:D1:3218:A:N3	2.32	0.63
1:A1:643:G:C2	1:A1:692:C:C2	2.86	0.63
29:D1:2687:G:H5'	74:D1:3430:OHX:N2	2.13	0.63
29:D1:1099:A:C2'	29:D1:1100:U:H5'	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1352:A:C8	29:B1:1352:A:P	2.92	0.63
29:B1:1354:G:H2'	29:B1:1355:A:C5	2.34	0.63
36:BE:226:TYR:CB	36:BE:233:ALA:H	2.10	0.63
44:DO:78:GLY:N	44:DO:79:ALA:HB2	2.14	0.63
45:BP:56:ASP:O	45:BP:60:LYS:N	2.29	0.63
13:AL:76:PRO:HA	13:AL:81:ILE:H	1.64	0.63
29:B1:172:G:N2	29:B1:173:G:C5	2.67	0.63
32:DA:54:LYS:HA	32:DA:55:LEU:CB	2.29	0.63
47:DR:21:SER:O	47:DR:22:ASP:CB	2.47	0.63
6:AE:95:TYR:O	6:AE:98:ALA:HB3	1.99	0.63
45:DP:37:ARG:HA	45:DP:107:GLY:HA2	1.79	0.63
40:DI:21:LYS:O	40:DI:22:SER:C	2.37	0.63
21:CT:264:SER:O	21:CT:268:GLN:HA	1.99	0.63
15:CN:25:THR:HA	15:CN:90:TYR:HA	1.79	0.63
41:BJ:87:LEU:HA	41:BJ:138:VAL:CB	2.29	0.63
1:A1:1003:A:N7	1:A1:1005:A:C6	2.66	0.63
29:B1:1194:G:O6	29:B1:1314:C:N3	2.32	0.63
29:B1:1551:C:H2'	29:B1:1552:G:C8	2.34	0.63
29:B1:1845:G:H1	29:B1:1849:C:C2'	2.11	0.63
29:B1:1895:A:C6	29:B1:2341:A:C6	2.86	0.63
29:B1:2251:G:N2	29:B1:2252:A:C4	2.66	0.63
29:B1:2864:A:C5	29:B1:2865:U:C5	2.86	0.63
29:B1:2892:A:H2'	29:B1:2893:C:C6	2.34	0.63
29:B1:305:U:O2'	29:B1:306:A:C8	2.52	0.63
29:B1:776:U:O5'	29:B1:777:U:OP2	2.16	0.63
29:B1:88:A:C2	29:B1:281:G:N3	2.67	0.63
29:B1:407:A:N1	31:B3:17:A:H1'	2.13	0.63
1:C1:100:A:OP2	1:C1:101:U:OP2	2.17	0.63
1:C1:364:G:C8	1:C1:377:G:N2	2.67	0.63
29:D1:21:G:O2'	31:D3:37:A:N6	2.32	0.63
29:D1:2714:G:N2	29:D1:2751:G:C6	2.66	0.63
29:D1:2847:A:N7	29:D1:2898:G:C6	2.66	0.63
29:D1:2904:U:C3'	29:D1:2904:U:O2	2.46	0.63
29:D1:2997:G:C1'	29:D1:2998:U:P	2.82	0.63
29:D1:297:G:H4'	29:D1:299:G:H4'	1.80	0.63
29:D1:3325:G:H1	29:D1:3380:U:H3	1.46	0.63
29:D1:3387:U:C4	29:D1:3388:C:N4	2.66	0.63
29:D1:609:G:C5	29:D1:610:G:C6	2.87	0.63
29:D1:785:G:OP1	29:D1:785:G:O4'	2.16	0.63
29:D1:847:A:C2	29:D1:848:A:C4	2.86	0.63
31:D3:111:A:H5''	31:D3:111:A:H8	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:849:C:C4	1:A1:850:A:N7	2.67	0.63
31:B3:65:A:C5	31:B3:66:A:C5	2.87	0.63
30:D2:76:A:C4	30:D2:78:U:O4	2.52	0.63
1:C1:339:C:H2'	1:C1:340:U:H6	1.62	0.63
1:C1:1365:C:C4	1:C1:1366:U:C5	2.87	0.63
1:C1:1499:G:H2'	1:C1:1500:C:H6	1.64	0.63
1:C1:1536:G:N2	1:C1:1538:U:H3	1.96	0.63
1:C1:1552:U:C2'	1:C1:1552:U:O2	2.46	0.63
1:C1:1602:C:O2	1:C1:1602:C:H2'	1.98	0.63
1:A1:1525:A:C2	1:A1:1526:A:C4	2.87	0.63
1:A1:1558:U:C5	1:A1:1559:A:H2'	2.34	0.63
29:D1:3212:C:C5	29:D1:3213:A:N1	2.66	0.63
30:B2:94:C:H2'	30:B2:95:A:H8	1.63	0.63
29:B1:3218:A:H4'	29:B1:3220:G:C8	2.34	0.63
43:BN:89:ALA:O	43:BN:90:VAL:C	2.37	0.63
29:D1:3202:G:P	29:D1:3202:G:H3'	2.38	0.63
29:B1:3018:C:C4	29:B1:3019:U:C5	2.87	0.63
30:B2:25:G:H2'	30:B2:26:C:C6	2.34	0.63
30:D2:42:A:N3	30:D2:45:A:N6	2.47	0.63
29:B1:2516:U:H2'	29:B1:2517:U:H6	1.62	0.63
2:CA:171:GLY:O	2:CA:173:ILE:N	2.32	0.63
1:A1:1314:U:O2'	1:A1:1315:U:P	2.56	0.63
1:A1:1391:A:H2'	1:A1:1392:U:C6	2.33	0.63
29:D1:1680:G:O2'	29:D1:1681:U:O5'	2.16	0.63
30:B2:116:C:H2'	30:B2:117:A:H8	1.64	0.63
29:B1:2119:A:N7	29:B1:2120:A:N1	2.46	0.63
36:BE:125:VAL:HA	36:BE:169:GLY:HA3	1.81	0.63
53:DX:34:PRO:HA	53:DX:47:ALA:HB2	1.80	0.63
20:AS:21:CYS:O	20:AS:23:VAL:O	2.16	0.63
8:CG:108:ASP:O	8:CG:111:ALA:HB3	1.98	0.63
29:B1:173:G:H2'	29:B1:174:C:C6	2.33	0.63
29:D1:789:A:H2'	29:D1:790:U:C6	2.34	0.63
1:C1:1624:C:O2	1:C1:1624:C:H2'	1.98	0.63
3:CB:236:PRO:O	3:CB:237:VAL:C	2.36	0.63
35:DD:259:ASP:HA	35:DD:260:GLN:C	2.19	0.63
16:CO:102:VAL:O	16:CO:104:LEU:N	2.32	0.63
17:CP:106:GLY:HA2	17:CP:122:PHE:HA	1.79	0.63
39:DH:85:ASN:O	39:DH:88:ALA:HB3	1.99	0.63
41:BJ:97:LEU:O	41:BJ:123:HIS:N	2.32	0.63
36:BE:188:GLU:CB	36:BE:189:GLU:HA	2.29	0.63
36:DE:194:LEU:O	36:DE:196:ARG:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1635:A:O5'	1:A1:1635:A:H8	1.82	0.63
1:A1:22:A:C6	1:A1:604:A:N1	2.67	0.63
1:A1:610:G:C2	1:A1:614:C:N3	2.67	0.63
29:B1:1157:G:N1	29:B1:1158:A:N3	2.47	0.63
29:B1:1210:U:C2'	29:B1:1211:U:H5'	2.28	0.63
29:B1:1294:A:O2'	29:B1:1295:G:P	2.57	0.63
29:B1:1370:G:OP1	54:BY:17:ALA:O	2.16	0.63
29:B1:1902:G:C2	29:B1:1903:U:H1'	2.33	0.63
29:B1:208:C:N3	29:B1:209:A:N7	2.47	0.63
29:B1:2254:U:O2	29:B1:2261:G:C2	2.50	0.63
29:B1:2289:U:C2	29:B1:2290:C:C5	2.86	0.63
29:B1:2308:C:H3'	29:B1:2309:A:H5''	1.79	0.63
29:B1:2776:C:H5'	29:B1:2777:G:C5'	2.27	0.63
29:B1:284:A:C2	29:B1:306:A:N9	2.67	0.63
29:B1:1902:G:P	29:B1:2918:G:H5'	2.39	0.63
29:B1:2918:G:N3	29:B1:2919:A:C8	2.67	0.63
29:B1:3046:A:C6	29:B1:3047:U:C4	2.86	0.63
29:B1:3316:A:C6	29:B1:3388:C:N3	2.67	0.63
29:B1:3393:U:C4	29:B1:3394:U:C5	2.86	0.63
29:B1:523:A:C2'	29:B1:524:U:H5'	2.27	0.63
29:B1:560:G:HO2'	29:B1:561:C:H5'	1.59	0.63
29:B1:609:G:P	29:B1:609:G:C3'	2.86	0.63
29:B1:759:U:H2'	29:B1:760:G:H5''	1.80	0.63
29:B1:776:U:H5'	29:B1:777:U:C5'	2.21	0.63
37:BF:56:LYS:C	37:BF:58:LEU:H	2.01	0.63
1:C1:1778:G:N1	1:C1:1779:U:C4	2.67	0.63
1:C1:210:A:C4	1:C1:211:U:C5	2.87	0.63
1:C1:479:C:C3'	1:C1:480:G:C8	2.82	0.63
29:D1:1342:C:H2'	29:D1:1343:A:C8	2.34	0.63
29:D1:1495:U:O2'	29:D1:1514:G:H4'	1.98	0.63
29:D1:122:A:H1'	29:D1:150:A:H4'	1.80	0.63
29:D1:157:A:N1	29:D1:266:A:C2	2.67	0.63
29:D1:2383:C:C2'	29:D1:2384:A:H8	2.12	0.63
29:D1:2921:U:H3'	29:D1:2923:U:OP2	1.99	0.63
29:D1:2922:G:H1'	29:D1:2951:G:H21	1.61	0.63
29:D1:3321:C:C2	29:D1:3322:A:N7	2.67	0.63
29:D1:3363:U:C5	29:D1:3364:C:H1'	2.34	0.63
29:D1:910:G:C4	29:D1:911:C:C5	2.87	0.63
31:D3:114:G:C2'	31:D3:115:C:H5'	2.29	0.63
46:DQ:85:ALA:O	46:DQ:87:SER:N	2.32	0.63
29:D1:1370:G:OP1	54:DY:17:ALA:O	2.17	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:701:U:H3'	1:A1:702:G:C5'	2.29	0.63
29:B1:965:A:N1	29:B1:966:U:C2	2.67	0.63
31:B3:65:A:C6	31:B3:66:A:C6	2.87	0.63
1:C1:1677:C:H2'	1:C1:1677:C:O2	1.98	0.63
1:C1:1493:A:N3	1:C1:1493:A:H2'	2.13	0.63
1:A1:1506:G:O2'	1:A1:1507:G:H5'	1.99	0.63
1:A1:1558:U:C5	1:A1:1559:A:H5''	2.34	0.63
1:A1:1583:A:O2'	1:A1:1584:G:C5'	2.45	0.63
29:B1:3209:A:C3'	29:B1:3210:A:C8	2.82	0.63
29:D1:3201:C:C2'	29:D1:3202:G:H8	2.06	0.63
29:B1:1257:C:C4	29:B1:1258:U:H1'	2.33	0.63
29:B1:1697:A:N7	29:B1:1698:C:C5	2.67	0.63
29:D1:1235:U:C5	29:D1:1237:G:H4'	2.33	0.63
29:B1:3221:C:O2'	29:B1:3222:U:H5'	1.99	0.63
29:D1:2510:U:C2	29:D1:2511:A:C8	2.87	0.63
29:B1:1508:C:O2'	29:B1:2353:G:H1'	1.98	0.63
1:A1:897:C:C2	1:A1:914:G:N2	2.67	0.63
1:C1:901:G:OP1	1:C1:901:G:H4'	1.98	0.63
47:BR:98:LYS:CA	47:BR:117:ALA:HB1	2.25	0.63
29:B1:2881:C:C2	29:B1:2882:U:C5	2.87	0.63
30:D2:119:U:H5'	30:D2:120:C:OP2	1.98	0.63
29:B1:1949:G:H2'	29:B1:1950:U:H6	1.63	0.63
29:B1:2101:C:C2'	29:B1:2102:U:H5'	2.29	0.63
29:D1:1730:G:C6	55:DZ:26:GLY:HA2	2.34	0.63
29:B1:1353:U:C5	29:B1:1355:A:N6	2.66	0.63
1:C1:727:U:C2	1:C1:728:U:H5	2.17	0.63
43:BN:22:LEU:CB	43:BN:65:LEU:CA	2.76	0.63
17:CP:127:VAL:CB	17:CP:129:GLY:H	2.12	0.63
1:A1:697:C:H3'	1:A1:698:U:H5''	1.79	0.63
34:BC:193:ASP:O	34:BC:196:ARG:N	2.31	0.63
29:B1:791:A:H5''	29:B1:792:G:OP2	1.99	0.63
29:D1:2202:C:H2'	29:D1:2202:C:O2	1.99	0.63
45:BP:21:SER:O	45:BP:22:VAL:C	2.35	0.63
3:AB:139:ILE:O	3:AB:141:ARG:N	2.32	0.63
29:D1:137:G:C8	29:D1:137:G:H3'	2.34	0.63
35:BD:215:ILE:O	35:BD:216:VAL:C	2.37	0.63
1:A1:1030:A:H4'	1:A1:1031:U:OP2	1.99	0.63
1:A1:1075:C:N4	1:A1:1076:A:N6	2.46	0.63
1:A1:396:G:H22	1:A1:399:A:H5''	1.63	0.63
1:A1:600:U:H2'	1:A1:601:A:C8	2.34	0.63
1:A1:938:G:N2	1:A1:942:G:C5	2.67	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1144:U:HO2'	29:B1:1145:G:P	2.22	0.63
29:B1:1439:U:C2	29:B1:1440:G:N7	2.67	0.63
29:B1:1654:A:C2	29:B1:1655:G:H1'	2.34	0.63
29:B1:2143:A:N7	29:B1:2145:A:C5	2.67	0.63
29:B1:2151:C:C6	29:B1:2151:C:H5'	2.26	0.63
29:B1:278:U:C2	29:B1:279:U:C5	2.87	0.63
29:B1:2966:G:C2'	29:B1:2967:A:H5'	2.28	0.63
29:B1:3095:U:C2'	29:B1:3096:C:O5'	2.46	0.63
29:B1:3160:U:O4	29:B1:3290:G:O6	2.17	0.63
29:B1:762:U:C5	74:B1:3479:OHX:N6	2.66	0.63
29:B1:377:A:C2'	29:B1:391:A:H61	2.12	0.63
29:B1:512:U:C1'	29:B1:579:G:N2	2.62	0.63
29:B1:692:A:C4	29:B1:693:A:C8	2.87	0.63
29:B1:739:G:H3'	29:B1:740:G:H8	1.64	0.63
29:B1:872:U:O2'	29:B1:873:C:H5'	1.99	0.63
1:C1:1032:G:H2'	1:C1:1033:C:C6	2.34	0.63
1:C1:1149:G:C4'	1:C1:1150:G:OP1	2.47	0.63
1:C1:518:A:N6	1:C1:535:A:H1'	2.13	0.63
1:C1:871:G:O6	1:C1:957:G:C6	2.52	0.63
29:D1:1468:A:O2'	29:D1:1469:C:O5'	2.16	0.63
29:D1:1876:U:H2'	29:D1:1877:U:C5	2.34	0.63
29:D1:3093:C:H5'	29:D1:3093:C:H6	1.64	0.63
29:D1:3376:A:OP2	29:D1:3376:A:H4'	1.99	0.63
29:D1:536:U:H6	29:D1:536:U:O5'	1.82	0.63
29:D1:573:C:O2'	29:D1:574:U:H5'	1.99	0.63
29:D1:607:A:C6	29:D1:608:A:C5	2.87	0.63
29:D1:656:A:H3'	29:D1:657:A:H8	1.63	0.63
29:D1:693:A:H2'	29:D1:694:C:H6	1.63	0.63
29:D1:758:C:H1'	29:D1:759:U:OP2	1.99	0.63
29:D1:760:G:HO2'	29:D1:761:A:H8	1.47	0.63
31:D3:103:G:N1	31:D3:105:A:N6	2.46	0.63
31:D3:74:U:H3'	31:D3:76:C:H5''	1.80	0.63
37:DF:43:LEU:O	37:DF:45:GLY:N	2.32	0.63
1:A1:708:C:O2'	1:A1:709:C:H5'	1.99	0.63
29:B1:993:G:H1'	29:B1:2637:A:H2'	1.81	0.63
31:B3:82:U:H2'	31:B3:83:C:O2	1.99	0.63
1:A1:1685:G:N2	1:A1:1686:C:C2	2.67	0.63
46:BQ:9:THR:C	46:BQ:12:ALA:H	2.03	0.63
29:B1:3184:A:C8	29:B1:3184:A:H5''	2.25	0.63
30:B2:30:G:H2'	30:B2:31:U:O5'	1.98	0.63
29:D1:3225:C:N4	29:D1:3261:C:N4	2.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3277:U:H6	29:D1:3277:U:H3'	1.63	0.63
29:D1:2233:A:C8	29:D1:2234:G:C8	2.87	0.63
29:D1:2592:G:C5	74:D1:3463:OHX:N1	2.67	0.63
29:B1:1627:U:H4'	29:B1:1627:U:OP1	1.98	0.63
29:B1:2353:G:C4	29:B1:2354:C:C6	2.87	0.63
1:C1:1094:G:H2'	1:C1:1095:U:C5	2.34	0.63
29:B1:1001:G:C8	29:B1:1042:U:OP1	2.52	0.63
29:D1:2119:A:N7	29:D1:2120:A:N1	2.47	0.63
29:D1:5:G:H22	31:D3:155:A:H1'	1.61	0.63
29:D1:2549:G:H4'	29:D1:2550:U:OP1	1.96	0.63
29:D1:1347:U:H4'	29:D1:1348:U:OP2	1.99	0.63
29:B1:1337:A:C6	29:B1:1338:C:C4	2.86	0.63
29:D1:1024:G:H2'	29:D1:1025:A:H5'	1.79	0.63
1:A1:763:G:H2'	1:A1:764:U:H6	1.62	0.63
1:C1:789:A:H3'	1:C1:790:U:H6	1.64	0.63
29:B1:1815:U:H2'	29:B1:1816:A:H5'	1.80	0.63
1:C1:563:U:C4	1:C1:564:G:C6	2.87	0.63
29:B1:1867:A:H2'	29:B1:1868:G:C8	2.34	0.63
1:C1:1189:A:N3	1:C1:1189:A:H2'	2.14	0.63
46:BQ:47:TYR:C	46:BQ:49:GLU:H	2.01	0.63
50:BU:45:ARG:O	50:BU:47:ASN:N	2.23	0.63
52:BW:76:VAL:O	52:BW:132:ALA:HB1	1.98	0.63
41:DJ:12:GLN:O	41:DJ:14:ASN:N	2.32	0.63
29:B1:1049:C:C2	29:B1:1050:U:C5	2.86	0.63
1:A1:445:A:H1'	1:A1:524:U:H4'	1.81	0.62
1:A1:461:G:H2'	1:A1:462:G:C8	2.34	0.62
1:A1:521:A:C3'	1:A1:523:G:C8	2.82	0.62
1:A1:863:A:C8	1:A1:865:A:C8	2.86	0.62
1:A1:955:A:H2'	1:A1:956:C:C6	2.33	0.62
29:B1:644:G:C4'	29:B1:1153:A:C2	2.66	0.62
29:B1:1388:U:H2'	29:B1:1389:G:H8	1.63	0.62
29:B1:1898:G:O2'	50:BU:21:ALA:HB2	1.99	0.62
29:B1:199:A:C6	29:B1:219:A:N6	2.68	0.62
29:B1:2289:U:C2'	29:B1:2290:C:H5'	2.29	0.62
29:B1:22:G:O6	31:B3:35:C:N4	2.32	0.62
29:B1:2992:U:C2'	29:B1:2993:G:H5'	2.13	0.62
29:B1:3005:A:C4	29:B1:3140:G:C2	2.87	0.62
29:B1:3328:G:N1	29:B1:3375:A:N7	2.46	0.62
29:B1:3327:G:C2	29:B1:3328:G:N7	2.67	0.62
29:B1:3388:C:H2'	29:B1:3389:U:C5	2.34	0.62
29:B1:395:A:OP1	29:B1:395:A:C8	2.53	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:585:A:C5'	29:B1:586:C:OP2	2.46	0.62
29:B1:693:A:H5''	29:B1:694:C:OP2	1.99	0.62
29:B1:716:A:OP2	29:B1:716:A:N3	2.32	0.62
29:B1:771:A:H3'	29:B1:772:U:C5'	2.28	0.62
29:B1:935:U:H2'	29:B1:936:A:C8	2.34	0.62
29:B1:10:C:C5	31:B3:149:A:H2	2.17	0.62
1:C1:1145:U:C3'	1:C1:1146:G:H5''	2.29	0.62
1:C1:129:U:C4	1:C1:264:G:C5	2.86	0.62
1:C1:162:A:C2'	1:C1:163:G:C8	2.81	0.62
1:C1:1777:G:C5	1:C1:1778:G:N7	2.67	0.62
1:C1:1765:A:OP2	74:C1:1983:OHX:N4	2.32	0.62
29:D1:1157:G:C6	29:D1:1158:A:C4	2.86	0.62
29:D1:1291:A:H2'	29:D1:1292:C:O5'	1.99	0.62
29:D1:1550:C:O2'	29:D1:1551:C:H5'	1.99	0.62
29:D1:157:A:N1	29:D1:266:A:H2	1.97	0.62
29:D1:258:G:O2'	29:D1:259:C:O5'	2.17	0.62
29:D1:2699:G:H2'	29:D1:2700:G:C8	2.34	0.62
29:D1:308:A:C2	29:D1:2782:U:C2	2.83	0.62
29:D1:2830:G:O2'	29:D1:2831:G:H5'	1.98	0.62
29:D1:3322:A:C5	29:D1:3386:G:N2	2.67	0.62
29:D1:2254:U:O4	74:D1:3583:OHX:N5	2.32	0.62
29:D1:703:G:N1	29:D1:704:U:N3	2.47	0.62
29:D1:776:U:OP1	29:D1:777:U:OP2	2.16	0.62
29:D1:955:U:C2	29:D1:956:U:C5	2.86	0.62
30:B2:7:G:H2'	30:B2:8:G:O4'	1.98	0.62
1:A1:150:U:H5'	1:A1:151:G:OP2	1.98	0.62
1:A1:289:U:O2	1:A1:290:G:H5''	1.99	0.62
1:A1:114:C:C4	1:A1:248:U:C4	2.87	0.62
1:C1:1172:G:C4	1:C1:1173:C:C5	2.86	0.62
1:C1:1453:G:H2'	1:C1:1454:G:C8	2.34	0.62
1:C1:1567:U:H2'	1:C1:1568:C:O4'	1.98	0.62
15:CN:12:GLN:O	15:CN:14:GLN:N	2.32	0.62
1:A1:1168:U:C2'	1:A1:1169:G:H5'	2.29	0.62
1:A1:1368:G:H5''	1:A1:1369:U:OP2	1.99	0.62
29:B1:3208:G:O2'	29:B1:3209:A:OP1	2.17	0.62
15:AN:20:ILE:CB	15:AN:21:LYS:HA	2.28	0.62
29:B1:3252:G:H2'	29:B1:3253:G:C8	2.34	0.62
30:B2:46:A:O2'	30:B2:47:C:H5'	1.99	0.62
29:D1:225:C:H2'	29:D1:226:C:C6	2.34	0.62
31:B3:125:U:N3	74:B3:206:OHX:N2	2.46	0.62
36:BE:94:ASN:O	36:BE:96:ALA:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:847:A:C2'	29:B1:848:A:C8	2.78	0.62
1:C1:1314:U:O2'	1:C1:1315:U:P	2.57	0.62
1:C1:1331:A:H2'	1:C1:1332:C:O5'	1.99	0.62
29:D1:2207:A:H8	29:D1:2237:C:O2	1.81	0.62
29:D1:1080:A:C2	29:D1:1082:U:O5'	2.52	0.62
29:D1:2160:G:H2'	29:D1:2161:G:H8	1.64	0.62
29:D1:2576:G:H2'	29:D1:2577:C:H6	1.64	0.62
29:D1:2603:G:H3'	29:D1:2604:U:C6	2.33	0.62
54:BY:131:SER:C	54:BY:133:LEU:N	2.45	0.62
17:AP:104:LEU:O	17:AP:105:ALA:CB	2.46	0.62
1:A1:1694:A:H61	1:A1:1708:U:H2'	1.62	0.62
1:A1:802:G:C5	1:A1:803:A:N1	2.67	0.62
6:AE:143:ILE:O	6:AE:145:SER:N	2.28	0.62
8:CG:67:THR:O	8:CG:71:ILE:CB	2.46	0.62
54:BY:90:TYR:O	54:BY:92:LYS:HA	1.99	0.62
29:D1:1571:A:C6	29:D1:1572:U:H1'	2.35	0.62
29:D1:1671:C:H2'	29:D1:1671:C:O2	1.99	0.62
49:BT:77:ASN:HA	49:BT:87:LYS:O	1.99	0.62
1:A1:298:C:H3'	1:A1:298:C:C6	2.34	0.62
1:A1:617:U:O4'	1:A1:1031:U:O2	2.17	0.62
1:A1:964:U:H1'	1:A1:965:U:OP2	1.99	0.62
29:B1:1315:U:C2'	29:B1:1315:U:O2	2.46	0.62
29:B1:1317:A:H8	29:B1:1317:A:H5'	1.64	0.62
29:B1:1329:U:H6	29:B1:1329:U:O5'	1.81	0.62
29:B1:158:G:H2'	29:B1:159:A:H4'	1.81	0.62
29:B1:1680:G:O2'	29:B1:1681:U:O5'	2.16	0.62
29:B1:1780:G:H2'	29:B1:1781:C:C5	2.34	0.62
29:B1:223:U:O2'	29:B1:224:C:OP1	2.14	0.62
29:B1:3067:C:O2'	29:B1:3068:U:H5'	1.99	0.62
29:B1:3148:U:H2'	29:B1:3149:G:C8	2.35	0.62
29:B1:3370:A:H5'	29:B1:3371:G:OP1	1.99	0.62
29:B1:1199:C:O2	74:B1:3587:OHX:N3	2.32	0.62
29:B1:571:U:C2'	29:B1:572:A:H5'	2.29	0.62
29:B1:591:G:O2'	29:B1:592:A:C5'	2.47	0.62
29:B1:84:U:C5	29:B1:85:A:C4	2.88	0.62
29:B1:900:G:H1'	29:B1:1589:A:H61	1.63	0.62
1:C1:1673:G:C5	1:C1:1674:C:C5	2.88	0.62
1:C1:1673:G:H2'	1:C1:1674:C:H5'	1.79	0.62
1:C1:22:A:C6	1:C1:604:A:N1	2.67	0.62
1:C1:289:U:O2	1:C1:290:G:H8	1.82	0.62
1:C1:426:G:N1	1:C1:427:C:C4	2.67	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:44:U:OP2	1:C1:45:U:O4	2.17	0.62
1:C1:862:A:N9	1:C1:963:A:N6	2.47	0.62
29:D1:1105:A:C6	29:D1:1106:G:C6	2.88	0.62
29:D1:1553:U:H1'	29:D1:1582:C:H5	1.64	0.62
29:D1:158:G:C5	29:D1:159:A:O2'	2.43	0.62
29:D1:1856:C:H2'	29:D1:1857:C:H5'	1.81	0.62
29:D1:2167:A:H3'	29:D1:2168:A:H8	1.65	0.62
29:D1:2294:U:C6	29:D1:2297:U:H5	2.17	0.62
29:D1:2617:U:H4'	29:D1:2644:C:C5	2.33	0.62
29:D1:2836:C:H5	29:D1:2853:A:N1	1.98	0.62
29:D1:301:G:O2'	29:D1:302:U:H5'	1.98	0.62
29:D1:3097:C:H2'	29:D1:3098:G:H8	1.63	0.62
29:D1:340:C:O2'	29:D1:341:G:O4'	2.10	0.62
29:D1:515:C:C4	29:D1:516:A:C8	2.88	0.62
29:D1:563:U:C3'	29:D1:564:G:H4'	2.28	0.62
29:D1:576:C:H2'	29:D1:577:C:O5'	1.97	0.62
29:D1:977:C:C2	29:D1:978:G:N7	2.67	0.62
31:D3:128:U:H5'	31:D3:129:C:OP2	1.99	0.62
33:DB:200:ARG:C	33:DB:202:VAL:H	2.01	0.62
38:DG:85:PHE:HA	38:DG:115:THR:O	1.98	0.62
29:D1:1306:G:N9	45:DP:62:THR:CB	2.62	0.62
1:A1:702:G:N2	1:A1:703:G:C2	2.67	0.62
1:C1:845:G:H2'	1:C1:846:G:H5''	1.81	0.62
29:B1:955:U:N3	29:B1:956:U:C4	2.67	0.62
31:B3:56:G:H2'	31:B3:57:C:H6	1.65	0.62
1:A1:1719:A:O3'	1:A1:1720:G:C8	2.52	0.62
1:A1:246:G:C6	1:A1:247:A:C2	2.87	0.62
1:A1:330:G:H5''	1:A1:331:A:OP2	2.00	0.62
1:C1:1179:G:C6	1:C1:1180:C:C2	2.87	0.62
1:C1:1348:A:C3'	1:C1:1348:A:C8	2.81	0.62
1:A1:1472:C:C5	1:A1:1474:G:C2	2.86	0.62
1:A1:1517:U:O2'	1:A1:1518:C:H5'	1.99	0.62
1:A1:1558:U:H3'	1:A1:1558:U:C6	2.34	0.62
1:A1:1609:U:H6	1:A1:1609:U:H5''	1.63	0.62
29:B1:3213:A:H3'	29:B1:3213:A:C8	2.34	0.62
29:D1:3194:C:N4	29:D1:3196:U:OP1	2.32	0.62
46:DQ:9:THR:H	46:DQ:10:ASN:CA	2.12	0.62
30:D2:25:G:N2	30:D2:26:C:N3	2.47	0.62
20:CS:49:ASP:H	20:CS:50:ILE:CB	2.12	0.62
1:C1:1410:A:N6	1:C1:1411:A:C2	2.67	0.62
29:B1:989:A:O2'	29:B1:990:U:H5'	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:915:A:OP2	1:A1:915:A:H8	1.82	0.62
36:DE:97:ALA:CA	36:DE:100:ALA:HB3	2.22	0.62
29:D1:1013:G:H2'	29:D1:1015:U:OP2	2.00	0.62
50:BU:97:ASP:O	50:BU:98:ASN:CB	2.46	0.62
74:D1:3471:OHX:N3	74:D1:3607:OHX:N5	2.47	0.62
45:DP:99:LEU:O	45:DP:101:ARG:N	2.25	0.62
1:C1:1501:C:H2'	1:C1:1502:G:H5'	1.81	0.62
41:BJ:144:ASN:O	41:BJ:147:VAL:CB	2.47	0.62
29:B1:2414:G:C2'	29:B1:2415:C:O5'	2.47	0.62
40:DI:155:SER:O	40:DI:158:ALA:HB3	1.99	0.62
20:CS:25:SER:O	20:CS:27:HIS:N	2.32	0.62
3:CB:208:GLU:O	3:CB:212:LYS:CB	2.47	0.62
1:A1:1109:G:C2'	1:A1:1110:G:C5'	2.74	0.62
1:A1:18:C:C2	1:A1:19:A:C8	2.88	0.62
1:A1:4:C:H2'	1:A1:5:U:C6	2.34	0.62
1:A1:477:A:C4	1:A1:539:G:O6	2.52	0.62
29:B1:1911:A:O4'	29:B1:2333:C:O2'	2.16	0.62
29:B1:2262:A:N3	29:B1:2263:C:H5''	2.13	0.62
29:B1:2251:G:C6	29:B1:2266:U:O2	2.52	0.62
29:B1:2407:C:H1'	29:B1:2818:U:N3	2.14	0.62
29:B1:3056:U:N3	29:B1:3056:U:OP1	2.32	0.62
29:B1:325:A:C3'	29:B1:327:A:OP1	2.44	0.62
29:B1:3294:A:H2'	29:B1:3295:A:H5'	1.81	0.62
29:B1:32:U:C4	29:B1:33:G:C5	2.88	0.62
29:B1:3331:U:C3'	29:B1:3332:U:H5'	2.29	0.62
29:B1:3322:A:C5	29:B1:3386:G:N2	2.68	0.62
74:B1:3537:OHX:N6	38:BG:217:PRO:O	2.33	0.62
29:B1:516:A:H3'	29:B1:517:G:N7	2.10	0.62
29:B1:524:U:O2'	29:B1:525:C:C5'	2.47	0.62
29:B1:557:A:C3'	29:B1:557:A:C8	2.82	0.62
29:B1:564:G:P	29:B1:565:U:OP1	2.58	0.62
29:B1:37:U:OP1	29:B1:934:G:N2	2.31	0.62
29:B1:962:A:O2'	29:B1:963:G:H5''	1.99	0.62
1:C1:1076:A:N7	1:C1:1077:C:C6	2.66	0.62
1:C1:1780:G:C6	1:C1:1781:A:C6	2.87	0.62
1:C1:107:C:O2'	1:C1:362:G:N3	2.32	0.62
1:C1:539:G:N2	1:C1:543:C:N3	2.46	0.62
1:C1:544:A:O2'	1:C1:545:A:P	2.58	0.62
29:D1:156:G:H1'	29:D1:157:A:C4'	2.29	0.62
29:D1:1661:G:H8	29:D1:1661:G:H5''	1.64	0.62
29:D1:28:C:O2'	29:D1:61:A:H1'	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3019:U:C4	29:D1:3020:U:C5	2.88	0.62
29:D1:3333:G:N1	29:D1:3370:A:H4'	2.13	0.62
29:D1:336:A:O2'	29:D1:337:G:C5'	2.44	0.62
29:D1:504:A:C6	29:D1:505:G:C6	2.87	0.62
29:D1:637:C:C2	29:D1:2361:A:N3	2.67	0.62
29:D1:722:G:H22	29:D1:749:C:H6	1.47	0.62
29:D1:84:U:C5	29:D1:85:A:C4	2.88	0.62
29:D1:965:A:OP1	74:D1:3568:OHX:N1	2.32	0.62
31:D3:129:C:O5'	31:D3:129:C:H6	1.81	0.62
1:A1:730:G:N3	1:A1:730:G:H2'	2.13	0.62
1:C1:651:G:N7	74:C1:1970:OHX:N5	2.47	0.62
1:C1:643:G:C2	1:C1:692:C:C2	2.86	0.62
31:B3:81:U:C3'	31:B3:82:U:H5''	2.27	0.62
1:A1:198:A:O2'	1:A1:199:G:O4'	2.16	0.62
1:A1:288:A:N3	1:A1:289:U:C5	2.63	0.62
30:D2:63:A:O2'	30:D2:65:G:C8	2.52	0.62
1:A1:1473:U:O4'	1:A1:1473:U:O2	2.17	0.62
29:D1:3207:U:C5	29:D1:3209:A:C2	2.87	0.62
29:B1:1461:A:C5	29:B1:1462:A:N7	2.67	0.62
29:B1:1461:A:H2'	29:B1:1462:A:C8	2.34	0.62
46:BQ:16:SER:HA	46:BQ:149:VAL:HA	1.81	0.62
29:B1:3232:G:O6	29:B1:3255:U:O4	2.17	0.62
29:D1:3199:G:H3'	29:D1:3200:G:C8	2.31	0.62
29:D1:3221:C:C2	29:D1:3222:U:C5	2.88	0.62
29:D1:3384:U:C4	29:D1:3385:U:O4	2.53	0.62
29:B1:2592:G:H4'	29:B1:2594:C:N3	2.14	0.62
1:A1:981:U:H1'	1:A1:1124:A:C2	2.34	0.62
29:B1:2100:A:H4'	29:B1:2101:C:OP1	1.99	0.62
5:CD:161:ASP:CA	5:CD:162:VAL:CB	2.74	0.62
29:D1:2834:G:N3	29:D1:2835:U:C5	2.66	0.62
1:A1:1435:G:C4'	1:A1:1436:A:OP2	2.46	0.62
29:D1:835:G:N3	29:D1:857:G:N2	2.47	0.62
5:CD:93:LEU:O	5:CD:95:ASN:N	2.32	0.62
29:D1:2963:C:C2'	29:D1:2964:G:H5'	2.29	0.62
29:D1:600:G:C2	29:D1:604:G:C6	2.87	0.62
3:AB:239:PRO:C	3:AB:241:ASP:N	2.53	0.62
20:AS:38:ILE:N	74:AS:101:OHX:N3	2.47	0.62
20:AS:23:VAL:O	20:AS:24:CYS:O	2.17	0.62
29:B1:738:A:N3	29:B1:738:A:H2'	2.14	0.62
29:B1:244:G:C6	29:B1:245:U:O2	2.51	0.62
1:C1:568:G:C2'	1:C1:569:C:H5'	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2694:A:H2'	29:B1:2695:A:C1'	2.30	0.62
11:CJ:35:PRO:O	11:CJ:37:THR:N	2.32	0.62
33:DB:145:LYS:O	33:DB:156:LYS:HA	1.99	0.62
45:BP:158:ALA:O	45:BP:159:LYS:C	2.36	0.62
1:C1:1304:G:N7	1:C1:1305:U:C5	2.67	0.62
37:DF:173:MET:O	37:DF:174:LEU:CB	2.46	0.62
51:DV:4:GLU:O	51:DV:5:ILE:CB	2.47	0.62
1:A1:1654:G:H2'	1:A1:1745:G:N2	2.14	0.62
1:A1:1746:A:H5''	1:A1:1747:G:OP2	1.99	0.62
29:B1:1178:G:N7	29:B1:1179:A:C5	2.67	0.62
29:B1:186:U:H2'	29:B1:186:U:O2	1.97	0.62
29:B1:2157:G:H4'	29:B1:2158:A:H5'	1.82	0.62
29:B1:2839:G:C5	29:B1:2850:G:N2	2.67	0.62
29:B1:2857:C:H2'	29:B1:2858:U:H6	1.65	0.62
29:B1:282:G:C2	29:B1:286:U:H4'	2.35	0.62
29:B1:2931:C:N3	29:B1:2932:U:C5	2.68	0.62
29:B1:3057:U:H5'	29:B1:3086:A:N6	2.14	0.62
29:B1:3121:U:O4'	29:B1:3122:A:H5'	1.99	0.62
29:B1:3315:G:C5'	29:B1:3319:U:H5'	2.28	0.62
29:B1:3120:C:OP2	74:B1:3434:OHX:N6	2.33	0.62
29:B1:392:G:C5	29:B1:393:U:H5	2.17	0.62
29:B1:760:G:C2'	29:B1:761:A:H8	2.12	0.62
29:B1:773:G:N3	29:B1:774:G:C8	2.67	0.62
29:B1:974:G:C4	29:B1:975:C:C5	2.87	0.62
31:B3:2:A:N6	31:B3:3:A:C2	2.67	0.62
1:C1:1645:G:C2'	1:C1:1646:C:O5'	2.48	0.62
1:C1:542:A:HO2'	1:C1:543:C:H3'	1.64	0.62
1:C1:601:A:C5'	1:C1:602:U:OP2	2.47	0.62
1:C1:974:A:H5''	29:D1:848:A:O2'	1.99	0.62
1:C1:97:C:H1'	1:C1:426:G:C5'	2.23	0.62
29:D1:1214:U:C2'	29:D1:1215:U:H5'	2.28	0.62
29:D1:1369:A:H2'	29:D1:1370:G:O4'	1.99	0.62
29:D1:1539:A:C5	29:D1:1540:U:H5	2.17	0.62
29:D1:1795:U:O2'	29:D1:1796:G:P	2.56	0.62
29:D1:2137:U:H2'	29:D1:2137:U:O2	2.00	0.62
29:D1:2284:C:C2	29:D1:2308:C:O4'	2.51	0.62
29:D1:2325:G:C2	29:D1:2326:A:C8	2.87	0.62
29:D1:2743:A:C3'	29:D1:2744:U:H6	2.11	0.62
29:D1:1455:U:N3	29:D1:3077:A:OP1	2.29	0.62
29:D1:3149:G:N3	29:D1:3150:A:C1'	2.61	0.62
29:D1:591:G:O2'	29:D1:592:A:C5'	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:738:A:N3	29:D1:738:A:H2'	2.13	0.62
31:D3:102:U:C4	31:D3:103:G:C6	2.86	0.62
31:D3:103:G:C6	31:D3:105:A:C6	2.88	0.62
31:D3:67:U:C3'	31:D3:68:G:C8	2.81	0.62
35:DD:9:HIS:O	35:DD:17:ALA:HB3	1.99	0.62
29:B1:2628:A:C6	29:B1:2629:U:C5	2.87	0.62
29:B1:2702:A:O4'	29:B1:2704:A:N7	2.32	0.62
1:A1:285:G:C6	1:A1:286:C:C4	2.87	0.62
30:D2:70:U:O2'	30:D2:71:G:H5'	2.00	0.62
1:C1:1721:A:O5'	1:C1:1722:A:O5'	2.16	0.62
1:C1:1254:U:O2'	1:C1:1255:G:P	2.58	0.62
1:A1:1353:U:O2	1:A1:1353:U:H2'	1.99	0.62
1:A1:1378:U:C4	11:AJ:19:VAL:CB	2.82	0.62
29:B1:3228:C:H2'	29:B1:3229:G:C8	2.35	0.62
46:DQ:11:PRO:O	46:DQ:12:ALA:HB2	1.99	0.62
29:D1:3237:U:H2'	29:D1:3238:G:H8	1.65	0.62
29:D1:3280:U:O2'	29:D1:3281:U:P	2.57	0.62
29:D1:3381:U:H2'	29:D1:3383:G:N9	2.14	0.62
29:B1:1526:U:O4'	29:B1:1594:A:C2	2.52	0.62
29:D1:1256:G:N2	29:D1:1257:C:H1'	2.14	0.62
29:B1:70:A:N3	29:B1:71:A:H4'	2.15	0.62
21:CT:301:LEU:O	21:CT:312:VAL:HA	2.00	0.62
29:D1:3244:A:C8	29:D1:3245:A:C8	2.87	0.62
31:B3:25:G:C6	31:B3:26:U:N3	2.67	0.62
1:A1:1330:G:C4	1:A1:1331:A:C8	2.86	0.62
1:C1:897:C:C2	1:C1:914:G:N2	2.67	0.62
29:D1:649:A:C2	29:D1:650:C:C5	2.87	0.62
29:B1:1748:G:H2'	29:B1:1749:A:H8	1.64	0.62
54:BY:127:ALA:C	54:BY:129:PHE:H	2.02	0.62
36:BE:226:TYR:CB	36:BE:234:ASP:H	2.11	0.62
1:C1:238:U:H4'	1:C1:239:C:H5''	1.81	0.62
29:D1:2966:G:C6	29:D1:2967:A:N6	2.68	0.62
29:D1:2181:C:C2	29:D1:2182:A:C8	2.88	0.62
46:DQ:47:TYR:C	46:DQ:49:GLU:N	2.51	0.62
1:A1:930:A:H3'	1:A1:931:C:C6	2.34	0.62
48:DS:23:TRP:N	48:DS:51:VAL:O	2.33	0.62
35:DD:252:GLU:C	35:DD:254:ALA:N	2.52	0.62
39:DH:248:LYS:O	39:DH:250:ALA:N	2.32	0.62
1:A1:106:U:H3'	1:A1:107:C:H6	1.64	0.62
1:A1:623:A:H2	1:A1:1105:C:HO2'	1.45	0.62
1:A1:1759:C:H2'	1:A1:1760:G:C8	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:313:U:C5	1:A1:1118:G:N1	2.67	0.62
1:A1:396:G:H2'	1:A1:397:A:O5'	1.99	0.62
1:A1:442:C:O2'	1:A1:443:C:H5'	1.98	0.62
29:B1:1313:G:C5	29:B1:1314:C:C5	2.88	0.62
29:B1:1494:U:O2'	29:B1:1496:C:N4	2.33	0.62
29:B1:2294:U:C5'	29:B1:2295:A:OP 2	2.47	0.62
29:B1:2376:G:O2'	29:B1:2377:G:O5'	2.17	0.62
29:B1:2388:U:O2'	29:B1:2389:C:H5'	1.99	0.62
29:B1:2851:A:H3'	29:B1:2852:C:H5''	1.82	0.62
29:B1:2980:U:C2'	29:B1:2981:U:H5'	2.29	0.62
29:B1:3063:C:C2	29:B1:3064:U:C5	2.87	0.62
29:B1:3121:U:O2	29:B1:3122:A:N7	2.32	0.62
29:B1:312:C:H2'	29:B1:313:A:C8	2.33	0.62
29:B1:3141:A:H5'	29:B1:3143:C:C2'	2.29	0.62
29:B1:3377:G:H2'	74:B1:3450:OHX:N6	2.15	0.62
29:B1:34:A:OP1	29:B1:34:A:H4'	1.99	0.62
29:B1:35:A:C2	29:B1:36:C:C6	2.87	0.62
29:B1:592:A:O3'	29:B1:593:C:H4'	1.96	0.62
29:B1:749:C:H2'	29:B1:750:G:C8	2.33	0.62
29:B1:80:G:N1	29:B1:81:C:C4	2.68	0.62
29:B1:863:C:H2'	29:B1:864:G:H5'	1.81	0.62
29:B1:945:C:H2'	29:B1:946:U:C6	2.34	0.62
31:B3:156:U:H2'	31:B3:157:U:C5	2.35	0.62
37:BF:91:VAL:O	37:BF:92:SER:O	2.16	0.62
1:C1:1671:A:C8	1:C1:1731:A:C6	2.87	0.62
1:C1:365:G:C2	1:C1:366:A:C8	2.88	0.62
1:C1:553:G:C6	1:C1:554:C:N3	2.67	0.62
1:C1:61:A:C5'	1:C1:62:A:H5'	2.30	0.62
1:C1:940:A:N3	1:C1:941:A:C8	2.67	0.62
29:D1:1102:A:O3'	29:D1:1103:A:H4'	1.98	0.62
29:D1:1174:G:N3	29:D1:1175:C:C6	2.68	0.62
29:D1:1449:A:H2'	29:D1:1450:G:O4'	1.99	0.62
29:D1:1468:A:C2	29:D1:1469:C:C4	2.87	0.62
29:D1:2222:A:O2'	29:D1:2223:A:H8	1.82	0.62
29:D1:2805:G:O2'	29:D1:2806:U:H5'	1.99	0.62
29:D1:3030:G:O2'	29:D1:3031:G:O4'	2.16	0.62
29:D1:3057:U:HO2'	29:D1:3059:G:H8	1.45	0.62
29:D1:3128:G:H5''	29:D1:3129:A:OP 2	2.00	0.62
29:D1:3308:C:H3'	29:D1:3308:C:C6	2.34	0.62
29:D1:44:U:C5	29:D1:45:A:C4	2.87	0.62
29:D1:569:A:C6	29:D1:570:A:C8	2.87	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:762:U:H4'	29:D1:762:U:OP1	1.99	0.62
29:D1:773:G:O2'	29:D1:774:G:C5'	2.48	0.62
29:D1:80:G:C6	29:D1:106:A:C6	2.88	0.62
1:A1:714:G:C2	1:A1:715:U:H1'	2.34	0.62
1:C1:648:G:HO2'	1:C1:649:U:P	2.22	0.62
1:C1:750:U:H6	1:C1:750:U:O5'	1.83	0.62
29:B1:2628:A:C1'	29:B1:2798:C:C4	2.80	0.62
29:B1:991:G:N2	29:B1:992:A:H1'	2.14	0.62
30:D2:115:G:N3	30:D2:115:G:H2'	2.13	0.62
1:C1:1174:C:H4'	1:C1:1601:G:C6	2.34	0.62
1:C1:1199:G:C5	1:C1:1200:G:C1'	2.83	0.62
1:C1:1200:G:H8	1:C1:1200:G:H5''	1.64	0.62
1:C1:1204:A:H2'	1:C1:1204:A:N3	2.14	0.62
1:C1:1273:G:C5'	1:C1:1274:C:H5'	2.28	0.62
1:C1:1345:A:C8	1:C1:1346:A:N7	2.68	0.62
1:C1:1377:U:C6	1:C1:1377:U:O5'	2.52	0.62
1:C1:1458:G:H3'	1:C1:1459:C:C6	2.33	0.62
1:C1:1571:C:H3'	1:C1:1572:G:H5''	1.80	0.62
1:A1:1555:A:H5''	1:A1:1556:A:OP2	1.99	0.62
1:A1:1586:A:OP1	11:AJ:134:ALA:HB3	1.99	0.62
29:D1:211:A:H5'	29:D1:229:G:O2'	1.99	0.62
29:D1:1236:G:C2	29:D1:1245:A:C5	2.87	0.62
4:AC:16:VAL:O	4:AC:18:TYR:N	2.33	0.62
39:DH:194:THR:CB	39:DH:195:SER:CA	2.68	0.62
29:B1:1076:C:H5'	29:B1:1077:U:OP2	1.98	0.62
1:A1:885:G:H2'	1:A1:886:U:C6	2.35	0.62
1:A1:1650:U:H5''	1:A1:1651:A:OP2	1.99	0.62
30:D2:88:G:H2'	30:D2:89:G:H8	1.64	0.62
30:D2:2:G:H2'	30:D2:3:U:H6	1.63	0.62
49:BT:69:LYS:O	49:BT:71:SER:N	2.32	0.62
1:A1:1326:A:O2'	1:A1:1327:C:H5'	1.99	0.62
54:DY:110:GLY:O	54:DY:128:ARG:CB	2.47	0.62
29:D1:1633:C:C4	29:D1:1634:G:N7	2.67	0.62
1:A1:1216:C:H4'	1:A1:1217:A:H5'	1.82	0.62
29:B1:2549:G:H4'	29:B1:2550:U:OP1	1.98	0.62
29:D1:1358:C:C2	29:D1:1359:C:C5	2.87	0.62
45:DP:192:LYS:C	45:DP:194:LEU:H	2.01	0.62
46:DQ:98:ALA:O	46:DQ:101:ASN:N	2.32	0.62
1:A1:1068:C:H2'	1:A1:1069:A:C8	2.34	0.62
1:A1:879:G:C2'	1:A1:880:C:H5'	2.29	0.62
29:D1:898:U:C4	29:D1:899:U:C4	2.87	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:246:U:H3'	29:D1:247:C:H5''	1.80	0.62
29:B1:256:G:H2'	29:B1:256:G:N3	2.15	0.62
74:A1:1951:OHX:N5	74:A1:1991:OHX:N4	2.47	0.62
49:DT:100:LYS:C	49:DT:102:ARG:H	2.03	0.62
29:B1:508:U:O2	29:B1:508:U:H2'	1.98	0.62
3:CB:139:ILE:O	3:CB:141:ARG:N	2.32	0.62
1:A1:940:A:N3	1:A1:941:A:C8	2.67	0.62
29:B1:1292:C:O2'	29:B1:1293:U:H5'	2.00	0.62
29:B1:1455:U:C3'	29:B1:1456:A:H8	2.12	0.62
29:B1:1501:U:O2'	29:B1:1502:C:H5'	1.99	0.62
29:B1:2277:C:O2'	29:B1:2278:C:O5'	2.13	0.62
29:B1:2383:C:C4	29:B1:2384:A:C5	2.88	0.62
29:B1:3064:U:C2	29:B1:3065:G:C8	2.87	0.62
29:B1:3149:G:H2'	29:B1:3150:A:O4'	1.99	0.62
29:B1:3341:U:C4	29:B1:3362:A:C2	2.87	0.62
29:B1:3392:U:C2	29:B1:3393:U:C5	2.88	0.62
29:B1:608:A:C2'	29:B1:609:G:O5'	2.48	0.62
29:B1:688:G:H1'	29:B1:692:A:N6	2.14	0.62
29:B1:705:A:C4'	29:B1:706:A:H5'	2.28	0.62
29:B1:707:U:H5''	29:B1:782:U:C2'	2.29	0.62
29:B1:835:G:C4	29:B1:857:G:N2	2.68	0.62
29:B1:3150:A:C5'	34:BC:134:SER:HA	2.26	0.62
35:BD:7:THR:O	35:BD:9:HIS:N	2.33	0.62
1:C1:1114:G:O2'	1:C1:1115:U:OP2	2.17	0.62
1:C1:174:U:O2	1:C1:174:U:C2'	2.46	0.62
1:C1:389:G:C5	1:C1:390:G:C5	2.87	0.62
1:C1:510:G:H5''	1:C1:511:A:O5'	2.00	0.62
29:D1:1127:G:N2	29:D1:1132:C:C4	2.68	0.62
29:D1:1303:A:N1	29:D1:2887:A:C5	2.67	0.62
29:D1:1511:U:H5'	29:D1:1512:U:H5	1.63	0.62
29:D1:1780:G:H2'	29:D1:1781:C:C5	2.35	0.62
29:D1:1454:A:C5'	29:D1:1878:G:N1	2.62	0.62
29:D1:2376:G:N1	29:D1:2377:G:C6	2.66	0.62
29:D1:2651:G:HO2'	29:D1:2796:G:H1	1.47	0.62
29:D1:2851:A:H3'	29:D1:2852:C:H5''	1.82	0.62
29:D1:2919:A:C3'	29:D1:2920:U:H5'	2.30	0.62
29:D1:2931:C:O2'	29:D1:2932:U:H5'	2.00	0.62
29:D1:2934:A:H5''	29:D1:2935:U:OP2	1.98	0.62
29:D1:3160:U:H2'	29:D1:3161:C:H6	1.65	0.62
29:D1:3316:A:C6	29:D1:3388:C:N3	2.68	0.62
29:D1:3328:G:C2	29:D1:3375:A:N7	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:676:G:H5'	29:D1:679:U:OP1	1.98	0.62
29:D1:744:A:C2	29:D1:745:C:C2	2.88	0.62
37:DF:144:ALA:C	37:DF:146:ILE:N	2.51	0.62
37:DF:159:LEU:O	37:DF:162:SER:N	2.33	0.62
31:B3:69:U:H2'	31:B3:70:G:C2'	2.29	0.62
1:C1:243:G:C6	1:C1:251:A:N1	2.65	0.62
1:C1:340:U:H3'	1:C1:341:A:C8	2.25	0.62
29:B1:2681:U:O2'	29:B1:2682:C:H5''	1.99	0.62
1:C1:1385:G:C4	1:C1:1386:G:C8	2.87	0.62
1:C1:1480:G:H2'	1:C1:1481:C:H5''	1.80	0.62
1:C1:1597:A:C6	1:C1:1598:U:N3	2.67	0.62
74:C1:1912:OHX:N5	74:C1:2001:OHX:N1	2.46	0.62
1:C1:1584:G:C8	11:CJ:123:ARG:O	2.53	0.62
1:A1:1196:A:O2'	1:A1:1197:C:OP2	2.14	0.62
1:A1:1483:A:H1'	1:A1:1524:A:N6	2.14	0.62
30:B2:86:U:H4'	30:B2:87:G:O5'	2.00	0.62
29:D1:618:C:C2	29:D1:619:A:C8	2.88	0.62
30:D2:27:A:H1'	30:D2:57:G:N2	2.14	0.62
30:B2:27:A:C2	30:B2:28:C:C2	2.87	0.62
1:A1:1284:C:O2	1:A1:1286:U:C4	2.53	0.62
29:B1:3262:U:O2	29:B1:3263:G:C8	2.53	0.62
29:B1:2554:A:C2	33:BB:86:GLN:HA	2.34	0.62
29:D1:1946:A:H5''	29:D1:1947:G:OP2	1.99	0.62
11:CJ:86:ALA:C	11:CJ:88:GLY:H	2.03	0.62
29:D1:1354:G:H2'	29:D1:1355:A:C5	2.34	0.62
36:DE:126:GLU:C	36:DE:128:GLU:N	2.53	0.62
45:DP:169:ALA:O	45:DP:172:ARG:N	2.32	0.62
43:BN:21:VAL:O	43:BN:34:ALA:HB2	2.00	0.62
29:B1:2580:A:C1'	29:B1:2581:U:P	2.88	0.62
1:A1:239:C:H1'	1:A1:240:U:C6	2.35	0.62
1:C1:214:G:C2'	1:C1:215:A:H5'	2.30	0.62
20:AS:37:ASN:O	74:AS:101:OHX:N5	2.32	0.62
1:A1:1089:U:H2'	1:A1:1090:C:H5'	1.81	0.62
29:B1:790:U:O5'	29:B1:790:U:H6	1.83	0.62
29:B1:2414:G:H2'	29:B1:2415:C:O5'	2.00	0.62
40:BI:7:GLU:HA	40:BI:56:ALA:HA	1.80	0.62
1:C1:1305:U:H3'	1:C1:1306:C:C2	2.33	0.62
16:CO:62:VAL:O	16:CO:63:VAL:CB	2.47	0.62
29:D1:1135:A:C2'	29:D1:1136:A:H5'	2.30	0.62
47:BR:77:ALA:C	47:BR:79:LYS:H	2.03	0.62
3:CB:142:GLY:O	3:CB:149:GLY:O	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CI:86:VAL:CB	10:CI:87:PRO:HA	2.30	0.62
1:A1:1066:C:C4	1:A1:1067:C:C5	2.88	0.62
1:A1:1072:C:H5''	1:A1:1073:G:OP2	1.99	0.62
1:A1:1149:G:C2	1:A1:1150:G:N7	2.67	0.62
1:A1:11:A:H8	1:A1:11:A:O5'	1.83	0.62
1:A1:1297:G:H2'	1:A1:1299:G:N7	2.15	0.62
1:A1:20:G:H2'	1:A1:21:U:H5'	1.80	0.62
1:A1:120:U:O4	1:A1:297:U:O4	2.18	0.62
1:A1:365:G:C6	1:A1:377:G:O6	2.53	0.62
1:A1:390:G:N2	1:A1:407:A:H61	1.97	0.62
29:B1:1495:U:H3'	29:B1:1496:C:C5'	2.29	0.62
29:B1:2185:G:C5	29:B1:2186:U:C5	2.87	0.62
29:B1:225:C:H2'	29:B1:226:C:C6	2.35	0.62
29:B1:2933:A:C6	29:B1:2934:A:C2	2.88	0.62
29:B1:3037:U:C2	29:B1:3038:U:C5	2.88	0.62
29:B1:285:A:H2	29:B1:305:U:P	2.22	0.62
29:B1:3094:A:H2'	29:B1:3095:U:H6	1.65	0.62
29:B1:3135:U:H3'	29:B1:3136:G:H8	1.63	0.62
29:B1:315:C:H2'	29:B1:316:U:H6	1.64	0.62
29:B1:3390:G:C4	29:B1:3391:A:C8	2.87	0.62
29:B1:591:G:C2	29:B1:592:A:C8	2.88	0.62
29:B1:682:U:C5	29:B1:683:U:C5	2.88	0.62
29:B1:719:U:OP1	47:BR:69:ARG:CB	2.48	0.62
29:B1:7:C:O2	29:B1:7:C:C3'	2.45	0.62
29:B1:858:A:C8	29:B1:858:A:H5''	2.35	0.62
29:B1:917:A:C6	29:B1:918:C:C4	2.88	0.62
29:B1:954:U:H4'	29:B1:954:U:OP1	1.99	0.62
31:B3:41:A:N3	31:B3:41:A:H2'	2.15	0.62
1:C1:1002:G:C2	1:C1:1003:A:N1	2.68	0.62
1:C1:1632:C:O2'	1:C1:1633:A:OP1	2.18	0.62
1:C1:1756:A:OP2	1:C1:1756:A:N7	2.32	0.62
1:C1:353:A:N7	1:C1:354:C:C5	2.68	0.62
1:C1:401:A:O3'	1:C1:402:C:H4'	1.99	0.62
1:C1:989:U:C4	1:C1:990:C:N4	2.67	0.62
29:D1:1151:U:H5''	29:D1:1152:G:OP2	1.99	0.62
29:D1:116:A:N1	29:D1:265:A:OP2	2.31	0.62
29:D1:1177:G:O5'	29:D1:1177:G:H8	1.82	0.62
29:D1:2258:U:H3'	29:D1:2259:A:H8	1.64	0.62
29:D1:2785:A:C5	29:D1:2786:G:C8	2.87	0.62
29:D1:3045:G:C8	29:D1:3045:G:H3'	2.34	0.62
29:D1:352:A:C4	29:D1:354:U:C5	2.87	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:577:C:H5'	29:D1:577:C:C6	2.34	0.62
29:D1:584:G:N3	29:D1:585:A:C8	2.67	0.62
29:D1:747:A:H2'	29:D1:748:U:OP1	1.99	0.62
29:D1:886:C:O2'	29:D1:887:G:H5'	2.00	0.62
29:D1:891:G:H2'	29:D1:892:U:O5'	2.00	0.62
1:A1:702:G:OP1	1:A1:702:G:H4'	1.99	0.62
29:B1:957:C:O3'	29:B1:2799:A:C8	2.52	0.62
29:B1:966:U:C2'	29:B1:967:A:C8	2.76	0.62
31:B3:49:G:C5	31:B3:50:C:C5	2.87	0.62
31:B3:75:G:OP1	31:B3:90:U:H5''	1.99	0.62
1:A1:131:C:H3'	1:A1:132:U:H4'	1.80	0.62
1:C1:1725:U:H6	1:C1:1725:U:O5'	1.82	0.62
29:B1:2678:A:H5''	29:B1:2679:A:C2	2.35	0.62
1:C1:1482:C:O2'	1:C1:1483:A:O5'	2.17	0.62
1:A1:1591:C:H4'	1:A1:1592:A:OP1	1.99	0.62
31:D3:29:U:C2	31:D3:30:C:C5	2.87	0.62
29:D1:213:A:C6	29:D1:214:G:C4	2.88	0.62
29:B1:1281:G:C5	29:B1:1282:G:C8	2.87	0.62
29:B1:3381:U:C4	29:B1:3383:G:O6	2.52	0.62
29:B1:2232:A:H1'	29:B1:2429:G:H5'	1.81	0.62
29:B1:342:A:C2	29:B1:349:A:H8	2.15	0.62
29:D1:3006:A:H8	29:D1:3007:U:C6	2.17	0.62
1:A1:1338:C:H1'	1:A1:1410:A:N3	2.15	0.62
1:A1:718:U:H5	1:A1:722:G:C6	2.17	0.62
5:CD:196:GLU:HA	5:CD:199:ILE:CB	2.30	0.62
17:AP:132:LEU:H	17:AP:133:LEU:C	2.02	0.62
29:B1:2562:A:H2'	29:B1:2563:G:H8	1.65	0.62
29:B1:1914:G:H3'	29:B1:1915:A:C8	2.32	0.62
11:CJ:46:PHE:O	11:CJ:48:VAL:N	2.31	0.62
29:B1:2476:C:H2'	29:B1:2477:G:C4'	2.28	0.62
47:DR:66:ARG:C	47:DR:68:ALA:H	2.02	0.62
38:DG:222:HIS:CB	38:DG:226:GLY:O	2.47	0.62
42:DK:84:LEU:O	42:DK:89:TYR:N	2.29	0.62
1:C1:733:A:H5''	1:C1:734:A:C8	2.35	0.62
36:BE:12:TYR:O	36:BE:13:SER:CB	2.47	0.62
29:D1:2179:C:C2	33:DB:129:ALA:O	2.52	0.62
49:BT:8:ARG:O	49:BT:11:THR:CB	2.47	0.62
9:AH:78:ALA:HA	9:AH:110:LEU:HA	1.82	0.62
29:B1:2568:C:O2'	29:B1:2569:A:H4'	1.99	0.62
10:AI:73:PRO:O	10:AI:74:ALA:HB2	1.99	0.62
29:B1:2209:U:C6	29:B1:2209:U:OP2	2.52	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:518:A:C2'	1:A1:519:C:H5''	2.23	0.62
1:A1:607:G:C6	1:A1:613:G:H5'	2.35	0.62
29:B1:1141:C:C2	29:B1:1142:G:C8	2.88	0.62
29:B1:1453:A:N9	29:B1:1850:A:C2	2.65	0.62
29:B1:1546:A:N7	29:B1:1547:G:C5	2.68	0.62
29:B1:210:U:P	29:B1:210:U:C6	2.92	0.62
29:B1:2247:G:H5''	74:B1:3404:OHX:N3	2.15	0.62
29:B1:2945:G:C5'	29:B1:2945:G:N3	2.63	0.62
29:B1:2960:C:H3'	29:B1:2961:G:H8	1.65	0.62
29:B1:3070:A:C5	29:B1:3071:U:C5	2.88	0.62
29:B1:372:A:N7	29:B1:395:A:N7	2.47	0.62
29:B1:502:U:O2'	29:B1:503:C:H5'	2.00	0.62
29:B1:563:U:H3'	29:B1:564:G:C4'	2.29	0.62
29:B1:607:A:N1	29:B1:608:A:C4	2.68	0.62
29:B1:60:A:H2'	29:B1:61:A:H5'	1.81	0.62
29:B1:722:G:H22	29:B1:749:C:H6	1.48	0.62
29:B1:940:G:OP1	29:B1:2871:G:O6	2.18	0.62
1:C1:173:A:C4	1:C1:174:U:H6	2.16	0.62
1:C1:955:A:H2'	1:C1:956:C:O4'	2.00	0.62
29:D1:1114:U:C4	29:D1:1115:G:N2	2.68	0.62
29:D1:1558:A:OP1	29:D1:1559:A:C1'	2.40	0.62
29:D1:900:G:N3	29:D1:1589:A:C6	2.68	0.62
29:D1:1659:U:C4	29:D1:1660:C:N4	2.67	0.62
29:D1:2251:G:C6	29:D1:2266:U:O2	2.53	0.62
29:D1:2308:C:C4	29:D1:2309:A:C5	2.88	0.62
29:D1:2847:A:C2	29:D1:2848:G:H1'	2.35	0.62
29:D1:2901:G:H2'	29:D1:2902:A:O4'	2.00	0.62
29:D1:2145:A:O4'	29:D1:2958:A:H4'	1.99	0.62
29:D1:2986:U:O2'	29:D1:2987:A:H5'	2.00	0.62
29:D1:3294:A:N6	29:D1:3295:A:C5	2.67	0.62
29:D1:3315:G:C5'	29:D1:3319:U:H5'	2.30	0.62
29:D1:3333:G:H22	29:D1:3370:A:H4'	1.64	0.62
29:D1:2254:U:H3'	74:D1:3415:OHX:N5	2.15	0.62
29:D1:1054:A:OP1	74:D1:3591:OHX:N2	2.33	0.62
29:D1:60:A:C2'	29:D1:61:A:H5'	2.29	0.62
29:D1:682:U:C5	29:D1:683:U:C5	2.88	0.62
29:D1:692:A:C2	29:D1:693:A:H1'	2.34	0.62
29:D1:722:G:N2	29:D1:748:U:H2'	2.14	0.62
29:D1:830:A:C5	29:D1:865:U:O2	2.53	0.62
29:D1:950:G:O5'	29:D1:950:G:H8	1.83	0.62
29:D1:979:U:O2	29:D1:979:U:H2'	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:513:G:H1'	37:DF:148:GLU:CB	2.30	0.62
29:D1:149:U:N3	44:DO:55:ALA:HA	2.14	0.62
74:D1:3502:OHX:N4	54:DY:19:LYS:O	2.32	0.62
30:B2:9:C:N4	30:B2:10:C:O2	2.33	0.62
1:A1:143:G:N3	1:A1:144:U:H1'	2.15	0.62
1:A1:202:A:C6	1:A1:203:U:O4	2.52	0.62
29:D1:2680:A:H2'	42:DK:53:THR:O	2.00	0.62
1:A1:332:U:C5'	1:A1:333:A:OP2	2.47	0.62
1:C1:1353:U:O2	1:C1:1353:U:H2'	2.00	0.62
1:A1:1165:G:H5''	1:A1:1166:A:OP2	1.99	0.62
1:A1:1363:U:H2'	1:A1:1364:G:N9	2.15	0.62
29:D1:3202:G:C2	29:D1:3203:U:C2	2.87	0.62
29:D1:3238:G:OP2	29:D1:3238:G:C8	2.53	0.62
29:B1:1247:U:H5''	29:B1:1248:C:OP1	2.00	0.62
29:D1:3221:C:O2'	29:D1:3222:U:H5'	2.00	0.62
29:D1:70:A:N3	29:D1:71:A:H4'	2.14	0.62
29:D1:987:U:H2'	29:D1:988:U:C6	2.34	0.62
1:C1:1308:G:H2'	1:C1:1309:C:C6	2.35	0.62
1:C1:1334:U:C4	1:C1:1335:U:C5	2.87	0.62
29:B1:3225:C:H2'	29:B1:3226:A:C8	2.34	0.62
29:D1:3144:G:C6	74:D1:3431:OHX:N5	2.67	0.62
1:A1:1753:A:H2'	1:A1:1753:A:N3	2.14	0.62
29:D1:1077:U:O2'	29:D1:1078:U:H6	1.83	0.62
36:DE:100:ALA:O	36:DE:102:GLY:N	2.32	0.62
1:C1:891:A:N1	1:C1:922:G:C6	2.67	0.62
1:C1:915:A:OP2	1:C1:915:A:H8	1.82	0.62
3:AB:215:PHE:HA	3:AB:218:ILE:CB	2.30	0.62
29:B1:2120:A:HO2'	29:B1:2121:G:P	2.21	0.62
1:A1:777:C:H5'	1:A1:778:G:OP2	2.00	0.62
1:C1:1124:A:N6	1:C1:1125:A:C6	2.68	0.62
37:BF:12:SER:H	37:BF:116:LYS:HA	1.62	0.62
4:AC:140:GLY:CA	4:AC:182:LEU:HA	2.29	0.62
29:B1:2576:G:H2'	29:B1:2577:C:H6	1.65	0.62
1:C1:760:A:N6	1:C1:761:G:C2	2.67	0.62
29:D1:1815:U:C2'	29:D1:1816:A:H5'	2.28	0.62
29:D1:2571:U:H3'	29:D1:2572:C:C6	2.35	0.62
29:D1:3050:U:C4	29:D1:3051:U:C4	2.88	0.62
29:B1:2599:U:H2'	29:B1:2600:C:C6	2.35	0.62
32:DA:56:PRO:O	32:DA:168:ALA:HB2	2.00	0.62
29:B1:789:A:H2'	29:B1:790:U:C6	2.35	0.62
38:DG:160:ARG:C	38:DG:162:PRO:N	2.51	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:45:GLU:O	41:DJ:47:PRO:N	2.33	0.62
41:BJ:20:SER:O	41:BJ:22:TYR:N	2.32	0.62
37:BF:125:GLN:HA	37:BF:129:GLU:CB	2.29	0.62
29:D1:2164:A:C2	29:D1:2171:G:C4	2.88	0.62
38:BG:223:PHE:C	38:BG:224:ILE:O	2.37	0.62
8:CG:129:TYR:HA	8:CG:133:ALA:H	1.65	0.62
55:BZ:85:PHE:O	55:BZ:87:VAL:N	2.32	0.62
34:BC:323:MET:O	34:BC:324:VAL:O	2.18	0.62
41:BJ:77:THR:O	41:BJ:79:VAL:N	2.32	0.62
36:BE:118:THR:HA	36:BE:121:GLY:O	2.00	0.62
1:A1:1105:C:H2'	1:A1:1106:U:H6	1.64	0.62
1:A1:407:A:H1'	1:A1:1671:A:H2	1.63	0.62
29:B1:1225:A:H2'	29:B1:1225:A:N3	2.15	0.62
29:B1:1479:U:H5'	29:B1:1480:G:OP2	1.99	0.62
29:B1:1496:C:C2	29:B1:1521:G:N2	2.67	0.62
29:B1:1779:C:OP1	29:B1:1779:C:C4'	2.47	0.62
29:B1:2306:C:C3'	29:B1:2306:C:C6	2.81	0.62
29:B1:421:G:C2	29:B1:2365:C:N1	2.67	0.62
29:B1:29:C:H3'	29:B1:29:C:C6	2.35	0.62
29:B1:308:A:C5	29:B1:309:U:N3	2.68	0.62
29:B1:3292:A:O2'	29:B1:3293:U:O3'	2.14	0.62
29:B1:512:U:N1	29:B1:579:G:N2	2.48	0.62
29:B1:594:U:N3	29:B1:595:G:C5	2.68	0.62
29:B1:769:G:C4	29:B1:770:G:C8	2.87	0.62
29:B1:779:G:C4	29:B1:780:A:C8	2.88	0.62
31:B3:141:C:H2'	31:B3:142:C:H6	1.65	0.62
1:C1:289:U:C2'	1:C1:289:U:O2	2.48	0.62
1:C1:438:A:H8	1:C1:438:A:O5'	1.83	0.62
1:C1:518:A:H2'	1:C1:519:C:C5'	2.28	0.62
1:C1:73:U:H2'	1:C1:74:U:O4'	2.00	0.62
1:C1:985:G:C6	1:C1:986:G:C6	2.87	0.62
29:D1:1843:C:C2	29:D1:1844:C:C5	2.88	0.62
29:D1:25:U:N3	29:D1:331:G:H8	1.98	0.62
29:D1:3022:G:HO2'	29:D1:3023:U:P	2.16	0.62
29:D1:3119:U:H2'	29:D1:3120:C:H5'	1.81	0.62
29:D1:3309:G:C2	29:D1:3310:A:N7	2.67	0.62
29:D1:423:A:H2'	29:D1:424:G:H8	1.60	0.62
29:D1:692:A:H2'	29:D1:693:A:C8	2.35	0.62
29:D1:693:A:H5''	29:D1:694:C:OP2	2.00	0.62
29:D1:760:G:O2'	29:D1:761:A:O4'	2.17	0.62
29:D1:832:G:N2	29:D1:863:C:C2	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:913:A:H2	29:D1:2134:G:N3	1.98	0.62
31:D3:74:U:H4'	31:D3:89:A:C2	2.34	0.62
1:C1:228:G:O2'	1:C1:229:U:C6	2.49	0.62
29:B1:2761:G:H22	29:B1:2795:U:H2'	1.64	0.62
31:B3:65:A:C5	31:B3:66:A:N7	2.68	0.62
30:D2:14:U:O5'	30:D2:14:U:H6	1.81	0.62
1:C1:1690:G:H2'	1:C1:1691:A:H5''	1.82	0.62
1:C1:245:U:C2	1:C1:247:A:OP2	2.52	0.62
29:D1:2678:A:H8	29:D1:2679:A:C2	2.13	0.62
29:B1:2682:C:C2	29:B1:2683:U:C5	2.88	0.62
1:A1:1684:U:O4	1:A1:1721:A:H2	1.83	0.62
1:C1:1367:G:N3	1:C1:1367:G:H2'	2.13	0.62
1:C1:1478:G:C8	1:C1:1478:G:H5'	2.32	0.62
1:C1:1570:A:H3'	1:C1:1571:C:H6	1.63	0.62
1:A1:1236:A:H3'	1:A1:1237:G:H8	1.63	0.62
1:A1:1540:G:C4	1:A1:1541:G:C8	2.88	0.62
1:A1:1585:U:N3	1:A1:1611:A:H2	1.96	0.62
6:CE:77:ILE:C	6:CE:79:ARG:H	2.02	0.62
29:B1:3219:G:N9	29:B1:3257:C:H5''	2.15	0.62
29:B1:3228:C:N3	29:B1:3229:G:O6	2.33	0.62
29:B1:3181:C:H1'	45:BP:167:TYR:CB	2.30	0.62
29:D1:3199:G:C3'	29:D1:3200:G:C8	2.83	0.62
30:D2:23:A:C3'	30:D2:24:A:C8	2.78	0.62
29:D1:377:A:C2'	29:D1:391:A:H61	2.13	0.62
30:B2:26:C:H2'	30:B2:27:A:H8	1.65	0.62
29:D1:2587:U:C2	29:D1:2588:U:C6	2.88	0.62
29:D1:1631:C:H5'	29:D1:1813:A:H2	1.64	0.62
2:CA:186:GLY:CA	2:CA:187:ALA:HB2	2.21	0.62
29:B1:1066:G:O5'	29:B1:1067:U:OP2	2.18	0.62
29:D1:2104:A:C3'	29:D1:2105:G:H5''	2.30	0.62
30:D2:91:G:C6	30:D2:92:A:C6	2.87	0.62
9:CH:44:GLY:O	9:CH:46:MET:N	2.32	0.62
29:D1:649:A:H2'	29:D1:650:C:C6	2.35	0.62
29:B1:2101:C:H2'	29:B1:2102:U:O4'	1.99	0.62
29:D1:2560:C:H3'	29:D1:2561:A:C5'	2.29	0.62
29:B1:2119:A:O5'	29:B1:2119:A:H8	1.81	0.62
29:B1:365:A:N1	29:B1:366:A:C2	2.68	0.62
29:B1:1535:A:C8	29:B1:1536:G:C8	2.88	0.62
3:CB:178:ILE:HA	3:CB:195:ASP:O	2.00	0.62
36:DE:238:ASP:O	36:DE:239:ILE:C	2.36	0.62
29:D1:1530:U:O2	29:D1:1530:U:H2'	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1571:A:C6	29:B1:1572:U:H1'	2.35	0.62
21:AT:300:THR:HA	21:AT:314:GLN:CB	2.29	0.62
1:A1:1501:C:C2'	1:A1:1502:G:H5'	2.29	0.62
9:AH:17:ALA:HB2	9:AH:30:VAL:CB	2.30	0.62
44:DO:20:ARG:O	44:DO:22:LEU:N	2.33	0.62
36:DE:189:GLU:CB	36:DE:190:ILE:HA	2.29	0.62
12:AK:24:LEU:H	12:AK:64:GLY:H	1.48	0.62
1:A1:100:A:C2	1:A1:101:U:C2	2.87	0.62
1:A1:1134:C:O2'	1:A1:1135:U:H5'	2.00	0.62
1:A1:534:A:C2'	1:A1:535:A:C8	2.83	0.62
29:B1:1142:G:H3'	29:B1:1143:A:H5'	1.82	0.62
29:B1:1313:G:C4	29:B1:1314:C:C6	2.87	0.62
29:B1:1607:U:O2'	29:B1:1608:C:O5'	2.18	0.62
29:B1:1687:U:C6	29:B1:1687:U:OP1	2.53	0.62
29:B1:1782:U:OP2	29:B1:1782:U:C6	2.47	0.62
29:B1:2197:C:H4'	29:B1:2198:A:C8	2.35	0.62
29:B1:2912:G:C6	29:B1:2913:C:O2	2.52	0.62
29:B1:3321:C:C2'	29:B1:3322:A:H8	2.12	0.62
29:B1:3377:G:H2'	74:B1:3450:OHX:N4	2.15	0.62
29:B1:2260:U:O4	74:B1:3438:OHX:N2	2.33	0.62
29:B1:370:U:H5	29:B1:371:G:C5	2.17	0.62
29:B1:563:U:C2'	29:B1:564:G:H4'	2.30	0.62
29:B1:705:A:C5	29:B1:715:A:N6	2.68	0.62
29:B1:943:U:C6	29:B1:1432:C:C5	2.88	0.62
31:B3:141:C:C2	31:B3:142:C:C5	2.88	0.62
1:C1:1028:C:O2'	1:C1:1029:U:OP2	2.18	0.62
1:C1:1087:A:H3'	1:C1:1088:A:C8	2.31	0.62
1:C1:1756:A:H2'	1:C1:1757:G:H8	1.64	0.62
1:C1:1765:A:OP2	74:C1:1983:OHX:N1	2.33	0.62
1:C1:4:C:H2'	1:C1:5:U:C6	2.33	0.62
29:D1:1288:U:H2'	29:D1:1289:G:H8	1.65	0.62
29:D1:2775:U:HO2'	29:D1:2776:C:P	2.21	0.62
29:D1:2908:G:C5	29:D1:2909:U:C5	2.87	0.62
29:D1:3068:U:OP1	48:DS:59:SER:N	2.30	0.62
29:D1:3086:A:C4	29:D1:3087:A:C8	2.88	0.62
29:D1:3135:U:C4	29:D1:3136:G:C6	2.88	0.62
29:D1:528:U:C4	29:D1:564:G:O6	2.52	0.62
29:D1:717:C:C4	29:D1:721:G:OP1	2.52	0.62
29:D1:779:G:H3'	29:D1:779:G:C8	2.34	0.62
29:D1:86:G:H22	29:D1:98:G:C2'	2.13	0.62
29:D1:951:A:C2'	29:D1:952:A:C5'	2.60	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:651:G:C8	74:C1:1970:OHX:N3	2.67	0.62
30:B2:64:A:C6	30:B2:111:U:C4	2.87	0.62
31:B3:69:U:O3'	31:B3:70:G:H4'	2.00	0.62
30:D2:66:A:O5'	30:D2:66:A:H8	1.82	0.62
29:D1:2676:A:C4'	29:D1:2677:G:C8	2.83	0.62
1:C1:1275:A:N6	1:C1:1431:C:N3	2.48	0.62
1:C1:1481:C:H1'	1:C1:1482:C:C5'	2.29	0.62
1:A1:1189:A:H2'	1:A1:1189:A:N3	2.15	0.62
1:A1:1200:G:H5''	1:A1:1200:G:H8	1.65	0.62
1:A1:1204:A:H2'	1:A1:1204:A:N3	2.15	0.62
29:B1:3189:G:N3	29:B1:3190:C:C6	2.68	0.62
29:D1:404:G:C2	29:D1:405:U:C1'	2.81	0.62
35:DD:162:THR:HA	35:DD:218:ALA:HB1	1.82	0.62
29:B1:2768:U:H2'	29:B1:2769:A:H8	1.64	0.62
29:B1:2211:U:H2'	29:B1:2212:C:O4'	1.99	0.62
29:D1:1064:A:O2'	29:D1:1065:A:P	2.58	0.62
2:CA:169:SER:C	2:CA:171:GLY:N	2.51	0.62
29:D1:3274:A:C1'	29:D1:3275:U:P	2.87	0.62
29:D1:2128:C:C4	29:D1:2129:U:C5	2.88	0.62
1:A1:1308:G:H2'	1:A1:1309:C:C6	2.35	0.62
29:B1:1038:C:OP1	29:B1:1038:C:H4'	1.99	0.62
29:D1:3269:U:O2'	29:D1:3270:U:C5'	2.48	0.62
29:D1:2833:A:N1	29:D1:2834:G:C8	2.68	0.62
54:DY:68:PHE:C	54:DY:110:GLY:HA2	2.19	0.62
29:D1:2882:U:H2'	29:D1:2883:U:O5'	2.00	0.62
2:AA:13:ASP:O	2:AA:14:ALA:HB2	2.00	0.62
48:DS:151:ARG:HA	48:DS:154:ALA:CB	2.30	0.62
3:AB:107:SER:HA	3:AB:190:LEU:O	1.99	0.62
29:D1:1815:U:H2'	29:D1:1816:A:H5'	1.80	0.62
29:B1:2511:A:H2'	29:B1:2512:C:H5'	1.81	0.62
9:AH:39:ILE:O	9:AH:40:ALA:HB2	2.00	0.62
3:AB:56:ILE:O	3:AB:59:HIS:N	2.32	0.62
29:B1:1620:U:H3	29:B1:1825:G:H1	1.47	0.62
11:CJ:40:GLU:C	11:CJ:42:GLU:N	2.53	0.62
34:DC:27:ALA:HB2	34:DC:219:ALA:HA	1.82	0.62
39:DH:137:ASN:HA	44:DO:3:ALA:HB2	1.82	0.62
38:BG:180:SER:O	38:BG:183:ASP:N	2.32	0.62
49:DT:114:ALA:O	49:DT:117:ALA:HB3	1.99	0.62
42:DK:118:PRO:HA	42:DK:119:SER:CB	2.29	0.62
40:BI:170:LYS:O	40:BI:171:ASP:C	2.37	0.62
29:D1:2974:U:H2'	29:D1:2975:U:C6	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:97:C:C1'	1:A1:426:G:H5'	2.24	0.61
1:A1:372:G:H1'	1:A1:612:U:H3	1.65	0.61
1:A1:989:U:C4	1:A1:990:C:N4	2.68	0.61
29:B1:1113:G:H4'	54:BY:17:ALA:HB1	1.82	0.61
29:B1:1547:G:H2'	29:B1:1548:C:H6	1.65	0.61
29:B1:190:U:C4	29:B1:224:C:H1'	2.35	0.61
29:B1:2150:G:H2'	29:B1:2151:C:H5'	1.81	0.61
29:B1:2805:G:O2'	29:B1:2806:U:H5'	1.99	0.61
29:B1:282:G:C4'	29:B1:283:G:H8	2.12	0.61
29:B1:2859:U:H4'	29:B1:2860:U:OP1	2.01	0.61
29:B1:287:G:C5	29:B1:288:C:C5	2.88	0.61
29:B1:2973:G:O2'	29:B1:2974:U:H5'	2.00	0.61
29:B1:3130:A:H5'	29:B1:3131:U:C5	2.35	0.61
29:B1:3367:C:HO2'	29:B1:3368:U:H5''	1.64	0.61
29:B1:44:U:C5	29:B1:45:A:N9	2.68	0.61
29:B1:771:A:H3'	29:B1:772:U:H5'	1.82	0.61
29:B1:773:G:O2'	29:B1:774:G:C5'	2.47	0.61
29:B1:915:A:C8	29:B1:916:G:H4'	2.35	0.61
29:B1:972:A:C2'	29:B1:973:A:H5'	2.30	0.61
1:C1:1118:G:H2'	1:C1:1119:G:H8	1.65	0.61
1:C1:1118:G:C6	1:C1:1119:G:C5	2.88	0.61
1:C1:1632:C:C2	1:C1:1633:A:C8	2.88	0.61
1:C1:47:A:C8	1:C1:425:A:C5	2.88	0.61
29:D1:1315:U:O2	29:D1:1315:U:C2'	2.48	0.61
29:D1:1539:A:C5	29:D1:1540:U:C5	2.88	0.61
29:D1:155:G:C8	29:D1:155:G:P	2.88	0.61
29:D1:1655:G:C8	29:D1:1656:A:C8	2.87	0.61
29:D1:1838:G:C5'	29:D1:1839:A:OP1	2.46	0.61
29:D1:2165:G:N2	29:D1:2170:U:C4	2.67	0.61
29:D1:2713:U:H4'	29:D1:2714:G:OP1	1.99	0.61
29:D1:2750:U:C2'	29:D1:2751:G:H5'	2.29	0.61
29:D1:3092:C:H5'	29:D1:3093:C:OP2	2.00	0.61
29:D1:3300:U:H2'	29:D1:3300:U:O2	2.00	0.61
29:D1:386:A:O5'	29:D1:386:A:H8	1.83	0.61
29:D1:46:U:C2'	29:D1:47:C:H5'	2.30	0.61
29:D1:524:U:O2'	29:D1:525:C:C5'	2.48	0.61
29:D1:588:G:C4'	29:D1:589:A:H62	2.13	0.61
29:D1:683:U:H2'	29:D1:684:G:H5'	1.82	0.61
29:D1:776:U:H5'	29:D1:777:U:C5'	2.23	0.61
29:D1:781:G:C5	29:D1:782:U:C5	2.88	0.61
31:D3:56:G:O2'	31:D3:57:C:H5'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:56:G:H2'	31:D3:57:C:H6	1.65	0.61
30:B2:67:G:C6	30:B2:68:C:C4	2.88	0.61
1:A1:169:A:C5	1:A1:171:A:C5	2.88	0.61
1:A1:268:C:N3	1:A1:288:A:C2	2.68	0.61
1:A1:115:G:N2	1:A1:334:G:H21	1.95	0.61
1:A1:332:U:H5''	1:A1:333:A:OP2	1.99	0.61
1:C1:1446:A:O2'	1:C1:1448:G:N7	2.30	0.61
1:C1:1517:U:O2'	1:C1:1518:C:H5'	2.00	0.61
1:C1:1203:A:N1	1:C1:1556:A:C4	2.68	0.61
1:C1:1598:U:C5	1:C1:1599:C:C5	2.87	0.61
1:A1:1172:G:C4	1:A1:1173:C:C5	2.88	0.61
1:A1:1499:G:H2'	1:A1:1500:C:H6	1.64	0.61
1:A1:1503:A:H2'	1:A1:1504:G:H5'	1.82	0.61
1:A1:1541:G:C6	1:A1:1542:G:C6	2.87	0.61
1:A1:1597:A:C5	1:A1:1598:U:N3	2.68	0.61
29:B1:3191:G:C2	29:B1:3202:G:C2	2.88	0.61
29:B1:2522:G:C1'	29:B1:2523:A:P	2.87	0.61
29:D1:1394:A:H2'	29:D1:1395:G:O4'	2.00	0.61
29:D1:1279:C:C2	29:D1:1280:C:C5	2.88	0.61
29:B1:2594:C:OP2	29:B1:2594:C:C6	2.53	0.61
36:DE:94:ASN:O	36:DE:96:ALA:N	2.32	0.61
29:B1:625:G:O2'	29:B1:626:U:O4'	2.17	0.61
1:C1:915:A:N7	1:C1:916:U:C4	2.67	0.61
29:D1:645:A:C6	29:D1:649:A:C8	2.88	0.61
29:B1:1042:U:H2'	29:B1:1043:C:C6	2.34	0.61
54:BY:80:THR:O	54:BY:82:ILE:N	2.33	0.61
34:BC:294:GLY:O	34:BC:305:ILE:N	2.33	0.61
1:A1:790:U:C2	1:A1:791:A:C8	2.88	0.61
29:D1:1740:U:C3'	29:D1:1741:A:H5'	2.29	0.61
29:D1:2880:U:H1'	34:DC:250:ALA:HB3	1.80	0.61
36:BE:126:GLU:C	36:BE:128:GLU:N	2.53	0.61
29:B1:1536:G:C5	29:B1:1586:G:N2	2.68	0.61
29:B1:2576:G:C6	29:B1:2577:C:C4	2.88	0.61
13:CL:71:GLN:O	13:CL:72:ILE:C	2.37	0.61
29:B1:1723:A:H5''	29:B1:1724:U:OP2	2.00	0.61
51:DV:39:LEU:O	51:DV:42:GLN:N	2.31	0.61
29:D1:1830:G:C5	29:D1:1831:U:C5	2.88	0.61
13:CL:26:ILE:O	13:CL:27:LYS:O	2.18	0.61
15:AN:83:GLU:H	20:AS:53:ASN:CB	2.13	0.61
29:D1:238:A:OP2	29:D1:238:A:H8	1.83	0.61
5:CD:148:ARG:O	5:CD:157:ARG:HA	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BS:23:TRP:O	48:BS:50:ILE:HA	2.00	0.61
1:A1:47:A:C2	1:A1:100:A:C4	2.89	0.61
1:A1:1645:G:N1	1:A1:1757:G:C6	2.68	0.61
3:AB:165:VAL:CA	3:AB:166:THR:CB	2.78	0.61
29:B1:1114:U:C4	29:B1:1115:G:N2	2.68	0.61
29:B1:1127:G:N2	29:B1:1132:C:C4	2.67	0.61
29:B1:1693:C:HO2'	29:B1:1772:U:HO2'	1.44	0.61
29:B1:1780:G:H2'	29:B1:1781:C:H5	1.66	0.61
29:B1:1785:U:O2'	29:B1:1786:G:C8	2.51	0.61
29:B1:2112:U:H1'	29:B1:2113:A:OP2	2.00	0.61
29:B1:2125:A:H5'	29:B1:2126:A:OP2	1.99	0.61
29:B1:2259:A:H5''	29:B1:2260:U:H5	1.64	0.61
29:B1:2144:A:C4	29:B1:2281:A:C6	2.87	0.61
29:B1:3299:A:O2'	29:B1:3300:U:OP2	2.18	0.61
29:B1:431:U:C5'	29:B1:431:U:H6	2.13	0.61
29:B1:719:U:O2'	29:B1:720:A:H8	1.81	0.61
29:B1:829:U:H3	29:B1:895:A:H62	1.41	0.61
29:B1:931:C:H3'	29:B1:932:U:H2'	1.82	0.61
1:C1:147:A:H3'	1:C1:148:A:H8	1.64	0.61
1:C1:1646:C:C2'	1:C1:1646:C:O2	2.48	0.61
1:C1:297:U:H2'	1:C1:298:C:C5'	2.30	0.61
1:C1:48:G:C6	1:C1:432:G:C2	2.88	0.61
29:D1:1453:A:C2	29:D1:1878:G:N2	2.67	0.61
29:D1:384:A:C4	29:D1:1465:A:C6	2.88	0.61
29:D1:155:G:C8	29:D1:155:G:OP2	2.54	0.61
29:D1:1585:C:O2'	29:D1:1586:G:H5'	1.99	0.61
29:D1:2149:A:H62	29:D1:2187:G:H21	1.49	0.61
29:D1:2265:C:N4	29:D1:2266:U:N3	2.48	0.61
29:D1:2314:U:H4'	29:D1:2314:U:OP2	2.00	0.61
29:D1:2353:G:C4	29:D1:2354:C:H6	2.18	0.61
29:D1:2945:G:C8	29:D1:2979:U:O2	2.53	0.61
29:D1:3099:C:C5'	29:D1:3099:C:C6	2.83	0.61
29:D1:3327:G:C6	29:D1:3328:G:N7	2.67	0.61
29:D1:3359:A:H2'	29:D1:3360:C:O4'	2.01	0.61
29:D1:651:G:C6	29:D1:652:G:C6	2.88	0.61
29:D1:747:A:C6	29:D1:748:U:H5	2.17	0.61
30:D2:98:C:C5'	30:D2:99:G:OP2	2.45	0.61
31:D3:77:A:H62	53:DX:72:SER:CB	2.13	0.61
1:A1:701:U:O4	1:A1:702:G:N3	2.32	0.61
1:C1:749:U:O2	1:C1:801:G:C4	2.53	0.61
1:A1:162:A:C3'	1:A1:163:G:C8	2.79	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:63:A:N1	30:D2:65:G:O6	2.33	0.61
1:A1:110:U:H5''	1:A1:111:U:OP2	2.00	0.61
1:A1:1683:C:H1'	1:A1:1720:G:O6	2.00	0.61
1:A1:1172:G:C6	1:A1:1173:C:N4	2.69	0.61
1:A1:1486:G:O6	1:A1:1520:U:O2	2.18	0.61
1:A1:1525:A:C6	1:A1:1526:A:C6	2.88	0.61
1:A1:1566:U:O2'	1:A1:1567:U:H5''	2.00	0.61
1:A1:1614:A:H2	1:A1:1616:G:OP2	1.82	0.61
29:D1:1324:U:H6	29:D1:1324:U:H5'	1.64	0.61
29:D1:3191:G:C5	29:D1:3202:G:N2	2.68	0.61
30:D2:22:A:C5	30:D2:23:A:C6	2.88	0.61
29:D1:1393:A:C2	29:D1:1394:A:C4	2.87	0.61
29:D1:395:A:C8	29:D1:395:A:OP1	2.52	0.61
1:C1:888:U:H3'	1:C1:889:U:C6	2.34	0.61
30:D2:30:G:H2'	30:D2:31:U:O5'	2.01	0.61
29:B1:2214:A:H2'	29:B1:2215:A:H8	1.64	0.61
29:B1:2516:U:O2'	29:B1:2517:U:O4'	2.15	0.61
29:D1:1062:A:H3'	29:D1:1063:G:C8	2.34	0.61
29:B1:339:C:H2'	29:B1:340:C:H5''	1.82	0.61
29:D1:3314:A:H2'	34:DC:119:TYR:C	2.20	0.61
29:D1:2513:U:C5	29:D1:2591:A:N1	2.63	0.61
40:DI:63:LYS:CA	40:DI:66:ALA:HB3	2.25	0.61
40:DI:67:ALA:O	40:DI:68:LEU:C	2.38	0.61
29:B1:822:G:C4	29:B1:823:C:C6	2.88	0.61
29:B1:25:U:N3	29:B1:331:G:C8	2.68	0.61
29:B1:2101:C:O2'	29:B1:2102:U:H5'	2.00	0.61
29:B1:1931:U:N3	29:B1:2121:G:N3	2.49	0.61
1:C1:1733:C:H2'	1:C1:1734:U:C6	2.35	0.61
1:C1:1734:U:N3	1:C1:1735:U:C4	2.68	0.61
1:A1:1783:C:H2'	1:A1:1784:C:C6	2.35	0.61
53:BX:17:LYS:C	53:BX:19:TYR:N	2.50	0.61
29:B1:2578:U:H2'	29:B1:2579:G:O4'	2.00	0.61
50:DU:45:ARG:O	50:DU:47:ASN:N	2.29	0.61
1:A1:568:G:C2'	1:A1:569:C:H5'	2.30	0.61
29:B1:2746:A:H2'	29:B1:2747:A:O4'	1.99	0.61
74:D1:3471:OHX:N6	74:D1:3607:OHX:N1	2.48	0.61
74:A1:1929:OHX:N1	74:A1:1979:OHX:N4	2.47	0.61
36:BE:189:GLU:CB	36:BE:190:ILE:HA	2.30	0.61
49:BT:14:MET:C	49:BT:16:GLN:H	2.02	0.61
15:AN:45:ALA:C	15:AN:47:GLN:H	2.03	0.61
54:DY:73:LEU:HA	54:DY:116:GLY:HA3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DD:256:THR:O	35:DD:257:LYS:CB	2.48	0.61
21:CT:50:ASP:H	21:CT:54:PHE:HA	1.65	0.61
29:D1:2694:A:H2'	29:D1:2695:A:H1'	1.82	0.61
40:DI:90:MET:HA	40:DI:181:VAL:HA	1.81	0.61
1:A1:591:A:H2'	1:A1:592:A:H8	1.62	0.61
29:B1:1198:C:H2'	29:B1:1200:A:H8	1.65	0.61
29:B1:1198:C:OP2	29:B1:1200:A:N7	2.33	0.61
29:B1:1329:U:O2'	29:B1:1330:A:O5'	2.17	0.61
29:B1:1393:A:C8	29:B1:1418:A:C4	2.88	0.61
29:B1:1517:G:H2'	29:B1:1518:U:H6	1.65	0.61
29:B1:1559:A:H2'	29:B1:1560:G:H5'	1.81	0.61
29:B1:155:G:C8	29:B1:155:G:OP2	2.52	0.61
29:B1:2147:A:H2'	29:B1:2148:U:H6	1.63	0.61
29:B1:2249:G:C4	29:B1:2272:G:N7	2.67	0.61
29:B1:2279:A:H2	29:B1:2285:C:N4	1.98	0.61
29:B1:3160:U:H2'	29:B1:3161:C:H6	1.64	0.61
29:B1:943:U:C2	29:B1:1432:C:H5	2.18	0.61
31:B3:117:C:H2'	31:B3:118:C:H6	1.65	0.61
35:BD:159:ILE:C	35:BD:161:LYS:H	2.02	0.61
1:C1:10:G:N2	1:C1:11:A:H1'	2.15	0.61
1:C1:1636:C:C4	1:C1:1765:A:N6	2.67	0.61
1:C1:402:C:C2	1:C1:403:G:C4'	2.82	0.61
1:C1:477:A:C5	1:C1:539:G:O6	2.53	0.61
1:C1:621:A:H1'	1:C1:1107:G:O4'	2.00	0.61
29:D1:1109:U:H5''	29:D1:1110:U:OP2	2.00	0.61
29:D1:1226:G:N2	29:D1:1227:C:C2	2.68	0.61
29:D1:1174:G:C6	29:D1:1318:A:N3	2.67	0.61
29:D1:1405:U:C5	29:D1:1406:A:N7	2.68	0.61
29:D1:1780:G:O2'	29:D1:1781:C:P	2.57	0.61
29:D1:2667:A:C3'	29:D1:2667:A:C4	2.83	0.61
29:D1:308:A:C5	29:D1:309:U:N3	2.67	0.61
29:D1:3117:C:C4	29:D1:3118:C:C6	2.88	0.61
29:D1:522:A:H3'	29:D1:523:A:H5''	1.82	0.61
29:D1:533:A:C2	29:D1:534:U:O4	2.53	0.61
29:D1:704:U:C6	29:D1:704:U:H3'	2.34	0.61
29:D1:827:A:H3'	29:D1:828:A:H8	1.65	0.61
31:D3:37:A:N6	31:D3:104:A:C4	2.69	0.61
1:C1:225:A:N6	1:C1:837:G:C2	2.68	0.61
29:B1:995:U:C4	29:B1:2637:A:C4	2.88	0.61
29:B1:2761:G:N2	29:B1:2795:U:N1	2.48	0.61
1:C1:1720:G:C5	1:C1:1721:A:C5	2.88	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1683:C:O2'	1:A1:1684:U:N3	2.32	0.61
1:C1:1365:C:H2'	1:C1:1366:U:C4'	2.29	0.61
1:C1:1480:G:C5'	1:C1:1480:G:C8	2.71	0.61
1:C1:1559:A:O2'	1:C1:1560:U:O4'	2.18	0.61
1:A1:1349:G:C4'	1:A1:1350:U:H5'	2.31	0.61
1:A1:1552:U:O2	1:A1:1552:U:C2'	2.48	0.61
1:A1:1575:G:C2	1:A1:1576:A:C4	2.89	0.61
1:A1:1575:G:H5'	1:A1:1576:A:OP2	2.01	0.61
1:A1:1616:G:O2'	1:A1:1617:U:H5'	2.01	0.61
43:DN:88:ALA:O	43:DN:90:VAL:N	2.33	0.61
29:B1:2523:A:H4'	29:B1:2524:A:OP1	2.00	0.61
29:D1:394:G:N2	29:D1:399:A:N7	2.48	0.61
29:B1:1260:A:C5	29:B1:1279:C:H1'	2.35	0.61
29:B1:1276:U:C4	74:B1:3563:OHX:N4	2.68	0.61
29:D1:72:C:C2	29:D1:73:C:O4'	2.53	0.61
1:C1:1326:A:C2'	1:C1:1327:C:H5'	2.30	0.61
29:D1:1099:A:C6	29:D1:1100:U:C4	2.88	0.61
29:D1:3140:G:C5'	29:D1:3140:G:C8	2.77	0.61
29:D1:3005:A:C4	29:D1:3140:G:N2	2.68	0.61
1:A1:916:U:C5	1:A1:917:U:C4	2.89	0.61
1:C1:1092:A:N3	1:C1:1094:G:N7	2.48	0.61
29:D1:1351:U:O2	29:D1:1352:A:N7	2.34	0.61
29:B1:1339:C:C2	29:B1:1340:G:C8	2.88	0.61
5:AD:161:ASP:CA	5:AD:162:VAL:CB	2.77	0.61
13:AL:101:LEU:O	13:AL:102:ALA:HB2	1.99	0.61
1:C1:760:A:H2'	1:C1:761:G:H5'	1.82	0.61
34:DC:189:SER:O	34:DC:192:VAL:N	2.33	0.61
29:B1:1725:C:H2'	29:B1:1726:C:C5	2.34	0.61
45:DP:56:ASP:O	45:DP:59:ARG:CB	2.48	0.61
40:BI:86:TYR:CB	40:BI:87:LYS:CA	2.78	0.61
29:B1:3049:A:C6	29:B1:3050:U:C2	2.88	0.61
29:B1:733:G:O6	29:B1:737:G:N1	2.34	0.61
4:AC:174:HIS:O	4:AC:183:GLY:HA2	2.01	0.61
29:B1:2510:U:C2	29:B1:2511:A:C8	2.87	0.61
29:D1:135:C:H5'	29:D1:136:G:OP2	2.00	0.61
5:AD:180:ARG:O	5:AD:182:ALA:N	2.33	0.61
6:CE:151:ASP:O	6:CE:153:GLU:N	2.33	0.61
10:CI:98:ASN:N	10:CI:101:ALA:HB3	2.16	0.61
50:DU:111:GLY:O	50:DU:112:SER:O	2.18	0.61
1:A1:1074:G:H2'	1:A1:1075:C:H5''	1.83	0.61
1:A1:1728:A:H2'	1:A1:1729:C:C6	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1757:G:C6	1:A1:1758:U:C4	2.88	0.61
1:A1:1793:G:O2'	1:A1:1794:A:P	2.57	0.61
1:A1:8:U:H5	1:A1:1140:G:O6	1.82	0.61
29:B1:1284:C:C5	29:B1:1285:G:N2	2.65	0.61
29:B1:13:A:C2	29:B1:15:C:H3'	2.35	0.61
29:B1:1456:A:H2	29:B1:1476:G:N3	1.97	0.61
29:B1:1522:U:C5	29:B1:1835:A:C1'	2.83	0.61
29:B1:1779:C:O4'	29:B1:1779:C:OP1	2.18	0.61
29:B1:200:C:H4'	29:B1:201:A:OP2	2.00	0.61
29:B1:2307:G:C6	29:B1:2310:U:C4	2.88	0.61
29:B1:2310:U:O2'	29:B1:2311:G:H5'	2.01	0.61
29:B1:2311:G:O2'	29:B1:2312:A:O4'	2.18	0.61
29:B1:2916:U:C5	29:B1:2935:U:C2	2.89	0.61
29:B1:3137:C:C2'	29:B1:3137:C:O2	2.41	0.61
29:B1:347:G:C6	29:B1:348:A:C6	2.88	0.61
29:B1:559:A:C5	29:B1:560:G:N7	2.68	0.61
29:B1:705:A:C4	29:B1:715:A:N6	2.68	0.61
29:B1:771:A:H2'	29:B1:772:U:H5''	1.82	0.61
31:B3:102:U:H2'	31:B3:103:G:C8	2.35	0.61
35:BD:14:GLU:N	35:BD:15:ALA:HA	2.13	0.61
29:B1:2111:G:H22	51:BV:50:ALA:H	1.49	0.61
1:C1:1150:G:N3	1:C1:1766:A:OP1	2.32	0.61
1:C1:142:G:C8	1:C1:266:A:C6	2.89	0.61
1:C1:1759:C:H5''	1:C1:1760:G:OP2	1.99	0.61
1:C1:1763:A:C2'	1:C1:1764:C:H5''	2.30	0.61
1:C1:1793:G:O2'	1:C1:1794:A:O5'	2.17	0.61
1:C1:20:G:C2'	1:C1:21:U:H5'	2.29	0.61
1:C1:210:A:C6	1:C1:211:U:C4	2.88	0.61
1:C1:269:G:H2'	1:C1:270:C:C6	2.36	0.61
1:C1:604:A:C6	1:C1:605:A:C6	2.88	0.61
1:C1:64:U:H2'	1:C1:64:U:O2	1.99	0.61
1:C1:766:U:H3'	1:C1:768:C:OP2	2.01	0.61
1:C1:854:U:O2'	1:C1:855:A:H5'	2.01	0.61
29:D1:1144:U:O2'	29:D1:1145:G:OP2	2.16	0.61
29:D1:1302:A:C4	29:D1:2887:A:N1	2.68	0.61
29:D1:1595:U:HO2'	29:D1:1596:C:H6	1.49	0.61
29:D1:1797:A:H2'	29:D1:1798:A:C8	2.36	0.61
29:D1:2258:U:H2'	29:D1:2258:U:O2	2.00	0.61
29:D1:2297:U:O2	29:D1:2299:A:C5	2.53	0.61
29:D1:2821:C:C2'	29:D1:2822:U:H5'	2.30	0.61
29:D1:2386:A:N9	29:D1:2994:A:C2	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3057:U:C3'	29:D1:3058:U:H4'	2.29	0.61
29:D1:3059:G:C8	29:D1:3059:G:H5''	2.34	0.61
29:D1:3089:C:H3'	29:D1:3090:U:C5'	2.26	0.61
29:D1:39:A:H5''	29:D1:40:A:H4'	1.82	0.61
29:D1:53:G:H2'	29:D1:54:C:C6	2.33	0.61
31:D3:13:A:H2'	31:D3:14:C:C6	2.35	0.61
29:B1:2640:A:C5	29:B1:2641:U:C4	2.88	0.61
29:B1:2651:G:O2'	29:B1:2796:G:N1	2.33	0.61
31:B3:70:G:P	31:B3:71:A:OP2	2.58	0.61
1:A1:172:C:N3	1:A1:173:A:C8	2.68	0.61
1:A1:57:G:C5	1:A1:58:U:C5	2.89	0.61
1:C1:1685:G:N2	1:C1:1718:G:N2	2.48	0.61
1:C1:1267:G:H21	1:C1:1448:G:C4'	2.13	0.61
1:C1:1489:U:C5	1:C1:1513:G:C2	2.89	0.61
1:A1:1265:G:H2'	1:A1:1266:U:O4'	2.00	0.61
1:A1:1273:G:C5'	1:A1:1274:C:H5'	2.30	0.61
1:A1:1346:A:N3	15:AN:14:GLN:HA	2.14	0.61
1:A1:1202:A:N6	1:A1:1456:C:H2'	2.15	0.61
1:A1:1458:G:H5''	1:A1:1459:C:H5	1.60	0.61
1:A1:1496:U:H4'	1:A1:1519:U:O2'	1.99	0.61
1:A1:1203:A:C4	1:A1:1555:A:N1	2.69	0.61
1:A1:1562:G:H2'	1:A1:1563:C:C6	2.34	0.61
1:A1:1368:G:H5'	14:AM:70:GLN:CB	2.31	0.61
29:B1:3209:A:H3'	29:B1:3210:A:H8	1.60	0.61
29:B1:3215:A:P	29:B1:3218:A:O4'	2.58	0.61
29:D1:221:A:C8	29:D1:224:C:N4	2.68	0.61
29:D1:370:U:C5	29:D1:371:G:C5	2.89	0.61
1:C1:888:U:H3'	1:C1:889:U:H6	1.66	0.61
1:C1:156:A:H5'	1:C1:416:A:C8	2.36	0.61
29:B1:2160:G:H2'	29:B1:2161:G:H8	1.65	0.61
29:B1:1079:A:N6	29:B1:1080:A:N6	2.48	0.61
29:D1:3142:A:H1'	29:D1:3144:G:C8	2.35	0.61
29:D1:1666:G:H2'	29:D1:1667:A:H8	1.65	0.61
29:D1:2562:A:H2'	29:D1:2563:G:C8	2.35	0.61
5:AD:117:THR:CA	5:AD:191:ALA:HB1	2.30	0.61
29:B1:1354:G:C8	29:B1:1355:A:N1	2.68	0.61
1:C1:1023:A:C8	74:C1:1961:OHX:N6	2.68	0.61
54:BY:129:PHE:CB	54:BY:130:VAL:HA	2.31	0.61
52:DW:69:SER:O	52:DW:71:THR:N	2.33	0.61
1:C1:1773:C:C2	1:C1:1789:G:C2	2.88	0.61
13:CL:76:PRO:HA	13:CL:81:ILE:H	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DR:66:ARG:O	47:DR:68:ALA:N	2.33	0.61
74:A1:1929:OHX:N1	74:A1:1979:OHX:N3	2.48	0.61
3:CB:56:ILE:O	3:CB:59:HIS:N	2.29	0.61
34:DC:133:TYR:C	34:DC:135:ALA:H	2.03	0.61
34:DC:247:ARG:O	34:DC:248:LYS:CB	2.48	0.61
29:D1:1620:U:H3	29:D1:1825:G:H1	1.48	0.61
8:CG:88:LEU:C	8:CG:90:TYR:H	2.01	0.61
45:DP:83:ALA:O	45:DP:84:LEU:C	2.38	0.61
1:A1:445:A:N3	1:A1:446:A:C8	2.68	0.61
1:A1:39:A:C5	1:A1:467:G:N2	2.67	0.61
1:A1:515:A:N3	1:A1:515:A:H2'	2.14	0.61
1:A1:977:A:C2'	1:A1:978:A:H5'	2.30	0.61
1:A1:979:A:H2	1:A1:1775:U:H4'	1.64	0.61
29:B1:1129:A:C2'	29:B1:1130:A:H5'	2.29	0.61
29:B1:1156:C:H5''	29:B1:1157:G:OP2	2.01	0.61
29:B1:1376:C:O4'	29:B1:1407:A:C2	2.54	0.61
29:B1:1587:A:C2	29:B1:1590:G:C4	2.89	0.61
29:B1:189:G:C2	29:B1:191:U:O4	2.53	0.61
29:B1:2186:U:H5''	29:B1:2315:G:OP2	1.99	0.61
29:B1:2396:G:O2'	29:B1:2398:A:C4'	2.47	0.61
29:B1:2847:A:C4	29:B1:2848:G:C8	2.88	0.61
29:B1:428:A:H2'	29:B1:429:U:O5'	2.00	0.61
29:B1:33:G:N2	29:B1:50:U:C5	2.68	0.61
1:C1:984:G:H1	1:C1:1017:U:H3	1.48	0.61
1:C1:1109:G:C5	1:C1:1137:A:N6	2.68	0.61
1:C1:145:A:C2	1:C1:146:U:H1'	2.35	0.61
1:C1:297:U:C2'	1:C1:298:C:O5'	2.47	0.61
1:C1:33:U:H6	1:C1:33:U:H3'	1.65	0.61
1:C1:66:U:O2'	1:C1:67:A:P	2.57	0.61
1:C1:755:A:H1'	1:C1:756:A:C8	2.36	0.61
1:C1:986:G:O2'	1:C1:987:G:H8	1.83	0.61
29:D1:1156:C:C2'	29:D1:1157:G:H5''	2.30	0.61
29:D1:1222:G:OP1	29:D1:1222:G:H3'	1.99	0.61
29:D1:1371:G:H5'	29:D1:1372:C:OP2	2.00	0.61
29:D1:1479:U:C3'	29:D1:1480:G:C5'	2.57	0.61
29:D1:2249:G:H2'	29:D1:2250:G:C1'	2.30	0.61
29:D1:2371:G:H5''	29:D1:2372:A:P	2.41	0.61
29:D1:2717:U:C4	29:D1:2740:A:N1	2.69	0.61
29:D1:278:U:C2	29:D1:279:U:C5	2.89	0.61
29:D1:2850:G:C8	29:D1:2850:G:H5''	2.35	0.61
29:D1:2916:U:H5	29:D1:2935:U:O2'	1.84	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3149:G:C4	29:D1:3150:A:C8	2.88	0.61
29:D1:3310:A:N6	29:D1:3311:C:C5	2.68	0.61
29:D1:807:A:C5'	29:D1:808:A:OP2	2.45	0.61
29:D1:90:C:O4'	29:D1:281:G:O2'	2.18	0.61
29:D1:964:G:H4'	54:DY:28:HIS:O	2.01	0.61
29:D1:349:A:H2	31:D3:24:G:C8	2.18	0.61
31:D3:53:A:C6	31:D3:54:A:C5	2.88	0.61
29:B1:2700:G:OP1	49:BT:17:ARG:CB	2.49	0.61
29:B1:2702:A:H4'	29:B1:2704:A:C8	2.36	0.61
29:B1:2703:A:C3'	29:B1:2704:A:C5'	2.78	0.61
29:B1:998:A:O2'	30:B2:103:A:N3	2.30	0.61
31:B3:55:U:O2	31:B3:62:C:H5	1.83	0.61
31:B3:95:G:OP2	31:B3:95:G:N2	2.33	0.61
1:C1:1719:A:O3'	1:C1:1720:G:C8	2.53	0.61
29:D1:2671:A:N6	29:D1:2672:G:O6	2.34	0.61
1:A1:1173:C:O2'	1:A1:1174:C:H5'	2.00	0.61
1:A1:1196:A:C8	1:A1:1602:C:H4'	2.35	0.61
1:A1:1196:A:C4'	1:A1:1197:C:H5''	2.29	0.61
1:A1:1485:C:H3'	1:A1:1486:G:C5'	2.30	0.61
1:A1:1586:A:C5	1:A1:1611:A:C2	2.89	0.61
1:A1:1616:G:H21	1:A1:1618:C:N4	1.93	0.61
29:D1:2684:C:C2	29:D1:2685:C:C6	2.87	0.61
29:D1:208:C:N4	29:D1:209:A:H62	1.97	0.61
36:BE:78:ALA:HB1	36:BE:105:ILE:CB	2.30	0.61
1:A1:1753:A:N6	1:A1:1754:A:C6	2.68	0.61
1:A1:1402:G:C6	1:A1:1403:C:C4	2.88	0.61
29:D1:1076:C:O2	29:D1:1076:C:H2'	2.00	0.61
29:B1:623:U:C2'	29:B1:624:G:H8	2.09	0.61
29:D1:2581:U:H6	29:D1:2581:U:P	2.23	0.61
29:D1:2581:U:H5''	74:D1:3567:OHX:N1	2.16	0.61
29:D1:1352:A:C8	29:D1:1352:A:P	2.94	0.61
29:B1:1337:A:H2'	29:B1:1338:C:H6	1.65	0.61
1:A1:1433:G:N2	1:A1:1434:U:C4	2.68	0.61
29:B1:1539:A:C6	29:B1:1583:A:C8	2.88	0.61
36:BE:199:ILE:O	36:BE:201:GLY:CA	2.48	0.61
34:DC:281:LYS:O	34:DC:324:VAL:HA	2.01	0.61
29:B1:293:C:N3	29:B1:294:U:C2	2.68	0.61
1:A1:768:C:H2'	1:A1:769:A:O4'	2.00	0.61
29:D1:2764:C:OP2	29:D1:2764:C:C6	2.54	0.61
43:DN:58:ILE:CB	43:DN:59:ASN:CB	2.78	0.61
12:CK:24:LEU:H	12:CK:64:GLY:H	1.46	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BC:274:SER:O	34:BC:275:ARG:CB	2.49	0.61
52:DW:88:MET:C	52:DW:90:ALA:H	2.04	0.61
54:DY:72:VAL:C	54:DY:74:ASN:H	2.03	0.61
29:D1:908:G:C8	29:D1:925:A:N3	2.68	0.61
1:C1:1395:G:H2'	1:C1:1396:U:H5'	1.83	0.61
2:CA:79:ARG:O	2:CA:82:GLY:N	2.33	0.61
1:A1:1106:U:O2'	1:A1:1107:G:H5'	2.00	0.61
1:A1:1728:A:C4	1:A1:1729:C:C5	2.89	0.61
1:A1:550:A:H5''	1:A1:551:G:OP1	2.01	0.61
1:A1:611:U:C5'	1:A1:612:U:OP2	2.49	0.61
29:B1:1110:U:H2'	29:B1:1111:U:C6	2.35	0.61
29:B1:1376:C:C2	29:B1:1377:G:C8	2.88	0.61
29:B1:628:A:H5''	29:B1:1399:A:C5	2.35	0.61
29:B1:2342:U:H2'	29:B1:2343:C:H6	1.65	0.61
29:B1:2716:U:H3'	29:B1:2717:U:C5'	2.30	0.61
29:B1:2743:A:C6	29:B1:2751:G:C6	2.88	0.61
29:B1:1302:A:HO2'	29:B1:2887:A:H2	1.48	0.61
29:B1:2895:G:H5'	29:B1:3107:U:O2'	2.01	0.61
29:B1:2945:G:H5'	29:B1:2945:G:N3	2.16	0.61
29:B1:1455:U:N3	29:B1:3077:A:OP1	2.33	0.61
29:B1:3373:U:O4	29:B1:3374:U:O4	2.19	0.61
29:B1:3393:U:H2'	29:B1:3394:U:H6	1.66	0.61
29:B1:3377:G:O4'	74:B1:3450:OHX:N2	2.33	0.61
29:B1:416:A:H61	31:B3:7:U:H3	1.48	0.61
29:B1:514:G:O3'	29:B1:515:C:C6	2.54	0.61
29:B1:564:G:C3'	29:B1:565:U:H6	2.13	0.61
29:B1:595:G:H22	29:B1:609:G:H4'	1.65	0.61
29:B1:659:G:C6	29:B1:1432:C:N3	2.69	0.61
29:B1:703:G:N1	29:B1:704:U:C2	2.69	0.61
29:B1:837:A:N3	29:B1:837:A:H2'	2.15	0.61
29:B1:951:A:C2	29:B1:1369:A:C2	2.89	0.61
1:C1:63:G:H5'	1:C1:170:U:C4	2.35	0.61
1:C1:272:U:C4'	1:C1:273:G:OP2	2.49	0.61
1:C1:520:A:C4	1:C1:521:A:N7	2.68	0.61
1:C1:610:G:N2	1:C1:614:C:N3	2.47	0.61
1:C1:618:U:H2'	1:C1:619:A:C5'	2.30	0.61
1:C1:635:A:C5	1:C1:863:A:N7	2.68	0.61
29:D1:1289:G:N3	29:D1:1290:A:C8	2.68	0.61
29:D1:1780:G:H2'	29:D1:1781:C:H5	1.65	0.61
29:D1:1907:C:H2'	29:D1:1908:A:C5'	2.29	0.61
29:D1:2185:G:C5	29:D1:2186:U:C5	2.88	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:22:G:O6	31:D3:35:C:N4	2.33	0.61
29:D1:2385:G:H5''	74:D1:3547:OHX:N5	2.14	0.61
29:D1:26:A:C8	29:D1:27:C:C5	2.87	0.61
29:D1:2814:G:C2	29:D1:2815:G:C4	2.89	0.61
29:D1:29:C:H3'	29:D1:29:C:C6	2.35	0.61
29:D1:359:U:C4	29:D1:360:G:C6	2.88	0.61
29:D1:594:U:O4'	29:D1:609:G:N2	2.33	0.61
1:C1:686:C:C2'	1:C1:687:G:C8	2.69	0.61
1:A1:292:U:H2'	1:A1:293:U:C6	2.35	0.61
1:A1:60:U:H2'	1:A1:61:A:H5'	1.81	0.61
29:D1:998:A:H2'	29:D1:999:G:H5'	1.83	0.61
30:D2:11:A:C2	30:D2:67:G:O2'	2.48	0.61
1:A1:1691:A:C5	1:A1:1692:G:H1'	2.35	0.61
1:A1:333:A:C6	1:A1:334:G:C6	2.88	0.61
1:C1:1214:U:H4'	1:C1:1245:G:H21	1.66	0.61
1:C1:1481:C:C6	1:C1:1482:C:C2	2.89	0.61
1:C1:1584:G:N1	11:CJ:125:GLU:O	2.33	0.61
1:A1:1227:A:H4'	1:A1:1230:A:N6	2.16	0.61
1:A1:1597:A:N7	1:A1:1598:U:C4	2.68	0.61
46:BQ:9:THR:H	46:BQ:10:ASN:CA	2.14	0.61
29:B1:3209:A:H2'	29:B1:3210:A:N9	2.15	0.61
29:B1:3183:A:H2'	29:B1:3184:A:C8	2.35	0.61
29:D1:3201:C:C6	29:D1:3201:C:OP2	2.53	0.61
30:D2:26:C:C2'	30:D2:27:A:O4'	2.48	0.61
29:D1:1390:A:N7	29:D1:1418:A:N7	2.48	0.61
29:B1:1233:G:O2'	29:B1:1234:G:C5'	2.48	0.61
1:A1:417:A:C4'	1:A1:418:G:O5'	2.49	0.61
29:D1:2520:A:N3	29:D1:2521:U:O2	2.34	0.61
29:B1:2215:A:N3	29:B1:2216:G:C8	2.68	0.61
29:B1:71:A:C8	29:B1:72:C:C5	2.88	0.61
1:C1:1754:A:O2'	1:C1:1755:A:O5'	2.14	0.61
36:DE:110:LEU:HA	36:DE:111:GLN:CB	2.31	0.61
29:B1:26:A:C8	29:B1:27:C:C5	2.88	0.61
29:B1:2879:C:C5	29:B1:2880:U:C4	2.89	0.61
31:D3:156:U:H2'	31:D3:157:U:C5	2.35	0.61
1:C1:1656:U:H6	1:C1:1656:U:OP2	1.82	0.61
29:B1:1704:A:C2	29:B1:1741:A:C5	2.89	0.61
29:B1:2128:C:C4	29:B1:2129:U:C5	2.89	0.61
29:D1:2943:G:N7	29:D1:2944:U:C5	2.69	0.61
37:DF:12:SER:H	37:DF:116:LYS:HA	1.63	0.61
10:AI:37:ALA:HA	10:AI:40:ARG:CB	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1047:A:O2'	29:D1:1048:A:H5'	2.01	0.61
29:B1:2573:G:N7	74:B1:3558:OHX:N5	2.48	0.61
29:D1:1723:A:H5''	29:D1:1724:U:OP2	1.99	0.61
29:B1:2766:U:H2'	29:B1:2767:U:H6	1.66	0.61
49:BT:78:LYS:O	49:BT:79:MET:CB	2.48	0.61
34:BC:133:TYR:C	34:BC:135:ALA:N	2.54	0.61
29:D1:2471:U:H4'	32:DA:23:THR:H	1.64	0.61
33:DB:148:VAL:O	33:DB:149:ARG:CB	2.48	0.61
36:BE:147:ASP:O	36:BE:148:ILE:C	2.39	0.61
1:C1:1298:U:O5'	1:C1:1298:U:H6	1.83	0.61
6:AE:106:GLU:HA	6:AE:111:THR:CB	2.30	0.61
8:AG:67:THR:O	8:AG:71:ILE:CB	2.48	0.61
1:A1:1043:A:H2'	1:A1:1044:U:H5	1.65	0.61
1:A1:1150:G:O2'	1:A1:1766:A:C2	2.54	0.61
1:A1:14:C:H5'	3:AB:164:SER:H	1.65	0.61
1:A1:1646:C:O2	1:A1:1646:C:C2'	2.43	0.61
1:A1:378:A:N3	1:A1:378:A:H2'	2.15	0.61
1:A1:385:A:O2'	1:A1:386:G:H5'	2.00	0.61
1:A1:862:A:C4	1:A1:963:A:N6	2.68	0.61
29:B1:1177:G:C8	29:B1:1177:G:O5'	2.51	0.61
29:B1:1443:G:O2'	29:B1:1444:G:H5'	2.01	0.61
29:B1:1608:C:C2	29:B1:1609:C:C5	2.88	0.61
29:B1:1680:G:C4	29:B1:1681:U:C6	2.88	0.61
29:B1:1787:A:C5	29:B1:1788:C:C5	2.88	0.61
29:B1:3375:A:OP2	29:B1:3375:A:H4'	2.00	0.61
29:B1:576:C:H2'	29:B1:577:C:H5'	1.77	0.61
29:B1:606:C:N4	29:B1:607:A:C6	2.69	0.61
29:B1:607:A:N6	29:B1:608:A:C6	2.69	0.61
29:B1:648:C:C5	29:B1:2375:G:P	2.94	0.61
29:B1:749:C:C2	29:B1:750:G:N7	2.68	0.61
29:B1:980:A:O2'	29:B1:981:U:H4'	2.01	0.61
35:BD:101:ALA:O	35:BD:102:PRO:O	2.18	0.61
1:C1:177:U:OP2	1:C1:177:U:C6	2.53	0.61
1:C1:184:C:C5	1:C1:202:A:C2	2.89	0.61
1:C1:358:U:H5''	1:C1:359:A:P	2.41	0.61
1:C1:426:G:C6	1:C1:427:C:N4	2.68	0.61
1:C1:525:A:OP1	1:C1:526:A:N7	2.33	0.61
1:C1:553:G:C5	1:C1:554:C:C4	2.88	0.61
16:CO:8:ALA:HB2	16:CO:75:ILE:CB	2.30	0.61
29:D1:1190:A:N3	29:D1:1190:A:H2'	2.14	0.61
29:D1:1314:C:H5''	29:D1:1315:U:OP2	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:162:G:N2	29:D1:163:C:H1'	2.16	0.61
29:D1:2149:A:H62	29:D1:2187:G:N2	1.98	0.61
29:D1:287:G:H2'	29:D1:288:C:C6	2.31	0.61
29:D1:2931:C:C5	29:D1:2932:U:H5	2.19	0.61
29:D1:284:A:N3	29:D1:306:A:H1'	2.14	0.61
29:D1:3332:U:C2'	29:D1:3333:G:OP2	2.49	0.61
29:D1:34:A:H4'	29:D1:34:A:OP1	1.99	0.61
29:D1:520:U:H4'	29:D1:521:A:O5'	1.99	0.61
29:D1:585:A:C5'	29:D1:586:C:OP2	2.46	0.61
1:C1:972:G:HO2'	29:D1:847:A:H61	1.47	0.61
29:D1:83:U:C2'	29:D1:84:U:H5'	2.30	0.61
29:D1:974:G:C6	29:D1:975:C:N4	2.68	0.61
31:D3:96:A:H5'	31:D3:97:A:OP2	1.99	0.61
33:DB:172:GLY:O	33:DB:174:ARG:N	2.33	0.61
54:DY:28:HIS:O	54:DY:30:GLY:N	2.33	0.61
1:C1:217:A:H1'	1:C1:218:A:C5'	2.31	0.61
1:A1:686:C:C2'	1:A1:687:G:H8	2.01	0.61
30:B2:76:A:C4	30:B2:78:U:O4	2.53	0.61
31:B3:74:U:H4'	31:B3:89:A:C2	2.36	0.61
1:A1:452:A:C2	1:A1:454:U:O5'	2.54	0.61
1:C1:1684:U:C3'	1:C1:1684:U:O2	2.47	0.61
29:D1:2678:A:H5''	29:D1:2679:A:C2	2.35	0.61
1:A1:113:U:H5''	1:A1:114:C:C5'	2.22	0.61
1:A1:1690:G:H2'	1:A1:1691:A:H5''	1.81	0.61
1:C1:1488:G:O2'	1:C1:1494:C:H1'	2.00	0.61
1:C1:1527:C:H2'	1:C1:1527:C:O2	2.00	0.61
1:C1:1584:G:C2	11:CJ:124:PRO:HA	2.36	0.61
1:A1:1349:G:O2'	1:A1:1350:U:OP2	2.19	0.61
1:A1:1437:U:O2	1:A1:1437:U:C2'	2.40	0.61
1:A1:1179:G:N2	1:A1:1461:C:N4	2.47	0.61
1:A1:1482:C:O2'	1:A1:1483:A:O5'	2.19	0.61
1:A1:1491:U:C3'	1:A1:1492:A:H2'	2.30	0.61
1:A1:1543:A:C2	1:A1:1544:U:C1'	2.83	0.61
1:A1:1558:U:C6	1:A1:1559:A:H2	2.16	0.61
1:A1:1575:G:C6	1:A1:1576:A:C6	2.88	0.61
1:A1:1584:G:C2	11:AJ:124:PRO:HA	2.35	0.61
1:A1:1602:C:C3'	1:A1:1603:U:H6	2.12	0.61
29:B1:3219:G:C4	29:B1:3257:C:H3'	2.35	0.61
29:B1:2587:U:H2'	29:B1:2588:U:O4'	2.01	0.61
29:B1:1255:C:C2'	29:B1:1256:G:H4'	2.26	0.61
30:B2:23:A:C2'	30:B2:24:A:C8	2.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1277:C:C6	29:D1:1277:C:OP2	2.54	0.61
29:B1:344:A:C2	29:B1:345:G:H1'	2.36	0.61
29:B1:3221:C:C2	29:B1:3222:U:C6	2.89	0.61
29:D1:2235:C:N4	74:D1:3473:OHX:N5	2.48	0.61
29:B1:1624:G:N2	29:B1:1822:C:N3	2.49	0.61
29:B1:1627:U:C5	29:B1:1628:C:C4	2.88	0.61
29:D1:1916:U:C2	29:D1:1917:C:C5	2.89	0.61
29:B1:2119:A:C8	29:B1:2120:A:H2	2.18	0.61
36:BE:49:TYR:CA	36:BE:50:ARG:CB	2.77	0.61
5:CD:108:LEU:C	5:CD:110:ALA:N	2.52	0.61
29:B1:2888:U:C4	29:B1:2910:A:N1	2.68	0.61
17:AP:127:VAL:CB	17:AP:129:GLY:N	2.63	0.61
17:AP:86:PHE:C	17:AP:88:PRO:N	2.53	0.61
54:DY:131:SER:C	54:DY:133:LEU:N	2.54	0.61
13:CL:76:PRO:O	13:CL:81:ILE:N	2.33	0.61
48:BS:64:ARG:HA	48:BS:67:ALA:HB3	1.83	0.61
3:AB:118:ALA:HB2	3:AB:124:ALA:N	2.15	0.61
6:CE:100:LYS:HA	6:CE:104:PHE:H	1.64	0.61
45:BP:158:ALA:O	45:BP:161:LYS:N	2.33	0.61
36:BE:144:VAL:O	36:BE:173:VAL:HA	2.00	0.61
2:CA:50:VAL:O	2:CA:53:THR:N	2.34	0.61
29:D1:1764:U:H2'	29:D1:1765:U:O4'	2.00	0.61
1:A1:1748:G:H5''	29:B1:2304:C:H5''	1.82	0.61
1:A1:1791:A:H8	1:A1:1791:A:C5'	2.13	0.61
1:A1:1791:A:H8	1:A1:1791:A:H5'	1.64	0.61
1:A1:542:A:O2'	1:A1:543:C:O5'	2.13	0.61
1:A1:586:G:H2'	1:A1:587:C:C6	2.35	0.61
1:A1:871:G:HO2'	1:A1:872:G:H8	0.73	0.61
29:B1:107:A:C2	29:B1:108:A:N3	2.69	0.61
29:B1:1140:G:C2	29:B1:1141:C:C5	2.88	0.61
29:B1:1445:U:C6	29:B1:1446:A:N7	2.69	0.61
29:B1:121:A:H5'	29:B1:150:A:C2	2.35	0.61
29:B1:196:G:N2	29:B1:219:A:H62	1.98	0.61
29:B1:222:A:C6	29:B1:223:U:C4	2.88	0.61
29:B1:2270:A:C2	29:B1:2271:A:N3	2.69	0.61
29:B1:2279:A:H2	29:B1:2285:C:H41	1.46	0.61
29:B1:2309:A:C2	29:B1:2962:U:O4'	2.54	0.61
29:B1:2326:A:C6	29:B1:2327:U:C5	2.88	0.61
29:B1:1446:A:N1	29:B1:2356:A:H5''	2.15	0.61
29:B1:2370:G:H2'	29:B1:2371:G:H8	1.66	0.61
29:B1:3035:A:C4	29:B1:3036:G:C8	2.89	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3060:C:OP1	29:B1:3374:U:H5'	2.01	0.61
29:B1:522:A:N7	29:B1:523:A:H8	1.98	0.61
29:B1:528:U:C4	29:B1:564:G:O6	2.53	0.61
29:B1:588:G:C2	29:B1:612:U:C5	2.88	0.61
29:B1:722:G:H1	29:B1:748:U:H3	1.48	0.61
31:B3:107:G:C2'	31:B3:108:C:H5'	2.30	0.61
31:B3:111:A:C8	31:B3:111:A:H5''	2.34	0.61
31:B3:40:A:C4	31:B3:41:A:N7	2.69	0.61
1:C1:118:U:O2	1:C1:299:A:C2	2.53	0.61
1:C1:1634:C:C2'	1:C1:1634:C:O2	2.46	0.61
1:C1:23:G:O2'	1:C1:368:U:OP1	2.19	0.61
1:C1:27:U:O2'	1:C1:28:A:H5'	2.00	0.61
1:C1:359:A:H3'	1:C1:359:A:OP1	2.01	0.61
1:C1:859:A:H4'	1:C1:860:U:OP2	2.00	0.61
29:D1:1463:U:H2'	29:D1:1464:G:H8	1.65	0.61
29:D1:1506:A:HO2'	29:D1:1507:G:H5'	1.64	0.61
29:D1:1526:U:O4'	29:D1:1594:A:C2	2.54	0.61
29:D1:2269:U:H2'	29:D1:2270:A:H5'	1.83	0.61
29:D1:2280:A:C5	29:D1:2282:U:C5	2.88	0.61
29:D1:2339:C:H5	29:D1:3093:C:OP1	1.83	0.61
29:D1:2640:A:N9	29:D1:2641:U:H5	1.98	0.61
29:D1:88:A:H2	29:D1:281:G:N3	1.99	0.61
29:D1:2912:G:C6	29:D1:2913:C:C2	2.89	0.61
29:D1:3010:U:O4'	34:DC:15:GLY:HA3	2.01	0.61
29:D1:3095:U:C2'	29:D1:3096:C:O5'	2.48	0.61
29:D1:3320:A:C5	29:D1:3321:C:C4	2.89	0.61
29:D1:425:G:C6	29:D1:635:G:C2	2.89	0.61
29:D1:873:C:H3'	29:D1:874:U:H4'	1.83	0.61
29:D1:891:G:H5'	29:D1:2324:A:N3	2.15	0.61
29:D1:959:C:H41	29:D1:2801:A:H5''	1.64	0.61
29:D1:992:A:N1	29:D1:993:G:C5	2.69	0.61
31:D3:78:G:H2'	31:D3:79:A:C8	2.36	0.61
29:D1:2932:U:H5''	50:DU:41:GLY:HA2	1.83	0.61
1:A1:647:G:N1	1:A1:648:G:O6	2.34	0.61
1:A1:649:U:O4	1:A1:685:A:N1	2.34	0.61
29:D1:2673:A:C2	29:D1:2674:A:C5	2.88	0.61
29:D1:2673:A:H2	29:D1:2674:A:C6	2.19	0.61
1:A1:1720:G:C2'	1:A1:1721:A:H5'	2.30	0.61
1:C1:1176:G:C6	1:C1:1177:C:C4	2.88	0.61
1:C1:1363:U:H2'	1:C1:1364:G:N9	2.14	0.61
1:C1:1428:G:O5'	1:C1:1429:G:OP2	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1481:C:H5	1:C1:1482:C:C2	2.18	0.61
1:A1:1246:C:C4	1:A1:1247:U:C5	2.88	0.61
30:B2:88:G:O6	30:B2:89:G:O6	2.19	0.61
29:B1:386:A:H2'	29:B1:387:A:O5'	2.00	0.61
29:D1:1390:A:C4	29:D1:1418:A:C6	2.89	0.61
29:D1:189:G:C2	29:D1:191:U:C4	2.89	0.61
29:D1:1272:C:H2'	29:D1:1273:A:C4'	2.31	0.61
4:AC:61:GLU:C	4:AC:63:GLY:H	2.02	0.61
1:A1:948:G:H2'	1:A1:949:C:C6	2.36	0.61
29:B1:2555:G:H1'	29:B1:2556:C:OP2	2.00	0.61
29:B1:124:U:H2'	29:B1:125:C:C1'	2.30	0.61
1:C1:923:A:H2'	1:C1:924:A:C8	2.36	0.61
1:A1:1123:C:H2'	1:A1:1124:A:O5'	1.99	0.61
29:D1:2502:A:N3	29:D1:2502:A:H2'	2.15	0.61
29:B1:25:U:N3	29:B1:331:G:H8	1.98	0.61
29:B1:1040:A:C6	29:B1:1041:U:C6	2.89	0.61
29:D1:1713:G:C8	29:D1:1714:A:C2	2.88	0.61
1:C1:1661:U:H2'	1:C1:1662:G:H8	1.63	0.61
40:BI:63:LYS:O	40:BI:64:HIS:C	2.38	0.61
29:D1:3180:A:OP1	29:D1:3180:A:C4'	2.48	0.61
29:D1:3180:A:OP1	29:D1:3180:A:H4'	1.99	0.61
39:BH:219:ASP:O	39:BH:223:ALA:CB	2.49	0.61
29:B1:3180:A:H8	45:BP:114:LYS:CA	2.13	0.61
29:B1:2900:A:C2	29:B1:2901:G:C8	2.88	0.61
29:B1:1725:C:H2'	29:B1:1726:C:H6	1.65	0.61
1:C1:877:G:H5'	1:C1:936:G:N2	2.15	0.61
43:DN:107:GLU:O	43:DN:109:ARG:N	2.32	0.61
42:DK:85:LYS:O	42:DK:87:LYS:N	2.34	0.61
29:B1:2506:U:H2'	29:B1:2507:C:C6	2.36	0.61
1:A1:766:U:H3'	1:A1:768:C:OP2	2.01	0.61
3:CB:215:PHE:O	3:CB:217:ALA:N	2.33	0.61
38:BG:219:LYS:HA	38:BG:227:GLY:O	2.01	0.61
32:BA:95:LYS:HA	32:BA:100:ILE:N	2.15	0.61
39:BH:85:ASN:O	39:BH:88:ALA:HB3	2.01	0.61
49:BT:114:ALA:O	49:BT:117:ALA:HB3	2.00	0.61
29:B1:2764:C:H6	29:B1:2764:C:OP2	1.82	0.61
6:CE:26:ALA:O	6:CE:29:LYS:N	2.34	0.61
1:A1:1633:A:H1'	1:A1:1634:C:OP2	2.01	0.61
1:A1:1796:C:OP2	1:A1:1797:A:C8	2.54	0.61
1:A1:381:C:C2	1:A1:382:C:C5	2.88	0.61
1:A1:553:G:N2	1:A1:572:C:N3	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:609:U:C5'	1:A1:610:G:C5	2.80	0.61
29:B1:1369:A:H2'	29:B1:1370:G:O4'	2.01	0.61
29:B1:2375:G:O2'	29:B1:2377:G:OP2	2.17	0.61
29:B1:3104:U:O2	29:B1:3129:A:N7	2.34	0.61
29:B1:3142:A:H1'	29:B1:3144:G:C8	2.36	0.61
29:B1:60:A:N1	29:B1:328:U:O2	2.34	0.61
29:B1:2390:A:C4'	29:B1:3307:A:H2	2.10	0.61
29:B1:51:A:C2'	29:B1:52:A:H5'	2.30	0.61
29:B1:611:A:C5'	29:B1:612:U:OP1	2.48	0.61
29:B1:22:G:H5'	31:B3:104:A:O2'	2.00	0.61
1:C1:1634:C:C6	1:C1:1634:C:OP1	2.54	0.61
1:C1:33:U:O2	1:C1:468:A:C2	2.53	0.61
29:D1:1139:G:C4	29:D1:1140:G:C8	2.89	0.61
29:D1:1201:C:H2'	29:D1:1202:A:C5'	2.30	0.61
29:D1:1158:A:O2'	29:D1:1330:A:C2	2.53	0.61
29:D1:1337:A:C4	29:D1:1338:C:C5	2.89	0.61
29:D1:154:U:C4'	29:D1:155:G:OP2	2.43	0.61
29:D1:2257:C:H5'	29:D1:2258:U:H5	1.66	0.61
29:D1:2259:A:H3'	29:D1:2260:U:C5	2.36	0.61
29:D1:2315:G:C2	29:D1:2316:G:C8	2.89	0.61
29:D1:3040:A:O5'	50:DU:11:PHE:HA	2.01	0.61
29:D1:3157:U:P	29:D1:3157:U:H6	2.24	0.61
29:D1:3377:G:H5'	74:D1:3452:OHX:N2	2.15	0.61
74:D1:3477:OHX:N4	74:D1:3588:OHX:N5	2.48	0.61
29:D1:515:C:H2'	29:D1:516:A:C4'	2.27	0.61
29:D1:51:A:O2'	29:D1:52:A:H5'	2.00	0.61
29:D1:423:A:N6	29:D1:637:C:OP1	2.32	0.61
29:D1:807:A:H8	29:D1:807:A:H3'	1.65	0.61
1:A1:225:A:C4	1:A1:226:A:C8	2.88	0.61
1:A1:824:G:H4'	1:A1:825:U:C5'	2.17	0.61
1:C1:751:G:O2'	1:C1:752:A:H5'	2.01	0.61
29:B1:2636:A:C5'	29:B1:2637:A:H5'	2.29	0.61
31:B3:67:U:C3'	31:B3:68:G:H8	2.14	0.61
1:A1:166:C:H2'	1:A1:167:U:H5''	1.83	0.61
30:D2:11:A:C4'	30:D2:13:A:H2'	2.31	0.61
1:C1:333:A:C6	1:C1:334:G:C6	2.88	0.61
42:DK:50:ALA:CB	42:DK:63:GLU:H	2.08	0.61
1:A1:330:G:N3	1:A1:331:A:C8	2.69	0.61
1:A1:750:U:O5'	1:A1:750:U:H6	1.84	0.61
1:C1:1160:A:C2'	1:C1:1161:C:H6	2.12	0.61
1:C1:1523:G:OP2	1:C1:1524:A:OP2	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1555:A:H5''	1:C1:1556:A:OP2	2.01	0.61
1:C1:1614:A:H2'	1:C1:1614:A:N3	2.15	0.61
1:A1:1538:U:H5	1:A1:1540:G:C8	2.19	0.61
1:A1:1584:G:C8	11:AJ:123:ARG:N	2.59	0.61
1:A1:1614:A:H2'	1:A1:1614:A:N3	2.16	0.61
30:B2:94:C:O2'	30:B2:95:A:H5'	2.00	0.61
29:D1:3204:C:C2'	29:D1:3205:G:OP1	2.48	0.61
30:B2:37:G:N2	30:B2:45:A:N6	2.49	0.61
29:B1:1281:G:C6	29:B1:1282:G:C5	2.88	0.61
29:D1:3218:A:H4'	29:D1:3220:G:C8	2.36	0.61
29:D1:3264:G:H2'	29:D1:3265:C:C5'	2.28	0.61
29:B1:1594:A:H1'	29:B1:1615:C:H1'	1.81	0.61
29:D1:1279:C:O2'	29:D1:1280:C:O5'	2.16	0.61
9:CH:39:ILE:O	9:CH:40:ALA:HB2	1.99	0.61
38:DG:29:GLU:O	38:DG:32:ALA:HB3	2.00	0.61
1:C1:1327:C:O3'	4:CC:158:ILE:CB	2.48	0.61
1:C1:1392:U:H5''	1:C1:1392:U:H6	1.65	0.61
1:C1:1321:A:C5	2:CA:105:GLY:HA3	2.36	0.61
29:B1:1812:G:H4'	29:B1:1812:G:OP1	2.01	0.61
29:B1:1631:C:H5'	29:B1:1813:A:H2	1.64	0.61
29:B1:1469:C:O2	29:B1:1509:A:C2	2.54	0.61
1:A1:1310:U:O5'	1:A1:1310:U:H6	1.84	0.61
1:A1:899:G:N2	1:A1:915:A:C2	2.67	0.61
1:C1:894:U:H1'	1:C1:919:A:C2	2.36	0.61
1:C1:920:U:H6	1:C1:920:U:OP2	1.84	0.61
1:A1:1129:U:C5	1:A1:1130:G:N7	2.68	0.61
1:A1:1579:U:H2'	1:A1:1580:C:C6	2.35	0.61
47:DR:131:ALA:O	47:DR:133:LYS:N	2.34	0.61
29:B1:1422:G:C4	29:B1:1423:C:C5	2.88	0.61
43:DN:9:ALA:O	43:DN:10:SER:CB	2.49	0.61
29:B1:1916:U:H2'	29:B1:1917:C:C6	2.35	0.61
20:AS:41:GLN:N	74:AS:101:OHX:N4	2.49	0.61
3:CB:128:GLY:O	3:CB:131:ILE:N	2.29	0.61
29:D1:2546:C:N4	29:D1:2547:A:H62	1.99	0.61
29:B1:731:U:H5''	47:BR:136:ASN:H	1.65	0.61
29:B1:2219:A:H2'	29:B1:2220:A:H5'	1.83	0.61
8:AG:129:TYR:HA	8:AG:133:ALA:H	1.65	0.61
46:BQ:47:TYR:O	46:BQ:49:GLU:N	2.34	0.61
29:D1:2179:C:O2	33:DB:129:ALA:HB3	2.01	0.61
29:B1:2118:C:H6	29:B1:2118:C:O5'	1.84	0.61
48:BS:25:ASP:C	48:BS:27:ASN:N	2.52	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:142:GLY:HA2	3:AB:147:ASN:CB	2.30	0.61
1:A1:463:U:H2'	1:A1:464:A:O4'	2.01	0.61
5:CD:56:ALA:O	5:CD:58:LEU:N	2.34	0.61
41:DJ:91:VAL:O	41:DJ:92:HIS:CB	2.49	0.61
1:A1:1075:C:C4	1:A1:1076:A:N1	2.69	0.61
1:A1:1634:C:O5'	1:A1:1634:C:C6	2.54	0.61
1:A1:1757:G:C2'	1:A1:1758:U:O5'	2.49	0.61
1:A1:401:A:O2'	1:A1:402:C:O2'	2.19	0.61
1:A1:542:A:H2	1:A1:544:A:H3'	1.66	0.61
1:A1:986:G:O2'	1:A1:987:G:H8	1.84	0.61
29:B1:1201:C:H2'	29:B1:1202:A:C5'	2.31	0.61
29:B1:1390:A:C4	29:B1:1418:A:C6	2.89	0.61
29:B1:1453:A:C2	29:B1:1878:G:N2	2.69	0.61
29:B1:2277:C:H5''	29:B1:2317:A:C4'	2.21	0.61
29:B1:3058:U:O2'	29:B1:3059:G:P	2.59	0.61
29:B1:3110:C:O2'	29:B1:3111:U:H5'	2.01	0.61
29:B1:516:A:P	29:B1:517:G:OP1	2.59	0.61
29:B1:592:A:H3'	29:B1:593:C:C4'	2.30	0.61
29:B1:594:U:C4	29:B1:595:G:C6	2.89	0.61
29:B1:636:C:H5	29:B1:2378:C:O4'	1.81	0.61
29:B1:783:A:N7	74:B1:3483:OHX:N1	2.49	0.61
29:B1:863:C:H2'	29:B1:864:G:C5'	2.31	0.61
29:B1:934:G:C5	29:B1:935:U:C5	2.89	0.61
29:B1:3314:A:C5'	34:BC:119:TYR:H	2.10	0.61
29:B1:514:G:O2'	37:BF:145:LEU:O	2.19	0.61
1:C1:1779:U:O2'	1:C1:1780:G:O5'	2.17	0.61
1:C1:364:G:C2	1:C1:381:C:C4	2.88	0.61
1:C1:390:G:N2	1:C1:407:A:H61	1.98	0.61
1:C1:61:A:H4'	1:C1:62:A:OP2	1.97	0.61
1:C1:955:A:C2	1:C1:956:C:C2	2.89	0.61
29:D1:118:U:N3	29:D1:150:A:N6	2.28	0.61
29:D1:1449:A:H4'	29:D1:2983:C:C2	2.35	0.61
29:D1:2186:U:H2'	29:D1:2187:G:H8	1.65	0.61
29:D1:1899:G:N2	29:D1:2334:U:C6	2.69	0.61
29:D1:2380:U:C2	29:D1:2381:G:C8	2.89	0.61
29:D1:312:C:O2'	29:D1:313:A:H5'	2.01	0.61
29:D1:3305:A:C4	29:D1:3306:U:C2	2.88	0.61
29:D1:3374:U:O2'	29:D1:3375:A:O5'	2.18	0.61
29:D1:607:A:C2	29:D1:608:A:N9	2.69	0.61
31:D3:69:U:O3'	31:D3:70:G:H4'	1.98	0.61
1:A1:219:A:N6	1:A1:843:U:H1'	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:262:U:H2'	1:A1:263:C:C6	2.36	0.61
1:A1:89:G:H2'	1:A1:90:C:H6	1.64	0.61
30:D2:74:C:C5	30:D2:75:G:C8	2.89	0.61
29:B1:2674:A:N3	29:B1:2674:A:H2'	2.16	0.61
1:A1:245:U:C2	1:A1:247:A:OP2	2.54	0.61
1:C1:1241:G:O3'	1:C1:1242:A:H8	1.84	0.61
1:C1:1349:G:C4'	1:C1:1350:U:H5'	2.30	0.61
1:C1:1467:C:H2'	1:C1:1468:U:H6	1.65	0.61
1:A1:1254:U:O2'	1:A1:1255:G:P	2.58	0.61
1:A1:1466:G:C6	1:A1:1467:C:C4	2.88	0.61
29:B1:1465:A:N6	29:B1:1466:G:N1	2.49	0.61
29:B1:3176:G:H2'	29:B1:3177:G:H5'	1.82	0.61
29:D1:392:G:C2	29:D1:393:U:H6	2.17	0.61
29:D1:3260:G:O6	29:D1:3261:C:H1'	2.00	0.61
2:AA:169:SER:C	2:AA:171:GLY:N	2.45	0.61
31:B3:128:U:H5'	31:B3:129:C:OP2	2.01	0.61
30:D2:49:G:C4	30:D2:49:G:OP2	2.54	0.61
1:C1:416:A:C4'	1:C1:417:A:OP2	2.31	0.61
29:D1:1237:G:C2	29:D1:1252:A:C2	2.89	0.61
29:D1:986:U:O2'	29:D1:987:U:O5'	2.19	0.61
1:C1:1309:C:H2'	1:C1:1310:U:O5'	2.00	0.61
1:C1:1320:U:O2	1:C1:1322:A:H5'	1.99	0.61
29:B1:1626:U:H2'	29:B1:1627:U:C1'	2.30	0.61
1:A1:127:G:C5	1:A1:179:A:C5	2.89	0.61
1:A1:1336:A:C6	1:A1:1416:G:C6	2.88	0.61
30:B2:2:G:N3	30:B2:3:U:C6	2.69	0.61
29:D1:2561:A:N6	29:D1:2579:G:C4	2.69	0.61
29:D1:1715:A:C3'	29:D1:1716:U:H5''	2.27	0.61
1:C1:238:U:O5'	1:C1:239:C:H3'	2.01	0.61
34:BC:68:HIS:O	34:BC:69:LYS:C	2.39	0.61
46:DQ:30:ARG:O	46:DQ:32:THR:N	2.33	0.61
14:CM:60:SER:O	14:CM:62:ALA:N	2.34	0.61
1:C1:733:A:C2	1:C1:734:A:C5	2.89	0.61
1:C1:1623:C:H2'	1:C1:1623:C:O2	2.00	0.61
29:B1:2219:A:C2'	29:B1:2220:A:H5'	2.31	0.61
45:DP:94:ARG:O	45:DP:95:GLY:C	2.38	0.61
16:CO:37:PHE:C	16:CO:39:GLN:N	2.52	0.61
3:CB:188:LEU:O	3:CB:189:GLN:C	2.38	0.61
29:B1:237:G:C2'	29:B1:238:A:H5'	2.31	0.61
36:DE:194:LEU:O	36:DE:195:LEU:C	2.39	0.61
3:CB:142:GLY:HA2	3:CB:147:ASN:CB	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BD:252:GLU:C	35:BD:254:ALA:H	2.04	0.61
29:B1:2164:A:C2	29:B1:2171:G:C4	2.88	0.61
73:DM:42:ARG:O	73:DM:45:LEU:N	2.34	0.61
3:AB:163:GLY:O	3:AB:165:VAL:N	2.34	0.60
29:B1:1570:U:H4'	31:B3:127:U:O4	2.00	0.60
29:B1:1607:U:O2'	29:B1:1608:C:P	2.58	0.60
29:B1:2116:G:H5'	29:B1:2116:G:N3	2.16	0.60
29:B1:2830:G:H1	29:B1:2858:U:H3	1.48	0.60
29:B1:3069:G:C2	29:B1:3070:A:C8	2.89	0.60
29:B1:3314:A:H2'	34:BC:119:TYR:C	2.22	0.60
29:B1:3386:G:H8	29:B1:3386:G:H3'	1.64	0.60
29:B1:583:G:C6	29:B1:584:G:N7	2.69	0.60
29:B1:592:A:C1'	29:B1:593:C:O4'	2.49	0.60
29:B1:722:G:C2	29:B1:748:U:C2	2.88	0.60
41:BJ:12:GLN:O	41:BJ:14:ASN:N	2.34	0.60
1:C1:1116:A:C6	1:C1:1117:U:C4	2.89	0.60
1:C1:10:G:C6	1:C1:11:A:C6	2.89	0.60
1:C1:138:A:C6	1:C1:142:G:H1'	2.36	0.60
1:C1:534:A:C3'	1:C1:535:A:H8	2.14	0.60
29:D1:2314:U:O2	29:D1:2314:U:O4'	2.18	0.60
29:D1:2868:U:C5	29:D1:2869:U:H5	2.19	0.60
29:D1:2986:U:C2'	29:D1:2987:A:H5'	2.31	0.60
29:D1:3377:G:C1'	29:D1:3378:C:H5'	2.31	0.60
29:D1:1199:C:C4	74:D1:3574:OHX:N3	2.69	0.60
29:D1:607:A:N1	29:D1:608:A:C4	2.69	0.60
29:D1:699:A:H3'	29:D1:699:A:C8	2.36	0.60
37:DF:136:GLU:C	37:DF:138:GLN:N	2.52	0.60
29:B1:2646:C:O2'	29:B1:2647:A:H5'	2.00	0.60
29:B1:2725:U:H3'	29:B1:2725:U:H6	1.64	0.60
30:D2:77:G:N3	30:D2:101:G:C6	2.69	0.60
30:D2:13:A:C2	30:D2:13:A:P	2.94	0.60
29:D1:2681:U:O2'	29:D1:2682:C:C5'	2.48	0.60
1:A1:1712:A:H2'	1:A1:1713:G:H8	1.64	0.60
1:C1:1541:G:C5	1:C1:1542:G:C6	2.88	0.60
1:C1:1558:U:C5	1:C1:1559:A:H5''	2.36	0.60
1:A1:1558:U:H3'	1:A1:1559:A:C5'	2.31	0.60
29:B1:3217:C:H4'	29:B1:3218:A:OP2	2.00	0.60
29:D1:3282:U:C2	29:D1:3283:U:C5	2.88	0.60
1:C1:887:A:C4	1:C1:888:U:C5	2.89	0.60
2:CA:182:LEU:O	2:CA:187:ALA:HA	1.99	0.60
1:C1:1390:U:H2'	1:C1:1391:A:OP2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1753:A:N3	1:C1:1753:A:H2'	2.16	0.60
29:B1:2352:A:C6	29:B1:2353:G:C6	2.89	0.60
1:A1:1391:A:N1	1:A1:1409:G:N2	2.49	0.60
29:D1:1077:U:H3	29:D1:1083:G:N2	1.97	0.60
29:D1:645:A:N7	29:D1:649:A:C6	2.69	0.60
34:BC:106:TRP:O	34:BC:107:ALA:C	2.39	0.60
36:DE:234:ASP:O	36:DE:236:LEU:N	2.34	0.60
43:DN:24:LYS:HA	43:DN:31:LYS:N	2.15	0.60
13:CL:71:GLN:HA	13:CL:75:ASN:CB	2.31	0.60
1:A1:746:A:H2'	1:A1:747:C:O4'	2.01	0.60
40:BI:87:LYS:HA	40:BI:147:SER:CB	2.31	0.60
44:BO:155:VAL:O	44:BO:157:LYS:N	2.34	0.60
29:B1:3050:U:C5	29:B1:3051:U:C5	2.89	0.60
29:D1:2178:A:OP1	33:DB:126:LEU:HA	2.01	0.60
46:DQ:50:GLN:O	46:DQ:54:HIS:N	2.33	0.60
45:BP:190:VAL:C	45:BP:192:LYS:N	2.54	0.60
1:A1:766:U:H5	1:A1:769:A:OP2	1.84	0.60
6:CE:99:LEU:O	6:CE:101:VAL:N	2.33	0.60
3:CB:57:PHE:C	3:CB:59:HIS:N	2.53	0.60
41:DJ:152:LEU:O	41:DJ:153:ARG:C	2.40	0.60
1:A1:1501:C:H2'	1:A1:1502:G:H5'	1.83	0.60
34:DC:27:ALA:CB	34:DC:219:ALA:HA	2.31	0.60
29:D1:237:G:C2'	29:D1:238:A:H5'	2.30	0.60
41:BJ:61:SER:HA	41:BJ:126:ALA:CB	2.31	0.60
1:A1:1005:A:H2'	1:A1:1006:C:O4'	2.00	0.60
1:A1:1118:G:C6	1:A1:1119:G:C6	2.89	0.60
1:A1:426:G:N1	1:A1:427:C:C4	2.70	0.60
1:A1:34:G:C5	1:A1:475:A:N6	2.69	0.60
29:B1:1415:U:C2	29:B1:1416:C:H5	2.18	0.60
29:B1:1416:C:C2'	29:B1:1416:C:O2	2.46	0.60
29:B1:1453:A:H2'	29:B1:1878:G:N1	2.16	0.60
29:B1:146:U:C4	29:B1:147:U:C2	2.88	0.60
29:B1:1525:G:C8	29:B1:1829:G:C5	2.89	0.60
29:B1:1837:U:O2'	29:B1:1842:A:C8	2.53	0.60
29:B1:1514:G:N7	29:B1:1841:A:C2	2.69	0.60
29:B1:2842:U:O2	29:B1:2842:U:C2'	2.49	0.60
29:B1:2904:U:O2	29:B1:2904:U:C3'	2.49	0.60
29:B1:2914:G:C4	29:B1:2915:U:C6	2.89	0.60
29:B1:2934:A:C5'	29:B1:2935:U:OP2	2.50	0.60
29:B1:3057:U:HO2'	29:B1:3059:G:P	2.24	0.60
29:B1:3062:G:C6	29:B1:3063:C:C4	2.89	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3141:A:O4'	29:B1:3143:C:H2'	2.01	0.60
29:B1:3161:C:OP2	29:B1:3161:C:C6	2.54	0.60
29:B1:2859:U:O2	74:B1:3417:OHX:N4	2.34	0.60
29:B1:501:A:C2	29:B1:613:G:C2	2.88	0.60
29:B1:515:C:C4	29:B1:516:A:C8	2.89	0.60
29:B1:519:A:H62	37:BF:30:LEU:CA	2.14	0.60
29:B1:702:C:C2	29:B1:703:G:C8	2.88	0.60
29:B1:726:G:C5	29:B1:727:G:N1	2.69	0.60
31:B3:13:A:H2'	31:B3:14:C:C6	2.35	0.60
31:B3:43:A:H2'	31:B3:44:A:C8	2.36	0.60
1:C1:34:G:H2'	1:C1:35:U:H6	1.66	0.60
1:C1:44:U:O5'	1:C1:45:U:C5	2.50	0.60
1:C1:32:U:O2	1:C1:595:G:C2	2.54	0.60
29:D1:1150:A:OP1	29:D1:1151:U:O4	2.18	0.60
29:D1:1158:A:H3'	29:D1:1159:A:H5''	1.83	0.60
29:D1:1311:G:H2'	29:D1:1312:C:O5'	2.00	0.60
29:D1:1338:C:O2	29:D1:1338:C:H2'	2.00	0.60
29:D1:1528:G:C6	29:D1:1833:G:C6	2.88	0.60
29:D1:2185:G:H2'	29:D1:2185:G:N3	2.16	0.60
29:D1:288:C:H5''	44:DO:171:SER:HA	1.83	0.60
29:D1:2961:G:C6	29:D1:2962:U:C4	2.89	0.60
29:D1:3310:A:C2	29:D1:3311:C:O4'	2.54	0.60
29:D1:3333:G:HO2'	29:D1:3369:G:N2	1.97	0.60
29:D1:3386:G:C8	29:D1:3386:G:C3'	2.84	0.60
29:D1:379:C:H2'	29:D1:380:U:C6	2.36	0.60
29:D1:431:U:H6	29:D1:431:U:C5'	2.15	0.60
29:D1:722:G:H1	29:D1:748:U:H3	1.49	0.60
29:D1:784:A:C2'	29:D1:785:G:H8	2.11	0.60
29:D1:891:G:C5	29:D1:892:U:C4	2.89	0.60
30:B2:69:C:H1'	30:B2:110:G:H22	1.66	0.60
31:B3:67:U:C3'	31:B3:68:G:C8	2.83	0.60
1:C1:340:U:C3'	1:C1:341:A:H8	2.11	0.60
1:A1:1683:C:O5'	1:A1:1684:U:OP1	2.18	0.60
1:A1:1725:U:H6	1:A1:1725:U:O5'	1.83	0.60
1:C1:1368:G:H5''	1:C1:1369:U:OP2	2.02	0.60
1:C1:1506:G:O2'	1:C1:1507:G:H5'	2.01	0.60
1:C1:1560:U:O5'	1:C1:1560:U:C6	2.55	0.60
1:C1:1562:G:H2'	1:C1:1563:C:C6	2.36	0.60
1:A1:1348:A:C2	1:A1:1378:U:H6	2.19	0.60
1:A1:1424:A:O2'	3:AB:92:ALA:HB3	2.00	0.60
1:A1:1454:G:N2	1:A1:1455:G:H1'	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3218:A:HO2'	29:B1:3219:G:P	2.21	0.60
29:D1:3252:G:H2'	29:D1:3253:G:C8	2.36	0.60
29:D1:196:G:N1	29:D1:199:A:OP2	2.34	0.60
30:B2:25:G:N1	30:B2:26:C:C4	2.69	0.60
15:CN:20:ILE:CB	15:CN:21:LYS:HA	2.29	0.60
29:D1:1273:A:C8	29:D1:1274:A:N7	2.68	0.60
1:C1:1393:C:H2'	1:C1:1394:G:C8	2.36	0.60
41:BJ:159:PHE:O	41:BJ:161:GLY:N	2.34	0.60
29:D1:3003:G:C2	29:D1:3004:C:C4	2.88	0.60
1:A1:897:C:N3	1:A1:914:G:C2	2.69	0.60
29:B1:3273:A:C2	29:B1:3274:A:C4	2.90	0.60
29:B1:331:G:C2	29:B1:332:C:C4	2.89	0.60
1:C1:1657:U:C2	74:C1:1955:OHX:N1	2.70	0.60
29:D1:3179:U:H2'	29:D1:3179:U:OP2	2.00	0.60
29:D1:1739:U:H2'	29:D1:1740:U:O4'	2.00	0.60
1:C1:717:C:H1'	1:C1:718:U:P	2.41	0.60
16:AO:80:ASN:O	16:AO:123:GLY:O	2.19	0.60
34:DC:4:ARG:C	34:DC:6:TYR:H	2.05	0.60
11:CJ:46:PHE:C	11:CJ:48:VAL:N	2.54	0.60
29:B1:2467:G:N2	29:B1:2488:A:H62	1.98	0.60
29:D1:2554:A:H4'	29:D1:2555:G:O5'	2.01	0.60
2:CA:129:ASP:O	2:CA:132:ALA:HB3	2.02	0.60
8:AG:127:ARG:O	8:AG:129:TYR:N	2.34	0.60
29:D1:1868:G:C5	29:D1:1869:C:C5	2.89	0.60
3:CB:245:ASP:C	3:CB:247:ALA:N	2.54	0.60
32:DA:68:PHE:H	32:DA:112:ALA:HB2	1.66	0.60
8:AG:83:GLU:O	8:AG:84:ILE:CB	2.49	0.60
1:A1:1739:C:H2'	1:A1:1740:A:C8	2.37	0.60
2:CA:211:GLU:O	2:CA:215:ALA:HB2	2.00	0.60
1:A1:564:G:O2'	1:A1:577:G:H4'	2.01	0.60
2:CA:67:ILE:O	2:CA:69:ASN:N	2.34	0.60
53:BX:24:SER:O	53:BX:26:GLN:N	2.34	0.60
29:D1:1059:G:H2'	29:D1:1059:G:N3	2.16	0.60
45:BP:47:PHE:O	45:BP:51:LYS:CB	2.49	0.60
1:A1:1781:A:C2	1:A1:1782:A:C2	2.89	0.60
1:A1:635:A:C2	1:A1:863:A:C8	2.88	0.60
29:B1:11:A:O4'	29:B1:1557:A:N6	2.34	0.60
29:B1:195:U:C4'	29:B1:1391:C:H5	2.13	0.60
29:B1:1454:A:O4'	29:B1:1878:G:C2	2.54	0.60
29:B1:2167:A:C2'	29:B1:2168:A:C8	2.84	0.60
29:B1:924:G:C8	29:B1:2809:C:O2	2.54	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3013:U:C6	29:B1:3013:U:H5'	2.36	0.60
29:B1:3142:A:H3'	29:B1:3143:C:H5'	1.83	0.60
29:B1:704:U:C3'	29:B1:704:U:C6	2.84	0.60
29:B1:717:C:C5	29:B1:721:G:OP2	2.54	0.60
29:B1:743:C:H3'	29:B1:743:C:H6	1.66	0.60
29:B1:974:G:C5	29:B1:975:C:C5	2.89	0.60
29:B1:406:G:C1'	31:B3:16:G:H22	2.07	0.60
29:B1:149:U:N3	44:BO:55:ALA:HA	2.17	0.60
1:C1:173:A:C6	1:C1:174:U:C5	2.88	0.60
1:C1:407:A:C4	1:C1:408:C:C5	2.89	0.60
1:C1:461:G:H2'	1:C1:462:G:C8	2.35	0.60
1:C1:473:A:N6	1:C1:474:A:C2	2.69	0.60
1:C1:554:C:O3'	1:C1:555:A:H2'	2.00	0.60
1:C1:55:A:H3'	1:C1:56:U:C5'	2.31	0.60
1:C1:623:A:C2	1:C1:1105:C:H4'	2.36	0.60
1:C1:862:A:H4'	1:C1:863:A:O5'	2.01	0.60
1:C1:955:A:H2'	1:C1:956:C:C6	2.35	0.60
1:C1:925:G:H5'	1:C1:987:G:OP1	2.00	0.60
29:D1:2251:G:N3	29:D1:2252:A:C8	2.69	0.60
29:D1:2689:A:H1'	29:D1:2702:A:H61	1.67	0.60
29:D1:2703:A:C3'	29:D1:2704:A:C5'	2.78	0.60
29:D1:2849:C:H2'	29:D1:2849:C:O2	2.00	0.60
29:D1:2981:U:O2'	29:D1:2982:A:H5''	2.02	0.60
29:D1:3013:U:H5''	29:D1:3013:U:C6	2.36	0.60
29:D1:3321:C:C2'	29:D1:3322:A:H8	2.14	0.60
29:D1:525:C:C2	29:D1:526:C:C5	2.89	0.60
29:D1:705:A:C4	29:D1:715:A:N6	2.69	0.60
29:D1:771:A:H2'	29:D1:772:U:H5''	1.83	0.60
1:A1:228:G:O2'	1:A1:229:U:C6	2.49	0.60
1:C1:225:A:N6	1:C1:837:G:N1	2.50	0.60
29:B1:2689:A:O2'	29:B1:2702:A:C6	2.54	0.60
29:B1:351:A:C8	31:B3:53:A:H1'	2.36	0.60
49:BT:31:LEU:O	49:BT:32:LYS:O	2.19	0.60
30:D2:59:U:H2'	30:D2:60:G:C8	2.36	0.60
1:A1:1684:U:O2	1:A1:1684:U:C3'	2.49	0.60
1:C1:1559:A:C1'	13:CL:135:GLY:HA2	2.32	0.60
1:A1:1428:G:N3	1:A1:1428:G:H2'	2.16	0.60
1:A1:1495:C:H6	1:A1:1495:C:O5'	1.85	0.60
1:A1:1575:G:C4'	1:A1:1575:G:OP1	2.49	0.60
29:B1:435:C:H2'	29:B1:436:A:C8	2.35	0.60
29:B1:379:C:H6	29:B1:379:C:C5'	2.12	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3217:C:H2'	29:B1:3217:C:O2	2.00	0.60
29:B1:3203:U:H2'	29:B1:3204:C:C6	2.37	0.60
43:BN:89:ALA:O	43:BN:93:LYS:N	2.34	0.60
29:D1:3191:G:C6	29:D1:3202:G:C2	2.90	0.60
29:D1:225:C:H2'	29:D1:226:C:H6	1.65	0.60
29:B1:1249:G:H2'	29:B1:1249:G:N3	2.17	0.60
29:D1:3256:G:N3	29:D1:3256:G:H2'	2.14	0.60
6:AE:119:ALA:HB1	6:AE:125:ALA:HB2	1.83	0.60
1:C1:418:G:N2	1:C1:419:G:C4	2.69	0.60
29:D1:1251:A:H8	74:D1:3557:OHX:N2	1.98	0.60
29:D1:1643:A:H5''	29:D1:1822:C:H5''	1.83	0.60
1:C1:1321:A:N6	2:CA:105:GLY:HA3	2.16	0.60
29:B1:2556:C:C4	29:B1:2557:A:C2	2.88	0.60
29:D1:2100:A:H4'	29:D1:2101:C:OP1	2.01	0.60
1:A1:1412:G:H4'	1:A1:1413:U:OP1	2.00	0.60
1:A1:901:G:H4'	1:A1:901:G:OP1	1.99	0.60
29:B1:25:U:H2'	29:B1:26:A:C8	2.36	0.60
29:D1:1347:U:H3'	29:D1:1348:U:C5	2.36	0.60
29:B1:1739:U:H2'	29:B1:1740:U:O4'	2.01	0.60
29:D1:856:G:C6	29:D1:857:G:C2	2.88	0.60
5:CD:108:LEU:C	5:CD:110:ALA:H	2.04	0.60
36:DE:226:TYR:O	36:DE:230:ASP:HA	2.02	0.60
46:DQ:28:ASN:C	46:DQ:30:ARG:N	2.54	0.60
29:D1:601:U:N3	29:D1:602:A:C8	2.69	0.60
46:DQ:128:ARG:N	46:DQ:139:TYR:H	1.98	0.60
4:CC:174:HIS:O	4:CC:183:GLY:HA2	2.00	0.60
72:DL:41:LYS:O	72:DL:71:ALA:HB3	2.01	0.60
45:DP:95:GLY:O	45:DP:98:ALA:N	2.34	0.60
29:D1:176:G:HO2'	29:D1:177:U:H6	1.48	0.60
44:DO:146:ALA:C	44:DO:148:TYR:H	2.04	0.60
8:CG:138:ASN:O	8:CG:140:LYS:N	2.33	0.60
38:BG:160:ARG:C	38:BG:162:PRO:N	2.54	0.60
49:BT:14:MET:O	49:BT:16:GLN:N	2.31	0.60
44:BO:74:PRO:O	44:BO:75:VAL:CB	2.48	0.60
37:DF:125:GLN:HA	37:DF:129:GLU:CB	2.31	0.60
29:B1:1242:G:OP2	29:B1:1242:G:H4'	2.00	0.60
54:DY:126:LYS:O	54:DY:147:LEU:HA	2.02	0.60
34:BC:128:LYS:CB	34:BC:129:ALA:HA	2.31	0.60
15:AN:28:SER:CB	15:AN:112:VAL:HA	2.30	0.60
1:A1:1097:U:O2'	1:A1:1098:U:C5'	2.39	0.60
1:A1:38:C:C3'	1:A1:39:A:H5''	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:606:A:H4'	1:A1:607:G:C3'	2.32	0.60
29:B1:1312:C:H5'	29:B1:1313:G:OP2	2.02	0.60
29:B1:160:G:N2	29:B1:263:C:HO2'	1.99	0.60
29:B1:1847:A:H2	29:B1:1849:C:O4'	1.84	0.60
29:B1:19:U:C4	29:B1:20:A:N6	2.69	0.60
29:B1:207:U:C2	29:B1:208:C:C5	2.90	0.60
29:B1:2113:A:N7	29:B1:2114:C:C4	2.69	0.60
29:B1:2383:C:H2'	29:B1:2384:A:O5'	2.01	0.60
29:B1:2386:A:C8	29:B1:2994:A:N1	2.69	0.60
29:B1:88:A:H2	29:B1:281:G:N3	2.00	0.60
29:B1:2963:C:H2'	29:B1:2964:G:H5'	1.82	0.60
29:B1:2968:G:C2'	29:B1:2969:A:O5'	2.49	0.60
29:B1:3142:A:O3'	29:B1:3144:G:H8	1.84	0.60
29:B1:3359:A:H2'	29:B1:3360:C:O4'	2.00	0.60
29:B1:34:A:C8	29:B1:51:A:C6	2.89	0.60
29:B1:539:C:H2'	29:B1:539:C:O2	2.01	0.60
29:B1:682:U:C4	29:B1:699:A:C2	2.89	0.60
29:B1:781:G:C5	29:B1:782:U:C5	2.89	0.60
29:B1:888:A:N1	29:B1:889:U:C2	2.69	0.60
37:BF:159:LEU:C	37:BF:161:ALA:N	2.53	0.60
1:C1:1112:G:OP2	1:C1:1113:A:H2'	2.01	0.60
1:C1:971:A:N6	29:D1:846:A:H62	2.00	0.60
29:D1:1107:C:H2'	29:D1:1108:U:H6	1.66	0.60
29:D1:10:C:O2	29:D1:11:A:O4'	2.19	0.60
29:D1:1300:G:C6	29:D1:1301:A:N6	2.68	0.60
29:D1:1325:U:O4	29:D1:1326:A:N6	2.34	0.60
29:D1:1158:A:HO2'	29:D1:1330:A:H2	1.50	0.60
29:D1:1524:A:H1'	29:D1:1525:G:OP1	2.00	0.60
29:D1:1552:G:C5'	29:D1:1553:U:OP2	2.49	0.60
29:D1:2184:U:C2	29:D1:2185:G:C8	2.90	0.60
29:D1:2609:A:H2'	29:D1:2610:G:H8	1.65	0.60
29:D1:2698:G:C3'	29:D1:2699:G:H5''	2.31	0.60
29:D1:2897:A:C2	29:D1:2905:U:N3	2.69	0.60
29:D1:2925:C:H2'	29:D1:2926:A:O4'	2.00	0.60
29:D1:2950:G:N3	29:D1:2950:G:H2'	2.15	0.60
29:D1:3019:U:C4	29:D1:3020:U:C4	2.90	0.60
29:D1:3026:G:N2	29:D1:3030:G:C5	2.70	0.60
29:D1:3111:U:H2'	29:D1:3112:G:C5'	2.32	0.60
29:D1:3294:A:C6	29:D1:3295:A:C5	2.89	0.60
29:D1:408:A:C2	29:D1:409:A:C2	2.89	0.60
29:D1:62:A:H2'	29:D1:63:A:H8	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:10:A:C4	31:D3:11:C:C5	2.90	0.60
29:D1:2700:G:OP1	49:DT:17:ARG:CB	2.49	0.60
29:B1:2640:A:C8	29:B1:2641:U:H5	2.19	0.60
29:B1:2702:A:H8	29:B1:2704:A:C5	2.18	0.60
1:A1:142:G:N2	1:A1:173:A:C6	2.68	0.60
1:A1:63:G:C6	1:A1:88:U:O2	2.54	0.60
1:C1:1683:C:H4'	1:C1:1684:U:C5	2.35	0.60
1:C1:1690:G:N2	1:C1:1713:G:H1	2.00	0.60
1:C1:1720:G:C6	1:C1:1721:A:C4	2.89	0.60
1:C1:330:G:H2'	1:C1:331:A:C8	2.35	0.60
1:A1:248:U:O2'	1:A1:249:U:H5''	2.01	0.60
1:C1:1157:A:H2'	1:C1:1160:A:N7	2.17	0.60
1:C1:1558:U:C6	1:C1:1558:U:H3'	2.34	0.60
1:A1:1198:G:C3'	1:A1:1199:G:H5'	2.31	0.60
1:A1:1557:U:O2	1:A1:1557:U:H3'	2.01	0.60
29:B1:1196:C:O2	30:B2:86:U:O4'	2.20	0.60
6:CE:119:ALA:HB1	6:CE:125:ALA:HB2	1.83	0.60
29:D1:1394:A:H2'	29:D1:1395:G:C5'	2.31	0.60
29:D1:2523:A:H4'	29:D1:2524:A:OP1	2.00	0.60
29:B1:2235:C:C4	29:B1:2236:G:C6	2.89	0.60
29:D1:1063:G:O2'	29:D1:1064:A:P	2.59	0.60
29:D1:1629:U:H3'	29:D1:1630:U:H5''	1.82	0.60
1:C1:1402:G:C5	1:C1:1403:C:C5	2.88	0.60
38:BG:32:ALA:O	38:BG:33:ARG:C	2.39	0.60
1:A1:1333:C:H2'	1:A1:1334:U:C6	2.36	0.60
29:D1:1079:A:H4'	36:DE:140:ARG:CB	2.32	0.60
29:D1:649:A:H2'	29:D1:650:C:H6	1.66	0.60
29:D1:1928:G:C5	29:D1:1929:G:C8	2.89	0.60
1:C1:1283:U:H5''	1:C1:1284:C:H2'	1.83	0.60
31:D3:154:C:C2	31:D3:155:A:C8	2.89	0.60
36:BE:133:GLU:CB	36:BE:134:ALA:HA	2.31	0.60
1:A1:1326:A:C2'	1:A1:1327:C:H5'	2.31	0.60
29:B1:2861:U:H2'	29:B1:2862:U:O4'	2.02	0.60
29:D1:1018:G:N1	29:D1:1019:G:O6	2.34	0.60
34:DC:261:MET:C	34:DC:263:SER:H	2.03	0.60
14:AM:62:ALA:C	14:AM:64:HIS:N	2.55	0.60
29:D1:1362:G:H2'	29:D1:1363:A:C8	2.36	0.60
14:CM:57:ARG:O	14:CM:58:ALA:HB2	2.02	0.60
29:B1:2732:G:C4	29:B1:2733:A:C8	2.89	0.60
7:AF:110:HIS:CA	7:AF:111:VAL:CB	2.80	0.60
7:AF:125:VAL:HA	7:AF:139:VAL:HA	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:142:GLY:O	3:AB:149:GLY:O	2.19	0.60
16:AO:94:LEU:O	16:AO:95:PRO:CB	2.50	0.60
35:DD:153:SER:C	35:DD:155:ASP:H	2.05	0.60
33:BB:198:LYS:O	33:BB:200:ARG:N	2.33	0.60
29:B1:1059:G:H2'	29:B1:1059:G:N3	2.15	0.60
47:DR:92:ARG:O	47:DR:94:PHE:N	2.34	0.60
1:A1:365:G:C2	1:A1:366:A:C8	2.88	0.60
1:A1:588:U:H2'	1:A1:589:C:H6	1.67	0.60
1:A1:605:A:C5	1:A1:606:A:C6	2.90	0.60
1:A1:873:U:N3	1:A1:874:C:C4	2.70	0.60
29:B1:1139:G:H8	29:B1:1139:G:H5'	1.65	0.60
29:B1:1171:G:N7	74:B1:3537:OHX:N2	2.48	0.60
29:B1:1303:A:N1	29:B1:2887:A:C5	2.70	0.60
29:B1:264:G:C6	29:B1:265:A:N6	2.68	0.60
29:B1:287:G:H2'	29:B1:288:C:C6	2.33	0.60
29:B1:2903:A:C5	29:B1:2904:U:C6	2.90	0.60
29:B1:307:A:C8	29:B1:307:A:H3'	2.36	0.60
29:B1:3295:A:H2'	29:B1:3296:A:H8	1.67	0.60
29:B1:3303:G:O2'	29:B1:3304:U:H5'	2.01	0.60
29:B1:3321:C:C4	29:B1:3322:A:N7	2.69	0.60
29:B1:505:G:H2'	29:B1:506:U:O5'	2.00	0.60
29:B1:511:G:N2	29:B1:579:G:N2	2.49	0.60
29:B1:532:A:C6	29:B1:533:A:C2	2.90	0.60
29:B1:560:G:C2	29:B1:561:C:C4	2.89	0.60
29:B1:659:G:H8	29:B1:659:G:O5'	1.84	0.60
31:B3:42:G:O6	31:B3:103:G:C2	2.54	0.60
31:B3:113:U:HO2'	31:B3:114:G:P	2.23	0.60
31:B3:138:A:H2	31:B3:139:U:N1	1.99	0.60
29:B1:3314:A:OP2	34:BC:174:LYS:O	2.19	0.60
37:BF:97:ASN:O	37:BF:98:VAL:C	2.40	0.60
1:C1:1118:G:C6	1:C1:1119:G:C6	2.88	0.60
1:C1:1150:G:O2'	1:C1:1151:A:OP1	2.19	0.60
1:C1:448:C:C2'	1:C1:449:C:H6	2.01	0.60
1:C1:4:C:H2'	1:C1:5:U:H6	1.66	0.60
1:C1:533:U:H3'	1:C1:534:A:C8	2.31	0.60
1:C1:635:A:OP1	1:C1:636:A:OP2	2.19	0.60
1:C1:986:G:O2'	1:C1:987:G:O5'	2.18	0.60
29:D1:1560:G:H2'	29:D1:1561:G:O4'	2.01	0.60
29:D1:2169:G:O6	74:D1:3492:OHX:N3	2.35	0.60
29:D1:2282:U:C6	29:D1:2282:U:H5'	2.36	0.60
29:D1:1448:U:C5	29:D1:2355:G:N2	2.68	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2372:A:HO2'	29:D1:2373:A:P	2.25	0.60
29:D1:2715:A:H2'	29:D1:2715:A:OP1	2.01	0.60
29:D1:43:A:C8	29:D1:2803:A:N6	2.69	0.60
29:D1:3011:A:H1'	29:D1:3012:A:O4'	2.01	0.60
29:D1:3092:C:O2'	29:D1:3094:A:OP2	2.15	0.60
29:D1:43:A:N7	29:D1:2803:A:C6	2.69	0.60
29:D1:534:U:C6	29:D1:534:U:O5'	2.46	0.60
29:D1:66:A:H62	29:D1:76:G:N2	1.98	0.60
29:D1:705:A:C4'	29:D1:706:A:H5'	2.31	0.60
29:D1:739:G:H3'	29:D1:740:G:H8	1.67	0.60
29:D1:759:U:N3	29:D1:773:G:C5	2.70	0.60
29:D1:88:A:H2	29:D1:281:G:C2	2.18	0.60
31:D3:125:U:O4	74:D3:205:OHX:N1	2.34	0.60
31:D3:49:G:C5	31:D3:50:C:C5	2.89	0.60
34:DC:20:LYS:O	34:DC:21:ARG:O	2.20	0.60
30:B2:7:G:O6	30:B2:114:U:O4	2.19	0.60
30:B2:64:A:O4'	30:B2:65:G:O5'	2.19	0.60
31:B3:53:A:C6	31:B3:54:A:C5	2.89	0.60
1:A1:63:G:O4'	1:A1:170:U:C2	2.54	0.60
30:D2:10:C:O2'	30:D2:13:A:H8	1.84	0.60
30:D2:77:G:O2'	30:D2:78:U:OP2	2.19	0.60
1:A1:1720:G:H2'	1:A1:1721:A:C5'	2.31	0.60
1:C1:1483:A:H61	1:C1:1591:C:H1'	1.66	0.60
1:A1:1348:A:C3'	1:A1:1348:A:C8	2.84	0.60
1:A1:1385:G:C2	1:A1:1386:G:C8	2.88	0.60
1:A1:1497:U:C4	1:A1:1511:U:C2	2.90	0.60
1:C1:1054:U:H2'	1:C1:1055:U:H6	1.66	0.60
29:D1:333:G:H2'	29:D1:334:A:H8	1.66	0.60
29:D1:222:A:C6	29:D1:223:U:C4	2.89	0.60
29:D1:2520:A:C5	29:D1:2521:U:O4	2.54	0.60
29:D1:1242:G:OP1	29:D1:1242:G:C8	2.54	0.60
29:D1:1258:U:O2	29:D1:1258:U:H2'	2.02	0.60
1:C1:1409:G:H8	1:C1:1411:A:OP2	1.84	0.60
29:D1:1085:A:H5'	29:D1:1086:C:OP2	2.01	0.60
29:B1:1715:A:C8	29:B1:1716:U:O4'	2.54	0.60
30:D2:117:A:C2'	30:D2:118:A:H5'	2.32	0.60
29:D1:2540:A:O2'	29:D1:2541:U:H5'	2.02	0.60
1:A1:923:A:H2'	1:A1:924:A:C8	2.36	0.60
29:D1:1921:A:C6	29:D1:1929:G:N2	2.69	0.60
29:D1:2115:G:N2	74:D1:3448:OHX:N2	2.50	0.60
29:B1:252:U:H3'	29:B1:253:A:C5'	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2561:A:H2'	29:D1:2562:A:C8	2.35	0.60
29:B1:3357:U:H2'	29:B1:3358:U:C5	2.36	0.60
29:D1:1354:G:C8	29:D1:1355:A:N1	2.69	0.60
29:B1:1338:C:N3	29:B1:1339:C:C5	2.69	0.60
29:B1:2132:C:H6	29:B1:2132:C:C5'	2.11	0.60
1:A1:374:U:C2	1:A1:375:U:C6	2.89	0.60
44:BO:159:ARG:C	44:BO:161:ALA:N	2.54	0.60
3:AB:128:GLY:O	3:AB:131:ILE:N	2.32	0.60
1:C1:932:U:H4'	1:C1:933:A:O5'	2.00	0.60
1:A1:880:C:H2'	1:A1:881:A:H8	1.65	0.60
74:D1:3471:OHX:N5	74:D1:3607:OHX:N5	2.49	0.60
32:BA:55:LEU:N	32:BA:186:SER:HA	2.17	0.60
32:BA:54:LYS:HA	32:BA:55:LEU:CB	2.31	0.60
16:CO:102:VAL:H	16:CO:113:HIS:CB	2.14	0.60
47:BR:37:ALA:O	47:BR:39:ARG:N	2.33	0.60
32:BA:188:ASN:C	32:BA:190:PHE:H	2.05	0.60
46:DQ:73:GLY:O	46:DQ:75:GLU:O	2.18	0.60
29:B1:3163:A:H8	29:B1:3163:A:OP2	1.84	0.60
11:AJ:35:PRO:O	11:AJ:37:THR:N	2.34	0.60
7:AF:95:PRO:O	7:AF:96:LYS:C	2.40	0.60
29:B1:1330:A:H2'	29:B1:1331:U:H3'	1.82	0.60
29:B1:1453:A:H2'	29:B1:1878:G:H1	1.65	0.60
29:B1:200:C:N4	29:B1:217:U:C6	2.69	0.60
29:B1:3086:A:C4	29:B1:3087:A:C8	2.89	0.60
29:B1:3089:C:H3'	29:B1:3090:U:C5'	2.30	0.60
29:B1:593:C:H3'	29:B1:594:U:O4'	2.02	0.60
29:B1:773:G:O2'	29:B1:774:G:O4'	2.20	0.60
1:C1:148:A:O5'	1:C1:149:C:H5	1.84	0.60
1:C1:166:C:C4	1:C1:167:U:O4	2.55	0.60
1:C1:1778:G:C2	1:C1:1779:U:C5	2.89	0.60
1:C1:199:G:C4	1:C1:200:A:N7	2.69	0.60
1:C1:938:G:H5'	1:C1:939:A:OP2	2.02	0.60
29:D1:945:C:C1'	29:D1:1407:A:H1'	2.31	0.60
29:D1:1454:A:O4'	29:D1:1878:G:N2	2.35	0.60
29:D1:1655:G:N2	29:D1:1801:U:N3	2.49	0.60
29:D1:2290:C:O2'	29:D1:2291:A:O5'	2.20	0.60
29:D1:957:C:O3'	29:D1:2799:A:C8	2.54	0.60
29:D1:385:A:N3	29:D1:386:A:N7	2.49	0.60
29:D1:525:C:H2'	29:D1:526:C:H6	1.66	0.60
29:D1:583:G:C6	29:D1:584:G:N7	2.70	0.60
29:D1:747:A:H8	29:D1:747:A:P	2.24	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:995:U:C4	29:D1:2637:A:C4	2.89	0.60
31:D3:150:G:H2'	31:D3:152:G:OP2	2.02	0.60
1:A1:734:A:O2'	1:A1:735:C:H5'	2.02	0.60
1:A1:830:U:C2	1:A1:831:U:C5	2.90	0.60
29:B1:2650:U:H2'	29:B1:2650:U:O2	2.01	0.60
30:B2:70:U:H2'	30:B2:71:G:C8	2.34	0.60
1:A1:168:A:H3'	1:A1:169:A:C8	2.37	0.60
1:A1:207:U:N3	1:A1:208:U:C5	2.69	0.60
1:A1:57:G:C5	1:A1:58:U:H5	2.19	0.60
29:D1:2682:C:C2	29:D1:2683:U:C5	2.89	0.60
1:A1:212:U:O2'	1:A1:213:A:H5'	2.01	0.60
1:A1:302:U:H2'	1:A1:303:U:H5'	1.84	0.60
1:A1:798:C:C2'	1:A1:799:A:H5'	2.32	0.60
1:C1:1200:G:C8	1:C1:1200:G:H5''	2.36	0.60
1:C1:1570:A:N3	1:C1:1571:C:H1'	2.16	0.60
1:A1:1458:G:H3'	1:A1:1459:C:C6	2.36	0.60
1:A1:1508:U:O4	74:A1:1909:OHX:N5	2.34	0.60
29:B1:3257:C:HO2'	29:B1:3258:U:H5	1.43	0.60
29:B1:3197:G:OP2	29:B1:3198:U:H5	1.84	0.60
43:DN:89:ALA:O	43:DN:92:GLU:N	2.34	0.60
30:B2:42:A:N3	30:B2:45:A:N6	2.49	0.60
29:B1:3028:G:N2	29:B1:3029:A:C2	2.68	0.60
29:B1:1260:A:H2	29:B1:1278:A:C6	2.20	0.60
1:C1:946:U:H2'	1:C1:946:U:O2	2.00	0.60
30:D2:31:U:C6	30:D2:32:U:C5	2.90	0.60
44:BO:186:GLY:N	44:BO:187:ARG:CA	2.64	0.60
1:C1:1336:A:C5'	1:C1:1337:A:OP2	2.49	0.60
40:DI:63:LYS:O	40:DI:67:ALA:N	2.33	0.60
29:B1:1627:U:C5	29:B1:1628:C:N3	2.70	0.60
29:D1:3273:A:C6	29:D1:3274:A:C5	2.90	0.60
53:DX:17:LYS:C	53:DX:19:TYR:N	2.50	0.60
29:D1:3178:A:O2'	29:D1:3179:U:P	2.59	0.60
42:BK:85:LYS:O	42:BK:86:VAL:C	2.40	0.60
29:D1:1748:G:H2'	29:D1:1749:A:H8	1.65	0.60
20:CS:42:CYS:C	20:CS:44:ARG:H	2.05	0.60
44:DO:160:GLU:O	44:DO:161:ALA:HB2	1.99	0.60
29:B1:297:G:H4'	29:B1:299:G:H4'	1.83	0.60
29:D1:791:A:H5''	29:D1:792:G:OP2	2.02	0.60
1:C1:926:A:H2	9:CH:125:SER:HA	1.67	0.60
41:DJ:97:LEU:O	41:DJ:123:HIS:N	2.33	0.60
33:BB:12:ALA:O	33:BB:14:SER:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:439:C:O2	29:B1:439:C:H2'	2.01	0.60
38:BG:143:THR:O	38:BG:147:LEU:CB	2.49	0.60
2:AA:90:ALA:HB1	2:AA:95:ALA:O	2.02	0.60
34:DC:43:LEU:O	34:DC:44:THR:CB	2.48	0.60
40:DI:85:GLY:O	40:DI:186:PHE:HA	2.01	0.60
33:DB:207:VAL:O	33:DB:208:ASP:O	2.20	0.60
37:DF:23:LYS:HA	37:DF:114:LYS:CB	2.30	0.60
1:A1:1042:G:C2	1:A1:1043:A:C4	2.89	0.60
1:A1:1772:C:O2	1:A1:1772:C:H2'	2.01	0.60
29:B1:1178:G:H2'	29:B1:1179:A:C5'	2.31	0.60
29:B1:1379:G:H2'	29:B1:1379:G:N3	2.16	0.60
29:B1:1552:G:H5''	29:B1:1553:U:OP2	2.01	0.60
29:B1:2258:U:H2'	29:B1:2258:U:O2	2.01	0.60
29:B1:2341:A:H8	29:B1:2341:A:OP2	1.85	0.60
29:B1:1444:G:N2	29:B1:2359:C:N3	2.50	0.60
29:B1:308:A:C2	29:B1:2782:U:C2	2.89	0.60
29:B1:3135:U:C5	29:B1:3136:G:C6	2.90	0.60
29:B1:361:A:O2'	29:B1:362:U:C4'	2.50	0.60
29:B1:515:C:H5'	37:BF:143:LYS:CB	2.31	0.60
29:B1:645:A:C6	29:B1:649:A:C8	2.89	0.60
29:B1:756:U:H5''	29:B1:757:C:OP2	2.02	0.60
31:B3:107:G:C5	31:B3:116:G:O6	2.54	0.60
1:C1:1109:G:C2'	1:C1:1110:G:C5'	2.79	0.60
1:C1:1766:A:H8	1:C1:1794:A:HO2'	1.47	0.60
1:C1:454:U:O2'	1:C1:455:C:O4'	2.19	0.60
1:C1:511:A:H4'	1:C1:512:A:OP2	2.02	0.60
1:C1:518:A:N1	1:C1:535:A:N3	2.49	0.60
29:D1:1170:A:C8	29:D1:1171:G:C8	2.90	0.60
29:D1:1192:C:C3'	29:D1:1192:C:OP1	2.36	0.60
29:D1:1317:A:C5	29:D1:1319:G:N7	2.68	0.60
29:D1:1317:A:C8	29:D1:1317:A:H5'	2.36	0.60
29:D1:1445:U:C5	29:D1:1446:A:C8	2.89	0.60
29:D1:1539:A:C6	29:D1:1583:A:C8	2.89	0.60
29:D1:1780:G:N3	29:D1:1781:C:C5	2.69	0.60
29:D1:2113:A:C2'	29:D1:2114:C:C5'	2.79	0.60
29:D1:2278:C:N4	29:D1:2305:G:N7	2.49	0.60
29:D1:1302:A:N3	29:D1:2887:A:C2	2.70	0.60
29:D1:3305:A:C5	29:D1:3306:U:N3	2.69	0.60
29:D1:3377:G:C8	74:D1:3452:OHX:N5	2.70	0.60
29:D1:383:G:O2'	29:D1:385:A:C8	2.52	0.60
29:D1:431:U:C2	29:D1:432:G:C8	2.90	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:431:U:C6	29:D1:431:U:H3'	2.37	0.60
29:D1:516:A:P	29:D1:517:G:OP1	2.60	0.60
29:D1:532:A:H2'	29:D1:533:A:C8	2.36	0.60
29:D1:534:U:O2	29:D1:559:A:H2	1.85	0.60
29:D1:637:C:C2	29:D1:638:C:C4	2.90	0.60
29:D1:774:G:H2'	29:D1:775:A:H5'	1.79	0.60
29:D1:968:G:C4	29:D1:969:C:C5	2.90	0.60
1:A1:699:U:H2'	1:A1:700:C:H5	1.63	0.60
1:C1:824:G:H4'	1:C1:825:U:C5'	2.17	0.60
30:B2:77:G:C2	30:B2:101:G:C5	2.89	0.60
30:B2:72:A:H2'	30:B2:73:C:H6	1.64	0.60
31:B3:80:A:H2'	31:B3:81:U:N1	2.16	0.60
31:B3:97:A:C2'	31:B3:98:U:H5'	2.31	0.60
1:A1:288:A:C4	1:A1:289:U:H5	2.19	0.60
30:D2:66:A:H2'	30:D2:67:G:O4'	2.02	0.60
74:C1:1912:OHX:N2	74:C1:2001:OHX:N2	2.49	0.60
1:C1:1378:U:C4	11:CJ:19:VAL:CB	2.85	0.60
1:A1:1157:A:H2'	1:A1:1160:A:N7	2.16	0.60
1:A1:1237:G:C4	1:A1:1238:A:C8	2.90	0.60
1:A1:1606:C:H2'	1:A1:1607:G:C8	2.37	0.60
4:CC:61:GLU:C	4:CC:63:GLY:H	2.04	0.60
29:B1:69:C:O2	29:B1:69:C:H2'	2.01	0.60
29:B1:70:A:H2	29:B1:71:A:HO2'	1.33	0.60
29:B1:342:A:C6	29:B1:349:A:N7	2.70	0.60
29:D1:2516:U:O2'	29:D1:2517:U:O4'	2.14	0.60
29:B1:986:U:H2'	29:B1:987:U:O5'	2.01	0.60
29:D1:1681:U:O2	29:D1:1681:U:C2'	2.49	0.60
29:D1:3073:A:H2'	29:D1:3074:G:O5'	2.00	0.60
30:B2:5:G:C2'	30:B2:6:C:H5"	2.31	0.60
30:D2:2:G:N3	30:D2:2:G:H2'	2.14	0.60
36:DE:133:GLU:CB	36:DE:134:ALA:HA	2.32	0.60
1:C1:1282:U:C2	1:C1:1283:U:C5	2.90	0.60
1:A1:310:C:C3'	1:A1:310:C:C6	2.85	0.60
29:B1:2119:A:N7	29:B1:2120:A:C2	2.68	0.60
29:B1:1364:C:H2'	29:B1:1365:G:C8	2.37	0.60
5:CD:197:GLU:H	5:CD:200:ASN:N	1.95	0.60
29:B1:1023:C:H3'	29:B1:1024:G:C5'	2.32	0.60
29:B1:1914:G:H1'	29:B1:2115:G:C8	2.37	0.60
6:AE:54:ARG:O	6:AE:55:ALA:O	2.19	0.60
2:AA:129:ASP:O	2:AA:132:ALA:HB3	2.02	0.60
3:AB:83:ILE:HA	3:AB:100:ALA:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DN:82:SER:O	43:DN:85:TRP:N	2.35	0.60
32:BA:95:LYS:CB	32:BA:124:LEU:HA	2.31	0.60
40:BI:45:PHE:O	40:BI:46:THR:CB	2.50	0.60
29:B1:629:U:H3'	29:B1:630:A:H8	1.65	0.60
29:B1:1401:A:H2'	29:B1:1402:C:C6	2.37	0.60
53:DX:18:ALA:O	53:DX:22:ALA:HB2	2.02	0.60
4:CC:133:GLY:HA3	4:CC:154:ASP:O	2.02	0.60
1:A1:10:G:H2'	1:A1:11:A:C8	2.37	0.60
1:A1:1110:G:C2	1:A1:1111:G:C4	2.90	0.60
1:A1:1153:G:OP2	1:A1:1153:G:C8	2.53	0.60
1:A1:11:A:O2'	1:A1:1300:A:H4'	2.02	0.60
1:A1:1673:G:C5	1:A1:1674:C:C5	2.90	0.60
1:A1:296:U:H2'	1:A1:297:U:N1	2.16	0.60
1:A1:35:U:O2'	1:A1:36:C:H5'	2.02	0.60
1:A1:497:G:H2'	1:A1:498:G:H5'	1.84	0.60
29:B1:1317:A:C5	29:B1:1319:G:N7	2.70	0.60
29:B1:209:A:O3'	29:B1:210:U:C6	2.54	0.60
29:B1:2144:A:N3	29:B1:2281:A:N6	2.50	0.60
29:B1:20:A:H4'	29:B1:21:G:OP1	2.01	0.60
29:B1:2315:G:C2	29:B1:2316:G:C8	2.90	0.60
29:B1:648:C:C5	29:B1:2374:C:O3'	2.54	0.60
29:B1:2961:G:C5	29:B1:2962:U:C5	2.90	0.60
29:B1:301:G:O2'	29:B1:302:U:H5'	2.01	0.60
29:B1:3328:G:O2'	29:B1:3329:U:C4'	2.50	0.60
29:B1:514:G:C2'	29:B1:515:C:C6	2.84	0.60
29:B1:688:G:C1'	29:B1:692:A:H61	2.13	0.60
29:B1:784:A:C2'	29:B1:785:G:H8	2.14	0.60
37:BF:152:THR:HA	37:BF:156:LYS:H	1.66	0.60
1:C1:168:A:C6	1:C1:169:A:N6	2.70	0.60
1:C1:380:U:H2'	1:C1:381:C:C5	2.37	0.60
1:C1:445:A:H2'	1:C1:446:A:H8	1.65	0.60
1:C1:539:G:N3	1:C1:543:C:N3	2.49	0.60
1:C1:611:U:C5'	1:C1:612:U:OP2	2.49	0.60
1:C1:59:C:N4	1:C1:89:G:C4	2.70	0.60
1:C1:978:A:N1	1:C1:1024:U:O2	2.34	0.60
29:D1:1170:A:OP2	74:D1:3543:OHX:N3	2.34	0.60
29:D1:1224:C:OP1	29:D1:1224:C:C6	2.55	0.60
29:D1:1302:A:N3	29:D1:2887:A:C4	2.70	0.60
29:D1:1662:G:C5	29:D1:1663:C:C5	2.89	0.60
29:D1:1839:A:C5'	29:D1:1840:U:OP1	2.44	0.60
29:D1:2147:A:C5'	29:D1:2147:A:C8	2.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2279:A:H2	29:D1:2285:C:N4	2.00	0.60
29:D1:2611:U:C2'	29:D1:2612:U:C6	2.66	0.60
29:D1:2806:U:C2'	29:D1:2807:U:H5'	2.31	0.60
29:D1:287:G:C5	29:D1:288:C:C5	2.89	0.60
29:D1:2931:C:H2'	29:D1:2932:U:H6	1.66	0.60
29:D1:2986:U:C2	29:D1:2987:A:N7	2.70	0.60
29:D1:3029:A:H3'	29:D1:3030:G:C5'	2.29	0.60
29:D1:44:U:C5	29:D1:45:A:N9	2.70	0.60
29:D1:760:G:N3	29:D1:761:A:C8	2.70	0.60
30:D2:97:A:C8	30:D2:97:A:OP2	2.54	0.60
1:A1:223:U:H5'	1:A1:224:C:OP2	2.02	0.60
29:B1:2696:A:N7	29:B1:2697:A:N7	2.49	0.60
1:A1:190:C:N4	1:A1:192:U:H3	2.00	0.60
1:C1:1718:G:H2'	1:C1:1719:A:C5'	2.31	0.60
1:C1:337:G:H4'	1:C1:338:C:H5''	1.84	0.60
42:DK:55:ARG:O	42:DK:57:PHE:N	2.35	0.60
1:A1:1685:G:N2	1:A1:1718:G:N2	2.47	0.60
1:C1:1236:A:H3'	1:C1:1237:G:H8	1.66	0.60
1:C1:1431:C:C3'	1:C1:1432:U:H5'	2.32	0.60
1:C1:1520:U:N3	74:C1:1930:OHX:N4	2.50	0.60
1:C1:1166:A:O2'	1:C1:1587:A:H4'	2.01	0.60
74:C1:1912:OHX:N5	74:C1:2001:OHX:N4	2.49	0.60
1:A1:1455:G:C4	1:A1:1456:C:N3	2.69	0.60
1:A1:1585:U:C5	1:A1:1610:G:N2	2.69	0.60
6:CE:82:ARG:C	6:CE:84:GLY:N	2.53	0.60
29:B1:2522:G:C6	29:B1:2587:U:C4	2.89	0.60
1:C1:885:G:H2'	1:C1:886:U:C6	2.36	0.60
4:CC:9:ARG:CB	4:CC:13:ALA:HB2	2.31	0.60
1:C1:1294:G:C2	1:C1:1295:G:C8	2.89	0.60
1:C1:1331:A:C2'	1:C1:1332:C:O5'	2.50	0.60
29:B1:1062:A:H3'	29:B1:1063:G:C8	2.37	0.60
29:B1:2556:C:C2'	29:B1:2556:C:O2	2.49	0.60
29:D1:2163:C:O2	29:D1:2163:C:H2'	2.01	0.60
29:B1:2582:C:OP2	29:B1:2582:C:H6	1.83	0.60
13:CL:101:LEU:O	13:CL:102:ALA:HB2	2.01	0.60
29:B1:2104:A:C3'	29:B1:2105:G:H5''	2.31	0.60
29:B1:1742:U:H2'	29:B1:1743:G:H8	1.67	0.60
1:C1:782:U:H1'	1:C1:783:G:OP2	2.01	0.60
29:D1:2942:C:C3'	29:D1:2942:C:H6	2.12	0.60
29:B1:1357:G:C4	29:B1:1358:C:C5	2.89	0.60
29:B1:1884:A:C4	29:B1:1885:U:N3	2.70	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1183:C:H2'	29:B1:1184:A:H5''	1.84	0.60
29:D1:2968:G:H2'	29:D1:2969:A:O5'	2.02	0.60
45:DP:58:LEU:H	45:DP:60:LYS:CB	2.15	0.60
10:AI:19:GLY:N	13:AL:98:TYR:HA	2.16	0.60
37:DF:99:GLU:O	37:DF:100:LYS:C	2.40	0.60
12:CK:46:LEU:C	12:CK:48:ASN:N	2.55	0.60
10:AI:67:ALA:HA	10:AI:68:PRO:C	2.20	0.60
44:BO:97:SER:O	44:BO:99:ARG:N	2.35	0.60
50:BU:27:ASP:CB	50:BU:101:VAL:HA	2.31	0.60
29:D1:1888:U:OP1	34:DC:228:GLY:HA3	2.01	0.60
29:D1:1699:A:H2'	29:D1:1700:G:C8	2.36	0.60
40:DI:45:PHE:O	40:DI:46:THR:CB	2.49	0.60
12:CK:55:THR:O	12:CK:59:LYS:N	2.32	0.60
13:CL:46:VAL:O	13:CL:48:LYS:N	2.29	0.60
5:AD:135:ASP:HA	5:AD:138:THR:CB	2.32	0.60
9:AH:44:GLY:O	9:AH:46:MET:N	2.35	0.60
1:A1:1065:A:C5	1:A1:1066:C:C4	2.90	0.60
1:A1:34:G:H2'	1:A1:35:U:H6	1.65	0.60
1:A1:614:C:C2	1:A1:615:A:C8	2.89	0.60
1:A1:624:G:C4	1:A1:1027:A:C2	2.90	0.60
29:B1:1192:C:OP2	29:B1:1192:C:N1	2.34	0.60
29:B1:1779:C:H4'	29:B1:1780:G:OP1	2.00	0.60
29:B1:2166:A:H2'	29:B1:2167:A:C8	2.36	0.60
29:B1:2184:U:C2	29:B1:2185:G:C8	2.89	0.60
29:B1:2294:U:C6	29:B1:2297:U:H5	2.20	0.60
29:B1:2361:A:C8	29:B1:2362:C:C5	2.90	0.60
29:B1:3136:G:C4	29:B1:3137:C:C5	2.89	0.60
29:B1:3305:A:H2'	29:B1:3306:U:O2	2.02	0.60
29:B1:35:A:C5	29:B1:36:C:C5	2.89	0.60
29:B1:396:A:H4'	29:B1:397:A:OP1	2.02	0.60
29:B1:407:A:C2'	29:B1:408:A:H5'	2.32	0.60
29:B1:592:A:H2'	29:B1:593:C:O2'	2.02	0.60
29:B1:677:A:H2	29:B1:703:G:H21	1.49	0.60
29:B1:761:A:N6	29:B1:770:G:H22	2.00	0.60
29:B1:876:A:H2'	29:B1:877:C:H5'	1.83	0.60
29:B1:88:A:C5	29:B1:99:A:N6	2.69	0.60
29:B1:960:U:C2'	29:B1:961:C:O4'	2.50	0.60
29:B1:10:C:C5	31:B3:149:A:C2	2.90	0.60
1:C1:1634:C:P	1:C1:1634:C:C5	2.94	0.60
1:C1:169:A:O2'	1:C1:171:A:C8	2.47	0.60
1:C1:1150:G:N2	1:C1:1795:U:OP2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:268:C:N3	1:C1:288:A:H2	1.99	0.60
1:C1:483:A:P	1:C1:483:A:H8	2.25	0.60
1:C1:524:U:N3	1:C1:527:A:C6	2.70	0.60
1:C1:614:C:C2	1:C1:615:A:C8	2.90	0.60
1:C1:635:A:C4	1:C1:863:A:C8	2.90	0.60
1:C1:871:G:O6	1:C1:957:G:O6	2.19	0.60
29:D1:1193:A:C8	29:D1:1194:G:N2	2.70	0.60
29:D1:1528:G:H2'	29:D1:1529:A:C8	2.30	0.60
29:D1:1607:U:O2'	29:D1:1608:C:O5'	2.19	0.60
29:D1:1662:G:H1	29:D1:1787:A:H61	1.49	0.60
29:D1:1857:C:O2'	29:D1:1858:A:C8	2.55	0.60
29:D1:1909:A:N6	29:D1:1910:A:N1	2.50	0.60
29:D1:2299:A:C4	29:D1:2300:G:C8	2.90	0.60
29:D1:2898:G:O5'	29:D1:2898:G:H8	1.84	0.60
29:D1:3328:G:N2	29:D1:3375:A:H62	1.98	0.60
29:D1:637:C:N3	29:D1:638:C:C4	2.69	0.60
29:D1:744:A:H2'	29:D1:745:C:C6	2.36	0.60
29:D1:746:A:H8	29:D1:746:A:O5'	1.84	0.60
29:D1:9:U:O4	29:D1:10:C:H5	1.85	0.60
31:D3:14:C:H3'	31:D3:15:G:C8	2.25	0.60
31:D3:48:A:C2	31:D3:51:G:C6	2.89	0.60
31:D3:74:U:H4'	31:D3:89:A:N3	2.16	0.60
37:DF:43:LEU:H	37:DF:84:VAL:HA	1.67	0.60
30:D2:12:U:N3	30:D2:70:U:OP1	2.35	0.60
1:C1:1691:A:C5	1:C1:1692:G:H1'	2.37	0.60
1:C1:330:G:N3	1:C1:331:A:C8	2.70	0.60
1:A1:330:G:H2'	1:A1:331:A:H8	1.67	0.60
1:A1:1267:G:H21	1:A1:1448:G:H5''	1.66	0.60
1:A1:1527:C:O2	1:A1:1527:C:H2'	2.02	0.60
1:A1:1543:A:C8	1:A1:1569:A:N6	2.70	0.60
29:B1:1463:U:H2'	29:B1:1464:G:H8	1.67	0.60
29:B1:386:A:H2'	29:B1:387:A:O4'	2.01	0.60
29:D1:3194:C:H3'	29:D1:3194:C:C6	2.36	0.60
29:D1:3203:U:O3'	29:D1:3204:C:O4'	2.20	0.60
29:B1:1280:C:C2'	29:B1:1281:G:C8	2.81	0.60
29:D1:3281:U:C4	29:D1:3282:U:O4	2.55	0.60
30:D2:30:G:H2'	30:D2:31:U:C5'	2.31	0.60
30:D2:38:U:C5	30:D2:41:G:H5''	2.35	0.60
29:D1:1249:G:H2'	29:D1:1250:G:C8	2.37	0.60
29:D1:1232:C:H41	29:D1:1261:G:H3'	1.67	0.60
29:D1:1255:C:O2'	72:DL:131:GLU:HA	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2429:G:O2'	29:B1:2430:A:H5'	2.02	0.60
29:D1:1623:G:H3'	29:D1:1624:G:H8	1.67	0.60
29:B1:1079:A:H5'	36:BE:141:PRO:CB	2.32	0.60
29:B1:1088:U:H2'	29:B1:1089:G:C8	2.37	0.60
29:D1:3006:A:C2	29:D1:3141:A:C2	2.90	0.60
1:A1:1309:C:H2'	1:A1:1310:U:O5'	2.01	0.60
29:B1:1638:A:N1	29:B1:1736:G:H2'	2.16	0.60
43:BN:48:GLY:O	43:BN:49:PRO:C	2.40	0.60
34:BC:295:ALA:N	34:BC:305:ILE:H	1.99	0.60
29:D1:836:A:C6	29:D1:837:A:N7	2.69	0.60
29:D1:1042:U:C5	29:D1:1042:U:OP2	2.55	0.60
29:B1:1544:G:N2	29:B1:1545:A:H1'	2.17	0.60
14:CM:112:GLY:O	14:CM:113:ILE:CB	2.50	0.60
29:D1:1307:G:C2	29:D1:1308:A:C2	2.89	0.60
45:DP:56:ASP:O	45:DP:60:LYS:N	2.35	0.60
29:D1:1356:U:H2'	29:D1:1356:U:O2	2.01	0.60
2:CA:126:PRO:O	2:CA:130:ALA:HB2	2.01	0.60
29:D1:1409:G:H2'	29:D1:1410:U:H5'	1.82	0.60
54:DY:85:ASP:H	54:DY:87:ARG:CB	2.15	0.60
1:A1:1624:C:O2	1:A1:1624:C:H2'	2.00	0.60
34:BC:133:TYR:O	34:BC:135:ALA:N	2.34	0.60
74:A1:1951:OHX:N3	74:A1:1991:OHX:N1	2.50	0.60
35:BD:237:GLN:C	35:BD:239:ALA:H	2.02	0.60
41:DJ:38:LYS:O	41:DJ:39:LYS:O	2.19	0.60
14:AM:101:ASN:O	14:AM:103:LYS:N	2.35	0.60
38:DG:120:THR:O	38:DG:123:THR:N	2.34	0.60
17:AP:58:GLY:HA2	17:AP:70:LYS:HA	1.84	0.60
40:BI:21:LYS:O	40:BI:22:SER:C	2.40	0.60
1:A1:1053:G:H2'	1:A1:1054:U:C6	2.36	0.60
1:A1:1111:G:H2'	1:A1:1112:G:O4'	2.02	0.60
1:A1:1758:U:H2'	1:A1:1759:C:H6	1.66	0.60
1:A1:814:A:C4	1:A1:816:G:C2	2.90	0.60
1:A1:634:G:C2	1:A1:966:A:C6	2.90	0.60
1:A1:975:C:C2	1:A1:976:G:C8	2.89	0.60
1:A1:993:A:OP1	1:A1:1777:G:N2	2.24	0.60
29:B1:121:A:H4'	29:B1:150:A:C2	2.36	0.60
29:B1:1498:A:C2	29:B1:1519:G:C2	2.90	0.60
29:B1:2310:U:C2'	29:B1:2311:G:O5'	2.50	0.60
29:B1:2966:G:C6	29:B1:2967:A:N6	2.70	0.60
29:B1:3000:A:C2	29:B1:3001:C:C4	2.89	0.60
29:B1:3046:A:C5	29:B1:3047:U:C5	2.90	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:31:C:O2	29:B1:1546:A:H2	1.84	0.60
29:B1:431:U:H3'	29:B1:431:U:C6	2.36	0.60
29:B1:563:U:C6	29:B1:564:G:H5''	2.37	0.60
31:B3:106:C:N1	31:B3:138:A:N7	2.50	0.60
31:B3:12:A:C2'	31:B3:13:A:H5'	2.31	0.60
1:C1:1002:G:N1	1:C1:1003:A:N1	2.50	0.60
1:C1:1105:C:H2'	1:C1:1106:U:H6	1.67	0.60
1:C1:1110:G:HO2'	1:C1:1111:G:P	2.24	0.60
1:C1:25:C:C4	1:C1:367:A:C1'	2.82	0.60
1:C1:260:U:H3'	1:C1:261:U:C5'	2.32	0.60
1:C1:314:C:O2	1:C1:354:C:N3	2.35	0.60
1:C1:317:C:N4	1:C1:318:U:O4	2.34	0.60
1:C1:449:C:H5''	1:C1:450:U:OP2	2.01	0.60
1:C1:480:G:C4	1:C1:481:A:C8	2.90	0.60
29:D1:1168:U:OP1	38:DG:212:GLY:O	2.20	0.60
29:D1:1211:U:H2'	29:D1:1212:A:C8	2.32	0.60
29:D1:826:G:N2	29:D1:1589:A:H62	1.94	0.60
29:D1:1833:G:C2	29:D1:1834:U:O2	2.54	0.60
29:D1:1907:C:H6	29:D1:1907:C:H3'	1.67	0.60
29:D1:2147:A:H5'	29:D1:2147:A:C8	2.37	0.60
29:D1:3107:U:C2	29:D1:3108:G:C8	2.90	0.60
29:D1:310:U:H3'	29:D1:311:C:H5''	1.84	0.60
29:D1:3135:U:H3'	29:D1:3136:G:H8	1.66	0.60
29:D1:3311:C:H2'	29:D1:3312:U:C6	2.37	0.60
29:D1:3333:G:N3	29:D1:3371:G:C8	2.70	0.60
29:D1:707:U:H5''	29:D1:782:U:C2'	2.31	0.60
31:D3:18:U:N3	31:D3:19:C:C5	2.70	0.60
1:C1:225:A:C4	1:C1:226:A:C8	2.90	0.60
29:B1:2727:A:H2	29:B1:2729:U:H5	1.46	0.60
30:B2:102:A:C2'	30:B2:103:A:O5'	2.49	0.60
30:B2:14:U:OP2	30:B2:14:U:N1	2.34	0.60
1:A1:143:G:C4	1:A1:144:U:H1'	2.37	0.60
1:A1:183:U:C5	1:A1:184:C:C4	2.90	0.60
1:A1:206:A:H2'	1:A1:207:U:H6	1.66	0.60
1:C1:243:G:O2'	1:C1:244:A:H5'	2.01	0.60
1:C1:248:U:O2'	1:C1:249:U:C5'	2.50	0.60
1:C1:250:C:C2	1:C1:251:A:C5	2.89	0.60
1:A1:340:U:C2	1:A1:341:A:C8	2.90	0.60
1:C1:1481:C:H4'	1:C1:1482:C:OP1	2.01	0.60
1:C1:1517:U:O2	15:CN:17:GLN:N	2.35	0.60
1:A1:1345:A:H2'	1:A1:1346:A:C8	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1543:A:C2	1:A1:1544:U:H1'	2.37	0.60
29:B1:3212:C:C2	29:B1:3213:A:C2	2.90	0.60
29:D1:3189:G:O6	29:D1:3204:C:N4	2.31	0.60
29:D1:190:U:C5	29:D1:224:C:C1'	2.84	0.60
35:DD:165:ALA:O	35:DD:168:ALA:N	2.35	0.60
29:D1:3215:A:P	29:D1:3218:A:O4'	2.60	0.60
29:D1:3260:G:OP2	29:D1:3261:C:H5''	2.02	0.60
29:D1:3280:U:O2	29:D1:3281:U:C6	2.55	0.60
30:B2:55:A:C2	30:B2:56:A:C4	2.87	0.60
29:D1:71:A:N7	29:D1:72:C:C5	2.70	0.60
29:D1:1237:G:N2	29:D1:1252:A:C2	2.69	0.60
29:D1:1242:G:OP1	29:D1:1242:G:H3'	2.02	0.60
29:D1:1270:A:C8	29:D1:1271:A:C8	2.90	0.60
29:B1:847:A:C2	29:B1:848:A:C4	2.90	0.60
39:DH:185:ARG:C	39:DH:187:GLY:H	2.03	0.60
29:D1:2513:U:H5''	29:D1:2592:G:H22	1.67	0.60
29:B1:1623:G:H3'	29:B1:1624:G:H8	1.67	0.60
29:B1:1625:A:N7	29:B1:1626:U:C6	2.70	0.60
29:B1:2353:G:C4	29:B1:2354:C:H6	2.19	0.60
1:A1:1309:C:C2'	1:A1:1310:U:O5'	2.50	0.60
29:B1:1728:G:H21	29:B1:1730:G:N2	1.99	0.60
29:D1:2506:U:H2'	29:D1:2507:C:C6	2.36	0.60
29:D1:1914:G:H1'	29:D1:2115:G:C8	2.37	0.60
29:B1:1736:G:C6	29:B1:1737:U:C4	2.89	0.60
29:B1:3268:A:O3'	29:B1:3269:U:H4'	2.02	0.60
29:D1:1023:C:H3'	29:D1:1024:G:C5'	2.31	0.60
29:B1:1021:G:H2'	29:B1:1022:U:H6	1.66	0.60
29:B1:2204:C:O5'	29:B1:2204:C:H6	1.85	0.60
53:BX:19:TYR:C	53:BX:21:THR:H	2.04	0.60
29:B1:1536:G:C6	29:B1:1586:G:C2	2.90	0.60
5:CD:92:ARG:O	5:CD:94:THR:N	2.34	0.60
29:B1:602:A:N3	29:B1:602:A:H2'	2.17	0.60
1:A1:108:A:C3'	1:A1:109:G:H8	2.15	0.60
29:B1:1721:U:C2	29:B1:1723:A:OP2	2.54	0.60
3:AB:118:ALA:HB2	3:AB:124:ALA:H	1.67	0.60
1:C1:695:U:OP2	1:C1:696:C:H1'	2.02	0.60
73:DM:17:GLU:C	73:DM:19:LEU:N	2.56	0.60
1:C1:1786:G:C6	1:C1:1787:C:N4	2.70	0.60
34:DC:169:THR:O	34:DC:171:LEU:N	2.35	0.60
1:A1:935:U:H2'	1:A1:936:G:H8	1.66	0.60
32:DA:55:LEU:N	32:DA:167:VAL:HA	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:60:PRO:O	47:BR:61:PRO:CB	2.50	0.60
15:AN:45:ALA:C	15:AN:47:GLN:N	2.53	0.60
34:DC:121:ASN:O	34:DC:122:TRP:CB	2.49	0.60
41:BJ:38:LYS:O	41:BJ:39:LYS:O	2.20	0.60
46:BQ:44:ALA:O	46:BQ:46:LYS:N	2.35	0.60
1:A1:123:G:C6	1:A1:295:A:N6	2.69	0.59
29:B1:1478:C:H6	29:B1:1478:C:H5''	1.67	0.59
29:B1:1499:C:O2'	29:B1:1500:G:H5'	2.02	0.59
29:B1:1785:U:HO2'	29:B1:1786:G:H8	1.44	0.59
29:B1:1888:U:OP1	34:BC:228:GLY:HA3	2.01	0.59
29:B1:1909:A:N6	29:B1:1910:A:N1	2.49	0.59
29:B1:2157:G:N2	29:B1:2178:A:OP2	2.33	0.59
29:B1:258:G:H1'	29:B1:259:C:H5'	1.84	0.59
29:B1:2896:A:H5'	29:B1:2896:A:C8	2.37	0.59
29:B1:3289:G:N7	74:B1:3581:OHX:N4	2.49	0.59
29:B1:3305:A:H1'	29:B1:3311:C:O2	2.02	0.59
29:B1:3323:A:H2'	29:B1:3324:C:O5'	2.00	0.59
29:B1:3373:U:N3	29:B1:3374:U:C5	2.70	0.59
29:B1:3377:G:C5	74:B1:3450:OHX:N1	2.70	0.59
29:B1:588:G:C4'	29:B1:589:A:H62	2.15	0.59
29:B1:595:G:C6	29:B1:609:G:O4'	2.54	0.59
29:B1:722:G:N2	29:B1:748:U:H2'	2.16	0.59
29:B1:760:G:N3	29:B1:761:A:C8	2.70	0.59
29:B1:767:U:O3'	29:B1:768:C:H4'	2.02	0.59
29:B1:819:U:H4'	29:B1:2138:A:N1	2.17	0.59
29:B1:952:A:H3'	29:B1:952:A:C8	2.36	0.59
37:BF:9:TRP:O	37:BF:10:TYR:CB	2.49	0.59
44:BO:83:LYS:N	44:BO:85:THR:N	2.48	0.59
1:C1:1032:G:N3	1:C1:1033:C:C6	2.70	0.59
1:C1:269:G:C6	1:C1:270:C:N4	2.70	0.59
1:C1:288:A:C4	1:C1:289:U:C5	2.90	0.59
1:C1:93:A:H8	1:C1:398:G:H2'	1.65	0.59
1:C1:612:U:H5'	1:C1:613:G:H3'	1.84	0.59
1:C1:85:A:O2'	1:C1:86:A:P	2.60	0.59
29:D1:106:A:O2'	29:D1:107:A:H5'	2.02	0.59
29:D1:1310:G:H2'	29:D1:1311:G:O5'	2.01	0.59
29:D1:1454:A:H5''	29:D1:1878:G:N1	2.16	0.59
29:D1:2277:C:H5''	29:D1:2317:A:C4'	2.19	0.59
29:D1:2702:A:O4'	29:D1:2704:A:C8	2.55	0.59
29:D1:2728:G:C2'	29:D1:2728:G:N3	2.60	0.59
29:D1:3374:U:C2	29:D1:3375:A:C2	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:505:G:H2'	29:D1:506:U:O5'	2.02	0.59
29:D1:575:G:O2'	29:D1:576:C:O5'	2.18	0.59
29:D1:702:C:H2'	29:D1:703:G:O4'	2.02	0.59
29:D1:759:U:C2'	29:D1:760:G:H5''	2.31	0.59
29:D1:767:U:O3'	29:D1:768:C:H4'	2.02	0.59
29:D1:810:A:N3	29:D1:810:A:H2'	2.16	0.59
29:D1:931:C:C2	29:D1:932:U:C5	2.90	0.59
31:D3:138:A:H2	31:D3:139:U:N1	1.99	0.59
31:D3:54:A:C6	31:D3:55:U:C2	2.90	0.59
33:DB:182:ALA:C	33:DB:185:ALA:H	2.04	0.59
35:DD:53:SER:O	35:DD:55:LYS:N	2.35	0.59
37:DF:162:SER:O	37:DF:165:LEU:N	2.35	0.59
1:C1:747:C:H2'	1:C1:748:U:C6	2.37	0.59
29:B1:2650:U:OP2	29:B1:2650:U:C6	2.54	0.59
30:B2:69:C:C4	30:B2:70:U:O4	2.54	0.59
1:A1:129:U:C5	1:A1:264:G:O6	2.54	0.59
1:A1:129:U:H5	1:A1:264:G:C5	2.17	0.59
1:A1:59:C:N4	1:A1:89:G:C4	2.70	0.59
30:D2:9:C:C2'	30:D2:13:A:N6	2.60	0.59
1:C1:323:A:O2'	1:C1:324:U:H5'	2.01	0.59
1:C1:337:G:H5''	1:C1:338:C:C5	2.37	0.59
1:C1:1161:C:H1'	1:C1:1620:C:H42	1.67	0.59
1:C1:1458:G:N3	1:C1:1458:G:C2'	2.61	0.59
1:A1:1185:U:C5	1:A1:1458:G:C8	2.90	0.59
1:A1:1481:C:H5	1:A1:1482:C:C2	2.21	0.59
6:CE:82:ARG:O	6:CE:148:VAL:O	2.20	0.59
29:B1:3237:U:H2'	29:B1:3238:G:H8	1.64	0.59
29:B1:1235:U:C5	29:B1:1263:A:N6	2.70	0.59
29:D1:3231:U:O2	29:D1:3256:G:N2	2.35	0.59
31:B3:131:A:C2	31:B3:132:G:C8	2.90	0.59
29:D1:1256:G:C5	29:D1:1257:C:C6	2.90	0.59
29:D1:1257:C:C2'	29:D1:1257:C:O2	2.48	0.59
29:B1:2592:G:C6	74:B1:3449:OHX:N6	2.70	0.59
29:D1:3006:A:H2	29:D1:3141:A:C2	2.20	0.59
29:D1:1949:G:H2'	29:D1:1950:U:H6	1.66	0.59
29:D1:2101:C:O2'	29:D1:2102:U:H5'	2.01	0.59
29:D1:124:U:H2'	29:D1:125:C:C1'	2.31	0.59
1:A1:1331:A:H2'	1:A1:1332:C:O5'	2.01	0.59
30:B2:121:U:OP2	36:BE:260:PHE:HA	2.02	0.59
29:D1:1013:G:N2	29:D1:1038:C:C2	2.70	0.59
1:C1:1284:C:O2	1:C1:1286:U:C4	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:357:G:C5	1:A1:358:U:C4	2.90	0.59
1:A1:1433:G:N2	1:A1:1434:U:C5	2.67	0.59
29:D1:858:A:C8	29:D1:858:A:H5''	2.36	0.59
29:B1:1383:G:N7	74:B1:3433:OHX:N3	2.49	0.59
29:B1:1359:C:O2	29:B1:1359:C:H2'	2.00	0.59
17:CP:127:VAL:CA	17:CP:129:GLY:N	2.65	0.59
29:B1:2485:A:C5'	32:BA:106:LYS:HA	2.32	0.59
45:BP:56:ASP:O	45:BP:59:ARG:CB	2.50	0.59
29:D1:2338:C:H4'	50:DU:47:ASN:O	2.02	0.59
5:AD:59:VAL:C	5:AD:61:TYR:N	2.56	0.59
34:DC:196:ARG:O	34:DC:197:GLU:O	2.20	0.59
29:D1:67:A:C8	29:D1:317:A:H1'	2.37	0.59
29:B1:2792:A:C2'	29:B1:2793:G:H5'	2.31	0.59
29:D1:792:G:H2'	29:D1:793:C:C6	2.37	0.59
1:C1:730:G:C2'	1:C1:731:C:H5'	2.32	0.59
1:C1:735:C:H2'	1:C1:736:C:C6	2.37	0.59
29:D1:665:A:O2'	29:D1:666:A:H5'	2.01	0.59
36:DE:222:LEU:O	36:DE:224:LYS:N	2.35	0.59
9:CH:78:ALA:HA	9:CH:110:LEU:HA	1.84	0.59
40:BI:137:SER:O	40:BI:138:THR:CB	2.50	0.59
49:DT:35:LYS:O	49:DT:37:GLY:N	2.35	0.59
47:BR:92:ARG:O	47:BR:94:PHE:N	2.35	0.59
42:BK:73:GLY:O	42:BK:76:ALA:HB2	2.02	0.59
29:B1:1409:G:C2'	29:B1:1410:U:H5'	2.32	0.59
34:DC:271:GLY:O	34:DC:273:HIS:N	2.35	0.59
1:A1:1631:A:C5	1:A1:1632:C:C2	2.89	0.59
1:A1:1763:A:C2'	1:A1:1764:C:H5''	2.31	0.59
1:A1:525:A:OP1	1:A1:526:A:N7	2.35	0.59
29:B1:1478:C:C6	29:B1:1478:C:C5'	2.85	0.59
29:B1:1560:G:H2'	29:B1:1561:G:O4'	2.02	0.59
29:B1:208:C:N4	29:B1:209:A:H62	1.99	0.59
29:B1:2152:A:H1'	29:B1:2243:A:N3	2.16	0.59
29:B1:2383:C:C2'	29:B1:2384:A:O5'	2.50	0.59
29:B1:258:G:C8	29:B1:258:G:OP2	2.55	0.59
29:B1:2937:G:H2'	29:B1:2938:G:H5'	1.84	0.59
29:B1:2949:U:C2	29:B1:2950:G:N7	2.71	0.59
29:B1:2997:G:C1'	29:B1:2998:U:P	2.84	0.59
29:B1:3057:U:O3'	29:B1:3058:U:H4'	2.03	0.59
29:B1:306:A:H2	29:B1:307:A:N9	2.00	0.59
29:B1:3099:C:C6	29:B1:3099:C:C5'	2.85	0.59
29:B1:416:A:N3	29:B1:417:A:C8	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:518:G:P	29:B1:520:U:H5	2.25	0.59
29:B1:528:U:O4	29:B1:564:G:O6	2.21	0.59
29:B1:559:A:H2'	29:B1:560:G:C8	2.37	0.59
29:B1:570:A:C5	29:B1:571:U:C5	2.90	0.59
29:B1:719:U:HO2'	29:B1:720:A:H8	1.45	0.59
29:B1:720:A:H4'	29:B1:721:G:OP2	2.00	0.59
29:B1:746:A:H8	29:B1:746:A:O5'	1.84	0.59
31:B3:107:G:C2	31:B3:116:G:C5	2.90	0.59
1:C1:1086:A:H2	1:C1:1141:G:N3	1.99	0.59
1:C1:623:A:H2	1:C1:1105:C:O2'	1.84	0.59
1:C1:25:C:C6	1:C1:25:C:C3'	2.85	0.59
1:C1:385:A:O2'	1:C1:386:G:H5'	2.02	0.59
3:CB:206:THR:O	3:CB:209:ASN:N	2.35	0.59
29:D1:1106:G:C6	29:D1:1107:C:C5	2.90	0.59
29:D1:1140:G:N3	29:D1:1141:C:C6	2.70	0.59
29:D1:1338:C:C2	29:D1:1339:C:C5	2.90	0.59
29:D1:1464:G:H22	29:D1:1466:G:H3'	1.65	0.59
29:D1:1505:C:H5''	29:D1:1505:C:C6	2.37	0.59
29:D1:13:A:H2	29:D1:15:C:C3'	2.15	0.59
29:D1:1452:A:C1'	29:D1:2347:U:H5''	2.29	0.59
29:D1:2609:A:N3	29:D1:2610:G:C8	2.69	0.59
29:D1:2611:U:C2'	29:D1:2612:U:H6	2.06	0.59
29:D1:281:G:O6	29:D1:282:G:O6	2.20	0.59
29:D1:2918:G:N2	29:D1:2919:A:C8	2.70	0.59
29:D1:3110:C:H2'	29:D1:3111:U:H6	1.66	0.59
29:D1:3117:C:C5	29:D1:3118:C:C5	2.90	0.59
29:D1:3323:A:H2'	29:D1:3324:C:O5'	2.01	0.59
29:D1:3379:C:O2'	29:D1:3380:U:H5'	2.02	0.59
29:D1:3026:G:O6	74:D1:3413:OHX:N6	2.34	0.59
29:D1:34:A:H5'	29:D1:35:A:OP2	2.02	0.59
29:D1:523:A:C2	29:D1:524:U:C6	2.91	0.59
29:D1:588:G:C4'	29:D1:589:A:N7	2.58	0.59
29:D1:28:C:O2'	29:D1:61:A:N3	2.36	0.59
40:DI:72:LYS:O	40:DI:73:SER:C	2.38	0.59
1:A1:832:U:H3'	1:A1:833:U:H5''	1.83	0.59
30:B2:10:C:O2'	30:B2:13:A:H8	1.85	0.59
30:B2:11:A:C4'	30:B2:13:A:H2'	2.32	0.59
30:D2:113:C:O2'	30:D2:114:U:O4'	2.13	0.59
1:C1:1720:G:C8	1:C1:1721:A:N7	2.69	0.59
29:B1:2674:A:C1'	42:BK:108:GLU:H	2.14	0.59
1:A1:341:A:N3	1:A1:341:A:H2'	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1265:G:H8	1:C1:1265:G:O5'	1.85	0.59
1:C1:1525:A:C2	1:C1:1526:A:C4	2.90	0.59
1:C1:1532:U:H2'	1:C1:1533:C:C6	2.37	0.59
1:C1:1597:A:C5	1:C1:1598:U:N3	2.70	0.59
1:A1:1384:A:H2'	1:A1:1385:G:H8	1.66	0.59
1:A1:1537:C:H5'	1:A1:1538:U:OP1	2.02	0.59
1:A1:1576:A:H2'	1:A1:1577:A:O4'	2.01	0.59
1:A1:1584:G:H3'	1:A1:1584:G:C4	2.37	0.59
1:A1:1607:G:C6	1:A1:1608:U:C4	2.90	0.59
1:C1:1056:U:H1'	1:C1:1064:G:N2	2.17	0.59
4:CC:76:ARG:O	4:CC:78:LYS:N	2.35	0.59
46:BQ:5:GLY:N	46:BQ:6:ALA:HA	2.12	0.59
29:D1:3203:U:H2'	29:D1:3204:C:N1	2.17	0.59
29:D1:3202:G:C2	29:D1:3203:U:N3	2.70	0.59
30:D2:27:A:C2	30:D2:54:U:H5	2.20	0.59
29:D1:1388:U:O4	29:D1:1389:G:O6	2.20	0.59
29:D1:196:G:C6	29:D1:199:A:OP2	2.55	0.59
29:B1:1246:G:C6	29:B1:1247:U:H1'	2.36	0.59
1:C1:1391:A:N1	1:C1:1409:G:N2	2.49	0.59
1:C1:1419:G:H2'	1:C1:1420:C:O5'	2.02	0.59
36:BE:141:PRO:CB	36:BE:142:PHE:CA	2.73	0.59
29:B1:1630:U:H3'	29:B1:1813:A:N1	2.17	0.59
29:B1:1469:C:C2	29:B1:1509:A:C2	2.90	0.59
29:B1:1728:G:N2	29:B1:1730:G:N2	2.50	0.59
29:B1:1040:A:C6	29:B1:1041:U:C5	2.91	0.59
1:A1:359:A:OP1	1:A1:359:A:H3'	2.01	0.59
29:D1:2914:G:H2'	29:D1:2915:U:H6	1.66	0.59
36:BE:50:ARG:HA	36:BE:145:PHE:H	1.67	0.59
29:B1:3271:G:H3'	29:B1:3271:G:C4	2.37	0.59
17:CP:132:LEU:CB	17:CP:134:ALA:O	2.50	0.59
34:BC:103:THR:O	34:BC:104:THR:C	2.41	0.59
1:C1:240:U:O2'	1:C1:241:U:H5'	2.02	0.59
54:DY:127:ALA:C	54:DY:129:PHE:H	2.05	0.59
10:CI:33:PHE:C	10:CI:35:LYS:N	2.55	0.59
8:AG:109:LYS:C	8:AG:111:ALA:H	2.05	0.59
10:AI:21:ASP:O	10:AI:23:GLU:N	2.34	0.59
29:B1:290:G:H2'	29:B1:291:C:C6	2.36	0.59
38:BG:237:ASN:O	38:BG:241:LYS:N	2.32	0.59
45:BP:137:THR:O	45:BP:140:LYS:N	2.32	0.59
29:B1:1007:U:O2	29:B1:1007:U:H2'	2.01	0.59
4:AC:95:GLY:O	4:AC:96:LEU:CB	2.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DT:84:TYR:O	49:DT:85:LEU:C	2.38	0.59
44:DO:148:TYR:O	44:DO:150:TRP:N	2.35	0.59
2:AA:54:TRP:O	2:AA:57:LEU:N	2.35	0.59
45:DP:81:TYR:O	45:DP:83:ALA:N	2.35	0.59
4:AC:104:SER:O	4:AC:107:PHE:N	2.31	0.59
36:DE:156:GLY:HA2	36:DE:181:PRO:HA	1.84	0.59
15:CN:45:ALA:HB1	15:CN:49:ASN:CB	2.32	0.59
1:A1:104:A:H2'	1:A1:106:U:OP1	2.02	0.59
1:A1:1076:A:N7	1:A1:1077:C:C6	2.70	0.59
1:A1:1147:A:H2'	1:A1:1148:C:O4'	2.03	0.59
1:A1:515:A:H5'	74:A1:1936:OHX:N5	2.16	0.59
1:A1:391:A:C6	1:A1:392:G:C5	2.91	0.59
29:B1:1155:C:O2	29:B1:1155:C:H2'	2.02	0.59
29:B1:1176:C:H3'	29:B1:1177:G:H5''	1.83	0.59
29:B1:1220:U:OP1	29:B1:1223:A:O2'	2.16	0.59
29:B1:1287:A:O2'	29:B1:1288:U:H5'	2.02	0.59
29:B1:189:G:N3	29:B1:191:U:C4	2.69	0.59
29:B1:2152:A:O4'	29:B1:2243:A:C2	2.54	0.59
29:B1:2165:G:N2	29:B1:2170:U:N3	2.50	0.59
29:B1:221:A:C5	29:B1:224:C:C4	2.90	0.59
29:B1:421:G:N2	29:B1:2365:C:N1	2.49	0.59
29:B1:2853:A:N6	29:B1:2854:U:H3	2.00	0.59
29:B1:3000:A:C2'	29:B1:3001:C:H6	2.15	0.59
29:B1:3078:U:H4'	29:B1:3079:U:H5'	1.84	0.59
29:B1:536:U:C1'	29:B1:537:A:OP2	2.51	0.59
29:B1:560:G:N2	29:B1:561:C:C2	2.70	0.59
29:B1:747:A:C8	29:B1:747:A:OP1	2.55	0.59
29:B1:784:A:N3	29:B1:785:G:N7	2.50	0.59
29:B1:971:G:O2'	29:B1:972:A:H5'	2.01	0.59
31:B3:10:A:C4	31:B3:11:C:C5	2.90	0.59
29:B1:3314:A:H3'	34:BC:118:PHE:O	2.02	0.59
1:C1:1024:U:OP1	1:C1:1127:G:O2'	2.20	0.59
1:C1:1075:C:C4	1:C1:1076:A:N1	2.70	0.59
1:C1:605:A:C5	1:C1:606:A:C6	2.91	0.59
1:C1:607:G:C4'	1:C1:608:U:OP2	2.50	0.59
1:C1:84:A:H2'	1:C1:85:A:C5'	2.15	0.59
29:D1:1057:A:N6	29:D1:1058:U:C4	2.70	0.59
29:D1:1115:G:C8	29:D1:1115:G:C3'	2.83	0.59
29:D1:1155:C:O2	29:D1:1155:C:C2'	2.46	0.59
29:D1:1200:A:N3	29:D1:1200:A:H3'	2.16	0.59
29:D1:1298:C:C4	29:D1:1299:U:C5	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1461:A:H2'	29:D1:1462:A:O4'	2.02	0.59
29:D1:1495:U:H3'	29:D1:1496:C:C5'	2.32	0.59
29:D1:158:G:C8	29:D1:159:A:H4'	2.37	0.59
29:D1:1655:G:H5'	29:D1:1656:A:O5'	2.02	0.59
29:D1:1785:U:O2'	29:D1:1786:G:C8	2.55	0.59
29:D1:302:U:O2'	29:D1:303:G:H5'	2.02	0.59
29:D1:3328:G:N2	29:D1:3329:U:C4	2.69	0.59
29:D1:641:C:OP1	74:D1:3502:OHX:N6	2.35	0.59
29:D1:783:A:N6	74:D1:3537:OHX:N6	2.50	0.59
29:D1:677:A:N6	29:D1:786:A:O2'	2.34	0.59
29:D1:688:G:H8	29:D1:688:G:O5'	1.84	0.59
31:D3:37:A:H2	31:D3:106:C:H42	1.46	0.59
31:D3:141:C:C2	31:D3:142:C:H5	2.20	0.59
35:DD:85:SER:C	35:DD:87:GLN:H	2.04	0.59
37:DF:97:ASN:O	37:DF:98:VAL:C	2.40	0.59
1:C1:647:G:C2	1:C1:687:G:N2	2.70	0.59
29:B1:2761:G:H4'	29:B1:2762:A:OP1	2.01	0.59
30:B2:67:G:C6	30:B2:68:C:N3	2.70	0.59
31:B3:48:A:C5	31:B3:51:G:N7	2.70	0.59
1:A1:450:U:H2'	1:A1:451:A:H8	1.64	0.59
1:A1:454:U:O2'	1:A1:455:C:O4'	2.20	0.59
29:B1:2681:U:O2'	29:B1:2682:C:P	2.61	0.59
1:A1:1675:C:O2'	1:A1:1678:A:C8	2.55	0.59
1:A1:1687:U:C4	1:A1:1688:U:H1'	2.37	0.59
1:C1:1374:C:C4	1:C1:1375:A:C6	2.90	0.59
1:C1:1584:G:C4	11:CJ:124:PRO:HA	2.37	0.59
1:C1:1607:G:OP2	11:CJ:125:GLU:HA	2.02	0.59
1:A1:1348:A:H3'	1:A1:1349:G:C5'	2.31	0.59
1:A1:1478:G:C8	1:A1:1478:G:H5'	2.31	0.59
1:A1:1558:U:H5''	13:AL:122:HIS:CB	2.32	0.59
1:A1:1567:U:H5'	1:A1:1567:U:H6	1.67	0.59
1:C1:1053:G:H2'	1:C1:1054:U:C6	2.36	0.59
29:B1:383:G:C3'	29:B1:385:A:OP2	2.48	0.59
29:B1:3196:U:C5	29:B1:3198:U:C6	2.91	0.59
29:B1:1247:U:H3	29:B1:1274:A:N6	1.99	0.59
29:B1:1265:U:C2	29:B1:1266:G:C8	2.91	0.59
29:B1:1697:A:C8	29:B1:1698:C:C5	2.90	0.59
29:D1:2522:G:C1'	29:D1:2523:A:P	2.88	0.59
29:D1:1274:A:C6	29:D1:1275:C:C5	2.91	0.59
4:AC:21:LEU:O	4:AC:23:GLU:N	2.36	0.59
29:B1:3221:C:C2	29:B1:3222:U:C5	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1753:A:C6	1:A1:1754:A:N6	2.66	0.59
29:D1:2431:C:H2'	29:D1:2432:A:C8	2.36	0.59
29:D1:2431:C:C2	29:D1:2432:A:C8	2.90	0.59
29:D1:1077:U:N3	29:D1:1083:G:N2	2.50	0.59
36:DE:111:GLN:O	36:DE:115:LEU:CB	2.50	0.59
29:B1:3273:A:N6	29:B1:3274:A:N7	2.50	0.59
29:B1:1953:G:C8	29:B1:2093:A:C6	2.91	0.59
29:B1:2540:A:O2'	29:B1:2541:U:H5'	2.02	0.59
29:B1:1919:G:N2	29:B1:1920:U:O2	2.35	0.59
29:B1:1930:A:C8	29:B1:1932:A:O4'	2.55	0.59
5:AD:162:VAL:O	5:AD:164:PRO:N	2.35	0.59
1:C1:1663:G:H2'	1:C1:1664:C:C6	2.31	0.59
5:AD:196:GLU:HA	5:AD:199:ILE:CB	2.33	0.59
11:AJ:91:ALA:HB3	11:AJ:96:TYR:CB	2.32	0.59
1:A1:235:G:H2'	1:A1:236:A:C8	2.37	0.59
7:AF:75:VAL:HA	7:AF:86:ILE:CA	2.33	0.59
29:D1:1358:C:H2'	29:D1:1359:C:C6	2.37	0.59
7:CF:110:HIS:CB	7:CF:138:ASN:HA	2.32	0.59
40:DI:86:TYR:CB	40:DI:148:GLY:O	2.49	0.59
11:AJ:35:PRO:C	11:AJ:37:THR:H	2.06	0.59
36:BE:130:GLU:HA	36:BE:131:LEU:CB	2.30	0.59
12:AK:53:TYR:O	12:AK:56:HIS:CB	2.50	0.59
38:BG:233:GLU:N	38:BG:234:GLU:O	2.35	0.59
3:CB:106:ASP:O	3:CB:108:ASN:N	2.29	0.59
21:CT:18:GLY:O	21:CT:308:ASN:HA	2.02	0.59
1:A1:379:U:C2	1:A1:380:U:H5	2.19	0.59
1:A1:814:A:C2'	1:A1:816:G:H21	2.16	0.59
1:A1:971:A:C8	1:A1:972:G:C8	2.91	0.59
1:A1:1145:U:O2'	3:AB:89:GLN:O	2.17	0.59
29:B1:1205:A:H5''	29:B1:1206:G:OP2	2.02	0.59
29:B1:1366:A:H2'	29:B1:1367:G:C8	2.37	0.59
29:B1:1389:G:HO2'	29:B1:1390:A:P	2.24	0.59
29:B1:628:A:H5''	29:B1:1399:A:N7	2.17	0.59
29:B1:1389:G:C6	29:B1:1419:A:N6	2.69	0.59
29:B1:826:G:N2	29:B1:1589:A:H62	1.93	0.59
29:B1:1844:C:N3	29:B1:1845:G:N7	2.50	0.59
29:B1:2137:U:H3	29:B1:2141:U:H5	1.51	0.59
29:B1:2609:A:C2	29:B1:2610:G:C5	2.89	0.59
29:B1:2831:G:C6	29:B1:2832:C:C4	2.90	0.59
29:B1:1203:A:H2	29:B1:2855:U:O2	1.85	0.59
29:B1:285:A:C2	29:B1:305:U:P	2.96	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3112:G:N2	29:B1:3121:U:C2	2.70	0.59
29:B1:40:A:C3'	29:B1:41:G:H5'	2.32	0.59
29:B1:504:A:O2'	29:B1:505:G:H5'	2.02	0.59
29:B1:592:A:H2'	29:B1:593:C:H4'	1.12	0.59
29:B1:693:A:C2'	29:B1:694:C:H6	2.16	0.59
29:B1:743:C:H3'	29:B1:743:C:C6	2.37	0.59
29:B1:774:G:H2'	29:B1:775:A:O4'	2.03	0.59
29:B1:809:G:N3	29:B1:810:A:C8	2.70	0.59
31:B3:102:U:C4	31:B3:103:G:C6	2.90	0.59
1:C1:170:U:H5'	1:C1:267:U:O2'	2.03	0.59
1:C1:814:A:N1	1:C1:858:G:C2	2.70	0.59
1:C1:961:U:H4'	8:CG:36:GLN:O	2.02	0.59
29:D1:1055:A:N7	29:D1:1056:U:C4	2.70	0.59
29:D1:1182:A:N3	29:D1:1182:A:H2'	2.17	0.59
29:D1:652:G:OP1	29:D1:1436:U:O2'	2.19	0.59
29:D1:1886:A:O4'	29:D1:3307:A:H5'	2.03	0.59
29:D1:2133:U:H2'	29:D1:2134:G:C5'	2.32	0.59
29:D1:2279:A:C8	29:D1:2288:G:C5	2.89	0.59
29:D1:2640:A:N9	29:D1:2641:U:C5	2.69	0.59
29:D1:2714:G:N2	29:D1:2751:G:C4	2.71	0.59
29:D1:271:C:C6	29:D1:295:A:N6	2.71	0.59
29:D1:2309:A:C2	29:D1:2961:G:H2'	2.34	0.59
29:D1:51:A:H2'	29:D1:52:A:H8	1.68	0.59
29:D1:520:U:N3	37:DF:138:GLN:CB	2.65	0.59
29:D1:62:A:C4	29:D1:63:A:C8	2.90	0.59
29:D1:682:U:C4	29:D1:699:A:H2	2.20	0.59
29:D1:726:G:C5	29:D1:727:G:N1	2.70	0.59
29:D1:769:G:C4'	29:D1:770:G:OP1	2.50	0.59
29:D1:774:G:H2'	29:D1:775:A:O4'	2.02	0.59
29:D1:779:G:C5	29:D1:780:A:N7	2.70	0.59
29:D1:866:A:H3'	29:D1:867:G:H8	1.66	0.59
29:D1:934:G:C5	29:D1:935:U:C4	2.90	0.59
29:D1:957:C:H2'	29:D1:958:C:H6	1.68	0.59
31:D3:43:A:H2'	31:D3:44:A:H8	1.65	0.59
49:DT:28:SER:C	49:DT:30:TYR:N	2.53	0.59
1:C1:1273:G:H4'	1:C1:1274:C:C4'	2.32	0.59
1:A1:1172:G:H2'	1:A1:1173:C:C6	2.38	0.59
1:A1:1616:G:N2	1:A1:1618:C:H41	1.93	0.59
29:B1:380:U:C4	29:B1:381:U:O4	2.56	0.59
29:B1:3280:U:C6	29:B1:3280:U:OP2	2.55	0.59
74:D3:202:OHX:N3	74:D3:212:OHX:N3	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3021:A:O4'	29:B1:3023:U:C2	2.55	0.59
29:D1:210:U:C4	35:DD:161:LYS:HA	2.37	0.59
29:B1:69:C:N3	29:B1:70:A:H1'	2.17	0.59
1:C1:1323:C:H2'	1:C1:1324:G:C1'	2.32	0.59
38:BG:30:ARG:O	38:BG:31:ALA:C	2.39	0.59
47:DR:117:ALA:CB	47:DR:118:GLY:HA2	2.16	0.59
29:D1:1040:A:H8	29:D1:1040:A:O5'	1.86	0.59
37:BF:86:ALA:CB	37:BF:87:THR:HA	2.24	0.59
29:D1:2833:A:C6	29:D1:2834:G:N7	2.71	0.59
29:D1:2833:A:H2'	29:D1:2833:A:N3	2.18	0.59
43:BN:49:PRO:N	43:BN:50:LYS:CA	2.65	0.59
29:D1:1021:G:H2'	29:D1:1022:U:H6	1.66	0.59
1:C1:239:C:H1'	1:C1:240:U:C6	2.36	0.59
34:DC:160:VAL:O	34:DC:161:LEU:C	2.40	0.59
29:B1:2546:C:N4	29:B1:2547:A:H62	2.00	0.59
13:AL:71:GLN:HA	13:AL:75:ASN:CB	2.33	0.59
17:CP:48:HIS:O	17:CP:49:ALA:CB	2.50	0.59
36:DE:255:PRO:O	36:DE:257:GLU:N	2.35	0.59
45:DP:190:VAL:C	45:DP:192:LYS:N	2.53	0.59
29:B1:171:G:C2	29:B1:172:G:C8	2.91	0.59
29:D1:1721:U:C2	29:D1:1723:A:OP2	2.56	0.59
29:D1:2571:U:H2'	29:D1:2572:C:H5'	1.83	0.59
29:B1:97:U:C6	29:B1:97:U:H5''	2.38	0.59
48:BS:130:ASN:C	48:BS:132:PHE:H	2.04	0.59
1:C1:564:G:O2'	1:C1:577:G:H4'	2.02	0.59
45:DP:92:THR:O	45:DP:94:ARG:N	2.35	0.59
1:A1:576:G:O6	17:AP:65:ASN:HA	2.02	0.59
49:BT:34:TYR:O	49:BT:35:LYS:CB	2.50	0.59
16:AO:13:ALA:O	16:AO:17:ALA:HB2	2.01	0.59
30:B2:51:A:H2'	30:B2:51:A:N3	2.18	0.59
51:DV:34:SER:O	51:DV:36:SER:N	2.35	0.59
48:DS:70:LYS:C	48:DS:72:GLU:H	2.06	0.59
11:AJ:28:LEU:HA	14:AM:1:MET:HA	1.85	0.59
29:D1:1026:A:H4'	29:D1:1027:A:OP2	2.00	0.59
1:A1:1631:A:N9	1:A1:1638:G:N2	2.48	0.59
1:A1:295:A:C2	1:A1:296:U:O2	2.56	0.59
1:A1:542:A:O2'	1:A1:543:C:P	2.61	0.59
1:A1:605:A:C5	1:A1:606:A:N1	2.70	0.59
29:B1:1131:G:C5	29:B1:2373:A:C2	2.91	0.59
29:B1:1285:G:H2'	29:B1:1286:A:O5'	2.02	0.59
29:B1:944:C:C6	29:B1:1431:G:C6	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2135:U:H2'	29:B1:2136:C:H6	1.68	0.59
29:B1:2919:A:C3'	29:B1:2920:U:C5'	2.81	0.59
29:B1:3069:G:N3	29:B1:3070:A:C8	2.70	0.59
29:B1:317:A:C2	29:B1:318:A:C4	2.90	0.59
29:B1:3393:U:N3	29:B1:3394:U:C5	2.71	0.59
29:B1:40:A:N7	29:B1:937:G:C5	2.70	0.59
29:B1:423:A:N1	29:B1:424:G:C2	2.70	0.59
29:B1:533:A:N6	29:B1:555:U:O2'	2.35	0.59
1:C1:1000:C:H2'	1:C1:1002:G:N7	2.18	0.59
1:C1:1145:U:H3'	1:C1:1146:G:H5''	1.85	0.59
1:C1:123:G:C5	1:C1:124:A:C8	2.90	0.59
1:C1:169:A:C4	1:C1:171:A:C5	2.90	0.59
1:C1:169:A:O2'	1:C1:171:A:H8	1.82	0.59
1:C1:1771:U:C2	1:C1:1772:C:C5	2.90	0.59
1:C1:262:U:C4	1:C1:263:C:N4	2.71	0.59
1:C1:588:U:H2'	1:C1:589:C:C6	2.38	0.59
29:D1:1054:A:OP1	74:D1:3591:OHX:N1	2.35	0.59
29:D1:22:G:C5	29:D1:23:A:C8	2.90	0.59
29:D1:2326:A:C6	29:D1:2327:U:C4	2.90	0.59
29:D1:2650:U:C2'	29:D1:2650:U:O2	2.48	0.59
29:D1:2774:C:O2'	29:D1:2775:U:H5'	2.02	0.59
29:D1:2821:C:H3'	29:D1:2821:C:H6	1.67	0.59
29:D1:285:A:C2	29:D1:305:U:P	2.96	0.59
29:D1:3091:A:C2	29:D1:3094:A:O4'	2.55	0.59
29:D1:3102:G:C2'	29:D1:3103:A:O5'	2.50	0.59
29:D1:3341:U:C4	29:D1:3362:A:C2	2.90	0.59
29:D1:536:U:O5'	29:D1:536:U:C6	2.56	0.59
29:D1:562:C:C2'	29:D1:563:U:C5	2.73	0.59
29:D1:564:G:C3'	29:D1:565:U:H6	2.14	0.59
29:D1:742:G:C3'	29:D1:743:C:H5''	2.31	0.59
29:D1:749:C:H2'	29:D1:750:G:C8	2.36	0.59
1:C1:225:A:O2'	1:C1:226:A:H8	1.84	0.59
30:B2:11:A:C2	30:B2:67:G:O2'	2.51	0.59
30:B2:68:C:C2'	30:B2:69:C:O4'	2.49	0.59
30:D2:15:C:N4	30:D2:16:U:C4	2.70	0.59
30:D2:72:A:H2'	30:D2:73:C:H6	1.66	0.59
1:C1:1721:A:H3'	1:C1:1722:A:C5'	2.33	0.59
29:D1:2677:G:H3'	29:D1:2677:G:N3	2.18	0.59
1:A1:330:G:C8	1:A1:330:G:OP2	2.55	0.59
1:C1:1275:A:OP1	1:C1:1275:A:H8	1.83	0.59
1:C1:1505:A:N7	1:C1:1506:G:H1'	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1607:G:C6	1:C1:1608:U:C4	2.90	0.59
1:C1:1618:C:H5'	1:C1:1619:C:OP2	2.02	0.59
1:C1:1369:U:O4	74:C1:1912:OHX:N3	2.35	0.59
11:CJ:28:LEU:H	14:CM:1:MET:CB	2.15	0.59
1:A1:1586:A:C4	1:A1:1611:A:C2	2.90	0.59
29:D1:3210:A:H3'	29:D1:3211:C:C5	2.34	0.59
29:B1:3194:C:N4	29:B1:3196:U:OP1	2.35	0.59
29:D1:3184:A:C2	29:D1:3188:G:O2'	2.53	0.59
29:D1:3189:G:C4	29:D1:3190:C:C6	2.91	0.59
29:B1:3246:G:H2'	29:B1:3247:G:H8	1.67	0.59
29:D1:1415:U:C2	29:D1:1416:C:H5	2.21	0.59
29:D1:1237:G:N1	29:D1:1252:A:C2	2.71	0.59
29:D1:3350:C:O3'	29:D1:3354:U:C5	2.55	0.59
1:C1:1325:A:C2	1:C1:1326:A:N7	2.71	0.59
29:B1:3261:C:C5'	29:B1:3262:U:OP1	2.50	0.59
1:A1:1751:C:H2'	1:A1:1751:C:O2	2.02	0.59
1:A1:1329:A:C8	1:A1:1330:G:C8	2.90	0.59
1:A1:1338:C:N1	1:A1:1410:A:C2	2.70	0.59
29:D1:1681:U:H5'	29:D1:1682:U:OP2	2.03	0.59
36:DE:111:GLN:N	36:DE:114:GLY:C	2.51	0.59
1:C1:1039:A:O2'	1:C1:1040:G:P	2.61	0.59
18:CQ:41:ILE:HA	18:CQ:44:GLN:N	2.09	0.59
20:CS:41:GLN:CB	74:CS:101:OHX:N1	2.65	0.59
9:CH:42:VAL:O	9:CH:43:THR:O	2.20	0.59
1:C1:492:A:C4	1:C1:494:U:H5''	2.36	0.59
1:A1:891:A:N1	1:A1:922:G:C6	2.70	0.59
1:C1:1282:U:H5''	1:C1:1283:U:OP2	2.03	0.59
29:B1:3356:G:H2'	29:B1:3357:U:C4'	2.32	0.59
54:BY:138:ILE:C	54:BY:143:GLY:HA3	2.23	0.59
52:DW:69:SER:N	52:DW:72:ALA:HB3	2.14	0.59
29:D1:2942:C:OP1	29:D1:2943:G:OP1	2.21	0.59
34:BC:63:PRO:HA	34:BC:68:HIS:CB	2.32	0.59
29:B1:3180:A:N1	45:BP:166:GLU:CB	2.65	0.59
1:A1:241:U:HO2'	1:A1:242:U:H3	1.48	0.59
45:BP:60:LYS:O	45:BP:61:ALA:O	2.21	0.59
34:DC:63:PRO:HA	34:DC:68:HIS:CB	2.32	0.59
13:CL:80:LYS:C	13:CL:82:PRO:N	2.53	0.59
5:AD:99:MET:C	5:AD:101:GLY:H	2.06	0.59
1:C1:943:C:H5''	1:C1:944:A:OP2	2.02	0.59
33:BB:112:ILE:HA	33:BB:165:VAL:H	1.67	0.59
54:DY:83:PRO:CB	54:DY:84:GLU:HA	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:95:GLY:O	45:BP:98:ALA:N	2.36	0.59
29:B1:1401:A:H2'	29:B1:1402:C:H6	1.66	0.59
53:BX:78:PHE:O	53:BX:79:ALA:HB2	2.01	0.59
52:BW:94:GLN:O	52:BW:95:ILE:C	2.40	0.59
29:D1:2175:U:H4'	29:D1:2176:U:OP2	2.03	0.59
12:AK:55:THR:O	12:AK:59:LYS:N	2.33	0.59
1:A1:1545:A:OP1	13:AL:133:VAL:N	2.33	0.59
14:AM:7:ARG:O	14:AM:8:ASP:CB	2.51	0.59
50:BU:53:SER:O	50:BU:55:GLY:N	2.34	0.59
38:DG:233:GLU:CB	38:DG:234:GLU:CB	2.81	0.59
31:B3:45:C:H2'	31:B3:46:G:O4'	2.02	0.59
35:BD:130:ALA:O	35:BD:131:VAL:C	2.41	0.59
1:A1:1118:G:C6	1:A1:1119:G:C5	2.90	0.59
1:A1:518:A:N6	1:A1:535:A:H1'	2.17	0.59
1:A1:554:C:O3'	1:A1:555:A:H2'	2.01	0.59
29:B1:1169:A:N1	29:B1:1330:A:C5	2.71	0.59
29:B1:1495:U:O2'	29:B1:1514:G:H4'	2.03	0.59
29:B1:1784:G:O2'	29:B1:1785:U:H5'	2.03	0.59
29:B1:1900:A:O2'	29:B1:1906:G:N7	2.32	0.59
29:B1:2296:A:C2	29:B1:2919:A:H1'	2.38	0.59
29:B1:287:G:C4	29:B1:288:C:C5	2.91	0.59
29:B1:311:C:C4	29:B1:312:C:C5	2.91	0.59
29:B1:3321:C:C2	29:B1:3322:A:N7	2.69	0.59
29:B1:3394:U:HO2'	29:B1:3395:G:H8	1.49	0.59
29:B1:540:U:C2	29:B1:541:U:C5	2.89	0.59
29:B1:547:G:H5''	29:B1:548:G:N7	2.18	0.59
29:B1:637:C:O2'	29:B1:638:C:C6	2.55	0.59
29:B1:106:A:H5''	29:B1:684:G:O3'	2.03	0.59
29:B1:876:A:O2'	29:B1:877:C:H5'	2.00	0.59
29:B1:892:U:H2'	29:B1:893:C:O4'	2.01	0.59
29:B1:943:U:C1'	29:B1:1432:C:C6	2.85	0.59
29:B1:952:A:C3'	29:B1:952:A:C8	2.85	0.59
74:B1:3537:OHX:N3	38:BG:217:PRO:O	2.36	0.59
38:BG:47:ARG:O	38:BG:50:ALA:HB3	2.02	0.59
1:C1:1035:G:N2	1:C1:1101:G:C4	2.71	0.59
1:C1:1073:G:C6	1:C1:1074:G:N1	2.70	0.59
1:C1:1107:G:HO2'	1:C1:1108:G:P	2.26	0.59
1:C1:391:A:C6	1:C1:392:G:C5	2.90	0.59
1:C1:534:A:O3'	1:C1:535:A:H8	1.84	0.59
1:C1:542:A:O2'	1:C1:543:C:P	2.60	0.59
1:C1:98:U:H2'	1:C1:99:C:C6	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:999:U:H2'	1:C1:1000:C:O2	2.03	0.59
29:D1:109:A:N6	29:D1:323:A:H1'	2.18	0.59
29:D1:1129:A:C6	29:D1:1130:A:N6	2.70	0.59
29:D1:1194:G:H2'	29:D1:1309:U:O2	2.02	0.59
29:D1:1403:C:C5'	29:D1:1404:G:OP2	2.51	0.59
29:D1:1482:A:C4'	29:D1:1483:G:OP2	2.40	0.59
29:D1:1602:A:C6	29:D1:1603:A:N1	2.71	0.59
29:D1:1662:G:H2'	29:D1:1663:C:C6	2.38	0.59
29:D1:2665:U:N3	29:D1:2706:G:C6	2.68	0.59
29:D1:306:A:H61	29:D1:2783:U:H3	1.50	0.59
29:D1:2868:U:H5''	29:D1:2869:U:OP2	2.03	0.59
29:D1:2986:U:H2'	29:D1:2987:A:C8	2.32	0.59
29:D1:3046:A:C6	29:D1:3047:U:C4	2.90	0.59
29:D1:3296:A:C2	29:D1:3297:U:N1	2.70	0.59
29:D1:381:U:C2	29:D1:388:G:N1	2.70	0.59
29:D1:607:A:H8	29:D1:607:A:P	2.25	0.59
29:D1:864:G:O6	29:D1:893:C:H3'	2.03	0.59
31:D3:49:G:C6	31:D3:50:C:C4	2.89	0.59
31:D3:92:A:C2'	31:D3:93:U:H5'	2.33	0.59
33:DB:172:GLY:C	33:DB:174:ARG:N	2.54	0.59
29:D1:3044:G:O3'	34:DC:12:GLY:CA	2.48	0.59
29:B1:1057:A:C5	29:B1:1058:U:C5	2.91	0.59
30:B2:64:A:C1'	30:B2:65:G:O5'	2.49	0.59
1:A1:269:G:H2'	1:A1:270:C:H6	1.66	0.59
30:D2:72:A:O2'	30:D2:73:C:H5'	2.02	0.59
1:C1:252:U:O2'	1:C1:253:A:O5'	2.16	0.59
29:D1:2677:G:H2'	29:D1:2678:A:O5'	2.01	0.59
1:A1:339:C:H2'	1:A1:340:U:H6	1.66	0.59
1:C1:1347:U:H3	1:C1:1376:C:H41	1.51	0.59
1:C1:1483:A:C5'	1:C1:1521:G:O2'	2.51	0.59
1:A1:1174:C:H4'	1:A1:1601:G:C6	2.37	0.59
1:A1:1458:G:N3	1:A1:1458:G:C2'	2.65	0.59
1:A1:1513:G:H2'	1:A1:1514:U:OP1	2.02	0.59
29:B1:436:A:O5'	29:B1:436:A:H8	1.85	0.59
1:C1:1066:C:H2'	1:C1:1067:C:H5'	1.83	0.59
46:BQ:6:ALA:O	46:BQ:8:SER:N	2.36	0.59
29:D1:624:G:C2	29:D1:625:G:N7	2.71	0.59
29:D1:3234:A:C2	29:D1:3253:G:N2	2.67	0.59
29:D1:372:A:C6	29:D1:373:A:C5	2.91	0.59
29:B1:1247:U:OP1	29:B1:1248:C:H5	1.85	0.59
29:D1:3280:U:C2	29:D1:3281:U:C5	2.89	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1295:G:H1'	1:C1:1321:A:C2	2.37	0.59
1:A1:889:U:O2'	1:A1:890:C:H5'	2.01	0.59
1:C1:1650:U:H5''	1:C1:1651:A:OP2	2.03	0.59
29:B1:1640:G:H8	29:B1:1640:G:O5'	1.86	0.59
29:D1:3273:A:H2'	29:D1:3274:A:C4'	2.32	0.59
29:B1:1731:A:N7	29:B1:1732:U:C5	2.70	0.59
29:D1:1714:A:H1'	29:D1:1731:A:C6	2.37	0.59
29:B1:1336:U:O2'	29:B1:1337:A:H5'	2.02	0.59
29:D1:366:A:N6	29:D1:367:A:C2	2.71	0.59
29:D1:2971:A:H4'	29:D1:2972:G:O5'	2.03	0.59
29:B1:269:G:N1	29:B1:294:U:C5	2.71	0.59
1:C1:881:A:H5''	1:C1:882:U:OP2	2.02	0.59
35:BD:119:ARG:O	35:BD:121:ALA:N	2.35	0.59
8:AG:91:LEU:O	8:AG:95:ALA:HB3	2.03	0.59
3:AB:245:ASP:C	3:AB:247:ALA:N	2.55	0.59
11:CJ:40:GLU:O	11:CJ:42:GLU:N	2.34	0.59
6:AE:111:THR:O	6:AE:113:VAL:N	2.36	0.59
29:B1:1671:C:H2'	29:B1:1671:C:O2	2.01	0.59
46:BQ:68:GLY:O	46:BQ:69:ARG:O	2.20	0.59
21:AT:50:ASP:H	21:AT:54:PHE:HA	1.67	0.59
43:DN:97:SER:C	43:DN:99:TRP:N	2.55	0.59
10:CI:80:MET:C	10:CI:82:ASN:H	2.05	0.59
50:BU:127:PRO:O	50:BU:130:ALA:HB3	2.03	0.59
53:BX:64:LYS:C	53:BX:66:GLN:H	2.05	0.59
1:A1:1056:U:H1'	1:A1:1064:G:N2	2.16	0.59
1:A1:1144:U:O4'	1:A1:1300:A:N1	2.35	0.59
1:A1:1634:C:C2'	1:A1:1634:C:O2	2.50	0.59
1:A1:15:U:C2'	1:A1:16:G:H5'	2.32	0.59
1:A1:1793:G:O2'	1:A1:1794:A:O5'	2.20	0.59
1:A1:4:C:H2'	1:A1:5:U:H6	1.67	0.59
1:A1:527:A:P	1:A1:528:U:H5'	2.43	0.59
1:A1:55:A:C5	1:A1:426:G:C6	2.90	0.59
1:A1:755:A:C5	1:A1:756:A:C5	2.90	0.59
1:A1:97:C:H2'	1:A1:98:U:O4'	2.03	0.59
1:A1:13:C:O3'	3:AB:161:LYS:O	2.19	0.59
29:B1:1878:G:H8	29:B1:1878:G:H3'	1.68	0.59
29:B1:200:C:H41	29:B1:217:U:H2'	1.68	0.59
29:B1:2112:U:C1'	29:B1:2113:A:OP2	2.50	0.59
29:B1:2143:A:C8	29:B1:2143:A:H3'	2.37	0.59
29:B1:2925:C:H2'	29:B1:2926:A:O4'	2.02	0.59
29:B1:3055:U:O2'	29:B1:3057:U:OP1	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3131:U:C6	29:B1:3131:U:OP2	2.56	0.59
29:B1:3299:A:H2'	29:B1:3299:A:O5'	2.03	0.59
29:B1:3311:C:H2'	29:B1:3312:U:O4'	2.03	0.59
29:B1:37:U:C2'	29:B1:37:U:O2	2.51	0.59
29:B1:608:A:C6	29:B1:609:G:N7	2.70	0.59
29:B1:656:A:H3'	29:B1:657:A:C8	2.38	0.59
29:B1:774:G:H2'	29:B1:775:A:H5'	1.81	0.59
29:B1:781:G:O2'	29:B1:782:U:H5'	2.01	0.59
29:B1:750:G:N1	29:B1:784:A:C1'	2.65	0.59
29:B1:784:A:H3'	29:B1:785:G:C5'	2.31	0.59
29:B1:807:A:C8	29:B1:807:A:C3'	2.86	0.59
29:B1:836:A:C4	29:B1:837:A:C8	2.91	0.59
29:B1:82:C:C2'	29:B1:83:U:O5'	2.47	0.59
29:B1:962:A:C3'	29:B1:963:G:H5''	2.33	0.59
29:B1:88:A:C8	29:B1:99:A:N6	2.70	0.59
29:B1:519:A:N6	37:BF:30:LEU:HA	2.16	0.59
1:C1:390:G:N2	1:C1:391:A:C6	2.70	0.59
1:C1:600:U:H2'	1:C1:601:A:C8	2.38	0.59
1:C1:22:A:C6	1:C1:604:A:C6	2.90	0.59
1:C1:606:A:H4'	1:C1:607:G:C3'	2.32	0.59
1:C1:863:A:O2'	1:C1:865:A:H5''	2.03	0.59
1:C1:975:C:N4	1:C1:976:G:C6	2.71	0.59
29:D1:107:A:C2	29:D1:108:A:N3	2.71	0.59
29:D1:1164:G:C4	29:D1:1165:A:C8	2.90	0.59
29:D1:1226:G:N3	29:D1:1227:C:C5	2.71	0.59
29:D1:1368:U:O2'	29:D1:1369:A:H5'	2.01	0.59
29:D1:1454:A:O4'	29:D1:1878:G:C2	2.55	0.59
29:D1:1841:A:C2	29:D1:1848:G:C8	2.90	0.59
29:D1:2689:A:C4	29:D1:2702:A:C2	2.91	0.59
29:D1:2919:A:C3'	29:D1:2920:U:C5'	2.81	0.59
29:D1:3018:C:C4	29:D1:3019:U:C5	2.90	0.59
29:D1:3324:C:C2	29:D1:3325:G:C8	2.90	0.59
29:D1:597:G:H2'	29:D1:598:A:H8	1.68	0.59
29:D1:642:U:H4'	29:D1:1116:G:C6	2.36	0.59
29:D1:926:A:H2'	29:D1:927:C:C6	2.38	0.59
29:D1:993:G:C8	29:D1:2637:A:C2	2.90	0.59
29:D1:9:U:H3'	29:D1:9:U:O2	2.02	0.59
31:D3:104:A:OP2	31:D3:105:A:H2'	2.02	0.59
31:D3:10:A:H2'	31:D3:11:C:C6	2.37	0.59
31:D3:4:C:C2'	31:D3:5:U:H5'	2.33	0.59
37:DF:31:ARG:O	37:DF:32:ALA:O	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DF:40:LEU:HA	37:DF:85:ILE:HA	1.84	0.59
37:DF:43:LEU:H	37:DF:84:VAL:CA	2.14	0.59
1:C1:643:G:N1	1:C1:692:C:C4	2.71	0.59
29:B1:2631:U:C4	29:B1:2648:G:N1	2.70	0.59
31:B3:56:G:C6	31:B3:62:C:N4	2.70	0.59
1:A1:137:U:H4'	1:A1:138:A:OP2	2.03	0.59
1:A1:206:A:N3	1:A1:262:U:C4	2.71	0.59
1:A1:57:G:C6	1:A1:58:U:C5	2.90	0.59
30:D2:73:C:N3	30:D2:74:C:C4	2.70	0.59
1:A1:800:U:H2'	1:A1:800:U:O2	2.03	0.59
1:C1:1560:U:OP2	1:C1:1560:U:C5	2.55	0.59
1:C1:1566:U:C2'	1:C1:1567:U:H5''	2.33	0.59
1:A1:1159:C:H3'	1:A1:1160:A:C5'	2.32	0.59
1:A1:1186:U:OP1	1:A1:1456:C:H1'	2.02	0.59
1:A1:1232:U:O2	1:A1:1233:G:C8	2.56	0.59
1:A1:1375:A:C2'	1:A1:1376:C:C6	2.84	0.59
1:A1:1472:C:H1'	1:A1:1473:U:OP2	2.02	0.59
1:A1:1483:A:C8	1:A1:1524:A:N7	2.70	0.59
46:BQ:9:THR:HA	46:BQ:14:SER:N	2.17	0.59
29:B1:3281:U:C2	29:B1:3282:U:C4	2.91	0.59
29:D1:3197:G:OP2	29:D1:3198:U:H5	1.86	0.59
29:D1:3218:A:O3'	29:D1:3220:G:C8	2.56	0.59
1:C1:156:A:H2'	1:C1:157:A:O4'	2.03	0.59
1:C1:1309:C:C2'	1:C1:1310:U:O5'	2.50	0.59
29:B1:3221:C:C2'	29:B1:3222:U:H5'	2.32	0.59
29:D1:1085:A:H3'	29:D1:1086:C:H6	1.68	0.59
29:D1:1683:A:N7	29:D1:1684:U:C4	2.71	0.59
29:B1:2883:U:C2'	29:B1:2884:C:H6	2.11	0.59
29:D1:1916:U:H2'	29:D1:1917:C:H6	1.66	0.59
5:CD:140:THR:O	5:CD:171:ALA:HB1	2.03	0.59
29:D1:835:G:C2	29:D1:857:G:C2	2.91	0.59
1:C1:1124:A:C6	1:C1:1125:A:C6	2.90	0.59
1:C1:1124:A:N6	1:C1:1125:A:N1	2.51	0.59
29:B1:2943:G:N7	29:B1:2944:U:C5	2.71	0.59
29:D1:1640:G:C5'	29:D1:1738:C:OP1	2.50	0.59
29:B1:2580:A:C1'	29:B1:2581:U:OP2	2.51	0.59
1:C1:215:A:N7	1:C1:216:U:C4	2.71	0.59
3:AB:185:LYS:O	3:AB:186:LYS:C	2.41	0.59
29:B1:2900:A:N3	29:B1:2901:G:C8	2.71	0.59
13:AL:65:GLU:O	13:AL:67:GLU:N	2.36	0.59
46:DQ:95:LEU:O	46:DQ:98:ALA:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:878:G:C6	1:C1:951:A:N1	2.71	0.59
29:D1:2554:A:C2	33:DB:84:THR:O	2.55	0.59
1:A1:932:U:H4'	1:A1:933:A:O5'	2.03	0.59
16:AO:102:VAL:O	16:AO:104:LEU:N	2.36	0.59
53:DX:36:SER:O	53:DX:40:ARG:N	2.24	0.59
5:CD:215:ASP:O	5:CD:216:GLU:C	2.41	0.59
35:DD:177:ASP:C	35:DD:179:LEU:H	2.05	0.59
35:DD:237:GLN:C	35:DD:239:ALA:H	2.04	0.59
1:A1:1294:G:C2	1:A1:1295:G:C8	2.91	0.59
1:A1:1056:U:H3'	1:A1:1057:U:C6	2.38	0.59
1:A1:1765:A:H2	1:A1:1768:G:H22	1.48	0.59
1:A1:1766:A:H8	1:A1:1794:A:HO2'	1.51	0.59
1:A1:8:U:O2'	74:A1:1976:OHX:N2	2.35	0.59
1:A1:607:G:C4'	1:A1:608:U:OP 2	2.50	0.59
1:A1:963:A:O2'	1:A1:964:U:P	2.61	0.59
1:A1:97:C:H1'	1:A1:426:G:C5'	2.26	0.59
1:A1:985:G:C5	1:A1:986:G:N7	2.70	0.59
29:B1:1153:A:C8	29:B1:1154:A:C4	2.91	0.59
29:B1:1157:G:C6	29:B1:1158:A:C4	2.90	0.59
29:B1:1378:U:C2'	29:B1:1379:G:H8	2.14	0.59
29:B1:1480:G:H4'	29:B1:1481:A:OP 2	2.01	0.59
29:B1:157:A:H2'	29:B1:158:G:N7	2.17	0.59
29:B1:1662:G:H1	29:B1:1787:A:H61	1.49	0.59
29:B1:2137:U:N3	29:B1:2141:U:H5	2.01	0.59
29:B1:2143:A:N7	29:B1:2145:A:C6	2.71	0.59
29:B1:2343:C:H2'	29:B1:2344:U:H6	1.67	0.59
29:B1:1444:G:H1	29:B1:2359:C:N4	2.01	0.59
29:B1:258:G:HO2'	29:B1:259:C:C5'	2.14	0.59
29:B1:2655:U:C2	29:B1:2656:A:N1	2.71	0.59
29:B1:2948:C:C5'	29:B1:2948:C:C6	2.85	0.59
29:B1:3073:A:C2'	29:B1:3074:G:O5'	2.51	0.59
29:B1:3133:C:H2'	29:B1:3134:A:O5'	2.03	0.59
29:B1:3315:G:O4'	29:B1:3320:A:O5'	2.21	0.59
29:B1:374:A:C2	29:B1:375:A:C5	2.90	0.59
29:B1:424:G:N1	29:B1:635:G:N2	2.51	0.59
29:B1:514:G:C2'	29:B1:515:C:N1	2.64	0.59
29:B1:58:G:O2'	29:B1:61:A:H5'	2.02	0.59
29:B1:692:A:C2	29:B1:693:A:H1'	2.38	0.59
29:B1:692:A:H2'	29:B1:693:A:H8	1.66	0.59
29:B1:882:A:H5''	29:B1:1849:C:O2	2.03	0.59
29:B1:8:C:O2	31:B3:152:G:C2	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:18:U:N3	31:B3:19:C:C5	2.71	0.59
1:C1:977:A:C4	1:C1:1025:A:C2	2.91	0.59
1:C1:1042:G:H2'	1:C1:1043:A:C8	2.37	0.59
1:C1:1138:A:C4	1:C1:1139:A:N7	2.71	0.59
1:C1:210:A:C5	1:C1:211:U:C5	2.90	0.59
1:C1:298:C:C5	1:C1:299:A:C8	2.91	0.59
1:C1:402:C:N3	1:C1:403:G:O4'	2.35	0.59
1:C1:53:G:C6	1:C1:54:C:C4	2.90	0.59
1:C1:604:A:H5''	1:C1:605:A:OP2	2.02	0.59
1:C1:607:G:N7	1:C1:613:G:C4	2.71	0.59
29:D1:1150:A:C2	29:D1:1151:U:H1'	2.38	0.59
29:D1:1152:G:O2'	29:D1:1153:A:OP1	2.14	0.59
29:D1:1223:A:H2	29:D1:1285:G:C8	2.21	0.59
29:D1:1342:C:O2	29:D1:1342:C:H2'	2.03	0.59
29:D1:1548:C:H3'	29:D1:1549:U:O4'	2.02	0.59
29:D1:1658:G:C6	29:D1:1659:U:C4	2.89	0.59
29:D1:1453:A:C1'	29:D1:1850:A:H2	2.13	0.59
29:D1:2136:C:H3'	29:D1:2142:A:N6	2.17	0.59
29:D1:2259:A:C5	29:D1:2260:U:C2	2.90	0.59
29:D1:2289:U:N3	29:D1:2290:C:C5	2.71	0.59
29:D1:2609:A:C2	29:D1:2610:G:C5	2.91	0.59
29:D1:2621:G:H2'	29:D1:2622:C:H6	1.67	0.59
29:D1:2904:U:O2	29:D1:2905:U:C6	2.56	0.59
29:D1:2909:U:H2'	29:D1:2910:A:H5'	1.85	0.59
29:D1:3102:G:H2'	29:D1:3103:A:O5'	2.03	0.59
29:D1:3315:G:HO2'	29:D1:3316:A:H8	1.42	0.59
29:D1:3316:A:C1'	29:D1:3317:U:OP2	2.51	0.59
29:D1:359:U:O4	29:D1:360:G:N1	2.35	0.59
29:D1:386:A:H2'	29:D1:387:A:O4'	2.03	0.59
29:D1:560:G:N2	29:D1:561:C:C2	2.71	0.59
29:D1:606:C:C4	29:D1:607:A:N6	2.69	0.59
29:D1:784:A:H3'	29:D1:785:G:C5'	2.24	0.59
35:DD:84:ARG:C	35:DD:86:GLY:H	2.06	0.59
29:B1:2666:C:H5''	29:B1:2667:A:OP2	2.03	0.59
30:B2:97:A:C8	30:B2:97:A:OP2	2.56	0.59
1:A1:169:A:HO2'	1:A1:171:A:H8	1.49	0.59
30:D2:14:U:N1	30:D2:14:U:OP2	2.36	0.59
1:C1:1720:G:C8	1:C1:1721:A:C8	2.91	0.59
1:C1:1207:C:C4	1:C1:1208:A:N6	2.71	0.59
1:C1:1383:G:C2'	1:C1:1384:A:O5'	2.50	0.59
1:A1:1259:U:H2'	1:A1:1260:U:O5'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1575:G:N1	1:A1:1576:A:C4	2.71	0.59
29:B1:438:A:O2'	29:B1:494:G:H1'	2.03	0.59
29:D1:438:A:O2'	29:D1:494:G:H1'	2.02	0.59
29:B1:3187:A:N1	29:B1:3188:G:C4	2.71	0.59
29:D1:3187:A:N1	29:D1:3188:G:C4	2.70	0.59
29:D1:3191:G:C6	29:D1:3192:U:C2	2.91	0.59
30:B2:48:U:H2'	30:B2:49:G:C5	2.38	0.59
29:B1:2513:U:O4	29:B1:2592:G:H1'	2.03	0.59
1:C1:1336:A:C6	1:C1:1416:G:C6	2.91	0.59
1:C1:1649:G:C4	1:C1:1650:U:C5	2.91	0.59
29:D1:2592:G:C6	74:D1:3463:OHX:N1	2.70	0.59
29:B1:2555:G:C1'	29:B1:2556:C:OP2	2.51	0.59
1:C1:1092:A:C2	1:C1:1094:G:N7	2.70	0.59
1:A1:782:U:H1'	1:A1:783:G:OP2	2.03	0.59
1:C1:1123:C:H5	1:C1:1124:A:C5	2.20	0.59
5:CD:99:MET:C	5:CD:101:GLY:H	2.05	0.59
36:DE:125:VAL:O	36:DE:246:ALA:HB2	2.02	0.59
29:D1:2306:C:C6	29:D1:2306:C:C3'	2.84	0.59
29:B1:1357:G:H2'	29:B1:1358:C:H6	1.62	0.59
1:C1:729:G:O2'	1:C1:730:G:P	2.60	0.59
1:A1:1306:C:O2	1:A1:1306:C:O4'	2.18	0.59
29:B1:246:U:P	29:B1:247:C:H5''	2.43	0.59
1:C1:576:G:H5''	1:C1:577:G:OP2	2.02	0.59
7:AF:110:HIS:CB	7:AF:138:ASN:HA	2.32	0.59
1:A1:1623:C:H2'	1:A1:1623:C:O2	2.01	0.59
49:DT:79:MET:CB	49:DT:84:TYR:O	2.51	0.59
15:CN:45:ALA:C	15:CN:47:GLN:N	2.56	0.59
35:DD:177:ASP:O	35:DD:179:LEU:N	2.36	0.59
6:AE:151:ASP:O	6:AE:153:GLU:N	2.36	0.59
14:AM:13:ASP:C	14:AM:15:ILE:H	2.06	0.59
52:DW:110:VAL:O	52:DW:111:ASN:C	2.40	0.59
53:DX:64:LYS:C	53:DX:66:GLN:H	2.05	0.59
29:B1:1673:G:C4	29:B1:1775:G:C2	2.90	0.59
21:CT:300:THR:HA	21:CT:314:GLN:CB	2.32	0.59
1:A1:1297:G:N2	1:A1:1301:U:C2	2.71	0.59
1:A1:365:G:C5	1:A1:377:G:N1	2.71	0.59
1:A1:388:G:N3	1:A1:389:G:C8	2.71	0.59
1:A1:22:A:C6	1:A1:604:A:C6	2.91	0.59
1:A1:977:A:H2'	1:A1:978:A:H5'	1.83	0.59
7:AF:95:PRO:O	7:AF:97:TYR:N	2.36	0.59
29:B1:1405:U:C6	29:B1:1406:A:N7	2.71	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:213:A:C6	29:B1:214:G:C4	2.90	0.59
29:B1:2253:G:C8	29:B1:2254:U:C4	2.91	0.59
29:B1:2260:U:C2'	29:B1:2261:G:N7	2.65	0.59
29:B1:2407:C:H2'	29:B1:2408:U:C6	2.37	0.59
29:B1:2787:G:C4	29:B1:2788:C:C5	2.90	0.59
29:B1:2948:C:O2'	29:B1:2949:U:C5'	2.48	0.59
29:B1:2970:C:C3'	29:B1:2971:A:H5''	2.31	0.59
29:B1:3114:A:N7	29:B1:3115:C:C5	2.71	0.59
29:B1:3157:U:H6	29:B1:3157:U:P	2.26	0.59
29:B1:3294:A:H2'	29:B1:3295:A:C5'	2.33	0.59
29:B1:3377:G:C1'	29:B1:3378:C:OP1	2.51	0.59
29:B1:393:U:O2	29:B1:393:U:H2'	2.03	0.59
29:B1:431:U:C3'	29:B1:431:U:C6	2.86	0.59
29:B1:576:C:O2'	29:B1:577:C:H5''	2.03	0.59
29:B1:758:C:H1'	29:B1:759:U:OP2	2.02	0.59
29:B1:768:C:H2'	29:B1:769:G:C5	2.37	0.59
29:B1:769:G:C4'	29:B1:770:G:OP1	2.51	0.59
29:B1:776:U:P	29:B1:777:U:OP2	2.60	0.59
29:B1:865:U:C4	29:B1:866:A:C5	2.91	0.59
33:BB:221:LYS:O	33:BB:222:ALA:HB2	2.02	0.59
1:C1:1109:G:N1	1:C1:1110:G:C5	2.71	0.59
1:C1:1673:G:O2'	1:C1:1674:C:H5'	2.02	0.59
1:C1:53:G:C6	1:C1:54:C:C5	2.90	0.59
1:C1:557:G:OP2	1:C1:589:C:H1'	2.03	0.59
1:C1:977:A:H2'	1:C1:978:A:H5'	1.82	0.59
1:C1:978:A:N6	1:C1:1024:U:C4	2.71	0.59
29:D1:1209:G:C5	29:D1:1210:U:C4	2.90	0.59
29:D1:1535:A:H5''	29:D1:1536:G:OP2	2.02	0.59
29:D1:1540:U:H2'	29:D1:1541:G:H5'	1.85	0.59
29:D1:1543:G:N7	74:D1:3556:OHX:N3	2.51	0.59
29:D1:1697:A:N7	29:D1:1698:C:C5	2.70	0.59
29:D1:2257:C:H3'	29:D1:2258:U:C6	2.35	0.59
29:D1:2262:A:H5''	29:D1:2263:C:H5'	1.85	0.59
29:D1:2666:C:H5''	29:D1:2667:A:OP2	2.02	0.59
29:D1:2816:G:H4'	29:D1:2817:A:H5''	1.85	0.59
29:D1:2896:A:O2'	29:D1:2897:A:O5'	2.20	0.59
29:D1:284:A:N1	29:D1:306:A:C8	2.71	0.59
29:D1:569:A:C2	29:D1:570:A:C1'	2.86	0.59
29:D1:692:A:C4	29:D1:693:A:C8	2.91	0.59
29:D1:747:A:H8	29:D1:747:A:OP1	1.85	0.59
29:D1:82:C:H2'	29:D1:83:U:O5'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:888:A:C6	29:D1:889:U:C4	2.90	0.59
29:D1:40:A:N6	29:D1:937:G:C2	2.71	0.59
29:D1:962:A:C3'	29:D1:963:G:H5''	2.33	0.59
30:D2:82:G:C5	30:D2:99:G:C2	2.91	0.59
29:D1:337:G:H1	31:D3:26:U:H3	1.51	0.59
35:DD:6:VAL:CB	35:DD:20:LEU:H	2.16	0.59
1:A1:704:C:H2'	1:A1:704:C:O2	2.03	0.59
1:A1:221:A:H3'	1:A1:833:U:H6	1.66	0.59
1:C1:847:A:C2'	1:C1:848:C:C5'	2.81	0.59
1:C1:647:G:N1	1:C1:648:G:O6	2.36	0.59
1:A1:653:C:C5	1:A1:654:C:H5	2.21	0.59
29:B1:2618:G:C4'	29:B1:2619:G:OP2	2.50	0.59
30:B2:74:C:C5	30:B2:75:G:C8	2.90	0.59
31:B3:48:A:C5	31:B3:51:G:C8	2.91	0.59
30:D2:69:C:H5'	30:D2:70:U:OP2	2.03	0.59
30:D2:80:G:H2'	30:D2:81:U:H6	1.68	0.59
1:C1:108:A:H3'	1:C1:109:G:H8	1.68	0.59
1:C1:1687:U:C4	1:C1:1688:U:H1'	2.38	0.59
1:C1:330:G:H5''	1:C1:331:A:OP2	2.03	0.59
1:A1:302:U:C4	1:A1:303:U:O2	2.56	0.59
1:A1:333:A:C2	1:A1:334:G:C4	2.91	0.59
1:C1:1259:U:H2'	1:C1:1260:U:O5'	2.03	0.59
1:C1:1376:C:O5'	1:C1:1376:C:H6	1.85	0.59
1:C1:1185:U:C5	1:C1:1458:G:C8	2.91	0.59
1:A1:1583:A:N3	1:A1:1585:U:N3	2.51	0.59
29:B1:384:A:C8	29:B1:385:A:N7	2.70	0.59
29:B1:3212:C:C5	29:B1:3213:A:N1	2.71	0.59
6:AE:82:ARG:C	6:AE:84:GLY:N	2.54	0.59
29:B1:3191:G:C6	29:B1:3202:G:N1	2.71	0.59
29:D1:404:G:H2'	29:D1:405:U:H5'	1.84	0.59
30:B2:25:G:N2	30:B2:26:C:N3	2.51	0.59
30:D2:43:U:O2	30:D2:43:U:H2'	2.03	0.59
29:B1:3384:U:C4	29:B1:3385:U:C4	2.91	0.59
1:C1:1388:A:N6	1:C1:1411:A:N7	2.50	0.59
2:CA:8:ASP:C	2:CA:10:THR:N	2.56	0.59
29:D1:3142:A:N3	74:D1:3431:OHX:N1	2.51	0.59
29:D1:2591:A:C2	29:D1:2592:G:H1'	2.38	0.59
1:A1:1336:A:C6	1:A1:1416:G:O6	2.56	0.59
29:D1:3072:C:C5	29:D1:3073:A:C4	2.91	0.59
1:C1:897:C:N3	1:C1:914:G:C2	2.70	0.59
29:D1:2403:G:C4	29:D1:2872:A:C6	2.91	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:26:A:C2'	29:B1:27:C:H6	2.15	0.59
29:B1:2502:A:N3	29:B1:2502:A:H2'	2.17	0.59
29:D1:3269:U:O2'	29:D1:3270:U:H5'	2.03	0.59
29:D1:1715:A:N6	29:D1:1716:U:C4	2.71	0.59
1:C1:1168:U:H2'	1:C1:1169:G:H5'	1.85	0.59
34:BC:299:ASP:C	34:BC:301:THR:H	2.05	0.59
5:CD:200:ASN:C	5:CD:204:GLY:HA3	2.24	0.59
29:D1:1742:U:H2'	29:D1:1743:G:H8	1.68	0.59
29:D1:142:C:H2'	29:D1:143:G:C8	2.37	0.59
45:BP:114:LYS:O	45:BP:115:LYS:CB	2.49	0.59
13:CL:68:ARG:HA	13:CL:71:GLN:CB	2.33	0.59
1:A1:567:A:OP2	17:AP:67:ALA:HB1	2.03	0.59
14:CM:28:LEU:O	14:CM:30:VAL:N	2.36	0.59
3:AB:122:ALA:O	3:AB:125:ILE:N	2.35	0.59
47:BR:66:ARG:C	47:BR:68:ALA:N	2.56	0.59
29:D1:1725:C:H2'	29:D1:1726:C:C5	2.38	0.59
47:BR:21:SER:O	47:BR:22:ASP:CB	2.50	0.59
35:BD:256:THR:O	35:BD:257:LYS:CB	2.50	0.59
50:DU:27:ASP:CB	50:DU:101:VAL:HA	2.32	0.59
16:AO:37:PHE:C	16:AO:39:GLN:H	2.06	0.59
41:DJ:57:LEU:HA	41:DJ:129:VAL:O	2.03	0.59
1:A1:1007:C:C5'	1:A1:1008:G:OP2	2.49	0.59
1:A1:1056:U:H1'	1:A1:1064:G:H21	1.67	0.59
1:A1:594:A:H4'	1:A1:595:G:OP1	2.02	0.59
1:A1:866:G:C2	1:A1:867:G:C8	2.91	0.59
29:B1:952:A:N6	29:B1:1142:G:H21	1.99	0.59
29:B1:1220:U:OP2	29:B1:1223:A:H4'	2.01	0.59
29:B1:1495:U:O3'	29:B1:1514:G:H5'	2.02	0.59
29:B1:11:A:H4'	29:B1:1558:A:C2	2.38	0.59
29:B1:1654:A:HO2'	29:B1:1655:G:P	2.26	0.59
29:B1:189:G:C2	29:B1:191:U:C4	2.90	0.59
29:B1:2107:A:C4	29:B1:2108:C:C5	2.91	0.59
29:B1:210:U:C4	35:BD:161:LYS:HA	2.38	0.59
29:B1:2112:U:O2	29:B1:2113:A:N1	2.36	0.59
29:B1:198:A:O4'	29:B1:218:G:C2	2.56	0.59
29:B1:198:A:N1	29:B1:219:A:C5	2.70	0.59
29:B1:1895:A:C5	29:B1:2335:G:N7	2.71	0.59
29:B1:2376:G:N1	29:B1:2377:G:C6	2.71	0.59
29:B1:264:G:N7	29:B1:265:A:N6	2.51	0.59
29:B1:2827:U:H2'	29:B1:2827:U:O2	2.02	0.59
29:B1:2836:C:O2	29:B1:2836:C:C2'	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2869:U:H2'	29:B1:2869:U:O2	2.00	0.59
29:B1:3299:A:C4	29:B1:3300:U:C5	2.90	0.59
29:B1:3377:G:C1'	29:B1:3378:C:H5'	2.33	0.59
29:B1:560:G:C2	29:B1:561:C:N3	2.70	0.59
31:B3:141:C:C2	31:B3:142:C:H5	2.21	0.59
29:B1:3295:A:OP1	34:BC:132:LYS:CB	2.51	0.59
37:BF:144:ALA:C	37:BF:146:ILE:N	2.53	0.59
1:C1:1138:A:C2	1:C1:1139:A:N7	2.71	0.59
1:C1:190:C:N4	1:C1:192:U:H3	2.01	0.59
1:C1:768:C:C2'	1:C1:769:A:H5'	2.33	0.59
29:D1:1128:U:O2'	41:DJ:7:ARG:CB	2.51	0.59
29:D1:1452:A:H5'	29:D1:1453:A:OP1	2.03	0.59
29:D1:1498:A:C5	29:D1:1499:C:C5	2.91	0.59
29:D1:1601:U:H5	29:D1:1604:G:O6	1.86	0.59
29:D1:1658:G:C6	29:D1:1796:G:O6	2.56	0.59
29:D1:1785:U:O2'	29:D1:1786:G:H8	1.85	0.59
29:D1:2278:C:C4	29:D1:2307:G:C2	2.91	0.59
29:D1:2378:C:O2	29:D1:2379:U:C5	2.56	0.59
29:D1:2701:U:H1'	29:D1:2705:A:C4	2.38	0.59
29:D1:2702:A:H8	29:D1:2704:A:N6	1.99	0.59
29:D1:3027:A:C2'	29:D1:3028:G:H8	2.07	0.59
29:D1:3368:U:H6	29:D1:3368:U:C5'	2.16	0.59
74:D1:3408:OHX:N5	74:D1:3582:OHX:N5	2.50	0.59
29:D1:543:C:C3'	29:D1:544:C:H5'	2.33	0.59
29:D1:628:A:H5''	29:D1:1399:A:C5	2.38	0.59
29:D1:745:C:N4	29:D1:746:A:H61	2.00	0.59
1:C1:971:A:N6	29:D1:846:A:N6	2.51	0.59
1:C1:972:G:C2	29:D1:846:A:N6	2.67	0.59
29:D1:891:G:C2'	29:D1:892:U:O5'	2.51	0.59
29:D1:992:A:C3'	29:D1:993:G:H5''	2.33	0.59
29:D1:1196:C:O2	30:D2:86:U:N1	2.36	0.59
31:D3:106:C:C2	31:D3:138:A:N7	2.71	0.59
31:D3:24:G:C2'	31:D3:25:G:O5'	2.50	0.59
31:D3:45:C:H2'	31:D3:46:G:O4'	2.03	0.59
34:DC:41:VAL:O	34:DC:42:ALA:O	2.21	0.59
38:DG:84:VAL:C	38:DG:86:VAL:H	2.05	0.59
1:A1:739:G:C2'	1:A1:740:A:H8	2.14	0.59
29:B1:2643:A:N6	29:B1:2645:G:H1'	2.17	0.59
29:B1:2690:G:HO2'	29:B1:2691:A:P	2.25	0.59
30:B2:12:U:C3'	30:B2:13:A:N1	2.65	0.59
31:B3:48:A:C2	31:B3:51:G:O6	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BC:41:VAL:CB	34:BC:186:GLY:H	2.15	0.59
1:A1:147:A:H3'	1:A1:148:A:C8	2.37	0.59
1:A1:166:C:C2'	1:A1:167:U:H5''	2.33	0.59
1:A1:168:A:C6	1:A1:169:A:N6	2.71	0.59
30:D2:70:U:H2'	30:D2:71:G:C8	2.36	0.59
1:C1:1202:A:N6	1:C1:1456:C:H2'	2.18	0.59
1:C1:1449:U:C2'	1:C1:1450:U:O5'	2.51	0.59
1:C1:1541:G:C6	1:C1:1542:G:O6	2.56	0.59
1:A1:1489:U:H5	1:A1:1513:G:C2	2.21	0.59
1:A1:1559:A:O2'	1:A1:1560:U:O4'	2.21	0.59
1:A1:1567:U:H5'	1:A1:1567:U:C6	2.38	0.59
1:A1:1559:A:H1'	13:AL:135:GLY:HA2	1.84	0.59
35:DD:162:THR:O	35:DD:165:ALA:HB3	2.03	0.59
29:B1:1257:C:H3'	29:B1:1258:U:O4'	2.02	0.59
29:D1:3264:G:H3'	29:D1:3265:C:H5''	1.84	0.59
29:D1:1269:U:H2'	29:D1:1270:A:H5''	1.85	0.59
29:D1:1270:A:H5'	29:D1:1271:A:OP2	2.03	0.59
29:D1:3273:A:O2'	29:D1:3274:A:H4'	2.02	0.59
1:A1:1418:G:C2'	1:A1:1419:G:H5'	2.32	0.59
1:A1:901:G:C6	1:A1:902:G:C2	2.90	0.59
18:AQ:57:TYR:CB	18:AQ:58:ARG:CA	2.75	0.59
29:B1:1666:G:H2'	29:B1:1667:A:H8	1.67	0.59
29:D1:130:A:C2	29:D1:139:G:C5	2.90	0.59
29:B1:1704:A:N6	29:B1:1739:U:C4	2.70	0.59
40:BI:63:LYS:O	40:BI:65:VAL:N	2.36	0.59
1:C1:789:A:C4	1:C1:790:U:C5	2.91	0.59
34:DC:299:ASP:C	34:DC:301:THR:H	2.06	0.59
11:CJ:54:LEU:C	11:CJ:56:GLY:N	2.52	0.59
29:D1:2157:G:H4'	29:D1:2158:A:H5'	1.84	0.59
46:DQ:52:LEU:C	46:DQ:54:HIS:N	2.52	0.59
42:DK:133:ARG:CB	42:DK:155:THR:H	2.15	0.59
1:C1:576:G:O6	17:CP:65:ASN:HA	2.02	0.59
12:CK:46:LEU:C	12:CK:48:ASN:H	2.03	0.59
6:CE:96:VAL:O	6:CE:99:LEU:N	2.36	0.59
40:BI:161:LEU:C	40:BI:163:GLN:H	2.06	0.59
47:DR:36:LEU:O	47:DR:37:ALA:O	2.20	0.59
38:BG:228:SER:O	38:BG:230:GLY:N	2.36	0.59
40:DI:85:GLY:O	40:DI:187:ILE:N	2.36	0.59
42:BK:74:PRO:C	42:BK:76:ALA:H	2.07	0.59
34:DC:137:TYR:O	34:DC:138:ALA:HB3	2.03	0.59
40:BI:134:ILE:HA	40:BI:146:LEU:CB	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1287:A:N3	1:C1:1288:G:H1'	2.17	0.59
47:BR:144:ARG:O	47:BR:145:ASN:O	2.20	0.59
1:A1:1142:A:C2	1:A1:1143:A:C4	2.91	0.58
29:B1:1332:A:H2'	29:B1:1333:C:C6	2.38	0.58
29:B1:1566:A:H62	29:B1:1568:U:H3	1.50	0.58
29:B1:2202:C:O2	29:B1:2202:C:H2'	2.02	0.58
29:B1:2280:A:H4'	29:B1:2281:A:OP1	2.02	0.58
29:B1:2308:C:C4	29:B1:2309:A:C5	2.91	0.58
29:B1:2403:G:C4	29:B1:2872:A:C6	2.90	0.58
29:B1:265:A:OP1	29:B1:265:A:C8	2.56	0.58
29:B1:3299:A:H1'	29:B1:3300:U:OP2	2.03	0.58
29:B1:3323:A:O2'	29:B1:3324:C:H5'	2.03	0.58
29:B1:398:A:H2	29:B1:1415:U:C5'	2.15	0.58
29:B1:414:U:H2'	29:B1:415:G:C8	2.34	0.58
29:B1:516:A:H4'	29:B1:517:G:OP1	2.02	0.58
29:B1:54:C:O2'	29:B1:55:G:H5'	2.03	0.58
29:B1:639:G:O2'	29:B1:640:U:H5'	2.02	0.58
29:B1:835:G:C2	29:B1:857:G:C2	2.91	0.58
29:B1:88:A:N7	29:B1:99:A:N6	2.51	0.58
29:B1:926:A:C2	29:B1:927:C:C2	2.91	0.58
35:BD:8:VAL:O	35:BD:18:ASN:N	2.30	0.58
1:C1:1640:C:H1'	1:C1:1763:A:N1	2.18	0.58
1:C1:1760:G:C4	1:C1:1761:U:C5	2.86	0.58
1:C1:199:G:C6	1:C1:200:A:N6	2.71	0.58
1:C1:289:U:H2'	1:C1:290:G:H5''	1.85	0.58
1:C1:62:A:H2	1:C1:63:G:N7	1.99	0.58
29:D1:1292:C:O2	29:D1:1292:C:H2'	2.02	0.58
29:D1:11:A:H4'	29:D1:1558:A:C2	2.38	0.58
29:D1:1566:A:H62	29:D1:1568:U:H3	1.51	0.58
29:D1:1607:U:O2'	29:D1:1608:C:P	2.60	0.58
29:D1:1898:G:OP2	74:D1:3470:OHX:N6	2.36	0.58
29:D1:2253:G:C8	29:D1:2254:U:C5	2.91	0.58
29:D1:648:C:C5	29:D1:2374:C:O3'	2.55	0.58
29:D1:2980:U:N3	29:D1:2981:U:C5	2.71	0.58
29:D1:3042:U:C5	29:D1:3043:C:C5	2.91	0.58
29:D1:3097:C:O2'	29:D1:3098:G:OP1	2.21	0.58
29:D1:3105:U:C5	29:D1:3106:A:C5	2.91	0.58
29:D1:416:A:H61	31:D3:7:U:H3	1.51	0.58
29:D1:51:A:C2'	29:D1:52:A:H5'	2.33	0.58
29:D1:579:G:H2'	29:D1:580:C:C6	2.37	0.58
29:D1:719:U:O2'	29:D1:720:A:H8	1.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:768:C:H2'	29:D1:769:G:C5	2.38	0.58
29:D1:888:A:N1	29:D1:889:U:C2	2.71	0.58
29:D1:901:G:C4	29:D1:902:G:C8	2.91	0.58
29:D1:934:G:H5''	29:D1:935:U:OP2	2.03	0.58
29:D1:40:A:C6	29:D1:937:G:C2	2.91	0.58
29:D1:969:C:O2	29:D1:969:C:H2'	2.02	0.58
31:D3:104:A:H5'	31:D3:105:A:C5'	2.33	0.58
31:D3:117:C:H2'	31:D3:118:C:H6	1.68	0.58
31:D3:12:A:H2'	31:D3:13:A:H5'	1.84	0.58
31:D3:95:G:N2	31:D3:95:G:OP2	2.36	0.58
35:DD:39:PHE:O	35:DD:41:SER:N	2.36	0.58
29:D1:283:G:N2	54:DY:60:TYR:O	2.36	0.58
1:C1:690:G:H2'	1:C1:691:C:C5'	2.31	0.58
31:B3:56:G:O2'	31:B3:57:C:H5'	2.03	0.58
31:B3:71:A:H1'	31:B3:72:A:H5'	1.85	0.58
31:B3:96:A:H5'	31:B3:97:A:OP2	2.03	0.58
29:B1:2703:A:N6	36:BE:26:GLY:HA2	2.16	0.58
1:A1:61:A:OP1	1:A1:62:A:C8	2.56	0.58
1:A1:67:A:H4'	1:A1:68:A:OP1	2.03	0.58
30:D2:60:G:C2	30:D2:61:G:C5	2.91	0.58
1:C1:1683:C:H1'	1:C1:1720:G:O6	2.03	0.58
1:C1:1720:G:O2'	1:C1:1721:A:H5'	2.02	0.58
1:A1:1689:A:OP1	1:A1:1689:A:H4'	2.03	0.58
1:C1:1239:U:O2'	1:C1:1240:U:H5'	2.03	0.58
1:C1:1375:A:H2'	1:C1:1376:C:C2	2.38	0.58
1:C1:1503:A:C2'	1:C1:1504:G:H5'	2.33	0.58
1:C1:1552:U:N3	1:C1:1553:G:C4	2.66	0.58
1:A1:1275:A:N6	1:A1:1431:C:N3	2.51	0.58
1:A1:1508:U:O4	74:A1:1909:OHX:N6	2.36	0.58
74:A1:1935:OHX:N5	74:A1:1959:OHX:N3	2.50	0.58
1:A1:1584:G:C5	11:AJ:123:ARG:O	2.55	0.58
29:D1:3207:U:C3'	29:D1:3208:G:H5'	2.33	0.58
1:C1:1061:A:H2'	1:C1:1062:A:O4'	2.03	0.58
29:B1:380:U:H2'	29:B1:381:U:C5	2.37	0.58
29:B1:3280:U:C2	29:B1:3281:U:H5	2.20	0.58
29:B1:1246:G:OP1	29:B1:1246:G:H3'	2.03	0.58
29:D1:3282:U:HO2'	29:D1:3283:U:H5	1.47	0.58
30:B2:26:C:O2'	30:B2:27:A:O4'	2.21	0.58
29:D1:73:C:O5'	29:D1:74:G:OP2	2.21	0.58
29:D1:1229:G:H2'	29:D1:1230:G:O4'	2.03	0.58
29:D1:1277:C:O2'	29:D1:1278:A:P	2.61	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1097:G:O3'	29:D1:1098:A:C4'	2.51	0.58
29:B1:844:G:C2	29:B1:850:U:C2	2.91	0.58
2:CA:178:ALA:HA	2:CA:182:LEU:H	1.68	0.58
29:D1:3005:A:O2'	29:D1:3140:G:N2	2.35	0.58
1:A1:1754:A:O2'	1:A1:1755:A:O5'	2.20	0.58
29:D1:2592:G:H4'	29:D1:2594:C:N3	2.18	0.58
1:C1:127:G:C5	1:C1:179:A:C5	2.89	0.58
29:B1:3274:A:C1'	29:B1:3275:U:OP2	2.51	0.58
29:B1:1719:G:H4'	29:B1:1732:U:H4'	1.85	0.58
1:C1:1665:U:O4	74:C1:1993:OHX:N2	2.36	0.58
29:B1:1747:G:C2'	29:B1:1748:G:H5'	2.32	0.58
1:C1:1022:C:C4'	1:C1:1124:A:H61	2.12	0.58
34:BC:105:VAL:O	34:BC:106:TRP:C	2.39	0.58
29:B1:1540:U:H2'	29:B1:1541:G:C5'	2.33	0.58
2:AA:25:GLY:O	2:AA:26:ALA:HB3	2.03	0.58
29:D1:2553:U:O2	29:D1:2554:A:H2'	2.02	0.58
29:D1:664:U:H2'	29:D1:665:A:C8	2.38	0.58
1:A1:933:A:H62	1:A1:935:U:H1'	1.66	0.58
74:A1:1929:OHX:N5	74:A1:1979:OHX:N6	2.50	0.58
29:B1:2095:G:H2'	29:B1:2096:A:H5'	1.84	0.58
8:AG:93:LYS:O	8:AG:96:VAL:N	2.35	0.58
2:CA:80:THR:C	2:CA:82:GLY:H	2.06	0.58
46:DQ:74:LYS:O	46:DQ:75:GLU:CB	2.50	0.58
49:DT:34:TYR:O	49:DT:35:LYS:CB	2.51	0.58
16:AO:53:ILE:O	16:AO:60:LYS:N	2.36	0.58
4:CC:104:SER:O	4:CC:107:PHE:N	2.32	0.58
44:DO:29:GLU:O	44:DO:30:TYR:C	2.42	0.58
1:A1:105:A:C2	74:A1:1910:OHX:N3	2.71	0.58
1:A1:106:U:H5''	1:A1:107:C:OP2	2.03	0.58
1:A1:20:G:C2'	1:A1:21:U:H5'	2.32	0.58
1:A1:479:C:C3'	1:A1:480:G:C8	2.86	0.58
29:B1:1371:G:H8	29:B1:1371:G:H5''	1.68	0.58
29:B1:1780:G:O2'	29:B1:1781:C:P	2.62	0.58
29:B1:1898:G:N7	29:B1:1899:G:N7	2.51	0.58
29:B1:1909:A:N1	29:B1:1910:A:C2	2.71	0.58
29:B1:2915:U:C2'	29:B1:2915:U:O2	2.51	0.58
29:B1:2916:U:C5	29:B1:2935:U:O2'	2.53	0.58
29:B1:3077:A:N6	29:B1:3080:G:C5	2.71	0.58
29:B1:311:C:N4	29:B1:312:C:N4	2.51	0.58
29:B1:3141:A:C2	29:B1:3144:G:P	2.97	0.58
29:B1:3296:A:C2	29:B1:3297:U:C1'	2.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3320:A:C5	29:B1:3321:C:N4	2.71	0.58
29:B1:3394:U:H2'	29:B1:3395:G:C8	2.37	0.58
29:B1:47:C:N4	29:B1:48:A:C6	2.71	0.58
29:B1:559:A:H2'	29:B1:560:G:H5''	1.85	0.58
29:B1:89:A:C2	29:B1:90:C:C6	2.90	0.58
1:C1:140:A:OP2	1:C1:140:A:H4'	2.03	0.58
1:C1:544:A:O2'	1:C1:545:A:O5'	2.21	0.58
1:C1:618:U:C2'	1:C1:619:A:C5'	2.81	0.58
1:C1:757:A:C4	1:C1:758:U:C5	2.92	0.58
29:D1:1111:U:O2'	29:D1:1112:A:O5'	2.14	0.58
29:D1:1140:G:N3	29:D1:1141:C:C5	2.71	0.58
29:D1:1656:A:C1'	29:D1:1657:C:C5	2.87	0.58
29:D1:1784:G:C6	29:D1:1785:U:C4	2.91	0.58
29:D1:2365:C:H6	29:D1:2365:C:OP1	1.86	0.58
29:D1:2383:C:C2'	29:D1:2384:A:O5'	2.51	0.58
29:D1:3044:G:C2'	29:D1:3045:G:H5'	2.33	0.58
29:D1:3080:G:C6	29:D1:3081:C:C4	2.92	0.58
29:D1:3391:A:C2	29:D1:3392:U:C5	2.91	0.58
29:D1:384:A:C8	29:D1:385:A:N7	2.72	0.58
29:D1:504:A:C2'	29:D1:505:G:H5'	2.33	0.58
29:D1:727:G:C8	29:D1:743:C:N4	2.71	0.58
29:D1:826:G:OP1	29:D1:1590:G:O2'	2.17	0.58
29:D1:847:A:C6	29:D1:848:A:C6	2.92	0.58
40:DI:69:ARG:C	40:DI:71:VAL:N	2.53	0.58
1:A1:846:G:O2'	1:A1:847:A:O5'	2.20	0.58
29:B1:2762:A:H2'	29:B1:2763:U:H6	1.68	0.58
53:BX:75:ARG:C	53:BX:77:LYS:H	2.06	0.58
1:C1:322:G:O4'	1:C1:323:A:H8	1.85	0.58
29:D1:2672:G:O6	29:D1:2683:U:O4	2.21	0.58
1:C1:1165:G:H5''	1:C1:1166:A:OP2	2.03	0.58
1:C1:1245:G:C5	1:C1:1246:C:C5	2.92	0.58
1:C1:1352:G:H2'	1:C1:1352:G:N3	2.18	0.58
1:C1:1540:G:O2'	1:C1:1541:G:H5'	2.02	0.58
1:A1:1271:G:H2'	1:A1:1272:U:H6	1.66	0.58
1:A1:1475:A:C4	1:A1:1476:C:C6	2.91	0.58
1:A1:1515:A:C2'	1:A1:1516:A:H5''	2.32	0.58
1:C1:1056:U:H3'	1:C1:1057:U:C6	2.38	0.58
29:B1:3279:A:H2'	29:B1:3280:U:C6	2.38	0.58
29:D1:223:U:O2'	29:D1:224:C:OP1	2.21	0.58
29:D1:396:A:H4'	29:D1:397:A:OP1	2.03	0.58
29:D1:402:A:N6	46:DQ:21:TYR:CB	2.64	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3232:G:O6	29:D1:3255:U:O4	2.20	0.58
1:C1:948:G:H2'	1:C1:949:C:C6	2.38	0.58
29:B1:2515:A:H3'	29:B1:2516:U:H5	1.69	0.58
29:D1:3356:G:H2'	29:D1:3357:U:C4'	2.33	0.58
29:B1:334:A:N3	29:B1:335:G:C8	2.71	0.58
36:DE:272:TYR:N	36:DE:273:ARG:HA	2.00	0.58
29:D1:126:U:O2'	29:D1:127:G:H8	1.75	0.58
1:A1:1408:G:H1'	1:A1:1409:G:N2	2.18	0.58
30:B2:121:U:H3'	36:BE:263:GLU:O	2.02	0.58
29:B1:1666:G:O2'	29:B1:1667:A:H5'	2.03	0.58
29:B1:1013:G:H2'	29:B1:1015:U:OP2	2.02	0.58
1:C1:1733:C:H2'	1:C1:1734:U:O4'	2.03	0.58
29:B1:1021:G:H2'	29:B1:1022:U:C6	2.38	0.58
29:D1:1639:C:H2'	29:D1:1640:G:O5'	2.03	0.58
29:B1:3179:U:OP2	29:B1:3179:U:H2'	2.03	0.58
1:C1:760:A:C2	1:C1:791:A:C4	2.91	0.58
1:A1:570:A:H61	17:AP:116:ASP:CB	2.16	0.58
34:DC:164:THR:O	34:DC:165:GLN:CB	2.51	0.58
29:B1:2571:U:H2'	29:B1:2572:C:H5'	1.85	0.58
29:D1:3165:A:O2'	29:D1:3166:C:H5'	2.03	0.58
17:CP:61:SER:CB	17:CP:67:ALA:H	2.16	0.58
1:C1:575:C:H5''	1:C1:576:G:OP2	2.02	0.58
46:BQ:28:ASN:C	46:BQ:30:ARG:N	2.55	0.58
52:DW:55:ASN:O	52:DW:57:LEU:O	2.21	0.58
42:BK:65:ILE:O	42:BK:66:ALA:CB	2.51	0.58
40:DI:157:ASN:O	40:DI:158:ALA:C	2.42	0.58
36:BE:116:ASP:C	36:BE:118:THR:H	2.05	0.58
1:A1:920:U:H6	1:A1:920:U:OP2	1.87	0.58
36:DE:156:GLY:CA	36:DE:181:PRO:HA	2.33	0.58
34:BC:247:ARG:O	34:BC:248:LYS:CB	2.51	0.58
34:BC:116:ARG:O	34:BC:117:ARG:CB	2.51	0.58
40:DI:117:PHE:O	40:DI:118:LEU:C	2.41	0.58
41:BJ:91:VAL:O	41:BJ:92:HIS:CB	2.51	0.58
3:CB:185:LYS:O	3:CB:186:LYS:C	2.41	0.58
41:DJ:34:TYR:O	41:DJ:35:ASP:CB	2.51	0.58
36:BE:170:GLY:O	36:BE:171:LEU:O	2.22	0.58
36:BE:53:VAL:CB	36:BE:62:CYS:HA	2.34	0.58
1:A1:1031:U:H4'	1:A1:1032:G:OP2	2.02	0.58
1:A1:1061:A:H2'	1:A1:1062:A:O4'	2.03	0.58
1:A1:1087:A:C3'	1:A1:1088:A:H8	2.12	0.58
1:A1:426:G:C6	1:A1:427:C:N4	2.71	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1298:C:C4	29:B1:1299:U:C5	2.92	0.58
29:B1:1602:A:C5	29:B1:1603:A:C6	2.91	0.58
29:B1:163:C:H5'	29:B1:164:A:OP2	2.03	0.58
29:B1:1898:G:C8	29:B1:1899:G:N7	2.72	0.58
29:B1:2290:C:C2	29:B1:2303:A:C2	2.90	0.58
29:B1:2896:A:O2'	29:B1:2897:A:O5'	2.21	0.58
29:B1:3107:U:H2'	29:B1:3108:G:C8	2.37	0.58
29:B1:323:A:H5'	29:B1:324:A:OP2	2.04	0.58
29:B1:3343:G:C8	29:B1:3344:A:N7	2.71	0.58
29:B1:2248:C:OP2	74:B1:3404:OHX:N3	2.36	0.58
29:B1:579:G:H2'	29:B1:580:C:C6	2.38	0.58
29:B1:883:A:C6	29:B1:921:A:C5	2.91	0.58
37:BF:21:THR:H	37:BF:112:THR:HA	1.66	0.58
1:C1:1005:A:H2'	1:C1:1006:C:O4'	2.02	0.58
1:C1:1102:G:C2'	1:C1:1103:U:O5'	2.51	0.58
1:C1:176:C:H3'	1:C1:177:U:H6	1.69	0.58
1:C1:142:G:C6	1:C1:266:A:N7	2.70	0.58
1:C1:389:G:C4	1:C1:390:G:N7	2.71	0.58
1:C1:635:A:C2	1:C1:863:A:C8	2.91	0.58
1:C1:954:G:C5	1:C1:955:A:N7	2.71	0.58
1:C1:986:G:N3	1:C1:987:G:C8	2.71	0.58
29:D1:9:U:C4	29:D1:10:C:C5	2.91	0.58
29:D1:1121:U:H2'	29:D1:1122:U:C6	2.38	0.58
29:D1:283:G:H2'	29:D1:285:A:N7	2.19	0.58
29:D1:2900:A:C2	29:D1:2901:G:C4	2.91	0.58
29:D1:2888:U:C2	29:D1:2911:A:C6	2.90	0.58
29:D1:3094:A:H2'	29:D1:3095:U:H6	1.68	0.58
29:D1:380:U:C2	29:D1:381:U:C5	2.91	0.58
29:D1:385:A:H2'	29:D1:386:A:H8	1.65	0.58
29:D1:412:G:C2	29:D1:413:U:C2	2.91	0.58
29:D1:423:A:N1	29:D1:424:G:C2	2.71	0.58
29:D1:596:C:C3'	29:D1:597:G:H5''	2.31	0.58
29:D1:720:A:H8	29:D1:720:A:P	2.26	0.58
29:D1:878:G:H2'	29:D1:2980:U:O2'	2.03	0.58
29:D1:915:A:H8	29:D1:916:G:H4'	1.67	0.58
44:DO:82:GLY:HA3	44:DO:87:GLN:CB	2.33	0.58
1:A1:848:C:H2'	1:A1:849:C:C6	2.37	0.58
1:C1:749:U:OP1	16:CO:82:LYS:CB	2.51	0.58
29:B1:2665:U:N3	29:B1:2706:G:N1	2.51	0.58
30:B2:66:A:C8	30:B2:66:A:OP2	2.56	0.58
49:DT:31:LEU:O	49:DT:32:LYS:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:248:U:C4'	1:C1:249:U:OP1	2.52	0.58
29:B1:2675:C:C5	29:B1:2676:A:C6	2.88	0.58
1:A1:113:U:C5'	1:A1:114:C:H5'	2.25	0.58
1:A1:1690:G:N2	1:A1:1713:G:H1	2.00	0.58
1:A1:795:U:C5	1:A1:796:A:C5	2.92	0.58
1:C1:1228:G:N7	1:C1:1229:G:N7	2.51	0.58
1:C1:1242:A:O4'	10:CI:78:THR:HA	2.03	0.58
1:A1:1196:A:N7	1:A1:1602:C:H4'	2.18	0.58
1:A1:1449:U:H2'	1:A1:1450:U:O5'	2.03	0.58
1:A1:1467:C:H2'	1:A1:1468:U:C6	2.38	0.58
1:A1:1521:G:N1	74:A1:1943:OHX:N4	2.52	0.58
30:D2:26:C:O2'	30:D2:27:A:O5'	2.21	0.58
29:D1:3171:U:O2'	29:D1:3172:A:OP2	2.22	0.58
29:D1:3225:C:H5	74:D1:3489:OHX:N6	2.01	0.58
29:B1:73:C:C5	29:B1:74:G:C8	2.91	0.58
1:C1:1407:U:C6	1:C1:1408:G:H8	2.20	0.58
1:C1:1751:C:H2'	1:C1:1751:C:O2	2.02	0.58
1:C1:181:A:C6	1:C1:182:A:N1	2.71	0.58
29:D1:645:A:C8	29:D1:649:A:C6	2.92	0.58
30:D2:3:U:N3	30:D2:4:U:C5	2.72	0.58
29:D1:1915:A:O2'	29:D1:1916:U:H5'	2.03	0.58
29:D1:1933:A:C8	29:D1:1934:G:C8	2.91	0.58
1:C1:1281:G:H4'	15:CN:75:GLY:HA2	1.83	0.58
29:D1:1353:U:C5	29:D1:1355:A:N6	2.71	0.58
29:B1:3179:U:H6	29:B1:3179:U:O5'	1.87	0.58
29:D1:2181:C:H2'	29:D1:2182:A:O5'	2.03	0.58
29:D1:2746:A:H2'	29:D1:2747:A:O4'	2.03	0.58
42:DK:87:LYS:O	42:DK:89:TYR:N	2.36	0.58
47:DR:45:ASN:O	47:DR:46:LYS:C	2.42	0.58
29:D1:2117:A:H3'	29:D1:2118:C:C5	2.37	0.58
1:C1:1501:C:H2'	1:C1:1502:G:C5'	2.33	0.58
72:DL:88:PRO:O	72:DL:90:ARG:N	2.36	0.58
39:DH:205:ALA:H	39:DH:206:GLU:C	2.06	0.58
47:DR:144:ARG:O	47:DR:145:ASN:O	2.20	0.58
73:DM:55:LYS:O	73:DM:59:VAL:N	2.35	0.58
1:A1:1008:G:H5'	1:A1:1009:U:OP2	2.02	0.58
1:A1:1120:U:C2	1:A1:1121:C:C5	2.92	0.58
1:A1:1139:A:H2'	1:A1:1140:G:C5'	2.34	0.58
1:A1:1744:A:H2'	1:A1:1745:G:H5'	1.85	0.58
1:A1:33:U:H6	1:A1:33:U:H3'	1.68	0.58
1:A1:50:C:C2	1:A1:424:C:C5	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1377:G:N3	29:B1:1378:U:C6	2.71	0.58
29:B1:1412:G:H2'	29:B1:1413:G:H8	1.68	0.58
29:B1:1449:A:H2'	29:B1:1450:G:O4'	2.03	0.58
29:B1:1453:A:O4'	29:B1:1850:A:N1	2.36	0.58
29:B1:156:G:N7	29:B1:157:A:H1'	2.18	0.58
29:B1:1662:G:H2'	29:B1:1663:C:H6	1.69	0.58
29:B1:1779:C:OP1	29:B1:1780:G:OP1	2.22	0.58
29:B1:1841:A:C2	29:B1:1848:G:C8	2.91	0.58
29:B1:1454:A:O5'	29:B1:1878:G:N1	2.37	0.58
29:B1:2393:G:C5	29:B1:2982:A:C2	2.91	0.58
29:B1:23:A:H3'	29:B1:24:G:C8	2.35	0.58
29:B1:2609:A:N3	29:B1:2610:G:C8	2.71	0.58
29:B1:1901:A:O2'	29:B1:2918:G:O5'	2.22	0.58
29:B1:310:U:H3'	29:B1:311:C:H5''	1.85	0.58
29:B1:3160:U:C4	29:B1:3161:C:N4	2.71	0.58
29:B1:498:A:O2'	29:B1:499:G:H5'	2.03	0.58
29:B1:52:A:C2'	29:B1:53:G:O5'	2.50	0.58
29:B1:543:C:C3'	29:B1:544:C:H5'	2.33	0.58
29:B1:548:G:OP2	29:B1:548:G:H8	1.87	0.58
29:B1:703:G:N3	29:B1:703:G:C2'	2.60	0.58
29:B1:812:G:H2'	29:B1:813:G:H8	1.68	0.58
31:B3:118:C:H2'	31:B3:118:C:O2	2.02	0.58
35:BD:153:SER:C	35:BD:155:ASP:H	2.05	0.58
1:C1:1140:G:C2	1:C1:1141:G:N7	2.72	0.58
1:C1:38:C:C3'	1:C1:39:A:H5''	2.33	0.58
1:C1:974:A:C5'	29:D1:848:A:O2'	2.51	0.58
29:D1:1546:A:N7	29:D1:1547:G:C5	2.71	0.58
29:D1:1551:C:H2'	29:D1:1552:G:C8	2.38	0.58
29:D1:13:A:H2	29:D1:15:C:H3'	1.69	0.58
29:D1:2149:A:C2'	29:D1:2150:G:O5'	2.52	0.58
29:D1:2144:A:N3	29:D1:2281:A:N6	2.51	0.58
29:D1:2342:U:O2'	29:D1:2343:C:H5'	2.03	0.58
29:D1:2904:U:H2'	29:D1:2904:U:O2	2.02	0.58
29:D1:2894:C:C2	29:D1:2908:G:C2	2.91	0.58
29:D1:2917:G:O2'	29:D1:2918:G:O5'	2.21	0.58
29:D1:2933:A:N7	29:D1:2934:A:C6	2.71	0.58
29:D1:269:G:N1	29:D1:294:U:C5	2.71	0.58
29:D1:3021:A:C4	29:D1:3023:U:C4	2.91	0.58
29:D1:340:C:C5'	29:D1:340:C:H6	2.15	0.58
29:D1:386:A:C2'	29:D1:387:A:O5'	2.51	0.58
29:D1:955:U:N3	29:D1:956:U:C4	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:949:C:O2	29:D1:971:G:H5''	2.02	0.58
31:D3:106:C:O4'	31:D3:138:A:H8	1.86	0.58
34:DC:41:VAL:CB	34:DC:186:GLY:H	2.16	0.58
38:DG:53:LYS:O	38:DG:54:GLU:C	2.40	0.58
29:D1:2355:G:OP1	46:DQ:141:SER:CB	2.52	0.58
1:A1:647:G:C2	1:A1:687:G:N2	2.71	0.58
30:B2:15:C:N4	30:B2:16:U:C4	2.71	0.58
31:B3:53:A:H2'	31:B3:54:A:H8	1.68	0.58
31:B3:90:U:H2'	31:B3:91:C:C6	2.38	0.58
35:BD:63:GLU:O	35:BD:75:PRO:CA	2.46	0.58
30:D2:68:C:C2'	30:D2:69:C:O4'	2.51	0.58
29:D1:2677:G:N2	29:D1:2679:A:N3	2.52	0.58
29:D1:2678:A:H3'	29:D1:2679:A:N3	2.18	0.58
1:C1:1371:A:N1	1:C1:1372:U:C4	2.71	0.58
1:C1:1468:U:HO2'	1:C1:1469:A:C5'	2.15	0.58
1:C1:1570:A:H3'	1:C1:1571:C:C6	2.38	0.58
1:A1:1209:C:C2	1:A1:1455:G:N2	2.72	0.58
1:A1:1446:A:O2'	1:A1:1448:G:N7	2.30	0.58
1:A1:1243:G:N2	1:A1:1452:U:H4'	2.17	0.58
1:A1:1554:U:H5'	1:A1:1555:A:OP2	2.03	0.58
29:D1:3182:G:N2	29:D1:3189:G:OP1	2.32	0.58
29:B1:3241:G:N2	29:B1:3246:G:C2	2.68	0.58
29:D1:377:A:H1'	29:D1:392:G:N2	2.19	0.58
29:D1:397:A:H4'	29:D1:398:A:H5'	1.84	0.58
29:D1:3262:U:O2	29:D1:3263:G:C8	2.57	0.58
30:D2:42:A:H2	30:D2:47:C:C5	2.21	0.58
29:B1:2515:A:H3'	29:B1:2516:U:C5	2.37	0.58
29:D1:1627:U:C5	29:D1:1628:C:N3	2.71	0.58
1:C1:1322:A:H2'	1:C1:1323:C:H6	1.68	0.58
1:C1:1410:A:N7	1:C1:1411:A:C4	2.71	0.58
36:DE:241:THR:C	36:DE:243:ALA:H	2.06	0.58
29:B1:3180:A:C2	45:BP:166:GLU:CB	2.86	0.58
1:A1:240:U:O2'	1:A1:241:U:H5'	2.04	0.58
29:D1:661:G:N1	29:D1:802:C:C5	2.71	0.58
1:A1:697:C:C3'	1:A1:698:U:C5'	2.82	0.58
17:CP:46:SER:C	17:CP:48:HIS:H	2.06	0.58
1:A1:743:U:C5	1:A1:809:A:C2	2.91	0.58
42:BK:133:ARG:CA	42:BK:155:THR:H	2.15	0.58
29:D1:2217:U:O2'	29:D1:2218:G:H5'	2.03	0.58
29:D1:2568:C:C2'	29:D1:2569:A:H4'	2.33	0.58
42:DK:65:ILE:O	42:DK:66:ALA:CB	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AH:118:VAL:O	9:AH:119:THR:C	2.42	0.58
36:BE:222:LEU:O	36:BE:224:LYS:N	2.37	0.58
39:BH:205:ALA:H	39:BH:206:GLU:C	2.07	0.58
13:AL:116:LEU:O	13:AL:118:LYS:N	2.36	0.58
73:DM:36:GLN:C	73:DM:38:MET:N	2.56	0.58
43:DN:28:SER:O	43:DN:29:ALA:HB2	2.02	0.58
15:AN:97:VAL:C	15:AN:99:ILE:H	2.05	0.58
1:A1:1092:A:N3	1:A1:1094:G:N7	2.51	0.58
1:A1:1627:U:O2'	1:A1:1628:U:O5'	2.21	0.58
1:A1:1653:C:N4	1:A1:1654:G:C6	2.70	0.58
1:A1:23:G:C5	1:A1:24:U:C5	2.91	0.58
1:A1:534:A:C3'	1:A1:535:A:C8	2.86	0.58
1:A1:542:A:HO2'	1:A1:543:C:H3'	1.66	0.58
1:A1:623:A:H2	1:A1:1105:C:O2'	1.85	0.58
1:A1:975:C:H2'	1:A1:976:G:H8	1.69	0.58
29:B1:115:A:H2'	29:B1:116:A:C2	2.39	0.58
29:B1:1415:U:C2'	29:B1:1416:C:H6	1.86	0.58
29:B1:158:G:C8	29:B1:159:A:H4'	2.38	0.58
29:B1:1604:G:C6	29:B1:1605:A:C5	2.91	0.58
29:B1:2253:G:C5	29:B1:2254:U:N3	2.72	0.58
29:B1:2270:A:C8	29:B1:2270:A:C5'	2.76	0.58
29:B1:114:A:C2	29:B1:267:G:C2	2.92	0.58
29:B1:431:U:O2'	29:B1:432:G:O5'	2.21	0.58
29:B1:609:G:N7	29:B1:610:G:C6	2.71	0.58
29:B1:807:A:C5'	29:B1:808:A:OP2	2.45	0.58
29:B1:873:C:H3'	29:B1:874:U:H4'	1.85	0.58
29:B1:882:A:H2	29:B1:885:U:C6	2.22	0.58
1:C1:1147:A:C2	1:C1:1148:C:C2	2.91	0.58
1:C1:448:C:C2	1:C1:449:C:C5	2.91	0.58
1:C1:450:U:H5''	1:C1:451:A:OP2	2.03	0.58
29:D1:1149:G:H3'	29:D1:1150:A:H5''	1.84	0.58
29:D1:1156:C:H5''	29:D1:1157:G:OP2	2.03	0.58
29:D1:1196:C:H5	29:D1:1197:A:C5	2.20	0.58
29:D1:1376:C:C4	29:D1:1377:G:N7	2.72	0.58
29:D1:1597:C:H5'	29:D1:1696:A:H1'	1.84	0.58
29:D1:2370:G:H2'	29:D1:2371:G:H8	1.68	0.58
29:D1:2916:U:C5	29:D1:2935:U:C2	2.91	0.58
29:D1:2933:A:N6	29:D1:2934:A:N1	2.51	0.58
29:D1:3045:G:H2'	29:D1:3046:A:O4'	2.03	0.58
29:D1:3292:A:O2'	29:D1:3293:U:O3'	2.16	0.58
29:D1:3309:G:C5	29:D1:3310:A:H1'	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:361:A:O2'	29:D1:362:U:C4'	2.52	0.58
29:D1:512:U:N1	29:D1:579:G:N2	2.52	0.58
29:D1:608:A:H3'	29:D1:608:A:H8	1.68	0.58
29:D1:776:U:C3'	29:D1:777:U:C5'	2.81	0.58
29:D1:88:A:C5	29:D1:99:A:N6	2.71	0.58
29:D1:927:C:O2'	29:D1:928:C:H5'	2.03	0.58
29:B1:2617:U:H4'	29:B1:2644:C:C5	2.39	0.58
30:B2:9:C:H5	30:B2:10:C:O2	1.83	0.58
1:A1:64:U:O2	1:A1:64:U:C2'	2.51	0.58
1:A1:1720:G:C5	1:A1:1721:A:C4	2.91	0.58
1:A1:1722:A:H5'	1:A1:1723:U:C5	2.39	0.58
1:C1:1203:A:C4	1:C1:1555:A:N1	2.72	0.58
1:A1:1167:G:H2'	1:A1:1167:G:N3	2.19	0.58
1:A1:1347:U:H2'	1:A1:1349:G:C5	2.39	0.58
43:BN:88:ALA:O	43:BN:90:VAL:N	2.37	0.58
29:D1:3186:A:H4'	29:D1:3187:A:O5'	2.02	0.58
29:D1:185:C:H2'	29:D1:186:U:C6	2.38	0.58
29:B1:1268:G:N7	29:B1:1269:U:H1'	2.17	0.58
30:B2:25:G:C4	30:B2:26:C:N4	2.71	0.58
30:D2:43:U:H2'	30:D2:44:C:H5'	1.84	0.58
30:D2:46:A:C8	30:D2:47:C:C5	2.91	0.58
29:B1:344:A:C5	29:B1:345:G:N7	2.72	0.58
1:C1:1650:U:H2'	1:C1:1651:A:C8	2.39	0.58
34:BC:154:TYR:CB	34:BC:155:ALA:HA	2.33	0.58
29:D1:3268:A:O3'	29:D1:3269:U:H4'	2.04	0.58
29:D1:2119:A:N7	29:D1:2120:A:C2	2.71	0.58
29:D1:252:U:H3'	29:D1:253:A:C5'	2.33	0.58
1:A1:722:G:H2'	1:A1:722:G:N3	2.19	0.58
29:B1:802:C:C2	29:B1:803:C:C5	2.91	0.58
29:B1:802:C:H2'	29:B1:803:C:H6	1.68	0.58
39:BH:208:GLU:O	39:BH:209:ALA:C	2.42	0.58
1:A1:238:U:O5'	1:A1:239:C:H3'	2.02	0.58
7:CF:122:ILE:N	7:CF:144:ALA:HB3	2.16	0.58
54:DY:134:ALA:O	54:DY:135:GLU:C	2.41	0.58
46:DQ:28:ASN:O	46:DQ:30:ARG:N	2.35	0.58
13:CL:76:PRO:CA	13:CL:81:ILE:H	2.16	0.58
29:D1:1357:G:H2'	29:D1:1357:G:N3	2.18	0.58
29:B1:1530:U:O2	29:B1:1530:U:C2'	2.52	0.58
72:DL:24:ALA:HB3	72:DL:27:ALA:HB3	1.85	0.58
41:DJ:77:THR:O	41:DJ:79:VAL:N	2.36	0.58
13:AL:26:ILE:O	13:AL:27:LYS:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DI:116:ASN:C	40:DI:120:ASP:H	2.06	0.58
73:DM:56:ASN:HA	73:DM:59:VAL:CB	2.33	0.58
50:DU:81:GLN:O	50:DU:82:ALA:HB2	2.03	0.58
33:DB:223:SER:O	33:DB:236:GLY:O	2.22	0.58
16:CO:103:ILE:HA	16:CO:112:ASP:HA	1.85	0.58
8:AG:142:GLU:C	8:AG:144:ALA:H	2.07	0.58
12:AK:7:LYS:C	12:AK:9:VAL:H	2.07	0.58
74:B1:3524:OHX:N1	74:B1:3616:OHX:N5	2.52	0.58
39:DH:178:ALA:O	39:DH:180:VAL:N	2.36	0.58
1:A1:1000:C:H2'	1:A1:1002:G:N7	2.18	0.58
1:A1:1139:A:H2'	1:A1:1140:G:O4'	2.03	0.58
1:A1:425:A:H8	1:A1:425:A:H5'	1.68	0.58
1:A1:480:G:C4	1:A1:481:A:C8	2.91	0.58
29:B1:1104:G:H2'	29:B1:1105:A:O4'	2.03	0.58
29:B1:1106:G:C5	29:B1:1107:C:C5	2.91	0.58
29:B1:1131:G:N3	29:B1:2373:A:C2	2.71	0.58
29:B1:1224:C:O2'	29:B1:1225:A:O5'	2.21	0.58
29:B1:1194:G:C4'	29:B1:1320:C:OP1	2.52	0.58
29:B1:1367:G:O2'	29:B1:1368:U:P	2.62	0.58
29:B1:2136:C:O2	29:B1:2136:C:H2'	2.03	0.58
29:B1:422:A:H3'	29:B1:2364:G:H5''	1.86	0.58
29:B1:2611:U:C2'	29:B1:2612:U:C6	2.74	0.58
29:B1:2664:C:O2	29:B1:2664:C:H2'	2.03	0.58
29:B1:280:U:C6	29:B1:282:G:OP2	2.56	0.58
29:B1:3003:G:C2	29:B1:3004:C:C5	2.90	0.58
29:B1:3044:G:O2'	29:B1:3045:G:H5'	2.03	0.58
29:B1:3055:U:O3'	29:B1:3056:U:C5	2.56	0.58
29:B1:3153:U:O5'	29:B1:3153:U:H6	1.86	0.58
29:B1:3387:U:H2'	29:B1:3388:C:H5	1.62	0.58
29:B1:783:A:N6	74:B1:3483:OHX:N5	2.51	0.58
29:B1:722:G:O2'	29:B1:723:U:P	2.62	0.58
29:B1:747:A:C6	29:B1:748:U:H5	2.22	0.58
29:B1:826:G:H21	29:B1:1589:A:N6	1.92	0.58
29:B1:858:A:H3'	29:B1:859:G:H8	1.67	0.58
29:B1:933:A:H3'	29:B1:934:G:H5'	1.84	0.58
31:B3:42:G:C2	31:B3:43:A:C8	2.91	0.58
1:C1:1087:A:HO2'	1:C1:1142:A:HO2'	1.50	0.58
1:C1:196:G:H1'	1:C1:197:A:H5'	1.86	0.58
1:C1:354:C:OP2	74:C1:1908:OHX:N5	2.37	0.58
1:C1:426:G:H21	1:C1:459:G:H2'	1.68	0.58
1:C1:449:C:H2'	1:C1:450:U:C6	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:990:C:H4'	9:CH:127:ARG:O	2.04	0.58
29:D1:1472:U:O2'	29:D1:1473:G:H5'	2.03	0.58
29:D1:154:U:P	29:D1:156:G:O6	2.60	0.58
29:D1:2143:A:O2'	29:D1:2144:A:H5'	2.03	0.58
29:D1:2300:G:C6	29:D1:2301:U:C4	2.92	0.58
29:D1:2640:A:C5	29:D1:2641:U:C4	2.91	0.58
29:D1:2749:G:N7	29:D1:2750:U:C5	2.72	0.58
29:D1:2407:C:C2	29:D1:2815:G:N2	2.72	0.58
29:D1:2912:G:C6	29:D1:2913:C:O2	2.57	0.58
29:D1:3378:C:C2'	29:D1:3378:C:O2	2.48	0.58
29:D1:3392:U:N3	29:D1:3393:U:N3	2.51	0.58
29:D1:557:A:C8	29:D1:557:A:C3'	2.86	0.58
29:D1:528:U:O4	29:D1:564:G:O6	2.20	0.58
29:D1:733:G:N2	29:D1:736:A:N1	2.52	0.58
29:D1:773:G:H21	29:D1:774:G:H1'	1.68	0.58
29:D1:773:G:O2'	29:D1:774:G:O4'	2.21	0.58
31:D3:113:U:HO2'	31:D3:114:G:P	2.26	0.58
1:A1:699:U:H5'	1:A1:700:C:P	2.43	0.58
1:A1:828:U:O2'	1:A1:829:A:H5'	2.03	0.58
1:C1:649:U:O4	1:C1:685:A:N1	2.37	0.58
30:B2:64:A:C1'	30:B2:65:G:H5''	2.32	0.58
31:B3:74:U:H4'	31:B3:89:A:N3	2.18	0.58
1:A1:269:G:H2'	1:A1:270:C:C6	2.38	0.58
1:C1:1227:A:H4'	1:C1:1230:A:N6	2.17	0.58
1:C1:1554:U:H5'	1:C1:1555:A:OP2	2.02	0.58
1:C1:1584:G:C5	11:CJ:123:ARG:O	2.56	0.58
1:A1:1199:G:C5	1:A1:1200:G:C1'	2.87	0.58
1:A1:1228:G:N7	1:A1:1229:G:N7	2.51	0.58
1:A1:1345:A:N7	1:A1:1347:U:N3	2.51	0.58
1:A1:1540:G:C5	1:A1:1541:G:C5	2.92	0.58
74:A1:1935:OHX:N2	74:A1:1959:OHX:N6	2.51	0.58
29:B1:3277:U:H3'	29:B1:3277:U:C6	2.39	0.58
29:B1:3190:C:O2	29:B1:3190:C:C2'	2.51	0.58
29:B1:3202:G:P	29:B1:3202:G:H3'	2.43	0.58
29:D1:3191:G:C2	29:D1:3202:G:N3	2.71	0.58
30:B2:48:U:C5	30:B2:49:G:O6	2.57	0.58
29:D1:400:G:H5''	29:D1:403:C:H1'	1.85	0.58
29:D1:3218:A:HO2'	29:D1:3219:G:P	2.25	0.58
29:B1:341:G:O2'	31:B3:22:U:O4	2.21	0.58
29:B1:1063:G:C5'	29:B1:1098:A:P	2.89	0.58
1:A1:1410:A:N6	1:A1:1411:A:C2	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2174:G:OP1	29:D1:2174:G:C8	2.53	0.58
29:D1:1731:A:C6	29:D1:1732:U:C2	2.91	0.58
1:C1:773:C:H4'	1:C1:774:A:OP1	2.03	0.58
1:C1:1123:C:C2'	1:C1:1124:A:O5'	2.51	0.58
29:B1:1382:G:H2'	29:B1:1383:G:O4'	2.03	0.58
29:B1:1584:U:O2'	29:B1:1585:C:H5'	2.03	0.58
47:BR:43:PRO:C	47:BR:45:ASN:N	2.57	0.58
34:BC:196:ARG:O	34:BC:197:GLU:O	2.21	0.58
29:B1:3050:U:H5''	29:B1:3051:U:OP2	2.04	0.58
29:D1:244:G:C5	29:D1:245:U:O2	2.56	0.58
19:CR:25:VAL:C	19:CR:38:ARG:HA	2.23	0.58
29:B1:792:G:H2'	29:B1:793:C:C6	2.38	0.58
15:CN:24:ILE:HA	15:CN:115:GLU:O	2.03	0.58
35:BD:237:GLN:O	35:BD:239:ALA:N	2.35	0.58
1:A1:1082:C:C5	1:A1:1083:G:N7	2.71	0.58
16:CO:125:ILE:O	16:CO:127:GLY:N	2.37	0.58
1:C1:1082:C:C5	1:C1:1083:G:N7	2.72	0.58
29:B1:1753:G:N3	29:B1:1754:G:C8	2.71	0.58
44:DO:99:ARG:O	44:DO:102:ALA:HB3	2.03	0.58
1:A1:1762:A:OP1	1:A1:1763:A:OP2	2.22	0.58
1:A1:365:G:OP2	1:A1:365:G:H8	1.85	0.58
1:A1:482:U:H2'	1:A1:483:A:C8	2.39	0.58
1:A1:487:G:C2	1:A1:488:G:N7	2.71	0.58
1:A1:635:A:C4	1:A1:863:A:C8	2.92	0.58
1:A1:955:A:C2	1:A1:956:C:C2	2.91	0.58
29:B1:1153:A:C8	29:B1:1154:A:C5	2.91	0.58
29:B1:153:U:C3'	29:B1:158:G:H21	2.17	0.58
29:B1:156:G:H1'	29:B1:157:A:C4'	2.33	0.58
29:B1:1659:U:C2	29:B1:1660:C:C5	2.91	0.58
29:B1:2149:A:C8	29:B1:2149:A:H3'	2.39	0.58
29:B1:225:C:H2'	29:B1:226:C:H6	1.68	0.58
29:B1:2343:C:H2'	29:B1:2344:U:C6	2.39	0.58
29:B1:2386:A:C8	29:B1:2387:A:C8	2.92	0.58
29:B1:3065:G:H2'	29:B1:3066:U:C6	2.37	0.58
29:B1:3102:G:C5'	29:B1:3102:G:H8	2.14	0.58
29:B1:762:U:O4	74:B1:3479:OHX:N6	2.35	0.58
29:B1:40:A:H3'	29:B1:41:G:H5'	1.86	0.58
29:B1:424:G:C2'	29:B1:425:G:OP1	2.52	0.58
29:B1:677:A:N6	29:B1:786:A:O2'	2.36	0.58
29:B1:760:G:H2'	29:B1:761:A:C8	2.38	0.58
29:B1:776:U:C6	29:B1:777:U:C1'	2.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:776:U:C3'	29:B1:777:U:C5'	2.80	0.58
29:B1:934:G:C5	29:B1:935:U:C4	2.92	0.58
29:B1:934:G:N3	29:B1:935:U:C6	2.72	0.58
29:B1:974:G:C6	29:B1:975:C:C4	2.92	0.58
54:BY:29:PRO:O	54:BY:30:GLY:C	2.42	0.58
1:C1:1046:G:C5	1:C1:1073:G:N2	2.72	0.58
1:C1:173:A:N6	1:C1:174:U:C5	2.71	0.58
1:C1:176:C:H3'	1:C1:177:U:C6	2.39	0.58
1:C1:362:G:C6	1:C1:363:G:C5	2.91	0.58
1:C1:50:C:N3	1:C1:424:C:C5	2.72	0.58
1:C1:623:A:N1	1:C1:1105:C:H4'	2.18	0.58
1:C1:80:A:N3	1:C1:80:A:H2'	2.18	0.58
1:C1:89:G:O6	74:C1:1995:OHX:N6	2.37	0.58
29:D1:1332:A:H8	29:D1:1332:A:O5'	1.87	0.58
29:D1:1656:A:C4	29:D1:1657:C:N4	2.71	0.58
29:D1:1660:C:O2'	29:D1:1661:G:C8	2.56	0.58
29:D1:2143:A:N7	29:D1:2145:A:C5	2.72	0.58
29:D1:2777:G:C2'	29:D1:2777:G:N3	2.63	0.58
29:D1:2808:A:H4'	29:D1:2809:C:C5'	2.33	0.58
29:D1:3027:A:C5	29:D1:3028:G:C5	2.92	0.58
29:D1:3062:G:C6	29:D1:3063:C:C4	2.91	0.58
29:D1:311:C:C4	29:D1:312:C:C5	2.90	0.58
29:D1:572:A:C6	29:D1:573:C:C4	2.92	0.58
29:D1:934:G:N3	29:D1:935:U:C6	2.72	0.58
29:D1:963:G:C3'	29:D1:963:G:C8	2.87	0.58
31:D3:109:A:H2'	31:D3:110:C:H5'	1.84	0.58
31:D3:121:U:H3	31:D3:132:G:H1	1.49	0.58
29:D1:341:G:O2'	31:D3:22:U:O4	2.21	0.58
33:DB:198:LYS:O	33:DB:200:ARG:N	2.36	0.58
1:A1:217:A:H1'	1:A1:218:A:C5'	2.33	0.58
29:B1:2698:G:C3'	29:B1:2699:G:H5''	2.33	0.58
30:B2:10:C:O2'	30:B2:13:A:C8	2.56	0.58
29:D1:999:G:C6	29:D1:1000:C:N4	2.72	0.58
30:D2:105:C:H2'	30:D2:106:U:C5'	2.34	0.58
30:D2:9:C:O2'	30:D2:13:A:N6	2.37	0.58
1:C1:1689:A:OP1	1:C1:1689:A:H4'	2.01	0.58
1:C1:335:U:H3'	1:C1:336:G:N7	2.15	0.58
1:A1:214:G:C2'	1:A1:215:A:H5'	2.33	0.58
14:CM:67:MET:O	14:CM:69:LYS:C	2.42	0.58
1:A1:1275:A:OP1	1:A1:1275:A:H8	1.85	0.58
1:A1:1352:G:N3	1:A1:1352:G:H2'	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1526:A:H8	1:A1:1526:A:O5'	1.87	0.58
1:A1:1541:G:C5	1:A1:1542:G:C6	2.92	0.58
1:A1:1598:U:C5	1:A1:1599:C:C5	2.92	0.58
30:B2:85:G:O6	30:B2:95:A:N1	2.37	0.58
29:B1:3020:U:H2'	29:B1:3021:A:C8	2.39	0.58
29:D1:199:A:C2	29:D1:201:A:C8	2.92	0.58
1:A1:693:U:H3'	1:A1:694:U:H5'	1.86	0.58
29:D1:1271:A:N6	29:D1:1272:C:N4	2.52	0.58
4:CC:15:GLY:HA2	20:CS:49:ASP:O	2.04	0.58
29:D1:1630:U:H3'	29:D1:1813:A:N1	2.19	0.58
1:C1:1391:A:C4	1:C1:1392:U:C5	2.92	0.58
1:C1:1418:G:C2'	1:C1:1419:G:H5'	2.33	0.58
2:CA:109:ASN:O	2:CA:111:ILE:O	2.21	0.58
29:B1:1079:A:H8	29:B1:1079:A:OP1	1.87	0.58
29:D1:3143:C:OP2	29:D1:3144:G:H5''	2.04	0.58
29:B1:2352:A:H2'	29:B1:2353:G:C8	2.38	0.58
29:D1:2095:G:H2'	29:D1:2096:A:H5'	1.84	0.58
1:A1:1397:U:H5''	1:A1:1398:U:OP2	2.03	0.58
20:CS:41:GLN:N	74:CS:101:OHX:N1	2.51	0.58
29:B1:2092:A:H5''	29:B1:2093:A:OP2	2.04	0.58
29:D1:2581:U:H6	29:D1:2581:U:OP2	1.86	0.58
36:BE:156:GLY:CA	36:BE:181:PRO:HA	2.34	0.58
1:A1:776:G:C6	1:A1:785:U:N3	2.72	0.58
29:D1:3180:A:H8	45:DP:114:LYS:HA	1.69	0.58
45:DP:142:SER:O	45:DP:146:GLY:N	2.37	0.58
1:A1:374:U:C4	1:A1:375:U:C4	2.91	0.58
13:AL:75:ASN:O	13:AL:78:HIS:O	2.22	0.58
34:BC:164:THR:O	34:BC:165:GLN:CB	2.52	0.58
1:C1:776:G:N1	1:C1:785:U:C2	2.71	0.58
1:A1:1395:G:C2'	1:A1:1396:U:H5'	2.34	0.58
1:C1:739:G:OP2	1:C1:739:G:C8	2.56	0.58
2:AA:52:LYS:C	2:AA:54:TRP:H	2.07	0.58
29:D1:1052:U:C5	29:D1:1053:A:C8	2.92	0.58
8:CG:129:TYR:C	8:CG:132:VAL:H	2.05	0.58
1:A1:463:U:H2'	1:A1:464:A:C8	2.39	0.58
73:DM:59:VAL:O	73:DM:62:ALA:HB3	2.03	0.58
8:AG:138:ASN:O	8:AG:140:LYS:N	2.36	0.58
29:D1:2719:U:H4'	29:D1:2719:U:OP1	2.02	0.58
43:BN:28:SER:O	43:BN:29:ALA:HB2	2.02	0.58
36:DE:170:GLY:O	36:DE:171:LEU:O	2.20	0.58
1:A1:1032:G:N3	1:A1:1033:C:C6	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1756:A:N7	74:A1:1901:OHX:N2	2.52	0.58
1:A1:426:G:C2	1:A1:427:C:C5	2.92	0.58
1:A1:533:U:C3'	1:A1:534:A:H8	2.14	0.58
1:A1:544:A:O2'	1:A1:545:A:O5'	2.18	0.58
1:A1:854:U:O2'	1:A1:855:A:H5'	2.04	0.58
29:B1:1294:A:O2'	29:B1:1295:G:O5'	2.21	0.58
29:B1:1394:A:H3'	29:B1:1394:A:H8	1.69	0.58
29:B1:1908:A:C5	29:B1:1909:A:C5	2.92	0.58
29:B1:2258:U:H3'	29:B1:2259:A:H8	1.66	0.58
29:B1:2304:C:C4	29:B1:2305:G:N2	2.72	0.58
29:B1:3034:C:H2'	29:B1:3035:A:H5'	1.85	0.58
29:B1:3041:U:O2'	29:B1:3042:U:C5'	2.51	0.58
29:B1:3126:C:H2'	29:B1:3127:A:O4'	2.04	0.58
29:B1:3318:G:C2'	29:B1:3318:G:N3	2.65	0.58
29:B1:3142:A:C2	74:B1:3428:OHX:N5	2.72	0.58
29:B1:404:G:C2	29:B1:405:U:C1'	2.83	0.58
29:B1:47:C:C4	29:B1:48:A:C5	2.91	0.58
29:B1:516:A:C3'	29:B1:517:G:H8	2.11	0.58
29:B1:523:A:C5	29:B1:524:U:C5	2.92	0.58
29:B1:707:U:OP1	29:B1:782:U:O2'	2.17	0.58
29:B1:749:C:C2	29:B1:750:G:C8	2.91	0.58
29:B1:830:A:C5	29:B1:865:U:O2	2.57	0.58
29:B1:864:G:O6	29:B1:893:C:H3'	2.03	0.58
29:B1:931:C:C2	29:B1:932:U:C5	2.92	0.58
29:B1:933:A:H3'	29:B1:934:G:C5'	2.33	0.58
29:B1:21:G:O2'	31:B3:37:A:N6	2.35	0.58
29:B1:513:G:H1'	37:BF:148:GLU:CB	2.33	0.58
1:C1:1149:G:N3	1:C1:1150:G:N7	2.51	0.58
1:C1:1778:G:C6	1:C1:1779:U:C4	2.91	0.58
1:C1:288:A:C4	1:C1:289:U:H5	2.21	0.58
1:C1:363:G:C2	1:C1:382:C:N3	2.72	0.58
1:C1:46:A:N6	1:C1:433:C:H4'	2.18	0.58
1:C1:480:G:H1	1:C1:508:U:H3	1.50	0.58
1:C1:515:A:N3	1:C1:515:A:H2'	2.16	0.58
1:C1:89:G:N2	1:C1:90:C:C2	2.72	0.58
1:C1:940:A:C2	1:C1:941:A:C8	2.92	0.58
29:D1:1153:A:N7	29:D1:1154:A:C4	2.71	0.58
29:D1:1174:G:C5	29:D1:1318:A:C4	2.91	0.58
29:D1:149:U:O2'	29:D1:150:A:OP1	2.22	0.58
29:D1:1878:G:H3'	29:D1:1878:G:H8	1.68	0.58
29:D1:2273:G:H1'	29:D1:2274:U:H5	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2382:G:H2'	29:D1:2383:C:O4'	2.03	0.58
29:D1:3035:A:C6	29:D1:3036:G:N7	2.72	0.58
29:D1:3063:C:C2	29:D1:3064:U:C5	2.92	0.58
29:D1:3328:G:N2	29:D1:3329:U:C2	2.71	0.58
29:D1:359:U:C2	29:D1:920:A:C6	2.92	0.58
29:D1:359:U:C2'	29:D1:360:G:H5'	2.33	0.58
29:D1:539:C:H2'	29:D1:539:C:O2	2.03	0.58
29:D1:591:G:C2	29:D1:592:A:C1'	2.86	0.58
29:D1:760:G:C2'	29:D1:761:A:H8	2.16	0.58
40:DI:69:ARG:O	40:DI:71:VAL:N	2.36	0.58
1:A1:829:A:HO2'	1:A1:830:U:P	2.23	0.58
1:C1:830:U:O2'	1:C1:831:U:H6	1.86	0.58
29:B1:2651:G:C5	29:B1:2796:G:N2	2.72	0.58
30:B2:112:G:OP2	30:B2:113:C:OP1	2.22	0.58
31:B3:54:A:H2'	31:B3:55:U:C5'	2.34	0.58
1:A1:272:U:C4'	1:A1:273:G:OP2	2.51	0.58
1:A1:64:U:H5'	1:A1:65:A:P	2.44	0.58
1:C1:252:U:O2'	1:C1:253:A:P	2.61	0.58
1:A1:1685:G:N3	1:A1:1719:A:C2	2.72	0.58
1:A1:1723:U:C2	1:A1:1724:U:C6	2.91	0.58
1:A1:327:U:H5''	1:A1:328:A:OP2	2.04	0.58
1:C1:1346:A:H3'	1:C1:1347:U:C6	2.38	0.58
1:C1:1614:A:H2	1:C1:1616:G:OP2	1.85	0.58
29:B1:1196:C:H5'	29:B1:1197:A:OP2	2.04	0.58
29:B1:3218:A:O3'	29:B1:3220:G:C8	2.57	0.58
30:D2:35:C:H5'	30:D2:35:C:H6	1.66	0.58
1:C1:417:A:C4'	1:C1:418:G:O5'	2.51	0.58
1:A1:643:G:N1	1:A1:692:C:C4	2.72	0.58
4:AC:21:LEU:O	4:AC:22:ASN:C	2.42	0.58
29:B1:337:G:N2	31:B3:27:U:O2	2.37	0.58
29:B1:1063:G:O2'	29:B1:1064:A:P	2.61	0.58
29:D1:2096:A:H2'	29:D1:2097:U:O4'	2.04	0.58
1:A1:1330:G:C2'	1:A1:1331:A:H8	2.17	0.58
1:C1:920:U:OP2	1:C1:920:U:C6	2.56	0.58
29:B1:1948:G:C2	29:B1:1949:G:N7	2.72	0.58
29:D1:1715:A:C8	29:D1:1716:U:O4'	2.57	0.58
34:BC:298:PHE:HA	34:BC:299:ASP:CB	2.34	0.58
29:D1:858:A:H3'	29:D1:859:G:H8	1.69	0.58
29:B1:355:A:N1	29:B1:365:A:C4	2.71	0.58
1:C1:777:C:H5'	1:C1:778:G:OP2	2.04	0.58
29:D1:1745:C:H2'	29:D1:1746:U:H6	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BC:106:TRP:C	34:BC:108:GLU:H	2.03	0.58
1:C1:241:U:HO2'	1:C1:242:U:H3	1.50	0.58
41:BJ:68:ALA:O	41:BJ:72:ALA:HB2	2.04	0.58
44:BO:78:GLY:CA	44:BO:79:ALA:CB	2.79	0.58
45:BP:57:PHE:H	45:BP:60:LYS:CB	2.16	0.58
4:CC:140:GLY:CA	4:CC:182:LEU:HA	2.34	0.58
5:AD:92:ARG:O	5:AD:94:THR:N	2.37	0.58
47:BR:110:ALA:O	47:BR:113:LYS:N	2.36	0.58
34:DC:193:ASP:C	34:DC:195:ALA:N	2.57	0.58
1:C1:932:U:O4'	1:C1:933:A:C2	2.56	0.58
29:D1:2556:C:O2	29:D1:2556:C:C2'	2.52	0.58
46:DQ:52:LEU:H	46:DQ:54:HIS:N	2.02	0.58
3:CB:239:PRO:O	3:CB:241:ASP:N	2.35	0.58
29:D1:1051:U:H2'	29:D1:1051:U:O2	2.03	0.58
1:C1:568:G:O2'	1:C1:569:C:H5'	2.04	0.58
38:BG:83:LEU:CA	38:BG:84:VAL:CB	2.82	0.58
29:B1:2096:A:H2'	29:B1:2097:U:O4'	2.03	0.58
29:D1:729:C:H2'	29:D1:730:C:O4'	2.02	0.58
6:CE:55:ALA:O	6:CE:56:ALA:C	2.41	0.58
45:BP:95:GLY:O	45:BP:96:LYS:C	2.40	0.58
46:BQ:47:TYR:C	46:BQ:49:GLU:N	2.57	0.58
38:DG:160:ARG:O	38:DG:162:PRO:N	2.37	0.58
4:AC:133:GLY:HA3	4:AC:155:GLY:HA3	1.84	0.58
44:BO:96:ARG:O	44:BO:97:SER:CB	2.52	0.58
42:DK:90:GLN:CB	42:DK:169:ALA:HB3	2.33	0.58
35:DD:215:ILE:O	35:DD:216:VAL:C	2.42	0.58
13:CL:33:THR:HA	13:CL:38:VAL:O	2.04	0.58
29:B1:2849:C:O2	29:B1:2849:C:H2'	2.03	0.58
9:AH:42:VAL:O	9:AH:43:THR:O	2.21	0.58
29:B1:230:U:H2'	29:B1:231:G:O4'	2.03	0.58
1:A1:1137:A:N3	1:A1:1138:A:C8	2.72	0.58
1:A1:1778:G:N1	1:A1:1779:U:C5	2.71	0.58
1:A1:361:C:C2	1:A1:384:G:N2	2.71	0.58
1:A1:45:U:H5'	1:A1:45:U:C6	2.39	0.58
1:A1:529:A:OP2	1:A1:529:A:C8	2.57	0.58
29:B1:2150:G:C2'	29:B1:2151:C:C5'	2.80	0.58
29:B1:2222:A:H61	29:B1:2783:U:H5'	1.69	0.58
29:B1:2876:C:O2'	29:B1:2877:G:H5'	2.04	0.58
29:B1:3305:A:C5	29:B1:3306:U:N3	2.71	0.58
29:B1:3333:G:N1	29:B1:3370:A:C4'	2.67	0.58
29:B1:651:G:C6	29:B1:652:G:C6	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:882:A:C2	29:B1:885:U:N1	2.71	0.58
1:C1:1044:U:C2'	1:C1:1044:U:O2	2.52	0.58
1:C1:545:A:H61	1:C1:593:U:C2'	2.17	0.58
1:C1:638:U:H3'	1:C1:639:U:C5'	2.29	0.58
29:D1:157:A:H2'	29:D1:158:G:N7	2.18	0.58
29:D1:163:C:H5'	29:D1:164:A:OP2	2.04	0.58
29:D1:2199:G:C6	29:D1:2200:U:C4	2.91	0.58
29:D1:2704:A:C4	29:D1:2706:G:N7	2.72	0.58
29:D1:2762:A:C4	29:D1:2763:U:C6	2.92	0.58
29:D1:2949:U:C5	29:D1:2950:G:O6	2.57	0.58
29:D1:3318:G:C2'	29:D1:3318:G:N3	2.65	0.58
29:D1:331:G:O2'	29:D1:332:C:H5''	2.03	0.58
74:D1:3588:OHX:N1	74:D1:3589:OHX:N4	2.52	0.58
29:D1:595:G:O6	29:D1:609:G:N3	2.36	0.58
29:D1:65:A:C8	29:D1:110:G:O6	2.57	0.58
29:D1:694:C:C2'	29:D1:694:C:O2	2.51	0.58
29:D1:719:U:O2	29:D1:719:U:O4'	2.22	0.58
29:D1:769:G:C4	29:D1:770:G:C8	2.91	0.58
29:D1:797:U:O2'	29:D1:798:G:H5'	2.02	0.58
29:D1:10:C:C5	31:D3:149:A:C2	2.92	0.58
31:D3:65:A:N6	31:D3:66:A:C6	2.72	0.58
31:D3:69:U:H2'	31:D3:70:G:C2'	2.33	0.58
31:D3:69:U:H3'	31:D3:70:G:H4'	1.80	0.58
31:D3:80:A:H2'	31:D3:81:U:N1	2.19	0.58
29:D1:149:U:C2	44:DO:55:ALA:HA	2.39	0.58
1:C1:825:U:C5	1:C1:847:A:N6	2.72	0.58
1:C1:829:A:O2'	1:C1:830:U:P	2.62	0.58
31:B3:79:A:H2'	31:B3:80:A:C8	2.38	0.58
36:BE:30:TYR:C	36:BE:32:GLN:N	2.57	0.58
1:A1:62:A:P	1:A1:62:A:H3'	2.43	0.58
1:A1:82:U:H5'	1:A1:83:G:OP2	2.04	0.58
30:D2:64:A:C6	30:D2:111:U:C4	2.91	0.58
1:C1:246:G:C5	1:C1:247:A:C2	2.92	0.58
1:A1:324:U:H6	1:A1:324:U:H5'	1.69	0.58
1:C1:1162:C:O2'	1:C1:1163:A:H5'	2.02	0.58
1:C1:1209:C:H2'	1:C1:1210:C:C6	2.38	0.58
1:C1:1249:U:H2'	1:C1:1250:U:H5'	1.85	0.58
1:C1:1375:A:C2'	1:C1:1376:C:C6	2.84	0.58
1:A1:1255:G:O3'	1:A1:1257:U:OP1	2.21	0.58
29:B1:3217:C:C1'	29:B1:3220:G:O2'	2.51	0.58
29:B1:3279:A:C8	29:B1:3280:U:C5	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BF:40:LEU:HA	37:BF:85:ILE:HA	1.84	0.58
29:D1:1394:A:H3'	29:D1:1394:A:H8	1.69	0.58
29:D1:370:U:C5	29:D1:371:G:C4	2.92	0.58
1:C1:1294:G:H4'	2:CA:109:ASN:CB	2.34	0.58
1:C1:1419:G:H2'	1:C1:1420:C:O4'	2.03	0.58
29:D1:1099:A:N6	29:D1:1100:U:C4	2.72	0.58
29:D1:2435:G:O2'	29:D1:2436:U:P	2.62	0.58
29:D1:2102:U:H2'	29:D1:2103:U:H6	1.66	0.58
30:B2:2:G:N3	30:B2:2:G:H2'	2.19	0.58
29:D1:2503:G:C5	29:D1:2504:U:C4	2.90	0.58
1:A1:984:G:H1	1:A1:1017:U:H3	1.51	0.58
5:CD:166:ARG:O	5:CD:167:ARG:C	2.42	0.58
1:A1:1291:G:N2	1:A1:1324:G:H22	2.02	0.58
29:B1:1347:U:H3'	29:B1:1348:U:C5	2.39	0.58
29:B1:2204:C:H2'	29:B1:2205:U:H5''	1.86	0.58
29:B1:141:C:H2'	29:B1:142:C:H6	1.68	0.58
1:A1:776:G:N1	1:A1:785:U:N3	2.52	0.58
13:CL:98:TYR:O	13:CL:99:HIS:CB	2.52	0.58
17:AP:46:SER:C	17:AP:48:HIS:H	2.07	0.58
29:D1:317:A:C2	29:D1:318:A:C5	2.92	0.58
20:AS:38:ILE:N	74:AS:101:OHX:N6	2.48	0.58
6:AE:55:ALA:O	6:AE:56:ALA:C	2.42	0.58
29:B1:733:G:H3'	29:B1:733:G:N3	2.19	0.58
42:DK:83:GLY:O	42:DK:84:LEU:C	2.40	0.58
41:DJ:37:GLY:HA3	41:DJ:86:HIS:N	2.18	0.58
72:DL:76:SER:O	72:DL:77:ALA:O	2.22	0.58
1:A1:1305:U:OP2	1:A1:1306:C:N4	2.36	0.58
29:B1:495:G:O2'	29:B1:496:C:H5'	2.03	0.58
29:D1:2732:G:C6	29:D1:2733:A:C5	2.92	0.58
38:BG:222:HIS:CB	38:BG:228:SER:H	2.16	0.58
29:B1:2764:C:C6	29:B1:2764:C:OP2	2.56	0.58
39:BH:248:LYS:O	39:BH:250:ALA:N	2.36	0.58
10:AI:20:VAL:O	10:AI:24:LYS:C	2.42	0.58
5:AD:146:THR:HA	5:AD:158:GLN:O	2.04	0.58
6:AE:135:ALA:CB	6:AE:140:ILE:HA	2.33	0.58
44:DO:36:ILE:HA	44:DO:64:VAL:HA	1.86	0.58
1:A1:1112:G:OP2	1:A1:1113:A:H2'	2.04	0.58
1:A1:1115:U:H2'	1:A1:1115:U:O2	2.03	0.58
1:A1:1780:G:C6	1:A1:1781:A:C6	2.92	0.58
1:A1:1642:G:H2'	1:A1:1781:A:O2'	2.04	0.58
1:A1:1791:A:C8	1:A1:1791:A:H5'	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1026:A:C2	1:A1:1792:G:C4	2.92	0.58
29:B1:1528:G:C6	29:B1:1833:G:O6	2.57	0.58
29:B1:2269:U:O2	29:B1:2269:U:C2'	2.51	0.58
29:B1:2856:G:H2'	29:B1:2857:C:C6	2.39	0.58
29:B1:312:C:O2'	29:B1:313:A:H5'	2.03	0.58
29:B1:3149:G:N3	29:B1:3150:A:C1'	2.66	0.58
29:B1:3149:G:C5	29:B1:3150:A:C8	2.92	0.58
29:B1:3308:C:N4	29:B1:3309:G:C5	2.72	0.58
29:B1:593:C:O2	29:B1:594:U:H4'	2.02	0.58
29:B1:659:G:N1	29:B1:1432:C:C2	2.70	0.58
29:B1:66:A:C2	29:B1:77:A:O3'	2.57	0.58
29:B1:80:G:C2	29:B1:81:C:C6	2.92	0.58
1:C1:1146:G:C6	1:C1:1147:A:C5	2.91	0.58
1:C1:478:A:C2	1:C1:479:C:C4	2.92	0.58
1:C1:524:U:C2'	1:C1:527:A:C2	2.83	0.58
1:C1:53:G:C5	1:C1:54:C:C5	2.92	0.58
1:C1:972:G:N2	29:D1:846:A:N6	2.48	0.58
3:CB:165:VAL:HA	3:CB:202:GLY:HA3	1.86	0.58
29:D1:1220:U:OP1	29:D1:1222:G:O2'	2.20	0.58
29:D1:1445:U:C6	29:D1:1446:A:N7	2.72	0.58
29:D1:1655:G:H5''	29:D1:1656:A:H2'	1.86	0.58
29:D1:2376:G:O2'	29:D1:2377:G:C5'	2.52	0.58
29:D1:282:G:C2	29:D1:286:U:H4'	2.38	0.58
29:D1:3392:U:C2	29:D1:3393:U:C5	2.92	0.58
29:D1:428:A:H2'	29:D1:429:U:O5'	2.04	0.58
29:D1:46:U:H6	29:D1:46:U:O5'	1.87	0.58
29:D1:547:G:C3'	29:D1:548:G:H5'	2.34	0.58
29:D1:550:A:C2	29:D1:551:A:C4	2.92	0.58
29:D1:598:A:C2	29:D1:599:C:C2	2.92	0.58
29:D1:60:A:N7	29:D1:327:A:C2	2.71	0.58
29:D1:733:G:H21	29:D1:734:C:H2'	1.69	0.58
29:D1:747:A:O5'	29:D1:747:A:H8	1.86	0.58
29:D1:83:U:H2'	29:D1:84:U:H5'	1.85	0.58
29:D1:88:A:C2	29:D1:89:A:H1'	2.38	0.58
29:D1:1196:C:C2	30:D2:86:U:C6	2.92	0.58
31:D3:2:A:N6	31:D3:3:A:C2	2.71	0.58
31:D3:80:A:H2'	31:D3:81:U:C6	2.39	0.58
45:DP:63:ALA:HB2	45:DP:69:GLY:HA3	1.85	0.58
1:C1:830:U:C2	1:C1:831:U:C5	2.92	0.58
1:C1:744:U:C4	1:C1:745:U:C5	2.92	0.58
29:B1:2728:G:N2	29:B1:2729:U:C5	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:59:U:C2	30:B2:60:G:C8	2.92	0.58
1:A1:196:G:HO2'	1:A1:197:A:P	2.27	0.58
1:A1:269:G:C4	1:A1:270:C:C5	2.91	0.58
1:A1:83:G:O2'	1:A1:84:A:H5'	2.04	0.58
30:D2:74:C:C6	30:D2:75:G:C8	2.92	0.58
1:C1:243:G:C8	1:C1:243:G:H5''	2.38	0.58
29:B1:2677:G:N3	29:B1:2677:G:H3'	2.19	0.58
1:A1:112:A:N6	1:A1:303:U:O2	2.36	0.58
1:C1:1348:A:H3'	1:C1:1349:G:C5'	2.33	0.58
1:C1:1522:U:C2'	1:C1:1523:G:O5'	2.52	0.58
1:A1:1199:G:N1	1:A1:1201:G:OP1	2.37	0.58
1:A1:1263:G:C4	1:A1:1264:G:C8	2.91	0.58
1:A1:1604:U:H5''	1:A1:1605:G:OP2	2.04	0.58
29:D1:3211:C:C2'	29:D1:3211:C:O2	2.46	0.58
29:D1:1390:A:N7	29:D1:1418:A:C5	2.72	0.58
29:D1:3217:C:H4'	29:D1:3218:A:OP2	2.03	0.58
29:D1:3221:C:C2	29:D1:3222:U:C6	2.92	0.58
30:B2:57:G:C8	30:B2:58:C:C5	2.91	0.58
1:A1:690:G:H2'	1:A1:691:C:C5'	2.33	0.58
29:D1:1252:A:H2'	29:D1:1253:U:C5'	2.33	0.58
29:B1:72:C:C5	29:B1:73:C:C2	2.92	0.58
29:B1:1063:G:C4	29:B1:1064:A:H4'	2.39	0.58
29:D1:3274:A:C8	29:D1:3275:U:C2'	2.81	0.58
36:DE:113:LEU:N	36:DE:114:GLY:HA3	2.17	0.58
29:B1:625:G:C8	29:B1:625:G:H5'	2.36	0.58
29:D1:2582:C:H6	29:D1:2582:C:OP2	1.87	0.58
29:D1:1021:G:H2'	29:D1:1022:U:C6	2.39	0.58
36:DE:49:TYR:CA	36:DE:50:ARG:CB	2.81	0.58
29:D1:2880:U:H2'	29:D1:2881:C:C6	2.38	0.58
53:BX:34:PRO:HA	53:BX:47:ALA:HB2	1.85	0.58
46:DQ:30:ARG:O	46:DQ:31:GLU:C	2.42	0.58
1:C1:310:C:H3'	1:C1:310:C:C6	2.39	0.58
29:D1:2482:U:H2'	29:D1:2483:G:O4'	2.04	0.58
29:D1:2792:A:O2'	29:D1:2793:G:H5'	2.03	0.58
3:CB:215:PHE:C	3:CB:217:ALA:N	2.54	0.58
38:BG:159:GLN:O	38:BG:160:ARG:O	2.22	0.58
44:DO:20:ARG:C	44:DO:22:LEU:N	2.57	0.58
36:DE:188:GLU:CB	36:DE:189:GLU:HA	2.34	0.58
29:D1:908:G:C8	29:D1:925:A:C2	2.92	0.58
29:B1:1753:G:C2	29:B1:1754:G:C8	2.92	0.58
29:D1:2723:U:H2'	29:D1:2724:U:C6	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DI:137:SER:O	40:DI:138:THR:CB	2.52	0.58
73:DM:37:GLN:HA	73:DM:40:GLU:CB	2.33	0.58
50:BU:94:TYR:O	50:BU:95:PHE:CB	2.52	0.58
41:BJ:53:VAL:H	41:BJ:164:LYS:CB	2.17	0.58
1:A1:1138:A:H2'	1:A1:1139:A:C8	2.39	0.57
1:A1:1636:C:C4'	1:A1:1637:C:OP2	2.51	0.57
1:A1:1645:G:C2'	1:A1:1646:C:O5'	2.51	0.57
1:A1:1150:G:O2'	1:A1:1766:A:N1	2.37	0.57
1:A1:365:G:C2'	1:A1:366:A:O5'	2.51	0.57
1:A1:624:G:OP1	1:A1:624:G:H8	1.87	0.57
1:A1:629:U:O2	1:A1:971:A:C2	2.57	0.57
1:A1:971:A:C8	1:A1:972:G:N7	2.72	0.57
29:B1:659:G:C6	29:B1:1432:C:C2	2.91	0.57
29:B1:1455:U:H3'	29:B1:1456:A:C8	2.36	0.57
29:B1:1601:U:H5	29:B1:1604:G:O6	1.87	0.57
29:B1:1607:U:C1'	29:B1:1608:C:OP1	2.47	0.57
29:B1:1786:G:H2'	29:B1:1787:A:H8	1.67	0.57
29:B1:1907:C:H2'	29:B1:1908:A:C5'	2.34	0.57
29:B1:1940:G:H2'	29:B1:1941:C:C1'	2.33	0.57
29:B1:2196:C:O2'	29:B1:2271:A:O4'	2.22	0.57
29:B1:2202:C:H5''	29:B1:2203:U:OP2	2.04	0.57
29:B1:2299:A:C5	29:B1:2300:G:N7	2.72	0.57
29:B1:22:G:C5	29:B1:23:A:N7	2.72	0.57
29:B1:2308:C:C6	29:B1:2309:A:C8	2.92	0.57
29:B1:2808:A:H4'	29:B1:2809:C:C5'	2.34	0.57
29:B1:3376:A:OP2	29:B1:3376:A:H4'	2.03	0.57
29:B1:570:A:C6	29:B1:571:U:C4	2.92	0.57
29:B1:947:G:C4	29:B1:1373:A:C2	2.92	0.57
31:B3:37:A:N6	31:B3:104:A:C4	2.72	0.57
31:B3:127:U:O2	31:B3:127:U:H2'	2.02	0.57
54:BY:72:VAL:H	54:BY:114:GLY:HA3	1.69	0.57
1:C1:13:C:H5''	3:CB:162:CYS:HA	1.85	0.57
1:C1:204:G:H2'	1:C1:204:G:N3	2.18	0.57
1:C1:262:U:C4	1:C1:263:C:C4	2.91	0.57
1:C1:379:U:C2	1:C1:380:U:H5	2.22	0.57
1:C1:41:A:H2'	1:C1:438:A:H62	1.68	0.57
1:C1:434:G:N2	1:C1:437:A:H2	2.02	0.57
29:D1:1057:A:C6	29:D1:1058:U:C5	2.92	0.57
29:D1:1150:A:C8	29:D1:1310:G:H5''	2.39	0.57
29:D1:1780:G:HO2'	29:D1:1781:C:H6	1.50	0.57
29:D1:2665:U:C2	29:D1:2706:G:C2	2.91	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2847:A:C5'	29:D1:2848:G:OP2	2.47	0.57
29:D1:2839:G:C6	29:D1:2850:G:C2	2.91	0.57
29:D1:286:U:C2	29:D1:287:G:N7	2.72	0.57
29:D1:28:C:O2	29:D1:28:C:H2'	2.04	0.57
29:D1:3058:U:O2'	29:D1:3059:G:P	2.60	0.57
29:D1:306:A:H2'	29:D1:306:A:N3	2.19	0.57
29:D1:3301:U:P	29:D1:3301:U:O4'	2.62	0.57
74:D1:3477:OHX:N3	74:D1:3588:OHX:N5	2.51	0.57
29:D1:352:A:C1'	29:D1:354:U:C6	2.87	0.57
29:D1:509:U:H2'	29:D1:510:G:C5'	2.33	0.57
29:D1:510:G:H2'	29:D1:511:G:O5'	2.03	0.57
30:D2:82:G:C4	30:D2:99:G:C2	2.92	0.57
31:D3:103:G:H5''	31:D3:104:A:OP2	2.03	0.57
29:B1:2704:A:C2	29:B1:2706:G:C8	2.92	0.57
34:BC:43:LEU:O	34:BC:44:THR:CB	2.52	0.57
30:D2:75:G:H21	30:D2:105:C:N4	2.02	0.57
1:C1:1685:G:N3	1:C1:1719:A:C2	2.72	0.57
1:A1:243:G:H5''	1:A1:243:G:C8	2.39	0.57
1:C1:1364:G:H2'	1:C1:1365:C:C5'	2.34	0.57
1:C1:1432:U:OP2	1:C1:1432:U:H4'	2.04	0.57
1:C1:1497:U:C5	1:C1:1498:G:N7	2.72	0.57
1:C1:1608:U:H2'	1:C1:1609:U:C6	2.39	0.57
1:A1:1177:C:H2'	1:A1:1178:G:O4'	2.04	0.57
1:A1:1235:C:H2'	1:A1:1236:A:C8	2.37	0.57
1:A1:1367:G:H2'	1:A1:1367:G:N3	2.18	0.57
1:A1:1472:C:H5'	1:A1:1474:G:H1'	1.86	0.57
1:A1:1170:G:N2	1:A1:1571:C:H4'	2.19	0.57
29:D1:3210:A:C8	29:D1:3211:C:C5	2.92	0.57
43:BN:89:ALA:O	43:BN:92:GLU:N	2.38	0.57
43:BN:95:ALA:O	43:BN:97:SER:N	2.37	0.57
29:D1:397:A:C4	29:D1:399:A:N7	2.72	0.57
29:B1:1276:U:O4	74:B1:3563:OHX:N1	2.36	0.57
30:B2:27:A:C2	30:B2:54:U:H5	2.22	0.57
1:A1:417:A:C8	1:A1:417:A:O5'	2.55	0.57
1:A1:640:U:H3'	1:A1:641:G:C8	2.39	0.57
1:A1:690:G:C2'	1:A1:691:C:H5'	2.33	0.57
29:D1:1248:C:C5	29:D1:1249:G:H8	2.22	0.57
1:C1:1394:G:OP1	21:CT:282:SER:N	2.20	0.57
29:D1:3141:A:H5'	29:D1:3143:C:C2'	2.34	0.57
29:D1:2211:U:H2'	29:D1:2212:C:O4'	2.05	0.57
29:B1:1468:A:O2'	29:B1:1469:C:O5'	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1413:U:H4'	1:A1:1414:U:H5''	1.86	0.57
29:D1:1691:U:O2'	29:D1:1692:U:O5'	2.15	0.57
29:B1:624:G:H2'	29:B1:625:G:C5'	2.34	0.57
29:B1:624:G:N2	29:B1:625:G:C8	2.72	0.57
43:DN:49:PRO:N	43:DN:50:LYS:CA	2.64	0.57
1:A1:1734:U:H2'	1:A1:1735:U:H6	1.69	0.57
29:B1:1001:G:C8	29:B1:1041:U:H5'	2.39	0.57
55:DZ:85:PHE:O	55:DZ:87:VAL:N	2.37	0.57
54:BY:139:ARG:HA	54:BY:143:GLY:H	1.67	0.57
14:CM:125:SER:O	14:CM:126:GLU:C	2.41	0.57
1:C1:761:G:O5'	1:C1:761:G:H8	1.87	0.57
3:CB:124:ALA:O	3:CB:125:ILE:C	2.42	0.57
2:AA:130:ALA:O	2:AA:132:ALA:N	2.37	0.57
41:DJ:184:LYS:O	41:DJ:186:GLU:N	2.37	0.57
43:DN:107:GLU:O	43:DN:108:ARG:C	2.42	0.57
1:A1:1028:C:O2'	1:A1:1029:U:OP2	2.19	0.57
29:B1:3165:A:C2	29:B1:3286:G:C4	2.91	0.57
1:C1:802:G:C5	1:C1:803:A:N1	2.72	0.57
29:B1:789:A:C6	29:B1:790:U:O4	2.57	0.57
8:CG:129:TYR:C	8:CG:131:THR:N	2.53	0.57
47:BR:145:ASN:CB	47:BR:147:ARG:H	2.16	0.57
54:BY:97:GLU:O	54:BY:98:THR:CB	2.52	0.57
37:DF:121:LEU:O	37:DF:123:PRO:N	2.37	0.57
37:DF:124:GLU:C	37:DF:126:GLN:H	2.07	0.57
10:CI:67:ALA:HA	10:CI:68:PRO:O	2.03	0.57
1:A1:294:C:H2'	1:A1:294:C:O2	2.04	0.57
29:B1:869:G:H3'	29:B1:870:G:C8	2.39	0.57
33:BB:216:HIS:O	33:BB:217:GLN:CB	2.52	0.57
42:BK:121:GLY:C	42:BK:123:PHE:H	2.07	0.57
1:A1:1105:C:H2'	1:A1:1106:U:C6	2.40	0.57
1:A1:1636:C:N4	1:A1:1638:G:C2	2.72	0.57
1:A1:1767:G:O2'	1:A1:1768:G:OP2	2.20	0.57
1:A1:1780:G:H2'	1:A1:1781:A:C8	2.40	0.57
29:B1:1158:A:C3'	29:B1:1159:A:H5''	2.34	0.57
29:B1:1209:G:C8	29:B1:1210:U:C5	2.92	0.57
29:B1:1393:A:H2	29:B1:1394:A:N9	2.03	0.57
29:B1:1454:A:H5''	29:B1:1878:G:N1	2.18	0.57
29:B1:1656:A:C4	29:B1:1657:C:N4	2.71	0.57
29:B1:1514:G:O6	29:B1:1841:A:C8	2.57	0.57
29:B1:1879:A:H3'	29:B1:1879:A:P	2.44	0.57
29:B1:2285:C:C5	29:B1:2286:U:C4	2.91	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2288:G:N3	29:B1:2289:U:C5	2.72	0.57
29:B1:2374:C:N4	29:B1:2941:A:C4	2.71	0.57
29:B1:2816:G:H4'	29:B1:2817:A:H5''	1.85	0.57
29:B1:2836:C:O2	29:B1:2837:A:C8	2.57	0.57
29:B1:3006:A:H8	29:B1:3007:U:C6	2.22	0.57
29:B1:2933:A:OP1	29:B1:3015:G:H4'	2.03	0.57
29:B1:3299:A:C2	29:B1:3300:U:C4	2.91	0.57
29:B1:3315:G:O2'	29:B1:3316:A:H8	1.85	0.57
29:B1:3341:U:N3	29:B1:3362:A:C2	2.72	0.57
29:B1:509:U:H2'	29:B1:510:G:C5'	2.33	0.57
29:B1:533:A:H2'	29:B1:534:U:C5	2.38	0.57
29:B1:563:U:O4	29:B1:564:G:C8	2.57	0.57
29:B1:566:G:C2'	29:B1:567:G:H5'	2.33	0.57
29:B1:611:A:OP1	29:B1:611:A:C4'	2.47	0.57
29:B1:702:C:H2'	29:B1:703:G:O4'	2.04	0.57
29:B1:718:G:H4'	29:B1:719:U:H5''	1.85	0.57
29:B1:743:C:C6	29:B1:743:C:C3'	2.87	0.57
29:B1:725:G:N1	29:B1:744:A:N6	2.52	0.57
29:B1:747:A:C2'	29:B1:748:U:OP1	2.52	0.57
29:B1:944:C:H2'	29:B1:945:C:H6	1.69	0.57
1:C1:1025:A:H2'	1:C1:1027:A:C5'	2.33	0.57
1:C1:1781:A:C2	1:C1:1782:A:C2	2.92	0.57
1:C1:26:A:H3'	1:C1:26:A:P	2.43	0.57
1:C1:50:C:C2	1:C1:424:C:C5	2.91	0.57
1:C1:446:A:C5	1:C1:447:U:H5	2.21	0.57
1:C1:61:A:OP1	1:C1:452:A:O2'	2.22	0.57
1:C1:463:U:H2'	1:C1:464:A:O4'	2.04	0.57
1:C1:818:C:H2'	1:C1:819:G:C8	2.39	0.57
29:D1:1148:G:C2	29:D1:1156:C:C2	2.93	0.57
29:D1:1174:G:N1	29:D1:1318:A:C2	2.72	0.57
29:D1:1366:A:N3	29:D1:1367:G:C8	2.71	0.57
29:D1:1448:U:H5	29:D1:2355:G:N3	2.02	0.57
29:D1:1461:A:C4	29:D1:1462:A:N7	2.70	0.57
29:D1:121:A:H5'	29:D1:150:A:C2	2.39	0.57
29:D1:1779:C:OP2	29:D1:1780:G:H8	1.87	0.57
29:D1:1845:G:H1	29:D1:1849:C:C2'	2.16	0.57
29:D1:2290:C:C4	29:D1:2303:A:N1	2.72	0.57
29:D1:1131:G:C2	29:D1:2373:A:C4	2.92	0.57
29:D1:2383:C:H2'	29:D1:2384:A:C8	2.36	0.57
29:D1:2618:G:C4'	29:D1:2619:G:OP2	2.51	0.57
29:D1:2727:A:H2	29:D1:2729:U:H5	1.50	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2830:G:C4	29:D1:2831:G:C8	2.91	0.57
29:D1:2854:U:H4'	41:DJ:160:PRO:N	2.20	0.57
29:D1:287:G:C2'	29:D1:288:C:O5'	2.52	0.57
29:D1:2984:C:O2'	29:D1:2985:C:H5'	2.04	0.57
29:D1:3296:A:C2	29:D1:3297:U:C1'	2.87	0.57
29:D1:3315:G:O2'	29:D1:3316:A:H8	1.82	0.57
29:D1:3315:G:O5'	29:D1:3316:A:OP1	2.21	0.57
29:D1:3387:U:N3	29:D1:3388:C:N4	2.52	0.57
29:D1:379:C:H6	29:D1:379:C:C5'	2.13	0.57
29:D1:536:U:C1'	29:D1:537:A:OP2	2.51	0.57
29:D1:964:G:C5	29:D1:965:A:N7	2.71	0.57
37:DF:149:ILE:H	37:DF:151:LYS:H	1.50	0.57
29:B1:2762:A:C4	29:B1:2763:U:C6	2.91	0.57
30:B2:14:U:O2'	30:B2:15:C:C4'	2.52	0.57
30:B2:9:C:OP2	30:B2:9:C:H6	1.87	0.57
1:A1:184:C:C5	1:A1:202:A:C2	2.92	0.57
30:D2:13:A:C5'	30:D2:112:G:H1'	2.24	0.57
1:C1:1712:A:H2'	1:C1:1713:G:H8	1.67	0.57
1:C1:1713:G:N2	1:C1:1714:A:C8	2.71	0.57
1:C1:333:A:C2	1:C1:334:G:C2	2.93	0.57
1:A1:337:G:H4'	1:A1:338:C:H5''	1.84	0.57
1:C1:1351:G:C5	1:C1:1352:G:C8	2.91	0.57
1:C1:1370:U:N3	1:C1:1371:A:C8	2.72	0.57
1:C1:1515:A:C3'	1:C1:1516:A:H5''	2.34	0.57
1:C1:1583:A:H1'	1:C1:1585:U:N1	2.20	0.57
1:C1:1616:G:H21	1:C1:1618:C:N4	1.92	0.57
1:C1:1348:A:OP1	15:CN:12:GLN:O	2.21	0.57
15:CN:12:GLN:O	15:CN:13:GLU:C	2.41	0.57
1:A1:1199:G:N2	1:A1:1201:G:OP2	2.36	0.57
1:A1:1376:C:H6	1:A1:1376:C:O5'	1.86	0.57
1:C1:1050:G:C6	1:C1:1051:G:C4	2.92	0.57
29:B1:3228:C:N1	29:B1:3229:G:N7	2.51	0.57
29:B1:3204:C:H5'	43:BN:88:ALA:CB	2.33	0.57
29:B1:2687:G:OP2	74:B1:3429:OHX:N4	2.38	0.57
30:B2:30:G:H2'	30:B2:31:U:C5'	2.35	0.57
36:BE:110:LEU:HA	36:BE:111:GLN:CB	2.34	0.57
29:D1:1235:U:C4	29:D1:1237:G:H4'	2.39	0.57
29:D1:1066:G:H2'	29:D1:1067:U:C6	2.39	0.57
1:C1:1334:U:H2'	1:C1:1335:U:C1'	2.34	0.57
5:CD:153:GLY:HA3	5:CD:154:ALA:CB	2.23	0.57
40:DI:63:LYS:HA	40:DI:66:ALA:CB	2.27	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2128:C:H6	29:D1:2128:C:O5'	1.88	0.57
29:D1:2128:C:N4	29:D1:2129:U:C4	2.72	0.57
1:C1:180:A:C5	1:C1:181:A:C2	2.92	0.57
29:D1:649:A:C2	29:D1:650:C:C4	2.92	0.57
9:AH:57:PRO:O	9:AH:60:ALA:N	2.37	0.57
29:B1:1740:U:C3'	29:B1:1741:A:H5'	2.33	0.57
29:D1:1744:G:O2'	29:D1:1745:C:H5'	2.04	0.57
29:B1:1884:A:C6	29:B1:1885:U:N3	2.62	0.57
2:CA:25:GLY:O	2:CA:26:ALA:HB3	2.04	0.57
14:AM:57:ARG:O	14:AM:58:ALA:CB	2.51	0.57
43:DN:21:VAL:O	43:DN:34:ALA:HB2	2.05	0.57
41:DJ:17:TYR:O	41:DJ:19:LYS:N	2.37	0.57
29:B1:2122:G:O2'	29:B1:2123:G:H5'	2.04	0.57
1:C1:717:C:H1'	1:C1:718:U:O5'	2.04	0.57
1:A1:1667:A:H2'	1:A1:1668:G:H8	1.63	0.57
5:AD:58:LEU:O	5:AD:61:TYR:N	2.36	0.57
1:A1:108:A:H3'	1:A1:109:G:H8	1.67	0.57
29:D1:2546:C:N4	29:D1:2547:A:N6	2.52	0.57
29:B1:1492:G:H3'	29:B1:1493:G:H21	1.68	0.57
36:DE:116:ASP:C	36:DE:118:THR:H	2.06	0.57
31:D3:34:U:C2	31:D3:34:U:C3'	2.83	0.57
43:DN:111:ALA:O	43:DN:112:LEU:C	2.42	0.57
29:D1:1046:A:C8	29:D1:1049:C:N4	2.72	0.57
13:AL:124:GLY:C	13:AL:126:ARG:N	2.55	0.57
1:A1:877:G:H5'	1:A1:936:G:N2	2.19	0.57
1:A1:943:C:H5''	1:A1:944:A:OP2	2.03	0.57
2:CA:88:LYS:C	2:CA:90:ALA:H	2.08	0.57
44:DO:20:ARG:C	44:DO:22:LEU:H	2.06	0.57
54:DY:73:LEU:HA	54:DY:116:GLY:CA	2.34	0.57
35:DD:153:SER:O	35:DD:155:ASP:N	2.37	0.57
73:DM:36:GLN:C	73:DM:38:MET:H	2.07	0.57
1:C1:1422:A:O2'	1:C1:1423:U:H5'	2.03	0.57
21:CT:267:PRO:C	21:CT:269:TYR:H	2.06	0.57
29:D1:1710:C:H6	29:D1:1710:C:H5''	1.69	0.57
54:BY:42:ARG:O	54:BY:43:ILE:O	2.22	0.57
1:A1:1121:C:C2	1:A1:1127:G:N1	2.72	0.57
1:A1:1146:G:H8	1:A1:1635:A:H2	1.52	0.57
1:A1:48:G:C5	1:A1:432:G:N2	2.73	0.57
29:B1:1394:A:H2'	29:B1:1395:G:O4'	2.03	0.57
29:B1:1779:C:C4'	29:B1:1780:G:OP1	2.52	0.57
29:B1:2715:A:OP1	29:B1:2715:A:H2'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2999:U:H2'	29:B1:3000:A:H8	1.70	0.57
29:B1:3320:A:C2'	29:B1:3321:C:C6	2.74	0.57
29:B1:3327:G:N3	29:B1:3328:G:N7	2.50	0.57
29:B1:3376:A:C5'	29:B1:3377:G:H5''	2.34	0.57
29:B1:360:G:C5	29:B1:361:A:N6	2.72	0.57
29:B1:373:A:C6	29:B1:375:A:C6	2.91	0.57
29:B1:595:G:O6	29:B1:609:G:N3	2.37	0.57
29:B1:645:A:C5	29:B1:649:A:C5	2.93	0.57
29:B1:773:G:H21	29:B1:774:G:H1'	1.70	0.57
29:B1:947:G:H2'	29:B1:948:C:C6	2.34	0.57
33:BB:182:ALA:C	33:BB:184:ARG:N	2.57	0.57
35:BD:162:THR:HA	35:BD:218:ALA:HB1	1.85	0.57
1:C1:104:A:C6	1:C1:106:U:C2	2.92	0.57
1:C1:1671:A:C4	1:C1:1731:A:C2	2.92	0.57
1:C1:142:G:N2	1:C1:174:U:H1'	2.18	0.57
1:C1:269:G:C6	1:C1:270:C:C4	2.92	0.57
1:C1:295:A:C4'	1:C1:296:U:OP1	2.52	0.57
1:C1:387:A:H2'	1:C1:402:C:C6	2.39	0.57
1:C1:404:G:C4	1:C1:405:C:C5	2.91	0.57
1:C1:406:U:H6	1:C1:406:U:OP2	1.87	0.57
1:C1:478:A:C2	1:C1:479:C:N3	2.72	0.57
1:C1:61:A:C4'	1:C1:62:A:OP2	2.52	0.57
1:C1:768:C:H2'	1:C1:769:A:O4'	2.05	0.57
29:D1:1153:A:N7	29:D1:1154:A:C2	2.72	0.57
29:D1:1447:G:O2'	29:D1:1448:U:OP2	2.22	0.57
29:D1:1540:U:C2'	29:D1:1540:U:O2	2.52	0.57
29:D1:1552:G:H5''	29:D1:1553:U:OP2	2.04	0.57
29:D1:2394:G:H21	34:DC:258:ALA:HA	1.69	0.57
29:D1:2651:G:C2	29:D1:2796:G:C2	2.92	0.57
29:D1:2934:A:C5'	29:D1:2935:U:OP2	2.52	0.57
29:D1:3105:U:C5	29:D1:3106:A:N7	2.72	0.57
29:D1:3364:C:C2'	29:D1:3365:U:H5'	2.33	0.57
29:D1:339:C:C2'	29:D1:340:C:H5''	2.34	0.57
29:D1:749:C:C2	29:D1:750:G:N7	2.72	0.57
29:D1:807:A:C8	29:D1:807:A:H3'	2.39	0.57
29:D1:844:G:C6	29:D1:845:G:C6	2.92	0.57
29:D1:891:G:C5	29:D1:892:U:C5	2.93	0.57
31:D3:115:C:H2'	31:D3:116:G:O5'	2.04	0.57
31:D3:78:G:C6	31:D3:79:A:C6	2.91	0.57
37:DF:136:GLU:O	37:DF:138:GLN:N	2.37	0.57
37:DF:149:ILE:CB	37:DF:150:LYS:CB	2.82	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:225:A:O2'	1:A1:226:A:H8	1.85	0.57
1:C1:848:C:H2'	1:C1:849:C:C6	2.39	0.57
1:C1:660:G:H22	1:C1:683:C:H41	1.51	0.57
1:A1:653:C:C5	1:A1:654:C:C5	2.91	0.57
29:B1:965:A:C5	29:B1:966:U:C4	2.93	0.57
30:B2:12:U:N3	30:B2:70:U:OP1	2.37	0.57
30:B2:69:C:OP2	74:B2:209:OHX:N5	2.37	0.57
35:BD:63:GLU:O	35:BD:76:ARG:N	2.37	0.57
31:B3:76:C:C2'	53:BX:76:LEU:CB	2.80	0.57
1:A1:58:U:O2'	1:A1:451:A:N3	2.37	0.57
1:A1:73:U:H2'	1:A1:74:U:O4'	2.03	0.57
29:B1:2677:G:H2'	29:B1:2678:A:O5'	2.05	0.57
1:C1:1538:U:H5	1:C1:1540:G:C8	2.22	0.57
1:A1:1364:G:H2'	1:A1:1365:C:C5'	2.34	0.57
29:D1:436:A:C2	29:D1:624:G:C2	2.91	0.57
29:B1:3194:C:H3'	29:B1:3194:C:C6	2.39	0.57
29:B1:3238:G:O2'	29:B1:3239:G:H5'	2.05	0.57
29:D1:3172:A:O4'	29:D1:3172:A:OP1	2.20	0.57
29:D1:3225:C:H2'	29:D1:3226:A:C8	2.39	0.57
1:C1:887:A:C1'	9:CH:122:PRO:CB	2.72	0.57
29:D1:2523:A:H1'	29:D1:2524:A:O5'	2.02	0.57
29:D1:1245:A:H2'	29:D1:1272:C:OP1	2.03	0.57
29:B1:2435:G:O2'	29:B1:2436:U:OP2	2.22	0.57
29:D1:989:A:O2'	29:D1:990:U:H5'	2.04	0.57
29:B1:339:C:C2'	29:B1:340:C:H5''	2.34	0.57
29:D1:1625:A:N7	29:D1:1626:U:N1	2.52	0.57
29:D1:2210:G:C6	29:D1:2211:U:C4	2.92	0.57
29:B1:1621:A:H2'	29:B1:1622:U:H6	1.63	0.57
34:BC:51:ALA:HB2	34:BC:79:VAL:HA	1.85	0.57
1:C1:1754:A:O2'	1:C1:1755:A:P	2.62	0.57
29:D1:1680:G:C2	29:D1:1681:U:C6	2.92	0.57
39:BH:237:ILE:O	39:BH:238:LEU:C	2.43	0.57
29:B1:2119:A:C5	29:B1:2120:A:N1	2.73	0.57
29:B1:365:A:C2	29:B1:366:A:N3	2.73	0.57
1:A1:774:A:C5	1:A1:787:G:N2	2.73	0.57
8:CG:145:THR:N	8:CG:146:ALA:HA	2.17	0.57
36:BE:194:LEU:O	36:BE:195:LEU:C	2.41	0.57
29:D1:67:A:C2	29:D1:317:A:N7	2.72	0.57
1:C1:696:C:H5'	1:C1:697:C:OP1	2.04	0.57
1:A1:929:A:H1'	9:AH:123:SER:HA	1.87	0.57
16:AO:111:MET:CB	16:AO:116:ALA:HB2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:124:ARG:O	43:BN:126:GLN:N	2.37	0.57
13:AL:112:ASP:C	13:AL:114:GLU:H	2.07	0.57
54:BY:42:ARG:O	54:BY:43:ILE:C	2.43	0.57
4:CC:23:GLU:O	4:CC:26:THR:N	2.30	0.57
41:BJ:135:ILE:O	41:BJ:137:SER:N	2.38	0.57
21:AT:267:PRO:C	21:AT:269:TYR:H	2.07	0.57
53:BX:69:LYS:O	53:BX:83:ASP:N	2.35	0.57
1:A1:1150:G:N2	1:A1:1795:U:OP1	2.37	0.57
1:A1:121:U:H6	1:A1:121:U:H5'	1.69	0.57
1:A1:1632:C:O2'	1:A1:1633:A:O4'	2.21	0.57
29:B1:111:C:H2'	29:B1:111:C:O2	2.04	0.57
29:B1:1150:A:C8	29:B1:1310:G:H5''	2.39	0.57
29:B1:1517:G:C6	29:B1:1518:U:O4	2.58	0.57
29:B1:1602:A:C6	29:B1:1603:A:C6	2.92	0.57
29:B1:1658:G:C5	29:B1:1659:U:C5	2.92	0.57
29:B1:191:U:O2'	29:B1:192:C:C5'	2.49	0.57
29:B1:199:A:C4	29:B1:201:A:C8	2.92	0.57
29:B1:2181:C:C2	29:B1:2182:A:C8	2.92	0.57
29:B1:2290:C:H2'	29:B1:2291:A:H8	1.70	0.57
29:B1:2299:A:C6	29:B1:2300:G:C8	2.93	0.57
29:B1:2328:U:H2'	29:B1:2329:C:C5'	2.19	0.57
29:B1:3057:U:O2'	29:B1:3059:G:P	2.62	0.57
29:B1:3315:G:O5'	29:B1:3316:A:OP1	2.22	0.57
29:B1:3344:A:C4	29:B1:3361:G:O6	2.57	0.57
29:B1:372:A:N3	29:B1:372:A:H2'	2.18	0.57
29:B1:423:A:N1	29:B1:637:C:OP1	2.38	0.57
29:B1:563:U:C3'	29:B1:564:G:H4'	2.33	0.57
29:B1:581:U:H2'	29:B1:581:U:O2	2.04	0.57
29:B1:591:G:N3	29:B1:592:A:C8	2.72	0.57
29:B1:648:C:C5	29:B1:2374:C:O2'	2.51	0.57
29:B1:946:U:C2'	29:B1:947:G:H5'	2.33	0.57
43:BN:73:PRO:O	43:BN:76:ALA:N	2.37	0.57
1:C1:1109:G:C2	1:C1:1110:G:C5	2.92	0.57
1:C1:1111:G:C2'	1:C1:1112:G:H5'	2.35	0.57
1:C1:1153:G:H2'	1:C1:1154:G:O4'	2.05	0.57
1:C1:312:A:N1	1:C1:315:A:N7	2.52	0.57
1:C1:514:G:C2	1:C1:515:A:C8	2.92	0.57
1:C1:96:G:N2	1:C1:387:A:N1	2.51	0.57
1:C1:986:G:C4	1:C1:987:G:C8	2.93	0.57
29:D1:115:A:H2'	29:D1:116:A:C2	2.38	0.57
29:D1:1226:G:C2	29:D1:1227:C:C5	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1445:U:H5''	29:D1:1446:A:OP2	2.03	0.57
29:D1:1587:A:C2	29:D1:1590:G:C4	2.92	0.57
29:D1:1795:U:O4'	29:D1:1796:G:N3	2.37	0.57
29:D1:2143:A:C8	29:D1:2143:A:H3'	2.39	0.57
29:D1:2297:U:C2	29:D1:2299:A:C6	2.93	0.57
29:D1:2836:C:O2	29:D1:2836:C:H2'	2.05	0.57
29:D1:3039:C:C2	29:D1:3040:A:C8	2.91	0.57
29:D1:2390:A:C4'	29:D1:3307:A:H2	2.09	0.57
29:D1:3377:G:H1'	29:D1:3378:C:P	2.45	0.57
29:D1:609:G:P	29:D1:609:G:C3'	2.91	0.57
29:D1:1196:C:N3	30:D2:86:U:C6	2.72	0.57
31:D3:107:G:C2	31:D3:116:G:C5	2.92	0.57
1:A1:823:G:N2	1:A1:824:G:H2'	2.19	0.57
30:B2:69:C:OP2	74:B2:209:OHX:N6	2.37	0.57
31:B3:97:A:O2'	31:B3:98:U:H5'	2.04	0.57
1:A1:273:G:OP1	1:A1:273:G:H8	1.87	0.57
1:A1:282:C:O2	1:A1:282:C:H2'	2.03	0.57
1:A1:87:C:O2	1:A1:87:C:H2'	2.04	0.57
30:D2:67:G:N2	30:D2:68:C:C1'	2.67	0.57
1:C1:1720:G:H2'	1:C1:1721:A:H5'	1.86	0.57
29:B1:2675:C:H5	29:B1:2676:A:N6	2.02	0.57
29:B1:2677:G:N2	29:B1:2678:A:H5'	2.18	0.57
1:A1:1677:C:H2'	1:A1:1677:C:O2	2.03	0.57
1:C1:1202:A:OP1	1:C1:1203:A:OP2	2.22	0.57
1:C1:1203:A:C4'	1:C1:1204:A:OP2	2.52	0.57
1:C1:1232:U:O2	1:C1:1232:U:H3'	2.04	0.57
1:C1:1455:G:C6	1:C1:1456:C:N3	2.72	0.57
1:C1:1597:A:N7	1:C1:1598:U:C4	2.73	0.57
1:A1:1369:U:H2'	1:A1:1370:U:C6	2.39	0.57
1:A1:1484:G:H21	1:A1:1606:C:C1'	2.12	0.57
1:C1:1051:G:C2	1:C1:1052:U:N3	2.73	0.57
30:D2:55:A:P	30:D2:55:A:H3'	2.44	0.57
29:D1:1393:A:H2'	29:D1:1393:A:N3	2.17	0.57
29:D1:3223:A:H2'	29:D1:3223:A:N3	2.18	0.57
29:D1:3226:A:O2'	29:D1:3227:A:H5'	2.03	0.57
29:D1:3228:C:O4'	29:D1:3228:C:O2	2.17	0.57
29:D1:3257:C:O2'	29:D1:3258:U:H5	1.87	0.57
29:B1:2210:G:C6	29:B1:2211:U:C4	2.92	0.57
29:B1:2233:A:OP2	74:B1:3599:OHX:N5	2.37	0.57
29:B1:2593:A:C4'	29:B1:2594:C:OP2	2.53	0.57
4:CC:52:ALA:HB3	4:CC:55:THR:CB	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1402:G:C5	1:C1:1403:C:C4	2.92	0.57
29:D1:3005:A:N3	29:D1:3140:G:C2	2.72	0.57
29:B1:1626:U:C4	29:B1:1627:U:C4	2.92	0.57
29:D1:3072:C:C5	29:D1:3073:A:N7	2.69	0.57
29:B1:624:G:H2'	29:B1:625:G:H5'	1.87	0.57
29:D1:1921:A:O2'	29:D1:1922:A:H5'	2.04	0.57
29:D1:2578:U:H2'	29:D1:2579:G:O4'	2.03	0.57
1:C1:1575:G:OP1	1:C1:1575:G:C4'	2.53	0.57
1:C1:1578:U:HO2'	1:C1:1579:U:H5'	1.66	0.57
36:DE:125:VAL:HA	36:DE:169:GLY:HA3	1.85	0.57
29:B1:661:G:N1	29:B1:802:C:C5	2.72	0.57
45:DP:57:PHE:N	45:DP:60:LYS:CB	2.68	0.57
41:DJ:184:LYS:C	41:DJ:186:GLU:N	2.58	0.57
29:D1:2554:A:C2	33:DB:86:GLN:HA	2.39	0.57
1:C1:1084:A:C2'	1:C1:1085:G:H5'	2.33	0.57
29:B1:729:C:H2'	29:B1:730:C:O4'	2.03	0.57
49:DT:8:ARG:O	49:DT:11:THR:CB	2.51	0.57
8:CG:127:ARG:O	8:CG:131:THR:N	2.37	0.57
48:BS:25:ASP:C	48:BS:27:ASN:H	2.06	0.57
13:CL:48:LYS:C	13:CL:50:ALA:H	2.08	0.57
29:B1:1753:G:C4	29:B1:1754:G:C8	2.93	0.57
40:BI:121:LYS:O	40:BI:122:LYS:O	2.23	0.57
29:D1:3163:A:H8	29:D1:3163:A:OP2	1.87	0.57
44:DO:16:SER:O	44:DO:18:VAL:N	2.38	0.57
42:DK:73:GLY:O	42:DK:76:ALA:HB2	2.04	0.57
1:A1:1044:U:O2	1:A1:1044:U:C2'	2.50	0.57
1:A1:1050:G:C6	1:A1:1051:G:C4	2.92	0.57
1:A1:106:U:H3'	1:A1:107:C:C6	2.40	0.57
1:A1:472:U:C5	1:A1:473:A:C8	2.93	0.57
1:A1:527:A:P	1:A1:527:A:H3'	2.44	0.57
1:A1:534:A:O3'	1:A1:535:A:H8	1.88	0.57
1:A1:545:A:O2'	1:A1:546:U:C6	2.58	0.57
1:A1:989:U:C4	1:A1:990:C:C4	2.93	0.57
29:B1:9:U:N3	29:B1:10:C:C5	2.72	0.57
29:B1:1296:C:C2'	29:B1:1297:C:O5'	2.51	0.57
29:B1:1311:G:H8	29:B1:1311:G:O5'	1.87	0.57
29:B1:185:C:H2'	29:B1:186:U:C6	2.39	0.57
29:B1:2226:U:O2'	29:B1:2227:C:H6	1.86	0.57
29:B1:423:A:OP1	29:B1:2363:A:H4'	2.04	0.57
29:B1:2778:G:H2'	29:B1:2778:G:N3	2.17	0.57
29:B1:2834:G:O2'	29:B1:2835:U:C6	2.41	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3013:U:H2'	29:B1:3013:U:O2	2.03	0.57
29:B1:3153:U:H1'	29:B1:3395:G:H21	1.69	0.57
29:B1:536:U:H6	29:B1:536:U:O5'	1.87	0.57
29:B1:703:G:N1	29:B1:704:U:N3	2.52	0.57
29:B1:722:G:N2	29:B1:748:U:C2	2.72	0.57
29:B1:759:U:C2'	29:B1:760:G:H5''	2.34	0.57
29:B1:888:A:N6	29:B1:889:U:N3	2.52	0.57
29:B1:9:U:O4	29:B1:10:C:H5	1.86	0.57
1:C1:260:U:H3'	1:C1:261:U:H5''	1.86	0.57
1:C1:363:G:N2	1:C1:382:C:C2	2.72	0.57
1:C1:405:C:C2	1:C1:406:U:C5	2.93	0.57
29:D1:10:C:H5	31:D3:149:A:C2	2.23	0.57
29:D1:1128:U:C5'	29:D1:1129:A:OP2	2.52	0.57
29:D1:1140:G:C4	29:D1:1141:C:C5	2.91	0.57
29:D1:1313:G:C4	29:D1:1314:C:C5	2.92	0.57
29:D1:1779:C:OP1	29:D1:1779:C:O4'	2.21	0.57
29:D1:1779:C:OP1	29:D1:1780:G:OP1	2.21	0.57
29:D1:1787:A:C5	29:D1:1788:C:C5	2.92	0.57
29:D1:2275:A:C2	29:D1:2312:A:C4	2.92	0.57
29:D1:2658:G:C5	29:D1:2659:G:N7	2.73	0.57
29:D1:264:G:C6	29:D1:265:A:N6	2.72	0.57
29:D1:2649:A:C1'	29:D1:2696:A:H1'	2.34	0.57
29:D1:26:A:C2'	29:D1:27:C:C6	2.85	0.57
29:D1:2842:U:O2	29:D1:2842:U:C2'	2.53	0.57
29:D1:2997:G:H1'	29:D1:2998:U:OP2	2.03	0.57
29:D1:30:G:C6	29:D1:55:G:O6	2.57	0.57
29:D1:3376:A:OP2	29:D1:3376:A:C4'	2.51	0.57
29:D1:594:U:C2	29:D1:595:G:C6	2.92	0.57
29:D1:606:C:N4	29:D1:607:A:C6	2.66	0.57
29:D1:606:C:C2'	29:D1:607:A:N9	2.64	0.57
29:D1:716:A:H3'	29:D1:716:A:C8	2.38	0.57
1:A1:646:C:H2'	1:A1:647:G:C5'	2.34	0.57
29:B1:993:G:C5	29:B1:2637:A:C2	2.93	0.57
29:B1:998:A:H2'	29:B1:999:G:C5'	2.35	0.57
30:B2:67:G:H2'	30:B2:67:G:N3	2.19	0.57
30:D2:10:C:O2'	30:D2:13:A:C8	2.55	0.57
30:D2:14:U:O2'	30:D2:15:C:C4'	2.53	0.57
29:D1:2681:U:O2'	29:D1:2682:C:P	2.62	0.57
29:D1:2682:C:OP1	42:DK:50:ALA:N	2.38	0.57
29:B1:2675:C:C5	29:B1:2676:A:N6	2.73	0.57
1:C1:1381:U:C2'	1:C1:1382:A:H5'	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1558:U:OP2	1:C1:1559:A:H5'	2.04	0.57
1:A1:1425:A:C2'	1:A1:1426:C:H5'	2.35	0.57
46:BQ:11:PRO:O	46:BQ:12:ALA:HB2	2.03	0.57
29:B1:3219:G:C5	29:B1:3257:C:H3'	2.38	0.57
29:B1:3279:A:C5	29:B1:3280:U:O4	2.58	0.57
29:B1:3201:C:C6	29:B1:3201:C:OP2	2.56	0.57
29:D1:190:U:C4	29:D1:224:C:H1'	2.38	0.57
29:D1:221:A:C5	29:D1:224:C:C4	2.92	0.57
29:D1:1246:G:C2	29:D1:1247:U:O2	2.56	0.57
29:B1:349:A:C2	31:B3:24:G:C8	2.92	0.57
29:B1:2160:G:H2'	29:B1:2161:G:C8	2.39	0.57
29:D1:3273:A:N3	29:D1:3273:A:H2'	2.18	0.57
30:B2:120:C:N3	30:B2:121:U:O4	2.36	0.57
29:B1:137:G:C3'	29:B1:137:G:C8	2.88	0.57
29:B1:2879:C:C5	29:B1:2880:U:C5	2.92	0.57
29:B1:2880:U:H1'	34:BC:250:ALA:HB3	1.87	0.57
29:D1:3268:A:H1'	29:D1:3269:U:OP1	2.04	0.57
1:A1:1322:A:C5	1:A1:1323:C:C5	2.93	0.57
1:A1:1323:C:H2'	1:A1:1324:G:C1'	2.35	0.57
29:D1:2833:A:C2'	29:D1:2834:G:H5'	2.31	0.57
1:C1:1580:C:H2'	1:C1:1581:C:H6	1.68	0.57
1:C1:1737:G:C6	1:C1:1738:U:C4	2.92	0.57
29:B1:1353:U:H5	29:B1:1355:A:H62	1.53	0.57
47:DR:131:ALA:O	47:DR:132:PRO:C	2.42	0.57
29:D1:1741:A:H3'	29:D1:1742:U:C5	2.39	0.57
43:DN:22:LEU:CB	43:DN:65:LEU:CA	2.82	0.57
41:DJ:17:TYR:C	41:DJ:19:LYS:H	2.08	0.57
4:AC:69:LEU:O	4:AC:72:LEU:N	2.38	0.57
29:B1:1471:U:O4'	48:BS:3:ASN:HA	2.04	0.57
10:CI:37:ALA:HA	10:CI:40:ARG:CB	2.34	0.57
38:DG:222:HIS:CB	38:DG:228:SER:H	2.18	0.57
34:DC:105:VAL:C	34:DC:107:ALA:N	2.57	0.57
7:CF:125:VAL:HA	7:CF:139:VAL:HA	1.85	0.57
33:BB:209:HIS:O	33:BB:210:PRO:C	2.40	0.57
52:DW:133:LEU:O	52:DW:136:ALA:HB3	2.03	0.57
2:AA:54:TRP:O	2:AA:55:GLU:C	2.42	0.57
53:DX:64:LYS:O	53:DX:66:GLN:N	2.36	0.57
21:AT:18:GLY:O	21:AT:308:ASN:HA	2.05	0.57
15:CN:31:VAL:O	15:CN:35:GLU:N	2.37	0.57
29:D1:180:C:H2'	29:D1:181:U:C6	2.40	0.57
37:BF:108:LYS:O	37:BF:109:GLU:CB	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:534:A:C3'	1:A1:535:A:H8	2.18	0.57
1:A1:537:G:N2	1:A1:538:A:H1'	2.19	0.57
1:A1:7:G:H4'	1:A1:573:C:H4'	1.87	0.57
1:A1:635:A:C5	1:A1:863:A:N7	2.72	0.57
1:A1:970:A:H2'	1:A1:971:A:H5'	1.87	0.57
1:A1:986:G:O2'	1:A1:987:G:H2'	2.04	0.57
1:A1:986:G:O2'	1:A1:987:G:O5'	2.20	0.57
1:A1:993:A:H2'	1:A1:994:G:H5'	1.86	0.57
29:B1:1128:U:O2	29:B1:1129:A:H1'	2.05	0.57
29:B1:1168:U:H2'	29:B1:1169:A:H5'	1.87	0.57
29:B1:1659:U:N3	29:B1:1660:C:N4	2.53	0.57
29:B1:1797:A:C6	29:B1:1798:A:C5	2.92	0.57
29:B1:1838:G:O4'	29:B1:1839:A:C8	2.58	0.57
29:B1:184:U:C2	29:B1:185:C:C6	2.92	0.57
29:B1:221:A:C8	29:B1:224:C:N4	2.72	0.57
29:B1:2261:G:N2	29:B1:2263:C:C4	2.72	0.57
29:B1:2266:U:C4	29:B1:2267:C:N4	2.72	0.57
29:B1:2821:C:C2'	29:B1:2822:U:H5'	2.33	0.57
29:B1:2896:A:C2'	29:B1:2897:A:H5''	2.35	0.57
29:B1:2386:A:N9	29:B1:2994:A:C2	2.73	0.57
29:B1:3121:U:C2	29:B1:3122:A:C8	2.91	0.57
29:B1:3147:G:H4'	34:BC:101:SER:H	1.70	0.57
29:B1:3309:G:N3	29:B1:3310:A:C8	2.73	0.57
29:B1:3322:A:OP2	29:B1:3323:A:P	2.62	0.57
29:B1:66:A:H62	29:B1:76:G:H21	1.53	0.57
29:B1:815:G:C6	29:B1:906:A:N3	2.72	0.57
74:B1:3537:OHX:N4	38:BG:217:PRO:HA	2.20	0.57
1:C1:104:A:N6	1:C1:106:U:C2	2.72	0.57
1:C1:130:C:C4	1:C1:131:C:O2'	2.58	0.57
1:C1:1671:A:C4	1:C1:1731:A:N1	2.73	0.57
1:C1:282:C:C2'	1:C1:283:U:H5'	2.33	0.57
1:C1:312:A:C2	1:C1:315:A:C8	2.91	0.57
1:C1:602:U:C2	1:C1:603:U:C5	2.92	0.57
1:C1:866:G:C2	1:C1:867:G:C8	2.92	0.57
1:C1:982:U:O4	1:C1:983:A:N6	2.38	0.57
29:D1:1306:G:C8	45:DP:62:THR:CB	2.87	0.57
29:D1:1437:C:C2'	29:D1:1437:C:O2	2.50	0.57
29:D1:2226:U:O2'	29:D1:2227:C:H6	1.87	0.57
29:D1:2246:G:C2	29:D1:2247:G:C8	2.93	0.57
29:D1:2420:C:N4	29:D1:2421:U:C4	2.73	0.57
29:D1:2775:U:O2'	29:D1:2776:C:O5'	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2651:G:C4	29:D1:2796:G:N2	2.73	0.57
29:D1:2853:A:N6	29:D1:2854:U:N3	2.51	0.57
29:D1:2931:C:H2'	29:D1:2932:U:O4'	2.05	0.57
29:D1:3088:G:C6	29:D1:3089:C:C4	2.92	0.57
29:D1:3101:G:C5	29:D1:3134:A:C2	2.93	0.57
29:D1:3317:U:OP1	29:D1:3318:G:O5'	2.22	0.57
29:D1:360:G:N1	29:D1:361:A:N6	2.52	0.57
29:D1:40:A:C3'	29:D1:41:G:H5'	2.34	0.57
29:D1:577:C:HO2'	29:D1:578:A:P	2.28	0.57
29:D1:594:U:C2	29:D1:595:G:C4	2.93	0.57
29:D1:65:A:C3'	29:D1:111:C:H41	2.17	0.57
29:D1:722:G:N2	29:D1:748:U:C2	2.71	0.57
1:C1:687:G:C2	1:C1:688:G:C8	2.92	0.57
30:B2:102:A:H2'	30:B2:103:A:O5'	2.04	0.57
30:B2:77:G:H22	30:B2:101:G:H3'	1.70	0.57
1:A1:210:A:C6	1:A1:211:U:C4	2.93	0.57
1:A1:66:U:C4	1:A1:71:A:N6	2.72	0.57
30:D2:69:C:O2	30:D2:110:G:C2	2.58	0.57
30:D2:14:U:HO2'	30:D2:15:C:C4'	2.18	0.57
30:D2:63:A:C6	30:D2:65:G:O6	2.57	0.57
1:C1:1243:G:N2	1:C1:1452:U:H4'	2.19	0.57
1:C1:1472:C:C1'	1:C1:1473:U:OP2	2.52	0.57
1:C1:1474:G:N1	1:C1:1475:A:C6	2.72	0.57
1:C1:1552:U:O4	1:C1:1553:G:C6	2.58	0.57
1:C1:1590:G:H2'	1:C1:1591:C:H5	1.66	0.57
4:CC:47:GLU:HA	4:CC:85:VAL:O	2.05	0.57
30:B2:90:U:H5''	30:B2:91:G:OP2	2.04	0.57
29:B1:3219:G:H4'	29:B1:3220:G:C5'	2.34	0.57
29:D1:3196:U:C6	29:D1:3197:G:N2	2.73	0.57
29:D1:185:C:C2	29:D1:186:U:H5	2.21	0.57
29:D1:3219:G:N2	29:D1:3258:U:OP2	2.38	0.57
29:D1:3219:G:H4'	29:D1:3220:G:C5'	2.34	0.57
30:D2:41:G:C2	30:D2:43:U:C6	2.93	0.57
29:D1:1239:C:H2'	29:D1:1240:A:O4'	2.04	0.57
29:D1:3350:C:H2'	29:D1:3351:U:H3	1.70	0.57
29:D1:1065:A:N3	29:D1:1065:A:C3'	2.58	0.57
29:D1:3242:G:H5'	29:D1:3243:A:OP1	2.05	0.57
31:B3:25:G:C6	31:B3:26:U:C4	2.93	0.57
1:C1:1751:C:H2'	1:C1:1752:U:C6	2.40	0.57
1:C1:487:G:C2	1:C1:488:G:N7	2.73	0.57
1:A1:982:U:H2'	1:A1:983:A:C8	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:151:C:O5'	31:D3:151:C:H6	1.87	0.57
29:D1:1719:G:H4'	29:D1:1732:U:H4'	1.86	0.57
29:B1:2942:C:OP1	29:B1:2943:G:OP1	2.22	0.57
29:B1:601:U:N3	29:B1:602:A:C8	2.73	0.57
47:DR:96:PHE:CA	47:DR:97:PRO:CB	2.82	0.57
29:B1:271:C:C4	29:B1:295:A:N7	2.72	0.57
29:D1:2646:C:O2'	29:D1:2647:A:H5'	2.03	0.57
3:CB:118:ALA:HB2	3:CB:124:ALA:N	2.20	0.57
29:D1:2178:A:H1'	29:D1:2180:G:C5	2.40	0.57
29:B1:1493:G:O4'	29:B1:1493:G:N3	2.38	0.57
1:C1:738:G:H2'	1:C1:739:G:C8	2.39	0.57
8:AG:108:ASP:O	8:AG:111:ALA:HB3	2.04	0.57
29:B1:1459:C:H6	29:B1:1459:C:O5'	1.87	0.57
45:BP:192:LYS:C	45:BP:194:LEU:N	2.58	0.57
1:A1:768:C:C2'	1:A1:769:A:H5'	2.35	0.57
29:D1:176:G:O2'	29:D1:177:U:H6	1.88	0.57
13:AL:48:LYS:C	13:AL:50:ALA:H	2.08	0.57
1:C1:798:C:C2'	1:C1:799:A:H5'	2.35	0.57
50:BU:111:GLY:O	50:BU:112:SER:O	2.23	0.57
29:B1:2482:U:H2'	29:B1:2483:G:O4'	2.05	0.57
29:D1:2125:A:H5'	29:D1:2126:A:OP2	2.05	0.57
1:A1:1770:U:N3	1:A1:1793:G:N2	2.52	0.57
1:A1:1781:A:N1	1:A1:1782:A:C2	2.72	0.57
1:A1:17:C:C2	1:A1:18:C:C6	2.92	0.57
29:B1:1393:A:C2	29:B1:1394:A:C4	2.93	0.57
29:B1:1794:G:C4'	29:B1:1795:U:OP2	2.51	0.57
29:B1:873:C:H4'	29:B1:1907:C:O2'	2.05	0.57
29:B1:2185:G:C4	29:B1:2186:U:C5	2.92	0.57
29:B1:2661:G:H5'	29:B1:2749:G:N2	2.19	0.57
29:B1:2787:G:H2'	29:B1:2788:C:C6	2.40	0.57
29:B1:3072:C:H5	29:B1:3073:A:N7	2.02	0.57
29:B1:3324:C:HO2'	29:B1:3325:G:H5'	1.68	0.57
29:B1:564:G:H3'	29:B1:565:U:H6	1.70	0.57
29:B1:816:A:H5'	29:B1:906:A:H61	1.69	0.57
37:BF:165:LEU:O	37:BF:166:LYS:C	2.42	0.57
1:C1:1046:G:OP1	1:C1:1046:G:H8	1.88	0.57
1:C1:26:A:H3'	1:C1:26:A:OP1	2.04	0.57
1:C1:285:G:C6	1:C1:286:C:C4	2.92	0.57
1:C1:385:A:OP2	1:C1:385:A:C8	2.56	0.57
1:C1:572:C:N4	1:C1:573:C:N4	2.52	0.57
1:C1:820:U:H2'	1:C1:821:U:O5'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:975:C:C4	1:C1:976:G:C5	2.92	0.57
1:C1:97:C:O4'	1:C1:426:G:H4'	2.04	0.57
29:D1:1289:G:H2'	29:D1:1290:A:O4'	2.04	0.57
29:D1:1558:A:H5''	29:D1:1559:A:C4'	2.35	0.57
29:D1:1584:U:O2'	29:D1:1585:C:H5'	2.04	0.57
29:D1:2689:A:C2	29:D1:2702:A:C2	2.86	0.57
29:D1:3299:A:C4	29:D1:3300:U:C5	2.92	0.57
29:D1:3321:C:C4	29:D1:3322:A:N7	2.73	0.57
29:D1:3373:U:O4	29:D1:3374:U:O4	2.23	0.57
29:D1:347:G:N2	29:D1:353:G:C8	2.73	0.57
29:D1:1542:G:C6	74:D1:3556:OHX:N3	2.73	0.57
29:D1:385:A:C2	29:D1:386:A:C4	2.93	0.57
29:D1:559:A:O2'	29:D1:560:G:O5'	2.21	0.57
29:D1:588:G:H4'	29:D1:589:A:C5	2.38	0.57
31:D3:19:C:C2	31:D3:20:U:C5	2.93	0.57
29:D1:349:A:C2	31:D3:24:G:N9	2.73	0.57
31:D3:74:U:O4	31:D3:77:A:H5''	2.04	0.57
34:DC:40:PRO:O	34:DC:42:ALA:N	2.38	0.57
29:B1:2641:U:H5''	29:B1:2642:A:OP1	2.04	0.57
29:B1:957:C:H2'	29:B1:958:C:H6	1.70	0.57
30:B2:73:C:N3	30:B2:74:C:C4	2.73	0.57
1:A1:196:G:H1'	1:A1:197:A:H5'	1.85	0.57
1:A1:1721:A:O5'	1:A1:1721:A:H8	1.87	0.57
1:A1:335:U:C5'	1:A1:336:G:OP2	2.52	0.57
1:C1:1354:G:N3	1:C1:1354:G:H2'	2.19	0.57
1:C1:1491:U:H3'	1:C1:1492:A:C5'	2.35	0.57
1:C1:1515:A:C2'	1:C1:1516:A:H5''	2.34	0.57
1:C1:1534:G:H4'	1:C1:1536:G:N7	2.20	0.57
1:A1:1526:A:OP2	1:A1:1527:C:C5	2.57	0.57
29:D1:3209:A:H3'	29:D1:3210:A:H8	1.67	0.57
30:B2:90:U:O2	30:B2:90:U:H2'	2.04	0.57
29:D1:372:A:N7	29:D1:395:A:N7	2.52	0.57
29:D1:3276:G:H2'	29:D1:3277:U:O4'	2.05	0.57
29:B1:339:C:C2	29:B1:340:C:H5	2.23	0.57
29:B1:344:A:C2'	29:B1:345:G:O5'	2.51	0.57
29:D1:1647:A:C2	29:D1:1809:A:H1'	2.39	0.57
1:C1:1325:A:C2	1:C1:1326:A:C5	2.93	0.57
1:C1:1336:A:H5''	1:C1:1337:A:OP2	2.04	0.57
1:A1:1651:A:C2	1:A1:1652:C:C4	2.92	0.57
1:C1:492:A:C5	1:C1:494:U:H5''	2.39	0.57
29:B1:253:A:N6	29:B1:254:A:N6	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:358:U:H5''	1:A1:359:A:P	2.44	0.57
29:D1:2582:C:H3'	29:D1:2583:C:C6	2.40	0.57
29:D1:2582:C:O2	29:D1:2582:C:H2'	2.04	0.57
29:B1:1922:A:C8	29:B1:1923:C:C5	2.92	0.57
29:B1:1362:G:H2'	29:B1:1363:A:H8	1.67	0.57
54:BY:130:VAL:C	54:BY:132:LYS:H	2.07	0.57
1:C1:1433:G:N2	1:C1:1434:U:C4	2.73	0.57
29:B1:2287:C:O2	29:B1:2298:U:O2	2.22	0.57
29:D1:2768:U:H2'	29:D1:2769:A:C8	2.39	0.57
29:D1:2881:C:C2	29:D1:2882:U:C5	2.92	0.57
29:B1:102:C:H1'	29:B1:103:G:P	2.45	0.57
43:DN:22:LEU:O	43:DN:23:ILE:CB	2.53	0.57
1:C1:1397:U:H5''	1:C1:1398:U:OP2	2.05	0.57
29:D1:661:G:C2	29:D1:802:C:C6	2.92	0.57
1:A1:748:U:H4'	16:AO:123:GLY:HA2	1.85	0.57
29:B1:898:U:C4	29:B1:899:U:C4	2.92	0.57
3:CB:213:ALA:O	3:CB:215:PHE:N	2.36	0.57
3:CB:215:PHE:HA	3:CB:218:ILE:CB	2.35	0.57
6:CE:131:GLN:O	6:CE:133:HIS:N	2.35	0.57
29:B1:1049:C:O2'	29:B1:1050:U:H5'	2.05	0.57
1:A1:894:U:H1'	1:A1:919:A:C2	2.40	0.57
43:DN:97:SER:C	43:DN:99:TRP:H	2.06	0.57
35:DD:265:GLU:O	35:DD:266:THR:CB	2.52	0.57
41:BJ:7:ARG:C	41:BJ:9:TYR:H	2.07	0.57
21:CT:35:SER:CB	21:CT:43:ILE:O	2.53	0.57
21:AT:243:LEU:O	21:AT:244:ALA:HB2	2.04	0.57
14:CM:7:ARG:O	14:CM:8:ASP:CB	2.53	0.57
1:A1:15:U:C2	1:A1:16:G:C8	2.92	0.57
1:A1:620:A:C5	1:A1:621:A:N1	2.73	0.57
1:A1:954:G:C5	1:A1:955:A:N7	2.72	0.57
29:B1:1138:U:H2'	29:B1:1139:G:H5''	1.87	0.57
29:B1:1140:G:C4	29:B1:1141:C:C5	2.92	0.57
29:B1:1157:G:C5'	29:B1:1157:G:C8	2.85	0.57
29:B1:1330:A:O2'	29:B1:1331:U:H2'	2.04	0.57
29:B1:1366:A:N3	29:B1:1367:G:C8	2.72	0.57
29:B1:150:A:N7	29:B1:151:A:N7	2.53	0.57
29:B1:2199:G:C6	29:B1:2200:U:C4	2.92	0.57
29:B1:2325:G:C2	29:B1:2326:A:C8	2.93	0.57
29:B1:3323:A:C6	29:B1:3324:C:C5	2.93	0.57
29:B1:430:U:O2'	29:B1:431:U:H5'	2.05	0.57
29:B1:505:G:N7	29:B1:506:U:C5	2.73	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:49:A:O2'	29:B1:50:U:OP1	2.21	0.57
29:B1:509:U:H2'	29:B1:510:G:H5'	1.86	0.57
29:B1:820:A:C2	29:B1:911:C:O2'	2.58	0.57
31:B3:141:C:O2'	44:BO:110:ALA:HB1	2.05	0.57
29:B1:5:G:H22	31:B3:155:A:C1'	2.13	0.57
1:C1:1131:A:N3	1:C1:1131:A:H2'	2.19	0.57
1:C1:119:A:OP2	1:C1:120:U:C5	2.58	0.57
1:C1:1780:G:H2'	1:C1:1781:A:C8	2.39	0.57
1:C1:39:A:C5	1:C1:467:G:N2	2.73	0.57
1:C1:524:U:C4	1:C1:527:A:C5	2.93	0.57
1:C1:813:U:C6	48:DS:162:ARG:CB	2.88	0.57
29:D1:1153:A:N7	29:D1:1154:A:N1	2.52	0.57
29:D1:1225:A:H2'	29:D1:1226:G:OP1	2.04	0.57
29:D1:152:U:H2'	29:D1:153:U:C6	2.33	0.57
29:D1:1943:C:H4'	29:D1:3344:A:H5'	1.86	0.57
29:D1:2285:C:C5	29:D1:2286:U:C4	2.93	0.57
29:D1:2407:C:H1'	29:D1:2818:U:N3	2.20	0.57
29:D1:2423:U:H2'	29:D1:2424:A:OP2	2.05	0.57
29:D1:270:U:O2'	29:D1:271:C:H5'	2.05	0.57
29:D1:2896:A:C5'	29:D1:2896:A:H8	2.18	0.57
29:D1:342:A:C4'	29:D1:344:A:N7	2.65	0.57
29:D1:547:G:C8	29:D1:548:G:C5	2.93	0.57
29:D1:572:A:C5	29:D1:573:C:C4	2.92	0.57
35:DD:16:THR:CB	35:DD:152:VAL:HA	2.35	0.57
37:DF:142:ASP:O	37:DF:144:ALA:N	2.30	0.57
1:A1:217:A:H1'	1:A1:218:A:P	2.45	0.57
30:B2:77:G:N2	30:B2:101:G:C4	2.73	0.57
30:B2:60:G:N3	30:B2:61:G:C8	2.72	0.57
31:B3:49:G:C6	31:B3:50:C:C4	2.93	0.57
31:B3:49:G:H2'	31:B3:50:C:O5'	2.04	0.57
31:B3:78:G:H2'	31:B3:79:A:C8	2.39	0.57
31:B3:71:A:C6	31:B3:87:G:C5	2.91	0.57
1:A1:173:A:C6	1:A1:174:U:N1	2.73	0.57
1:A1:192:U:H6	1:A1:192:U:H3'	1.70	0.57
30:D2:8:G:OP1	49:DT:28:SER:CB	2.53	0.57
1:C1:115:G:N2	1:C1:334:G:H21	2.02	0.57
1:C1:1683:C:O2'	1:C1:1684:U:N3	2.37	0.57
1:C1:327:U:H5''	1:C1:328:A:OP2	2.05	0.57
1:C1:340:U:C2	1:C1:341:A:C8	2.93	0.57
1:C1:1179:G:N2	1:C1:1461:C:C4	2.73	0.57
1:C1:1209:C:N3	1:C1:1455:G:N2	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1235:C:H2'	1:C1:1236:A:O4'	2.05	0.57
1:C1:1382:A:C4	1:C1:1383:G:N7	2.72	0.57
1:C1:1499:G:O6	1:C1:1508:U:C2	2.55	0.57
1:C1:1522:U:H2'	1:C1:1523:G:O5'	2.05	0.57
1:C1:1584:G:N3	1:C1:1584:G:H2'	2.20	0.57
1:C1:1382:A:H5''	15:CN:59:PRO:HA	1.85	0.57
1:A1:1169:G:C2	1:A1:1577:A:C6	2.92	0.57
1:A1:1200:G:H5''	1:A1:1200:G:C8	2.39	0.57
1:A1:1449:U:C2'	1:A1:1450:U:O5'	2.53	0.57
1:A1:1557:U:OP2	1:A1:1560:U:O4	2.22	0.57
1:C1:1065:A:C5	1:C1:1066:C:C4	2.92	0.57
29:B1:3200:G:OP2	29:B1:3200:G:C8	2.58	0.57
29:D1:3204:C:C5'	43:DN:88:ALA:HB3	2.32	0.57
29:D1:1422:G:C5	29:D1:1423:C:C5	2.92	0.57
29:B1:1257:C:H42	29:B1:1261:G:N2	2.01	0.57
30:D2:38:U:C2'	30:D2:40:C:C5'	2.83	0.57
30:D2:46:A:H3'	30:D2:46:A:C4	2.40	0.57
29:D1:1238:C:H2'	29:D1:1239:C:H6	1.67	0.57
29:B1:345:G:OP1	29:B1:1429:G:N2	2.37	0.57
29:B1:1099:A:C2'	29:B1:1100:U:H5'	2.34	0.57
29:B1:1641:U:H4'	29:B1:1642:A:OP1	2.04	0.57
29:D1:2131:A:H3'	29:D1:2131:A:C8	2.40	0.57
29:D1:3069:G:N3	29:D1:3070:A:C8	2.73	0.57
1:C1:921:U:C2	1:C1:922:G:N7	2.73	0.57
29:D1:649:A:N3	29:D1:650:C:C5	2.73	0.57
29:B1:2105:G:H8	29:B1:2105:G:H5'	1.67	0.57
29:D1:1351:U:O2	29:D1:1351:U:C2'	2.53	0.57
29:B1:1337:A:C4	29:B1:1338:C:C5	2.92	0.57
53:DX:19:TYR:C	53:DX:21:THR:H	2.03	0.57
29:B1:1919:G:C2	29:B1:1920:U:C2	2.92	0.57
40:DI:111:PHE:CA	40:DI:112:ILE:C	2.71	0.57
6:CE:68:LYS:C	6:CE:70:LEU:N	2.57	0.57
1:C1:310:C:C3'	1:C1:310:C:C6	2.87	0.57
3:CB:152:HIS:C	3:CB:154:LEU:H	2.08	0.57
14:CM:28:LEU:C	14:CM:30:VAL:N	2.56	0.57
2:CA:130:ALA:O	2:CA:132:ALA:N	2.38	0.57
42:BK:133:ARG:N	42:BK:155:THR:N	2.53	0.57
38:DG:240:VAL:O	38:DG:241:LYS:C	2.43	0.57
29:D1:1424:C:N4	29:D1:1425:U:C4	2.72	0.57
37:BF:120:ASN:O	37:BF:121:LEU:CB	2.52	0.57
3:CB:237:VAL:O	3:CB:238:SER:C	2.43	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DR:22:ASP:O	47:DR:23:ASN:C	2.43	0.57
36:DE:216:GLU:C	36:DE:219:PHE:H	2.08	0.57
40:BI:85:GLY:HA3	40:BI:187:ILE:C	2.25	0.57
29:D1:2752:U:O2	29:D1:2752:U:H3'	2.05	0.57
1:A1:1141:G:N3	1:A1:1142:A:C8	2.73	0.57
1:A1:1002:G:N2	1:A1:1760:G:O3'	2.38	0.57
1:A1:18:C:H2'	1:A1:19:A:C8	2.40	0.57
1:A1:295:A:N3	1:A1:296:U:O4'	2.38	0.57
1:A1:527:A:H3'	1:A1:527:A:OP2	2.03	0.57
1:A1:873:U:N3	1:A1:874:C:N4	2.52	0.57
29:B1:1454:A:O4'	29:B1:1878:G:N2	2.37	0.57
29:B1:1590:G:C2	29:B1:1591:G:C8	2.93	0.57
29:B1:1875:G:C6	29:B1:1876:U:C5	2.92	0.57
29:B1:1907:C:H6	29:B1:1907:C:H3'	1.69	0.57
29:B1:2167:A:H3'	29:B1:2168:A:C8	2.38	0.57
29:B1:2248:C:C4'	29:B1:2271:A:H2	2.17	0.57
29:B1:2194:G:H1'	29:B1:2274:U:O2	2.04	0.57
29:B1:2285:C:H5	29:B1:2286:U:N1	2.03	0.57
29:B1:2371:G:H5''	29:B1:2372:A:P	2.45	0.57
29:B1:279:U:OP2	74:B1:3536:OHX:N5	2.38	0.57
29:B1:3102:G:C2	29:B1:3103:A:C4	2.93	0.57
29:B1:717:C:C5'	29:B1:719:U:O4'	2.50	0.57
29:B1:744:A:C6	29:B1:745:C:C4	2.93	0.57
29:B1:746:A:O2'	29:B1:747:A:OP1	2.23	0.57
29:B1:2990:G:H5'	34:BC:20:LYS:CB	2.34	0.57
1:C1:1075:C:N4	1:C1:1076:A:N6	2.53	0.57
1:C1:298:C:C6	1:C1:298:C:C3'	2.86	0.57
1:C1:379:U:N3	1:C1:380:U:H5	2.03	0.57
1:C1:401:A:C2	1:C1:404:G:C8	2.92	0.57
1:C1:550:A:H4'	1:C1:556:A:C6	2.40	0.57
1:C1:71:A:H2	1:C1:72:A:H62	1.45	0.57
1:C1:862:A:C8	1:C1:963:A:N6	2.73	0.57
29:D1:1317:A:C4	29:D1:1319:G:C8	2.92	0.57
29:D1:1446:A:N1	29:D1:2356:A:H5''	2.20	0.57
29:D1:1480:G:C2	29:D1:1871:U:OP2	2.57	0.57
29:D1:1489:A:OP2	29:D1:1838:G:N1	2.38	0.57
29:D1:1528:G:C4	29:D1:1529:A:C8	2.92	0.57
29:D1:156:G:C1'	29:D1:157:A:OP1	2.53	0.57
29:D1:2225:U:O2'	29:D1:2226:U:H5'	2.03	0.57
29:D1:2280:A:O2'	29:D1:2281:A:O5'	2.20	0.57
29:D1:2648:G:C6	29:D1:2649:A:N7	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2761:G:N2	29:D1:2795:U:N1	2.53	0.57
29:D1:2933:A:C6	29:D1:2934:A:C2	2.93	0.57
29:D1:380:U:H2'	29:D1:381:U:C5	2.39	0.57
29:D1:413:U:O5'	29:D1:413:U:H6	1.86	0.57
29:D1:420:G:H21	29:D1:2384:A:C2'	2.17	0.57
29:D1:421:G:C2	29:D1:2365:C:C2	2.92	0.57
29:D1:572:A:C8	29:D1:573:C:C5	2.93	0.57
29:D1:770:G:H3'	29:D1:771:A:H5''	1.87	0.57
29:D1:773:G:O2'	29:D1:774:G:C8	2.26	0.57
29:D1:80:G:O2'	29:D1:81:C:H5'	2.04	0.57
29:D1:81:C:O2'	29:D1:82:C:C5'	2.45	0.57
31:D3:71:A:C6	31:D3:87:G:C5	2.93	0.57
37:DF:40:LEU:CA	37:DF:85:ILE:HA	2.35	0.57
37:DF:92:SER:O	37:DF:93:VAL:C	2.43	0.57
74:D1:3502:OHX:N6	54:DY:20:GLY:CA	2.68	0.57
1:C1:823:G:N2	1:C1:824:G:H2'	2.19	0.57
1:A1:151:G:N1	1:A1:163:G:N2	2.36	0.57
1:A1:89:G:N2	1:A1:90:C:C2	2.73	0.57
30:D2:74:C:C5	30:D2:75:G:C5	2.93	0.57
1:A1:328:A:C6	1:A1:341:A:C6	2.93	0.57
1:C1:1239:U:O2'	1:C1:1240:U:C6	2.57	0.57
1:C1:1497:U:C4	1:C1:1511:U:C2	2.93	0.57
1:C1:1556:A:H2'	1:C1:1560:U:C5	2.39	0.57
1:A1:1348:A:C5	1:A1:1379:C:C4	2.93	0.57
1:A1:1272:U:O4	1:A1:1431:C:O2	2.23	0.57
1:A1:1497:U:C5	1:A1:1498:G:N7	2.72	0.57
1:C1:1056:U:H1'	1:C1:1064:G:H21	1.68	0.57
29:B1:3182:G:N2	29:B1:3189:G:OP1	2.34	0.57
29:B1:3203:U:O3'	29:B1:3204:C:O4'	2.22	0.57
29:D1:333:G:H2'	29:D1:334:A:C8	2.39	0.57
29:D1:3234:A:O2'	29:D1:3235:C:H5'	2.04	0.57
29:B1:1597:C:H5'	29:B1:1696:A:H1'	1.87	0.57
29:D1:1250:G:N2	29:D1:1251:A:C2	2.73	0.57
29:D1:1258:U:C2'	29:D1:1259:A:O5'	2.50	0.57
29:D1:3245:A:C2	29:D1:3246:G:H1'	2.40	0.57
1:C1:1410:A:N7	1:C1:1411:A:C5	2.73	0.57
29:B1:3262:U:OP2	29:B1:3262:U:C3'	2.52	0.57
29:B1:3264:G:H2'	29:B1:3265:C:C5'	2.31	0.57
1:A1:1335:U:H2'	1:A1:1335:U:O2	2.03	0.57
1:A1:915:A:N7	1:A1:916:U:C4	2.72	0.57
1:C1:1783:C:H2'	1:C1:1784:C:C6	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3268:A:C1'	29:D1:3269:U:P	2.92	0.57
29:D1:1915:A:H5''	48:DS:84:THR:N	2.19	0.57
1:C1:1285:U:O2	1:C1:1286:U:C5	2.58	0.57
5:CD:166:ARG:O	5:CD:169:ASN:N	2.38	0.57
1:A1:1325:A:H2'	1:A1:1326:A:C8	2.40	0.57
5:AD:200:ASN:C	5:AD:204:GLY:HA3	2.25	0.57
5:CD:112:ARG:O	5:CD:113:ILE:C	2.43	0.57
29:D1:1021:G:C6	29:D1:1022:U:C4	2.93	0.57
1:C1:789:A:C2	1:C1:790:U:H1'	2.40	0.57
29:B1:600:G:C2	29:B1:604:G:C6	2.92	0.57
29:D1:1359:C:O2	29:D1:1359:C:H2'	2.05	0.57
47:BR:131:ALA:O	47:BR:132:PRO:C	2.42	0.57
29:B1:1720:U:H3'	29:B1:1720:U:C6	2.39	0.57
32:DA:155:ILE:N	32:DA:156:LYS:HA	2.19	0.57
29:B1:790:U:H4'	35:BD:112:LYS:O	2.04	0.57
29:D1:176:G:O2'	29:D1:177:U:C6	2.57	0.57
38:BG:224:ILE:C	38:BG:226:GLY:H	2.08	0.57
5:CD:57:SER:O	5:CD:59:VAL:O	2.23	0.57
13:CL:46:VAL:C	13:CL:48:LYS:H	2.07	0.57
50:DU:127:PRO:O	50:DU:130:ALA:HB3	2.05	0.57
40:DI:168:ARG:O	40:DI:169:ASN:CB	2.52	0.57
13:AL:33:THR:HA	13:AL:38:VAL:O	2.05	0.57
37:DF:108:LYS:O	37:DF:109:GLU:CB	2.53	0.57
3:AB:65:GLU:O	3:AB:66:PHE:CB	2.53	0.57
2:CA:52:LYS:C	2:CA:54:TRP:H	2.07	0.57
72:DL:16:ARG:O	72:DL:17:ALA:HB3	2.05	0.57
1:A1:1047:G:H2'	1:A1:1048:G:H8	1.69	0.57
1:A1:521:A:H2'	1:A1:521:A:N3	2.20	0.57
1:A1:607:G:H5'	1:A1:613:G:N2	2.20	0.57
29:B1:65:A:C8	29:B1:110:G:O6	2.57	0.57
29:B1:1174:G:O2'	29:B1:1175:C:H5'	2.05	0.57
29:B1:1304:A:H2	29:B1:2938:G:N3	2.03	0.57
29:B1:1388:U:N3	29:B1:1389:G:N7	2.53	0.57
29:B1:157:A:C2'	29:B1:158:G:C5	2.87	0.57
29:B1:1875:G:C6	29:B1:1876:U:C4	2.92	0.57
29:B1:2244:A:O2'	29:B1:2245:C:H5'	2.04	0.57
29:B1:2283:G:H1'	29:B1:2284:C:H5	1.70	0.57
29:B1:2663:G:H2'	29:B1:2663:G:N3	2.18	0.57
29:B1:3109:G:C2	29:B1:3110:C:C6	2.93	0.57
29:B1:3393:U:C2	29:B1:3394:U:C6	2.93	0.57
29:B1:359:U:C2'	29:B1:360:G:H5'	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:716:A:H2'	29:B1:717:C:H1'	1.86	0.57
29:B1:739:G:C3'	29:B1:740:G:H8	2.18	0.57
29:B1:64:G:HO2'	29:B1:77:A:H1'	1.69	0.57
29:B1:901:G:C4	29:B1:902:G:C8	2.93	0.57
29:B1:945:C:H2'	29:B1:946:U:H6	1.70	0.57
34:BC:132:LYS:C	34:BC:134:SER:H	2.09	0.57
1:C1:103:A:C6	1:C1:360:A:C2	2.93	0.57
1:C1:295:A:N3	1:C1:296:U:O4'	2.38	0.57
1:C1:407:A:C5	1:C1:408:C:C5	2.93	0.57
1:C1:63:G:O4'	1:C1:170:U:C2	2.58	0.57
1:C1:959:U:H4'	1:C1:960:U:OP2	2.03	0.57
29:D1:1225:A:H2'	29:D1:1226:G:C8	2.39	0.57
29:D1:1514:G:N7	29:D1:1841:A:C2	2.73	0.57
29:D1:1518:U:C2	29:D1:1519:G:C8	2.93	0.57
29:D1:153:U:C3'	29:D1:158:G:H21	2.18	0.57
29:D1:1895:A:C2	29:D1:2341:A:C2	2.92	0.57
29:D1:2127:U:O4'	29:D1:2301:U:H5''	2.05	0.57
29:D1:1508:C:O2'	29:D1:2353:G:H1'	2.04	0.57
29:D1:2352:A:O2'	29:D1:2353:G:H5'	2.05	0.57
29:D1:2352:A:H2'	29:D1:2353:G:H8	1.70	0.57
29:D1:257:U:O2'	29:D1:258:G:O5'	2.19	0.57
29:D1:3025:C:O2'	29:D1:3026:G:H5'	2.04	0.57
29:D1:3064:U:O2	29:D1:3065:G:C8	2.57	0.57
29:D1:3341:U:N3	29:D1:3362:A:C2	2.73	0.57
29:D1:35:A:C6	29:D1:36:C:C5	2.93	0.57
29:D1:521:A:C8	29:D1:571:U:O4	2.58	0.57
29:D1:746:A:C5'	29:D1:746:A:C8	2.88	0.57
29:D1:877:C:C3'	29:D1:877:C:C6	2.88	0.57
31:D3:24:G:H21	31:D3:25:G:H1'	1.70	0.57
31:D3:69:U:C4	31:D3:70:G:C8	2.93	0.57
46:DQ:83:TRP:O	46:DQ:85:ALA:N	2.37	0.57
1:A1:830:U:O2'	1:A1:831:U:H6	1.86	0.57
1:C1:222:A:N7	1:C1:223:U:C5	2.73	0.57
31:B3:67:U:C2'	31:B3:68:G:C8	2.88	0.57
31:B3:68:G:C5	31:B3:69:U:C5	2.93	0.57
1:A1:168:A:H3'	1:A1:169:A:H8	1.70	0.57
1:A1:260:U:H3'	1:A1:261:U:C5'	2.35	0.57
1:A1:289:U:O2	1:A1:290:G:H8	1.88	0.57
1:A1:80:A:N3	1:A1:80:A:H2'	2.19	0.57
1:A1:88:U:C5	1:A1:89:G:N7	2.72	0.57
29:B1:2673:A:OP1	42:BK:105:GLY:HA2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1585:U:N3	1:C1:1611:A:H2	2.03	0.57
1:A1:1377:U:O2	1:A1:1378:U:C4'	2.52	0.57
1:A1:1467:C:H5'	1:A1:1602:C:P	2.44	0.57
15:AN:58:LEU:O	15:AN:59:PRO:CB	2.53	0.57
29:D1:3200:G:C6	29:D1:3201:C:N4	2.72	0.57
29:D1:185:C:H2'	29:D1:186:U:H6	1.69	0.57
29:D1:198:A:N1	29:D1:219:A:C5	2.73	0.57
29:B1:1272:C:H2'	29:B1:1273:A:O5'	2.05	0.57
29:D1:3280:U:O2	29:D1:3281:U:C5	2.57	0.57
29:D1:2522:G:H1'	29:D1:2523:A:OP1	2.04	0.57
29:D1:1237:G:C2	29:D1:1252:A:H2	2.23	0.57
29:B1:2210:G:C6	29:B1:2236:G:N2	2.73	0.57
29:B1:73:C:O5'	29:B1:74:G:OP2	2.23	0.57
29:B1:2161:G:C5'	29:B1:2162:U:OP2	2.41	0.57
1:A1:887:A:C1'	9:AH:122:PRO:CB	2.75	0.57
29:D1:2433:U:H1'	44:DO:125:SER:CB	2.35	0.57
34:BC:49:TYR:O	34:BC:51:ALA:N	2.37	0.57
29:B1:124:U:C2'	29:B1:125:C:O4'	2.45	0.57
1:A1:1419:G:H2'	1:A1:1420:C:O4'	2.05	0.57
29:B1:3273:A:C8	29:B1:3275:U:C5	2.92	0.57
29:D1:2834:G:C4	29:D1:2835:U:H5	2.19	0.57
5:CD:195:ALA:O	5:CD:198:LEU:N	2.23	0.57
1:C1:778:G:H2'	1:C1:779:U:H2'	1.87	0.57
10:CI:21:ASP:HA	10:CI:25:LEU:CB	2.35	0.57
46:DQ:25:SER:O	46:DQ:27:LYS:N	2.37	0.57
29:B1:2546:C:N4	29:B1:2547:A:N6	2.52	0.57
44:BO:158:HIS:C	44:BO:160:GLU:H	2.08	0.57
29:B1:244:G:C5	29:B1:245:U:O2	2.57	0.57
1:A1:809:A:C6	1:A1:810:G:O6	2.58	0.57
42:DK:133:ARG:CA	42:DK:155:THR:H	2.18	0.57
29:B1:2503:G:C5	29:B1:2504:U:C4	2.92	0.57
40:BI:71:VAL:O	40:BI:72:LYS:C	2.43	0.57
44:BO:99:ARG:O	44:BO:102:ALA:HB3	2.05	0.57
10:CI:67:ALA:HA	10:CI:68:PRO:C	2.25	0.57
21:AT:264:SER:O	21:AT:268:GLN:HA	2.05	0.57
42:BK:93:ASP:HA	42:BK:170:ASP:O	2.05	0.57
34:DC:317:ILE:O	34:DC:318:LYS:CB	2.53	0.57
3:CB:89:GLN:HA	3:CB:94:GLN:HA	1.87	0.57
1:A1:908:U:O5'	1:A1:908:U:H6	1.88	0.57
73:DM:50:VAL:CB	73:DM:88:PHE:O	2.53	0.57
1:A1:1000:C:C5	1:A1:1003:A:OP2	2.56	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1727:G:N1	1:A1:1728:A:C6	2.72	0.56
1:A1:1794:A:C6	1:A1:1796:C:N4	2.73	0.56
1:A1:26:A:OP2	1:A1:26:A:H8	1.88	0.56
1:A1:545:A:H2	1:A1:546:U:C2	2.23	0.56
1:A1:940:A:C2	1:A1:941:A:C4	2.93	0.56
1:A1:95:G:HO2'	1:A1:460:A:HO2'	1.52	0.56
1:A1:993:A:H2'	1:A1:994:G:C5'	2.35	0.56
29:B1:1104:G:H2'	29:B1:1105:A:O5'	2.05	0.56
29:B1:1202:A:H2'	29:B1:1203:A:OP2	2.05	0.56
29:B1:1206:G:H2'	29:B1:1206:G:N3	2.19	0.56
29:B1:1440:G:N3	29:B1:1441:G:C8	2.73	0.56
29:B1:1558:A:H5''	29:B1:1559:A:C4'	2.35	0.56
29:B1:1568:U:H2'	29:B1:1570:U:OP2	2.05	0.56
29:B1:1604:G:H2'	29:B1:1605:A:C5'	2.35	0.56
29:B1:1675:G:N2	29:B1:1773:C:C4	2.73	0.56
29:B1:1797:A:H2'	29:B1:1798:A:C8	2.41	0.56
29:B1:1886:A:C5	29:B1:1887:A:C8	2.93	0.56
29:B1:2191:U:C4	29:B1:2192:C:C5	2.93	0.56
29:B1:2288:G:C2	29:B1:2289:U:C4	2.93	0.56
29:B1:421:G:N2	29:B1:2365:C:O2	2.38	0.56
29:B1:2661:G:H2'	29:B1:2662:G:H8	1.69	0.56
29:B1:3144:G:C6	74:B1:3428:OHX:N5	2.73	0.56
29:B1:3335:A:N6	29:B1:3336:A:C2	2.72	0.56
29:B1:53:G:H2'	29:B1:54:C:C6	2.37	0.56
29:B1:574:U:H2'	29:B1:575:G:H5''	0.78	0.56
29:B1:637:C:C2	29:B1:638:C:C5	2.93	0.56
29:B1:649:A:C4	29:B1:650:C:C5	2.93	0.56
29:B1:809:G:C2	29:B1:810:A:C8	2.93	0.56
31:B3:113:U:H1'	31:B3:114:G:P	2.42	0.56
37:BF:166:LYS:O	37:BF:170:LYS:N	2.37	0.56
1:C1:1031:U:H4'	1:C1:1032:G:OP2	2.04	0.56
1:C1:154:G:H5''	1:C1:155:U:OP2	2.05	0.56
1:C1:18:C:H2'	1:C1:19:A:O4'	2.04	0.56
1:C1:524:U:O2	1:C1:524:U:C3'	2.53	0.56
1:C1:605:A:C5	1:C1:606:A:N1	2.73	0.56
29:D1:1129:A:H2'	29:D1:1130:A:C5'	2.30	0.56
29:D1:1448:U:C5	29:D1:2355:G:N3	2.72	0.56
29:D1:1604:G:H2'	29:D1:1605:A:C5'	2.35	0.56
29:D1:1850:A:O2'	29:D1:1851:G:H5'	2.04	0.56
29:D1:2413:A:O2'	29:D1:2414:G:H5'	2.05	0.56
29:D1:2876:C:C2	29:D1:2952:G:C2	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3064:U:H2'	29:D1:3065:G:H8	1.71	0.56
29:D1:3120:C:HO2'	29:D1:3121:U:H6	1.54	0.56
29:D1:420:G:C8	29:D1:2385:G:C6	2.92	0.56
29:D1:422:A:H1'	29:D1:423:A:O5'	2.04	0.56
29:D1:514:G:H2'	29:D1:515:C:C6	2.40	0.56
29:D1:533:A:C6	29:D1:555:U:C6	2.93	0.56
29:D1:560:G:C2	29:D1:561:C:N3	2.73	0.56
29:D1:827:A:H2'	29:D1:827:A:N3	2.19	0.56
29:D1:963:G:H3'	29:D1:963:G:C8	2.40	0.56
31:D3:127:U:H2'	31:D3:127:U:O2	2.04	0.56
31:D3:130:C:H2'	31:D3:131:A:H8	1.69	0.56
29:D1:21:G:N2	31:D3:37:A:C8	2.73	0.56
44:DO:84:PRO:HA	74:DO:301:OHX:N3	2.20	0.56
29:D1:1898:G:O2'	50:DU:21:ALA:HB2	2.05	0.56
1:A1:660:G:H22	1:A1:683:C:H41	1.52	0.56
29:B1:1047:A:C2'	29:B1:1048:A:H5'	2.35	0.56
29:B1:2725:U:N3	29:B1:2727:A:C2	2.73	0.56
30:D2:111:U:H4'	30:D2:112:G:O3'	2.05	0.56
30:D2:112:G:P	30:D2:113:C:P	3.03	0.56
30:D2:112:G:O5'	30:D2:113:C:OP2	2.22	0.56
30:D2:9:C:H5	30:D2:10:C:O2	1.88	0.56
1:C1:114:C:C4	1:C1:248:U:O4	2.58	0.56
1:C1:322:G:O4'	1:C1:323:A:C8	2.58	0.56
29:D1:2673:A:C2	29:D1:2674:A:C6	2.93	0.56
1:C1:1204:A:H5'	1:C1:1205:C:H5''	1.87	0.56
1:C1:1373:C:H5'	1:C1:1374:C:OP2	2.05	0.56
1:C1:1449:U:H2'	1:C1:1450:U:O5'	2.05	0.56
1:C1:1477:G:O2'	1:C1:1478:G:H5''	2.04	0.56
1:C1:1513:G:H2'	1:C1:1514:U:OP1	2.04	0.56
1:A1:160:C:O2'	1:A1:161:U:O5'	2.23	0.56
1:A1:1231:U:H1'	1:A1:1258:U:C4'	2.20	0.56
29:D1:437:G:C6	29:D1:438:A:C6	2.93	0.56
6:AE:82:ARG:O	6:AE:148:VAL:O	2.23	0.56
29:B1:3254:G:C2'	29:B1:3254:G:N3	2.66	0.56
29:D1:191:U:O2'	29:D1:192:C:C5'	2.52	0.56
29:D1:1269:U:C4	29:D1:1271:A:C5	2.92	0.56
29:D1:1265:U:O4	29:D1:1277:C:C4	2.58	0.56
29:D1:1062:A:C3'	29:D1:1063:G:C5	2.78	0.56
29:B1:849:C:C2'	29:B1:850:U:H5'	2.35	0.56
2:CA:13:ASP:O	2:CA:14:ALA:HB2	2.04	0.56
29:D1:2204:C:O5'	29:D1:2204:C:H6	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:492:A:N1	1:C1:495:C:OP2	2.38	0.56
1:A1:772:G:N7	1:A1:773:C:N4	2.53	0.56
29:B1:841:A:C6	29:B1:853:G:C6	2.93	0.56
1:C1:1398:U:C2'	1:C1:1399:C:O5'	2.53	0.56
11:AJ:46:PHE:C	11:AJ:48:VAL:N	2.52	0.56
34:DC:4:ARG:HA	34:DC:6:TYR:O	2.05	0.56
3:AB:124:ALA:O	3:AB:125:ILE:C	2.41	0.56
14:CM:60:SER:C	14:CM:62:ALA:N	2.57	0.56
34:BC:142:ALA:C	34:BC:144:ILE:H	2.08	0.56
17:CP:86:PHE:C	17:CP:88:PRO:N	2.58	0.56
2:CA:84:ARG:C	2:CA:86:VAL:H	2.07	0.56
29:D1:2471:U:H5'	32:DA:22:GLU:CB	2.35	0.56
41:BJ:174:THR:O	41:BJ:175:ASN:C	2.42	0.56
5:CD:218:GLU:C	5:CD:220:VAL:H	2.09	0.56
34:DC:229:VAL:HA	34:DC:232:ARG:CB	2.36	0.56
2:CA:219:THR:O	2:CA:220:THR:O	2.23	0.56
29:B1:2686:A:O5'	29:B1:2686:A:H8	1.88	0.56
52:BW:110:VAL:O	52:BW:111:ASN:C	2.43	0.56
1:A1:1153:G:H2'	1:A1:1154:G:O4'	2.06	0.56
29:B1:1489:A:N3	29:B1:1489:A:H2'	2.20	0.56
29:B1:1503:A:C3'	29:B1:1504:A:C5'	2.68	0.56
29:B1:1851:G:O5'	29:B1:1851:G:H8	1.88	0.56
29:B1:1908:A:N7	29:B1:1909:A:N7	2.54	0.56
29:B1:210:U:OP2	29:B1:210:U:C5	2.57	0.56
29:B1:2221:G:C3'	29:B1:2221:G:C8	2.88	0.56
29:B1:2246:G:N3	29:B1:2247:G:C8	2.73	0.56
29:B1:2260:U:H3'	29:B1:2261:G:C8	2.39	0.56
29:B1:2931:C:O2	29:B1:2935:U:C4	2.58	0.56
29:B1:2950:G:H22	29:B1:2979:U:H2'	1.69	0.56
29:B1:3139:A:H2'	29:B1:3140:G:C8	2.41	0.56
29:B1:3296:A:C2	29:B1:3297:U:C6	2.92	0.56
29:B1:3296:A:C4	29:B1:3297:U:C6	2.93	0.56
29:B1:425:G:O6	29:B1:635:G:C6	2.57	0.56
29:B1:547:G:C3'	29:B1:548:G:H5'	2.36	0.56
29:B1:571:U:O2'	29:B1:572:A:H5'	2.05	0.56
29:B1:518:G:H1	29:B1:572:A:N6	2.02	0.56
29:B1:67:A:N3	29:B1:317:A:C8	2.73	0.56
29:B1:810:A:H2'	29:B1:810:A:N3	2.20	0.56
29:B1:832:G:C2	29:B1:863:C:C2	2.94	0.56
29:B1:866:A:H5'	29:B1:867:G:OP2	2.05	0.56
31:B3:3:A:H3'	31:B3:3:A:C8	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BF:99:GLU:O	37:BF:100:LYS:C	2.42	0.56
44:BO:85:THR:CA	44:BO:87:GLN:N	2.67	0.56
1:C1:1028:C:C4	1:C1:1030:A:H1'	2.41	0.56
1:C1:1100:G:N3	1:C1:1100:G:O4'	2.36	0.56
1:C1:1120:U:C2	1:C1:1121:C:C5	2.93	0.56
1:C1:126:A:N6	1:C1:292:U:C2	2.73	0.56
1:C1:1644:C:C2'	1:C1:1645:G:O5'	2.53	0.56
1:C1:166:C:C3'	1:C1:167:U:H5''	2.34	0.56
1:C1:17:C:C2	1:C1:18:C:C6	2.93	0.56
74:C1:1924:OHX:N6	74:C1:1964:OHX:N5	2.53	0.56
1:C1:527:A:P	1:C1:528:U:H5'	2.44	0.56
1:C1:816:G:N7	1:C1:817:A:C4	2.71	0.56
1:C1:872:G:C2	1:C1:873:U:H1'	2.40	0.56
29:D1:1130:A:C8	29:D1:1132:C:C5	2.94	0.56
29:D1:1212:A:N1	29:D1:1294:A:C2	2.73	0.56
29:D1:1221:A:H4'	29:D1:1222:G:OP1	2.05	0.56
29:D1:1286:A:H8	29:D1:1286:A:O5'	1.87	0.56
29:D1:1444:G:O5'	29:D1:1444:G:H8	1.88	0.56
29:D1:1780:G:C2	29:D1:1781:C:C5	2.92	0.56
29:D1:2288:G:N3	29:D1:2289:U:C5	2.73	0.56
29:D1:2326:A:C5	29:D1:2327:U:C5	2.93	0.56
29:D1:2378:C:C2	29:D1:2379:U:C5	2.93	0.56
29:D1:2422:C:C2'	29:D1:2423:U:O5'	2.54	0.56
29:D1:2651:G:O2'	29:D1:2796:G:N1	2.32	0.56
29:D1:3107:U:H2'	29:D1:3108:G:C8	2.39	0.56
29:D1:3161:C:OP2	29:D1:3161:C:C6	2.58	0.56
29:D1:514:G:H3'	29:D1:515:C:C5	2.40	0.56
29:D1:683:U:C2'	29:D1:684:G:H5'	2.35	0.56
29:D1:716:A:H2'	29:D1:717:C:H1'	1.86	0.56
29:D1:716:A:H8	29:D1:716:A:H3'	1.70	0.56
29:D1:707:U:H4'	29:D1:782:U:O2	2.05	0.56
29:D1:783:A:N6	74:D1:3537:OHX:N4	2.53	0.56
29:D1:877:C:C6	29:D1:877:C:H3'	2.38	0.56
29:D1:337:G:N2	31:D3:27:U:C2	2.73	0.56
31:D3:75:G:P	31:D3:90:U:H5'	2.45	0.56
54:DY:35:ALA:O	54:DY:37:GLY:N	2.39	0.56
29:B1:2689:A:O2'	29:B1:2702:A:N6	2.38	0.56
31:B3:69:U:H2'	31:B3:70:G:H1'	1.86	0.56
31:B3:80:A:H2'	31:B3:81:U:C6	2.40	0.56
1:A1:129:U:H5	1:A1:264:G:C6	2.14	0.56
1:A1:289:U:H2'	1:A1:290:G:H5''	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1714:A:C6	1:C1:1715:G:C2	2.94	0.56
1:C1:1683:C:C6	1:C1:1719:A:N6	2.73	0.56
1:C1:1186:U:OP1	1:C1:1456:C:H1'	2.05	0.56
1:C1:1218:G:O6	1:C1:1444:A:H8	1.88	0.56
1:C1:1466:G:H2'	1:C1:1467:C:C6	2.40	0.56
1:C1:1483:A:C8	1:C1:1524:A:N7	2.73	0.56
1:C1:1591:C:O2'	1:C1:1592:A:P	2.63	0.56
1:A1:1346:A:H3'	1:A1:1347:U:C6	2.37	0.56
1:A1:1218:G:O6	1:A1:1444:A:H8	1.88	0.56
1:A1:1475:A:C6	1:A1:1476:C:C4	2.94	0.56
1:A1:1522:U:C2'	1:A1:1523:G:O5'	2.53	0.56
1:A1:1570:A:N3	1:A1:1570:A:H2'	2.20	0.56
29:B1:1197:A:C5'	29:B1:1197:A:C8	2.88	0.56
29:B1:1463:U:C5	29:B1:1464:G:N7	2.72	0.56
29:B1:1465:A:N6	29:B1:1466:G:C2	2.74	0.56
29:B1:3172:A:O4'	29:B1:3172:A:OP1	2.22	0.56
29:D1:2684:C:C2	29:D1:2685:C:C5	2.93	0.56
29:B1:2520:A:N3	29:B1:2521:U:O2	2.38	0.56
29:D1:197:G:H2'	29:D1:198:A:H8	1.69	0.56
29:D1:219:A:H2	29:D1:1390:A:C2'	2.18	0.56
29:B1:1595:U:O2'	29:B1:1596:C:H6	1.88	0.56
30:D2:38:U:C2'	30:D2:40:C:H5''	2.35	0.56
30:D2:48:U:C5	30:D2:49:G:O6	2.58	0.56
4:CC:11:LEU:O	4:CC:14:ASP:N	2.36	0.56
20:CS:47:ALA:O	20:CS:48:ASN:CB	2.53	0.56
44:BO:183:THR:CB	44:BO:185:ALA:HB3	2.35	0.56
29:D1:2128:C:C5	29:D1:2129:U:C5	2.93	0.56
1:A1:900:A:H4'	1:A1:916:U:H1'	1.88	0.56
30:B2:5:G:C3'	30:B2:6:C:H5''	2.34	0.56
1:A1:1662:G:O2'	1:A1:1663:G:H5'	2.04	0.56
30:D2:120:C:N3	30:D2:121:U:O4	2.37	0.56
36:DE:264:GLN:HA	36:DE:266:ALA:N	2.20	0.56
36:BE:43:LYS:HA	49:BT:70:SER:N	2.20	0.56
29:D1:1730:G:O6	55:DZ:27:TYR:N	2.38	0.56
1:C1:1662:G:O2'	1:C1:1663:G:H5'	2.05	0.56
43:BN:23:ILE:O	43:BN:32:LEU:CA	2.53	0.56
34:DC:91:GLY:HA3	34:DC:158:VAL:CB	2.35	0.56
1:C1:720:G:C2'	1:C1:721:U:H5''	2.34	0.56
13:CL:70:VAL:O	13:CL:74:GLN:C	2.42	0.56
29:D1:2124:G:N2	29:D1:2330:C:C2	2.73	0.56
13:AL:76:PRO:CA	13:AL:81:ILE:H	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:98:ALA:O	4:AC:100:ALA:N	2.38	0.56
14:CM:27:LYS:C	14:CM:29:GLU:H	2.08	0.56
29:D1:1004:U:C4	29:D1:1005:G:N7	2.74	0.56
29:D1:246:U:P	29:D1:247:C:H5''	2.45	0.56
16:CO:106:THR:O	16:CO:107:SER:C	2.44	0.56
29:B1:1004:U:N3	29:B1:1005:G:N7	2.53	0.56
47:DR:60:PRO:O	47:DR:61:PRO:CB	2.52	0.56
29:B1:629:U:H2'	29:B1:630:A:C8	2.40	0.56
51:BV:7:SER:O	51:BV:9:SER:N	2.38	0.56
55:BZ:75:ASN:HA	55:BZ:86:ARG:CB	2.34	0.56
8:CG:83:GLU:O	8:CG:84:ILE:CB	2.52	0.56
29:B1:1026:A:H4'	29:B1:1027:A:OP2	2.01	0.56
38:BG:102:VAL:O	38:BG:103:LEU:C	2.42	0.56
1:A1:1116:A:H1'	1:A1:1131:A:N6	2.21	0.56
1:A1:445:A:N6	1:A1:461:G:N2	2.53	0.56
1:A1:587:C:H2'	1:A1:588:U:C6	2.40	0.56
1:A1:757:A:C5	1:A1:758:U:C6	2.94	0.56
29:B1:116:A:H4'	29:B1:117:U:OP1	2.05	0.56
29:B1:1198:C:C6	29:B1:1200:A:H8	2.21	0.56
29:B1:1455:U:O4	29:B1:3077:A:OP2	2.23	0.56
29:B1:1662:G:H2'	29:B1:1663:C:C6	2.41	0.56
29:B1:1838:G:C5'	29:B1:1839:A:OP1	2.49	0.56
29:B1:2114:C:H5''	29:B1:2116:G:C8	2.40	0.56
29:B1:2327:U:H5''	29:B1:2328:U:OP2	2.05	0.56
29:B1:2403:G:C4'	29:B1:2404:A:OP1	2.53	0.56
29:B1:2609:A:H2'	29:B1:2610:G:C8	2.40	0.56
29:B1:2931:C:H2'	29:B1:2932:U:H6	1.71	0.56
29:B1:911:C:C2'	29:B1:911:C:O2	2.53	0.56
31:B3:150:G:H2'	31:B3:152:G:OP2	2.04	0.56
31:B3:4:C:C2'	31:B3:5:U:H5'	2.35	0.56
1:A1:1054:U:H2'	1:A1:1055:U:H6	1.70	0.56
1:A1:15:U:O4'	1:A1:619:A:N1	2.38	0.56
1:A1:1756:A:N6	74:A1:1901:OHX:N6	2.53	0.56
1:A1:97:C:O4'	1:A1:426:G:H4'	2.06	0.56
1:A1:521:A:C2	1:A1:523:G:C6	2.94	0.56
1:A1:553:G:C5	1:A1:554:C:C4	2.93	0.56
1:A1:618:U:C2'	1:A1:619:A:C5'	2.83	0.56
1:A1:635:A:OP1	1:A1:636:A:OP2	2.23	0.56
1:A1:940:A:H2'	1:A1:941:A:H8	1.70	0.56
29:B1:1489:A:H3'	29:B1:1490:A:H8	1.69	0.56
29:B1:1488:G:H5'	29:B1:1838:G:O6	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1857:C:C6	29:B1:1857:C:OP2	2.58	0.56
29:B1:206:G:C6	29:B1:207:U:C4	2.93	0.56
29:B1:2265:C:N4	29:B1:2266:U:N3	2.53	0.56
29:B1:2269:U:N3	29:B1:2272:G:N1	2.45	0.56
29:B1:2980:U:H2'	29:B1:2981:U:H5'	1.87	0.56
29:B1:3066:U:H2'	29:B1:3067:C:C6	2.40	0.56
29:B1:3097:C:H2'	29:B1:3098:G:C8	2.36	0.56
29:B1:3135:U:C4	29:B1:3136:G:C6	2.93	0.56
29:B1:3309:G:N7	29:B1:3310:A:H1'	2.20	0.56
29:B1:360:G:O2'	29:B1:361:A:H5'	2.04	0.56
29:B1:748:U:O2	29:B1:748:U:C2'	2.53	0.56
44:BO:83:LYS:CB	44:BO:84:PRO:CB	2.84	0.56
1:C1:208:U:H2'	1:C1:209:U:C6	2.39	0.56
1:C1:129:U:C6	1:C1:264:G:O6	2.59	0.56
1:C1:363:G:C2	1:C1:364:G:H1'	2.40	0.56
1:C1:511:A:C4'	1:C1:512:A:OP2	2.52	0.56
1:C1:66:U:C4	1:C1:71:A:N6	2.73	0.56
3:CB:163:GLY:HA3	3:CB:203:LYS:N	2.20	0.56
29:D1:1113:G:C6	29:D1:1114:U:N3	2.73	0.56
29:D1:111:C:H2'	29:D1:111:C:O2	2.05	0.56
29:D1:1131:G:N3	29:D1:2373:A:C2	2.73	0.56
29:D1:1143:A:H1'	29:D1:1368:U:C5	2.40	0.56
29:D1:1427:U:O2'	29:D1:1428:A:H5'	2.05	0.56
29:D1:1595:U:O2'	29:D1:1596:C:H6	1.89	0.56
29:D1:1610:G:C6	29:D1:1611:G:C6	2.93	0.56
29:D1:2284:C:N3	29:D1:2308:C:O4'	2.38	0.56
29:D1:2640:A:C8	29:D1:2641:U:C5	2.92	0.56
29:D1:3026:G:C2	29:D1:3030:G:C6	2.93	0.56
29:D1:284:A:C2	29:D1:306:A:N9	2.73	0.56
29:D1:3331:U:C6	29:D1:3331:U:C5'	2.87	0.56
29:D1:424:G:N1	29:D1:635:G:N2	2.53	0.56
29:D1:504:A:H8	29:D1:504:A:C3'	2.05	0.56
29:D1:577:C:H6	29:D1:577:C:C3'	2.18	0.56
29:D1:583:G:C2	29:D1:584:G:C8	2.93	0.56
29:D1:776:U:O5'	29:D1:777:U:OP2	2.23	0.56
29:D1:80:G:C2	29:D1:81:C:C6	2.93	0.56
31:D3:107:G:C2'	31:D3:108:C:H5'	2.35	0.56
31:D3:11:C:H2'	31:D3:12:A:O4'	2.06	0.56
31:D3:69:U:H2'	31:D3:70:G:H1'	1.85	0.56
1:C1:1032:G:C4	1:C1:1033:C:C5	2.93	0.56
1:C1:295:A:C2	1:C1:296:U:O2	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:812:A:N6	1:C1:859:A:C8	2.72	0.56
1:C1:972:G:HO2'	29:D1:847:A:N6	2.02	0.56
1:C1:989:U:C2'	1:C1:990:C:H6	2.16	0.56
29:D1:1289:G:C4	29:D1:1290:A:C8	2.93	0.56
29:D1:121:A:H4'	29:D1:150:A:C2	2.39	0.56
29:D1:1517:G:C4	29:D1:1518:U:C5	2.94	0.56
29:D1:1593:A:C2'	29:D1:1594:A:H8	2.15	0.56
29:D1:1654:A:H2'	29:D1:1655:G:O4'	2.05	0.56
29:D1:1841:A:C2	29:D1:1848:G:N7	2.73	0.56
29:D1:1852:G:C4	29:D1:1853:U:C5	2.92	0.56
29:D1:2149:A:C8	29:D1:2149:A:C3'	2.87	0.56
29:D1:2269:U:O2	29:D1:2269:U:C2'	2.52	0.56
29:D1:2296:A:C2	29:D1:2919:A:H1'	2.41	0.56
29:D1:2419:A:C4	29:D1:2804:A:C8	2.94	0.56
29:D1:2696:A:N7	29:D1:2697:A:N7	2.53	0.56
29:D1:3136:G:C4	29:D1:3137:C:C5	2.93	0.56
29:D1:965:A:OP1	74:D1:3568:OHX:N4	2.38	0.56
29:D1:519:A:H62	37:DF:30:LEU:CA	2.18	0.56
29:D1:606:C:N3	29:D1:607:A:C6	2.74	0.56
29:D1:717:C:C5'	29:D1:719:U:O4'	2.53	0.56
31:D3:3:A:H2'	31:D3:4:C:H5'	1.87	0.56
31:D3:97:A:C2'	31:D3:98:U:H5'	2.36	0.56
29:D1:2244:A:HO2'	33:DB:222:ALA:HB3	1.69	0.56
1:A1:829:A:O2'	1:A1:830:U:P	2.63	0.56
1:C1:827:C:H4'	1:C1:828:U:OP1	2.05	0.56
1:C1:845:G:O6	74:C1:1917:OHX:N1	2.38	0.56
1:C1:824:G:C6	1:C1:850:A:N3	2.74	0.56
1:C1:841:U:H2'	1:C1:842:C:O4'	2.06	0.56
30:B2:62:U:O2	30:B2:62:U:H2'	2.05	0.56
30:B2:66:A:O5'	30:B2:66:A:H8	1.87	0.56
1:A1:448:C:C2	1:A1:449:C:C5	2.93	0.56
1:A1:63:G:H2'	1:A1:64:U:O4'	2.04	0.56
30:D2:100:C:H5'	30:D2:101:G:OP2	2.04	0.56
30:D2:79:A:H1'	30:D2:102:A:N6	2.20	0.56
49:DT:28:SER:O	49:DT:30:TYR:N	2.39	0.56
29:D1:998:A:C2'	29:D1:999:G:H5'	2.35	0.56
30:D2:14:U:H2'	30:D2:15:C:O4'	2.06	0.56
30:D2:68:C:O2'	30:D2:69:C:C4'	2.53	0.56
1:C1:112:A:O2'	1:C1:113:U:H6	1.89	0.56
1:C1:1682:U:C2	1:C1:1683:C:C4	2.93	0.56
1:C1:248:U:H1'	1:C1:249:U:H5''	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2678:A:H4'	29:B1:2678:A:OP2	2.05	0.56
1:C1:1201:G:C5	1:C1:1202:A:O4'	2.58	0.56
1:C1:1237:G:C4	1:C1:1238:A:C8	2.92	0.56
1:C1:1478:G:H2'	1:C1:1479:A:O4'	2.05	0.56
1:C1:1202:A:N6	1:C1:1457:C:OP1	2.39	0.56
1:C1:1204:A:C5	1:C1:1205:C:N3	2.74	0.56
1:C1:1348:A:C2	1:C1:1378:U:H6	2.24	0.56
1:C1:1584:G:H3'	1:C1:1584:G:C4	2.40	0.56
1:C1:1608:U:H2'	1:C1:1609:U:H5''	1.87	0.56
10:CI:124:THR:O	10:CI:125:PRO:CB	2.54	0.56
11:CJ:127:LYS:HA	11:CJ:134:ALA:H	1.71	0.56
1:A1:1168:U:H2'	1:A1:1169:G:H5'	1.88	0.56
1:A1:1354:G:N3	1:A1:1354:G:H2'	2.20	0.56
1:A1:1431:C:H3'	1:A1:1432:U:C5'	2.34	0.56
1:A1:1245:G:C5	1:A1:1246:C:C5	2.93	0.56
1:A1:1371:A:N1	1:A1:1372:U:C4	2.74	0.56
29:D1:3210:A:C2'	29:D1:3211:C:C6	2.88	0.56
29:B1:385:A:H2'	29:B1:386:A:H8	1.70	0.56
29:B1:3214:U:O3'	29:B1:3218:A:H5''	2.06	0.56
29:B1:3218:A:O2'	29:B1:3219:G:C3'	2.46	0.56
29:B1:3183:A:H2	29:B1:3188:G:O3'	1.88	0.56
29:D1:398:A:H2	29:D1:1415:U:H5''	1.70	0.56
29:D1:206:G:C6	29:D1:207:U:C4	2.94	0.56
29:B1:1596:C:H2'	29:B1:1597:C:H6	1.68	0.56
31:B3:124:G:OP1	31:B3:124:G:H4'	2.04	0.56
31:B3:131:A:HO2'	31:B3:132:G:P	2.29	0.56
29:B1:2513:U:H5	29:B1:2591:A:C6	2.24	0.56
29:B1:2430:A:O2'	29:B1:2431:C:H5'	2.05	0.56
4:CC:69:LEU:O	4:CC:72:LEU:N	2.38	0.56
4:AC:15:GLY:HA2	20:AS:49:ASP:O	2.06	0.56
31:B3:29:U:C2	31:B3:30:C:C5	2.93	0.56
29:B1:2174:G:OP1	29:B1:2174:G:C8	2.59	0.56
1:C1:1391:A:H2'	1:C1:1392:U:H6	1.67	0.56
29:B1:3264:G:H3'	29:B1:3265:C:H5''	1.87	0.56
1:C1:1652:C:H2'	1:C1:1652:C:O2	2.04	0.56
29:D1:2130:G:H5''	29:D1:2131:A:OP2	2.04	0.56
1:A1:1338:C:H1'	1:A1:1410:A:C4	2.40	0.56
36:DE:141:PRO:CA	36:DE:143:LYS:H	2.18	0.56
29:B1:1715:A:N6	29:B1:1716:U:C5	2.66	0.56
29:D1:2160:G:H2'	29:D1:2161:G:C8	2.40	0.56
29:B1:1035:G:C2'	29:B1:1036:A:H5'	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2120:A:O2'	29:D1:2121:G:P	2.59	0.56
29:B1:1946:A:H5''	29:B1:1947:G:OP2	2.06	0.56
29:D1:2580:A:C1'	29:D1:2581:U:OP2	2.53	0.56
55:DZ:75:ASN:HA	55:DZ:86:ARG:CB	2.36	0.56
1:C1:1575:G:C2'	1:C1:1575:G:N3	2.65	0.56
29:D1:2602:G:C4	29:D1:2603:G:C8	2.93	0.56
54:BY:131:SER:CB	54:BY:134:ALA:HB2	2.35	0.56
40:BI:67:ALA:O	40:BI:68:LEU:C	2.42	0.56
29:B1:1384:U:OP1	35:BD:205:PRO:N	2.38	0.56
17:AP:132:LEU:N	17:AP:133:LEU:C	2.58	0.56
29:D1:1695:U:C2	29:D1:1749:A:C2	2.93	0.56
29:D1:1704:A:N6	29:D1:1739:U:C4	2.73	0.56
34:BC:68:HIS:O	34:BC:70:ARG:N	2.38	0.56
43:DN:63:VAL:O	43:DN:64:VAL:CB	2.52	0.56
1:C1:1707:A:H2'	1:C1:1708:U:C2	2.40	0.56
1:A1:747:C:H2'	1:A1:748:U:C6	2.40	0.56
20:AS:41:GLN:CB	74:AS:101:OHX:N3	2.68	0.56
1:C1:930:A:H3'	1:C1:931:C:H6	1.70	0.56
47:DR:19:PRO:O	47:DR:20:LYS:CB	2.52	0.56
36:DE:116:ASP:C	36:DE:118:THR:N	2.58	0.56
33:DB:209:HIS:O	33:DB:210:PRO:C	2.43	0.56
1:A1:1085:G:N2	1:A1:1089:U:C2	2.73	0.56
1:C1:733:A:C2	1:C1:734:A:C6	2.93	0.56
47:BR:22:ASP:O	47:BR:23:ASN:C	2.42	0.56
29:D1:1049:C:O2'	29:D1:1050:U:H5'	2.04	0.56
5:CD:132:VAL:O	5:CD:136:ALA:HB2	2.05	0.56
1:C1:567:A:OP2	17:CP:67:ALA:HB1	2.05	0.56
1:C1:570:A:H61	17:CP:116:ASP:CB	2.19	0.56
29:D1:1806:A:C2	29:D1:1807:G:H1'	2.40	0.56
17:CP:58:GLY:HA2	17:CP:71:CYS:H	1.70	0.56
6:CE:100:LYS:O	6:CE:104:PHE:N	2.37	0.56
35:BD:181:VAL:O	35:BD:182:LEU:CB	2.53	0.56
45:BP:25:LYS:O	45:BP:27:LEU:N	2.37	0.56
29:B1:2568:C:C2'	29:B1:2569:A:H4'	2.34	0.56
8:AG:81:ALA:O	8:AG:82:PRO:CB	2.54	0.56
5:CD:215:ASP:O	5:CD:218:GLU:N	2.34	0.56
1:A1:908:U:C5	1:A1:909:U:C6	2.94	0.56
29:D1:1345:G:N7	74:D1:3480:OHX:N2	2.53	0.56
34:BC:58:ARG:O	34:BC:71:GLU:O	2.23	0.56
44:BO:29:GLU:O	44:BO:30:TYR:C	2.43	0.56
29:B1:1860:G:H2'	29:B1:1861:G:H8	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AQ:36:ALA:HB3	18:AQ:37:GLN:HA	1.86	0.56
35:DD:180:LYS:O	35:DD:182:LEU:N	2.38	0.56
1:A1:1133:A:C2	1:A1:1134:C:H1'	2.39	0.56
1:A1:1779:U:O2'	1:A1:1780:G:P	2.63	0.56
1:A1:380:U:H2'	1:A1:381:C:C5	2.40	0.56
1:A1:524:U:C4	1:A1:527:A:C5	2.93	0.56
1:A1:518:A:N6	1:A1:535:A:C4	2.73	0.56
1:A1:541:A:C8	1:A1:541:A:OP2	2.59	0.56
1:A1:581:U:O2	1:A1:581:U:H2'	2.05	0.56
29:B1:1654:A:H2'	29:B1:1655:G:O4'	2.05	0.56
29:B1:1528:G:N1	29:B1:1833:G:C6	2.73	0.56
29:B1:1907:C:H2'	29:B1:1908:A:H5'	1.86	0.56
29:B1:2186:U:C2'	29:B1:2187:G:O5'	2.53	0.56
29:B1:2260:U:C2'	29:B1:2261:G:C8	2.89	0.56
29:B1:2144:A:C6	29:B1:2281:A:C2	2.94	0.56
29:B1:2349:U:C4	29:B1:2350:C:N4	2.73	0.56
29:B1:2607:G:C4	29:B1:2608:G:C8	2.93	0.56
29:B1:116:A:N1	29:B1:265:A:OP2	2.37	0.56
29:B1:2714:G:N2	29:B1:2751:G:C4	2.74	0.56
29:B1:49:A:C6	29:B1:279:U:H4'	2.40	0.56
29:B1:287:G:O2'	29:B1:288:C:C5'	2.53	0.56
29:B1:3096:C:O2'	29:B1:3097:C:H5'	2.06	0.56
29:B1:3308:C:C6	29:B1:3308:C:C3'	2.89	0.56
29:B1:3320:A:O2'	29:B1:3321:C:O4'	2.14	0.56
29:B1:405:U:H5	29:B1:406:G:C8	2.24	0.56
29:B1:564:G:C2'	29:B1:565:U:C6	2.89	0.56
29:B1:575:G:C5'	29:B1:575:G:C8	2.74	0.56
29:B1:593:C:N4	29:B1:594:U:O2'	2.38	0.56
29:B1:712:G:H2'	29:B1:713:U:C6	2.41	0.56
29:B1:777:U:O2'	29:B1:778:U:O5'	2.21	0.56
29:B1:910:G:H3'	29:B1:911:C:H6	1.69	0.56
29:B1:959:C:N4	29:B1:2801:A:C8	2.73	0.56
1:C1:1116:A:C6	1:C1:1131:A:C8	2.94	0.56
1:C1:137:U:H4'	1:C1:138:A:OP2	2.04	0.56
1:C1:1633:A:C4'	1:C1:1634:C:OP2	2.53	0.56
1:C1:1728:A:C4	1:C1:1729:C:C5	2.94	0.56
1:C1:756:A:C4	1:C1:757:A:C8	2.94	0.56
1:C1:866:G:N2	1:C1:965:U:C5	2.73	0.56
29:D1:1329:U:H6	29:D1:1329:U:O5'	1.87	0.56
29:D1:1376:C:H5'	29:D1:1407:A:N1	2.21	0.56
29:D1:1781:C:H2'	29:D1:1782:U:H5'	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1522:U:C5	29:D1:1835:A:C1'	2.88	0.56
29:D1:2295:A:C6	29:D1:2296:A:C6	2.92	0.56
29:D1:2370:G:N7	29:D1:2371:G:N7	2.53	0.56
29:D1:2423:U:H2'	29:D1:2424:A:H8	1.65	0.56
29:D1:2868:U:C4	29:D1:2869:U:H5	2.23	0.56
29:D1:2844:C:H42	29:D1:2898:G:H22	1.53	0.56
29:D1:2986:U:N3	29:D1:2987:A:N7	2.53	0.56
29:D1:3020:U:H2'	29:D1:3021:A:C8	2.41	0.56
29:D1:3107:U:C2'	29:D1:3108:G:H5'	2.35	0.56
29:D1:3309:G:H2'	29:D1:3310:A:O4'	2.05	0.56
29:D1:522:A:N7	29:D1:523:A:H8	2.02	0.56
29:D1:606:C:C4	29:D1:607:A:C5	2.94	0.56
29:D1:706:A:C2'	29:D1:707:U:H5'	2.35	0.56
29:D1:938:C:C2'	29:D1:939:U:H5''	2.35	0.56
29:D1:947:G:C4	29:D1:948:C:C5	2.94	0.56
31:D3:35:C:O2'	31:D3:36:G:H5'	2.05	0.56
31:D3:4:C:O2'	31:D3:5:U:H5'	2.05	0.56
31:D3:55:U:O2	31:D3:62:C:H5	1.89	0.56
1:A1:703:G:H1'	1:A1:736:C:N4	2.19	0.56
1:A1:728:U:H2'	1:A1:729:G:H8	1.70	0.56
1:C1:218:A:C6	1:C1:844:A:H1'	2.40	0.56
1:C1:641:G:C2	1:C1:642:G:C5	2.94	0.56
31:B3:69:U:H2'	31:B3:70:G:O2'	2.06	0.56
1:A1:265:A:N7	1:A1:290:G:N2	2.53	0.56
1:C1:342:C:O2	1:C1:342:C:H2'	2.05	0.56
29:D1:2682:C:OP1	42:DK:50:ALA:CA	2.53	0.56
1:A1:1714:A:C6	1:A1:1715:G:C2	2.93	0.56
1:A1:243:G:N3	1:A1:251:A:C2	2.72	0.56
1:C1:1184:A:H1'	1:C1:1210:C:H1'	1.87	0.56
1:C1:1538:U:H3'	1:C1:1538:U:C6	2.40	0.56
1:C1:1590:G:C6	1:C1:1591:C:N4	2.74	0.56
1:C1:1600:A:C2'	1:C1:1602:C:H41	2.18	0.56
14:CM:67:MET:HA	14:CM:70:GLN:O	2.05	0.56
1:A1:1263:G:C6	1:A1:1264:G:C4	2.92	0.56
1:A1:1553:G:H5''	1:A1:1554:U:OP2	2.05	0.56
1:A1:1483:A:H61	1:A1:1591:C:H1'	1.71	0.56
1:A1:1608:U:H2'	1:A1:1609:U:H5''	1.88	0.56
74:A1:1935:OHX:N5	74:A1:1959:OHX:N6	2.54	0.56
29:D1:3213:A:C8	29:D1:3213:A:H3'	2.40	0.56
29:B1:3187:A:N1	29:B1:3188:G:C5	2.74	0.56
29:D1:3197:G:C2'	29:D1:3198:U:OP1	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3201:C:H6	29:D1:3201:C:OP2	1.88	0.56
35:DD:159:ILE:O	35:DD:161:LYS:N	2.38	0.56
4:CC:14:ASP:O	4:CC:16:VAL:N	2.39	0.56
29:B1:3226:A:O2'	29:B1:3227:A:H5'	2.06	0.56
29:B1:1081:U:H2'	29:B1:1082:U:OP1	2.06	0.56
1:A1:1750:A:C6	1:A1:1751:C:C4	2.93	0.56
29:B1:1628:C:HO2'	29:B1:1630:U:H5'	1.70	0.56
29:D1:1693:C:H5''	29:D1:1694:U:H5'	1.88	0.56
20:CS:38:ILE:O	20:CS:40:ARG:N	2.39	0.56
1:C1:492:A:N3	1:C1:494:U:H6	2.03	0.56
30:B2:2:G:C4	30:B2:3:U:C5	2.92	0.56
36:DE:42:ALA:HB3	49:DT:69:LYS:O	2.04	0.56
3:AB:213:ALA:O	3:AB:215:PHE:N	2.37	0.56
5:AD:195:ALA:O	5:AD:196:GLU:C	2.44	0.56
9:CH:60:ALA:O	9:CH:63:ALA:CB	2.53	0.56
36:DE:241:THR:C	36:DE:243:ALA:N	2.58	0.56
29:D1:2889:C:C2'	29:D1:2890:A:H5'	2.35	0.56
29:D1:97:U:H2'	29:D1:97:U:O2	2.05	0.56
29:B1:3180:A:OP1	29:B1:3180:A:C4'	2.52	0.56
29:B1:2465:G:C2'	29:B1:2466:G:H8	2.16	0.56
29:B1:2572:C:OP2	74:B1:3558:OHX:N6	2.38	0.56
2:CA:130:ALA:C	2:CA:132:ALA:N	2.59	0.56
34:BC:76:VAL:HA	34:BC:325:LYS:HA	1.88	0.56
1:C1:1358:G:N1	1:C1:1359:C:N4	2.53	0.56
1:A1:1622:G:C6	1:A1:1623:C:C4	2.93	0.56
1:A1:1788:G:C8	1:A1:1788:G:OP2	2.57	0.56
8:AG:88:LEU:O	8:AG:90:TYR:N	2.39	0.56
29:D1:137:G:C3'	29:D1:137:G:C8	2.89	0.56
1:A1:1295:G:H1'	1:A1:1321:A:C2	2.40	0.56
21:CT:244:ALA:O	21:CT:253:ALA:O	2.23	0.56
42:DK:93:ASP:HA	42:DK:170:ASP:O	2.05	0.56
73:DM:94:THR:O	73:DM:95:GLU:C	2.43	0.56
14:CM:13:ASP:C	14:CM:15:ILE:H	2.09	0.56
8:AG:46:THR:O	8:AG:47:PRO:CB	2.53	0.56
54:BY:35:ALA:O	54:BY:37:GLY:N	2.38	0.56
1:A1:1006:C:C5	1:A1:1007:C:C5	2.93	0.56
1:A1:1065:A:H2'	1:A1:1066:C:C1'	2.35	0.56
1:A1:1636:C:C4	1:A1:1638:G:C2	2.93	0.56
1:A1:508:U:H3'	1:A1:509:G:C8	2.41	0.56
1:A1:520:A:C4	1:A1:521:A:N7	2.74	0.56
1:A1:524:U:N3	1:A1:527:A:C6	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:545:A:H61	1:A1:593:U:C2'	2.18	0.56
1:A1:991:G:N2	1:A1:1014:G:C6	2.73	0.56
29:B1:1156:C:C3'	29:B1:1157:G:C5'	2.73	0.56
29:B1:1313:G:N2	29:B1:1314:C:H1'	2.20	0.56
29:B1:1496:C:P	29:B1:1514:G:H5'	2.44	0.56
29:B1:2192:C:H2'	29:B1:2193:U:H5'	1.87	0.56
29:B1:2288:G:H2'	29:B1:2289:U:C6	2.40	0.56
29:B1:1449:A:N3	29:B1:2356:A:C5	2.74	0.56
29:B1:23:A:H5''	29:B1:24:G:OP2	2.05	0.56
29:B1:2833:A:C6	29:B1:2834:G:N7	2.74	0.56
29:B1:3058:U:O4'	29:B1:3058:U:O2	2.16	0.56
29:B1:3092:C:H5'	29:B1:3093:C:OP2	2.05	0.56
29:B1:3147:G:H2'	29:B1:3148:U:O5'	2.06	0.56
29:B1:3316:A:N6	29:B1:3387:U:N3	2.53	0.56
29:B1:3334:U:H5'	29:B1:3371:G:H22	1.68	0.56
29:B1:3377:G:H1'	29:B1:3378:C:H5'	1.86	0.56
29:B1:3377:G:H5'	74:B1:3450:OHX:N2	2.21	0.56
29:B1:431:U:O2'	29:B1:432:G:OP1	2.23	0.56
29:B1:593:C:H2'	29:B1:594:U:H4'	1.88	0.56
29:B1:60:A:C2'	29:B1:61:A:H5'	2.36	0.56
29:B1:767:U:H6	29:B1:767:U:OP2	1.89	0.56
29:B1:888:A:C6	29:B1:889:U:C2	2.93	0.56
29:B1:915:A:C3'	29:B1:915:A:C8	2.86	0.56
29:B1:2394:G:N2	34:BC:258:ALA:HA	2.20	0.56
1:C1:10:G:H2'	1:C1:11:A:C8	2.41	0.56
1:C1:1139:A:C2	1:C1:1140:G:H1'	2.40	0.56
1:C1:1138:A:H2'	1:C1:1139:A:H8	1.70	0.56
1:C1:273:G:OP1	1:C1:273:G:H8	1.86	0.56
1:C1:276:C:O2'	1:C1:277:U:P	2.63	0.56
1:C1:508:U:H3'	1:C1:509:G:C8	2.41	0.56
1:C1:620:A:C5	1:C1:621:A:C2	2.94	0.56
1:C1:72:A:H2'	1:C1:72:A:N3	2.20	0.56
1:C1:89:G:C4	1:C1:90:C:C6	2.93	0.56
1:C1:871:G:C6	1:C1:957:G:N1	2.73	0.56
29:D1:1658:G:N9	29:D1:1796:G:N7	2.53	0.56
29:D1:1841:A:N1	29:D1:1848:G:C5	2.73	0.56
29:D1:2143:A:C8	29:D1:2145:A:N7	2.74	0.56
29:D1:2290:C:N3	29:D1:2303:A:N1	2.53	0.56
29:D1:2343:C:H2'	29:D1:2344:U:H6	1.71	0.56
29:D1:1311:G:C1'	29:D1:2381:G:H5'	2.36	0.56
29:D1:2389:C:O2'	29:D1:2390:A:C5'	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2607:G:C4	29:D1:2608:G:C8	2.94	0.56
29:D1:2931:C:C2	29:D1:2932:U:C6	2.94	0.56
29:D1:295:A:N7	29:D1:296:A:C2	2.73	0.56
29:D1:3023:U:C2'	29:D1:3024:A:C8	2.83	0.56
29:D1:3037:U:HO2'	29:D1:3038:U:H5'	1.69	0.56
29:D1:3365:U:C2	29:D1:3366:G:N7	2.73	0.56
29:D1:1898:G:OP2	74:D1:3470:OHX:N2	2.39	0.56
29:D1:40:A:H3'	29:D1:41:G:H5'	1.88	0.56
29:D1:431:U:C3'	29:D1:431:U:C6	2.88	0.56
29:D1:577:C:C3'	29:D1:577:C:C6	2.89	0.56
29:D1:691:A:H4'	29:D1:692:A:OP2	2.06	0.56
29:D1:733:G:H2'	29:D1:733:G:N3	2.20	0.56
29:D1:749:C:C2	29:D1:750:G:C8	2.94	0.56
29:D1:882:A:C2	29:D1:885:U:N1	2.73	0.56
31:D3:13:A:H2'	31:D3:14:C:H6	1.69	0.56
31:D3:56:G:C6	31:D3:62:C:C4	2.93	0.56
37:DF:157:GLN:C	37:DF:159:LEU:H	2.08	0.56
29:B1:1056:U:C4	29:B1:1057:A:N7	2.73	0.56
29:B1:2629:U:N3	29:B1:2630:C:C5	2.73	0.56
29:B1:2651:G:HO2'	29:B1:2796:G:H1	1.49	0.56
30:B2:69:C:H5'	30:B2:70:U:OP2	2.06	0.56
30:B2:79:A:C2'	30:B2:80:G:H5'	2.36	0.56
31:B3:89:A:H3'	31:B3:89:A:N3	2.21	0.56
31:B3:90:U:H3'	31:B3:90:U:P	2.46	0.56
1:A1:173:A:N7	1:A1:174:U:C6	2.72	0.56
1:A1:752:A:H2'	1:A1:753:A:C8	2.41	0.56
1:C1:1251:U:C2'	1:C1:1252:C:O4'	2.53	0.56
1:A1:1351:G:C5	1:A1:1352:G:C8	2.94	0.56
1:A1:1365:C:C4	1:A1:1366:U:C5	2.93	0.56
1:A1:1438:G:H2'	1:A1:1439:C:O4'	2.05	0.56
1:A1:1260:U:OP1	1:A1:1444:A:N1	2.39	0.56
1:A1:1522:U:H2'	1:A1:1523:G:O5'	2.05	0.56
15:AN:14:GLN:O	15:AN:15:GLN:CB	2.53	0.56
29:B1:3210:A:H3'	29:B1:3211:C:C5	2.35	0.56
29:B1:3228:C:O4'	29:B1:3228:C:O2	2.23	0.56
29:B1:3279:A:C8	29:B1:3280:U:H5	2.24	0.56
43:BN:93:LYS:O	43:BN:96:ALA:N	2.39	0.56
29:D1:3235:C:C4	29:D1:3236:U:C4	2.94	0.56
29:B1:1277:C:C4	29:B1:1278:A:C6	2.93	0.56
29:D1:73:C:C5	29:D1:74:G:C8	2.93	0.56
29:D1:1236:G:C1'	29:D1:1245:A:H1'	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1413:U:H4'	1:C1:1414:U:H5''	1.86	0.56
29:D1:2092:A:H5''	29:D1:2093:A:OP2	2.05	0.56
36:DE:103:LEU:O	36:DE:106:ALA:O	2.23	0.56
1:C1:923:A:H2'	1:C1:924:A:H8	1.70	0.56
20:CS:23:VAL:O	74:CS:101:OHX:N2	2.39	0.56
29:B1:26:A:C2'	29:B1:27:C:C6	2.84	0.56
29:B1:2584:G:C4'	29:B1:2584:G:OP1	2.53	0.56
29:D1:253:A:N6	29:D1:254:A:C6	2.74	0.56
1:A1:773:C:H4'	1:A1:774:A:OP1	2.05	0.56
37:BF:23:LYS:HA	37:BF:114:LYS:CB	2.36	0.56
8:AG:145:THR:N	8:AG:146:ALA:HA	2.21	0.56
1:C1:1263:G:C6	1:C1:1264:G:C4	2.93	0.56
34:DC:68:HIS:O	34:DC:69:LYS:C	2.43	0.56
1:C1:722:G:C4'	1:C1:723:G:OP1	2.53	0.56
29:D1:317:A:N3	29:D1:317:A:H2'	2.21	0.56
2:CA:144:ILE:O	2:CA:145:ALA:HB2	2.04	0.56
47:DR:51:ALA:O	47:DR:52:LEU:C	2.44	0.56
1:A1:878:G:C6	1:A1:951:A:N1	2.74	0.56
16:AO:106:THR:O	16:AO:107:SER:C	2.43	0.56
8:CG:127:ARG:C	8:CG:129:TYR:H	2.08	0.56
34:DC:133:TYR:C	34:DC:135:ALA:N	2.58	0.56
32:BA:95:LYS:HA	32:BA:100:ILE:H	1.68	0.56
44:DO:97:SER:O	44:DO:99:ARG:N	2.39	0.56
42:BK:22:SER:O	42:BK:23:VAL:O	2.24	0.56
41:BJ:121:LYS:O	41:BJ:122:PRO:C	2.43	0.56
40:BI:168:ARG:O	40:BI:169:ASN:CB	2.53	0.56
53:BX:59:VAL:H	53:BX:104:LEU:HA	1.70	0.56
1:A1:1786:G:C6	1:A1:1787:C:N4	2.73	0.56
1:A1:25:C:C6	1:A1:25:C:C3'	2.88	0.56
1:A1:382:C:H2'	1:A1:382:C:O2	2.06	0.56
1:A1:874:C:O5'	1:A1:874:C:H6	1.89	0.56
29:B1:1119:C:H1'	29:B1:1154:A:N3	2.21	0.56
29:B1:1217:A:H5'	29:B1:1218:U:OP2	2.05	0.56
29:B1:199:A:N3	29:B1:201:A:C8	2.74	0.56
29:B1:2284:C:N3	29:B1:2308:C:O4'	2.38	0.56
29:B1:2325:G:C6	29:B1:2326:A:N7	2.74	0.56
29:B1:2738:A:N3	29:B1:2738:A:H2'	2.21	0.56
29:B1:281:G:N3	29:B1:282:G:N7	2.53	0.56
29:B1:2833:A:N1	29:B1:2834:G:C8	2.74	0.56
29:B1:2896:A:H8	29:B1:2896:A:C5'	2.18	0.56
29:B1:3153:U:H1'	29:B1:3395:G:N2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:37:U:C2	29:B1:38:U:C5	2.94	0.56
29:B1:518:G:P	29:B1:520:U:C5	2.99	0.56
29:B1:726:G:C6	29:B1:727:G:C2	2.93	0.56
29:B1:762:U:C4	74:B1:3479:OHX:N3	2.74	0.56
29:B1:835:G:N2	29:B1:857:G:H1'	2.20	0.56
29:B1:891:G:C5	29:B1:892:U:C5	2.93	0.56
29:B1:914:A:H4'	29:B1:915:A:H5'	1.87	0.56
31:B3:43:A:H2'	31:B3:44:A:H8	1.71	0.56
1:C1:183:U:H1'	1:C1:184:C:O5'	2.06	0.56
1:C1:620:A:C4	1:C1:621:A:C2	2.93	0.56
1:C1:766:U:C4	1:C1:769:A:N7	2.74	0.56
29:D1:1441:G:C2'	29:D1:1442:U:C5'	2.64	0.56
29:D1:1780:G:O2'	29:D1:1781:C:O5'	2.24	0.56
29:D1:1550:C:H1'	29:D1:2166:A:H61	1.69	0.56
29:D1:2266:U:C4	29:D1:2267:C:N4	2.73	0.56
29:D1:2301:U:H2'	29:D1:2302:G:H8	1.70	0.56
29:D1:2378:C:O2	29:D1:2378:C:C2'	2.53	0.56
29:D1:2629:U:N3	29:D1:2630:C:C5	2.74	0.56
29:D1:2762:A:H2'	29:D1:2763:U:H6	1.70	0.56
29:D1:279:U:O2	29:D1:286:U:N3	2.38	0.56
29:D1:2892:A:H2'	29:D1:2893:C:H6	1.71	0.56
29:D1:3009:G:H2'	29:D1:3010:U:H5'	1.88	0.56
29:D1:305:U:O2'	29:D1:306:A:OP2	2.23	0.56
29:D1:307:A:C8	29:D1:307:A:H3'	2.41	0.56
29:D1:3393:U:N3	29:D1:3394:U:C5	2.74	0.56
29:D1:425:G:C5	29:D1:635:G:C2	2.94	0.56
29:D1:564:G:H2'	29:D1:565:U:C6	2.40	0.56
29:D1:888:A:N6	29:D1:889:U:N3	2.53	0.56
31:D3:104:A:C5'	31:D3:105:A:H8	2.15	0.56
1:A1:825:U:C5	1:A1:847:A:N6	2.73	0.56
31:B3:65:A:C4	31:B3:66:A:C8	2.93	0.56
31:B3:74:U:OP2	31:B3:76:C:N3	2.37	0.56
1:A1:204:G:N3	1:A1:204:G:H2'	2.21	0.56
1:A1:270:C:H3'	1:A1:271:A:C5'	2.36	0.56
1:A1:290:G:O2'	1:A1:291:G:C8	2.50	0.56
1:A1:252:U:O2'	1:A1:253:A:P	2.63	0.56
1:C1:1165:G:O6	1:C1:1166:A:N6	2.39	0.56
1:C1:1199:G:N2	1:C1:1201:G:OP2	2.38	0.56
1:C1:1569:A:C4	1:C1:1570:A:C8	2.93	0.56
1:C1:1521:G:O6	74:C1:1930:OHX:N5	2.39	0.56
15:CN:14:GLN:O	15:CN:15:GLN:CB	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1491:U:H3'	1:A1:1492:A:C5'	2.35	0.56
1:A1:1512:G:H2'	1:A1:1513:G:C8	2.40	0.56
1:A1:1559:A:C1'	13:AL:135:GLY:HA2	2.36	0.56
1:A1:1597:A:C5	1:A1:1598:U:C4	2.93	0.56
15:AN:12:GLN:O	15:AN:13:GLU:C	2.43	0.56
29:B1:1197:A:C8	29:B1:1197:A:H5'	2.40	0.56
29:B1:2522:G:H1'	29:B1:2523:A:OP1	2.06	0.56
29:D1:1390:A:H5''	29:D1:1390:A:N3	2.21	0.56
29:D1:209:A:O3'	29:D1:210:U:C6	2.59	0.56
29:B1:1247:U:H5'	29:B1:1248:C:C5	2.41	0.56
17:AP:109:ARG:N	17:AP:110:LYS:CA	2.52	0.56
29:D1:1626:U:H2'	29:D1:1627:U:C1'	2.36	0.56
29:D1:1666:G:O2'	29:D1:1667:A:H5'	2.05	0.56
29:B1:2737:C:OP1	49:BT:70:SER:O	2.23	0.56
1:C1:1665:U:H3	1:C1:1736:G:H1	1.52	0.56
29:D1:835:G:N2	29:D1:857:G:N3	2.53	0.56
29:D1:837:A:N3	29:D1:837:A:H2'	2.20	0.56
29:B1:3180:A:H4'	29:B1:3180:A:OP1	2.06	0.56
43:BN:21:VAL:O	43:BN:34:ALA:CB	2.54	0.56
43:BN:63:VAL:O	43:BN:64:VAL:CB	2.52	0.56
1:C1:213:A:H2'	1:C1:214:G:C5'	2.33	0.56
1:C1:721:U:O2	1:C1:721:U:H2'	2.06	0.56
13:AL:71:GLN:O	13:AL:72:ILE:C	2.41	0.56
1:A1:568:G:O2'	1:A1:569:C:H5'	2.06	0.56
29:B1:1723:A:C5'	29:B1:1724:U:OP2	2.54	0.56
20:AS:38:ILE:O	20:AS:40:ARG:N	2.39	0.56
34:BC:169:THR:O	34:BC:171:LEU:N	2.38	0.56
33:DB:229:ALA:O	33:DB:232:GLY:N	2.37	0.56
14:AM:27:LYS:C	14:AM:29:GLU:H	2.08	0.56
16:AO:96:ALA:O	16:AO:98:GLN:N	2.37	0.56
29:B1:1003:A:C2	29:B1:1004:U:H1'	2.41	0.56
1:C1:1501:C:O2'	1:C1:1502:G:H5'	2.05	0.56
34:BC:281:LYS:O	34:BC:324:VAL:HA	2.05	0.56
42:DK:76:ALA:O	42:DK:78:GLU:N	2.38	0.56
51:BV:4:GLU:O	51:BV:5:ILE:CB	2.52	0.56
38:DG:180:SER:O	38:DG:183:ASP:N	2.38	0.56
4:AC:191:ASP:C	4:AC:193:ALA:H	2.09	0.56
36:DE:147:ASP:O	36:DE:148:ILE:C	2.44	0.56
39:BH:168:ALA:C	39:BH:170:CYS:H	2.09	0.56
1:A1:1005:A:C5	1:A1:1006:C:C4	2.93	0.56
1:A1:977:A:C5	1:A1:1025:A:C2	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1296:A:H2'	1:A1:1297:G:C5'	2.35	0.56
1:A1:1778:G:C6	1:A1:1779:U:C5	2.94	0.56
1:A1:298:C:C6	1:A1:298:C:C3'	2.89	0.56
1:A1:387:A:N3	1:A1:402:C:H5	2.03	0.56
1:A1:389:G:C5	1:A1:390:G:C5	2.94	0.56
1:A1:527:A:H3'	1:A1:528:U:C5'	2.33	0.56
1:A1:755:A:H4'	1:A1:756:A:OP1	2.04	0.56
1:A1:940:A:C2	1:A1:941:A:C8	2.93	0.56
29:B1:1289:G:C4	29:B1:1290:A:C8	2.94	0.56
29:B1:1303:A:C8	29:B1:1304:A:C4	2.90	0.56
29:B1:1605:A:C2	29:B1:1608:C:C6	2.94	0.56
29:B1:1660:C:O2'	29:B1:1661:G:C5'	2.49	0.56
29:B1:2110:G:O6	29:B1:2113:A:N6	2.38	0.56
29:B1:2260:U:C3'	29:B1:2261:G:C8	2.88	0.56
29:B1:2193:U:C5'	29:B1:2312:A:C2	2.88	0.56
29:B1:2609:A:H5''	29:B1:2610:G:OP2	2.06	0.56
29:B1:2827:U:O4	74:B1:3417:OHX:N3	2.38	0.56
29:B1:3000:A:C4	29:B1:3001:C:C5	2.93	0.56
29:B1:3095:U:H2'	29:B1:3096:C:O5'	2.06	0.56
29:B1:362:U:C2	29:B1:363:G:C8	2.94	0.56
29:B1:378:A:C4	29:B1:378:A:H3'	2.37	0.56
29:B1:404:G:N1	29:B1:405:U:O2	2.38	0.56
29:B1:509:U:O2	29:B1:509:U:H2'	2.04	0.56
29:B1:534:U:P	29:B1:534:U:H6	2.28	0.56
29:B1:573:C:H2'	29:B1:574:U:H6	1.69	0.56
29:B1:585:A:C5	29:B1:586:C:N4	2.74	0.56
29:B1:716:A:C3'	29:B1:716:A:C8	2.89	0.56
29:B1:77:A:C2	29:B1:78:U:C1'	2.88	0.56
1:C1:1043:A:C4	1:C1:1044:U:H5	2.24	0.56
1:C1:14:C:OP1	3:CB:164:SER:N	2.39	0.56
1:C1:1727:G:N1	1:C1:1728:A:C6	2.74	0.56
1:C1:363:G:N1	1:C1:382:C:C4	2.73	0.56
1:C1:425:A:H5'	1:C1:425:A:C8	2.40	0.56
1:C1:520:A:C5	1:C1:521:A:N7	2.74	0.56
1:C1:755:A:C4'	1:C1:756:A:OP1	2.53	0.56
1:C1:98:U:H2'	1:C1:98:U:O2	2.06	0.56
7:CF:95:PRO:O	7:CF:96:LYS:C	2.44	0.56
29:D1:1306:G:C4	45:DP:62:THR:CB	2.89	0.56
29:D1:1330:A:C8	29:D1:1330:A:H3'	2.41	0.56
29:D1:1779:C:H4'	29:D1:1780:G:OP1	2.00	0.56
29:D1:1875:G:C6	29:D1:1876:U:C4	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:896:A:N6	29:D1:2133:U:H3	2.00	0.56
29:D1:1550:C:C1'	29:D1:2166:A:H61	2.18	0.56
29:D1:2327:U:C2'	29:D1:2327:U:O2	2.50	0.56
29:D1:2406:C:H2'	29:D1:2407:C:H6	1.70	0.56
29:D1:2423:U:O2'	29:D1:2424:A:O4'	2.22	0.56
29:D1:264:G:H2'	29:D1:264:G:N3	2.20	0.56
29:D1:2836:C:O2	29:D1:2836:C:C3'	2.54	0.56
29:D1:2860:U:C4	29:D1:2938:G:H5''	2.40	0.56
29:D1:3096:C:H2'	29:D1:3097:C:H6	1.69	0.56
29:D1:3299:A:H1'	29:D1:3300:U:OP2	2.06	0.56
29:D1:3325:G:H2'	29:D1:3326:G:C8	2.41	0.56
29:D1:35:A:C2	29:D1:36:C:C6	2.93	0.56
29:D1:521:A:N7	29:D1:571:U:O4	2.39	0.56
29:D1:717:C:C5	29:D1:721:G:OP1	2.58	0.56
29:D1:939:U:O2'	29:D1:940:G:H5'	2.06	0.56
29:D1:996:A:O2'	29:D1:997:A:H5'	2.06	0.56
29:D1:2394:G:N2	34:DC:258:ALA:HA	2.20	0.56
47:DR:142:GLY:O	47:DR:143:PRO:CB	2.54	0.56
1:A1:837:G:C2	1:A1:838:G:C4	2.94	0.56
1:C1:743:U:OP2	1:C1:743:U:H3'	2.05	0.56
30:B2:66:A:H2'	30:B2:67:G:O4'	2.06	0.56
30:B2:69:C:OP2	74:B2:209:OHX:N3	2.38	0.56
31:B3:97:A:C6	31:B3:98:U:N3	2.74	0.56
1:A1:452:A:N1	1:A1:454:U:C6	2.74	0.56
1:A1:77:U:H3'	1:A1:78:A:H5''	1.87	0.56
1:C1:1725:U:O5'	1:C1:1725:U:C6	2.58	0.56
1:C1:328:A:C4	1:C1:329:G:C8	2.94	0.56
1:C1:329:G:C2	1:C1:330:G:C5	2.94	0.56
1:A1:1683:C:O3'	1:A1:1684:U:C2	2.59	0.56
1:A1:1683:C:H4'	1:A1:1684:U:C5	2.41	0.56
1:A1:1690:G:C2'	1:A1:1691:A:H5''	2.36	0.56
1:A1:1690:G:H1'	1:A1:1714:A:H2	1.71	0.56
1:C1:1525:A:C6	1:C1:1526:A:C6	2.93	0.56
1:C1:1584:G:N3	1:C1:1584:G:C2'	2.68	0.56
1:C1:1591:C:H2'	1:C1:1591:C:O2	2.05	0.56
1:C1:1196:A:C8	1:C1:1602:C:H4'	2.41	0.56
1:C1:1609:U:C6	1:C1:1609:U:C5'	2.88	0.56
1:A1:1368:G:C6	1:A1:1369:U:C4	2.94	0.56
1:A1:1588:G:C6	1:A1:1589:C:C4	2.94	0.56
1:A1:1591:C:H2'	1:A1:1591:C:O2	2.05	0.56
1:A1:1369:U:O4	74:A1:1959:OHX:N5	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:84:LYS:C	43:BN:86:ALA:H	2.09	0.56
29:D1:3183:A:H2	29:D1:3188:G:O3'	1.87	0.56
29:D1:3182:G:O2'	29:D1:3183:A:H5'	2.05	0.56
43:DN:84:LYS:C	43:DN:86:ALA:H	2.09	0.56
29:B1:2520:A:H5''	29:B1:2521:U:OP1	2.05	0.56
29:D1:198:A:N3	29:D1:218:G:O2'	2.37	0.56
29:B1:1262:G:C8	29:B1:1262:G:OP2	2.58	0.56
29:D1:3219:G:N9	29:D1:3257:C:H5''	2.17	0.56
30:D2:37:G:N2	30:D2:45:A:N6	2.53	0.56
29:D1:2687:G:OP1	74:D1:3430:OHX:N2	2.38	0.56
4:AC:52:ALA:HB3	4:AC:55:THR:CB	2.36	0.56
29:B1:344:A:C2	29:B1:345:G:C1'	2.88	0.56
1:C1:698:U:H3	1:C1:740:A:H61	1.52	0.56
38:BG:33:ARG:O	38:BG:36:ALA:HB3	2.05	0.56
29:B1:1627:U:C5'	29:B1:1628:C:OP2	2.53	0.56
29:D1:1946:A:H2'	29:D1:1947:G:C8	2.41	0.56
1:A1:1331:A:C2'	1:A1:1332:C:O5'	2.53	0.56
54:BY:69:TRP:N	54:BY:110:GLY:HA2	2.21	0.56
1:A1:1657:U:C2	74:A1:1949:OHX:N5	2.74	0.56
34:BC:294:GLY:CA	34:BC:295:ALA:C	2.74	0.56
42:BK:30:LEU:O	42:BK:32:ARG:N	2.38	0.56
11:AJ:96:TYR:O	11:AJ:97:VAL:CB	2.53	0.56
29:B1:1029:G:H2'	29:B1:1030:A:C5'	2.36	0.56
29:D1:1640:G:O5'	29:D1:1640:G:H8	1.88	0.56
11:AJ:46:PHE:O	11:AJ:48:VAL:N	2.37	0.56
1:A1:697:C:C3'	1:A1:698:U:H5''	2.36	0.56
45:DP:58:LEU:CA	45:DP:61:ALA:H	2.18	0.56
33:BB:229:ALA:O	33:BB:232:GLY:N	2.38	0.56
72:DL:62:LEU:HA	72:DL:70:ALA:C	2.25	0.56
3:CB:211:LEU:O	3:CB:213:ALA:O	2.24	0.56
52:BW:133:LEU:HA	52:BW:136:ALA:HB3	1.86	0.56
1:C1:908:U:H6	1:C1:908:U:O5'	1.89	0.56
4:AC:74:GLN:O	4:AC:75:LYS:C	2.44	0.56
1:C1:1306:C:O2	1:C1:1306:C:O4'	2.18	0.56
35:BD:252:GLU:C	35:BD:254:ALA:N	2.57	0.56
39:DH:205:ALA:HB3	39:DH:206:GLU:CB	2.35	0.56
16:CO:17:ALA:O	16:CO:20:THR:N	2.36	0.56
39:DH:81:THR:O	39:DH:82:LEU:C	2.44	0.56
49:DT:23:GLY:O	49:DT:24:ALA:HB3	2.04	0.56
44:BO:163:GLY:O	44:BO:165:THR:N	2.39	0.56
14:CM:24:ARG:O	14:CM:25:GLN:CB	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DZ:45:ALA:HA	55:DZ:70:PHE:CB	2.36	0.56
29:B1:1207:G:H5'	29:B1:1207:G:C8	2.41	0.56
50:DU:39:VAL:O	50:DU:40:LYS:C	2.42	0.56
1:A1:1113:A:C2	1:A1:1115:U:O4	2.59	0.56
1:A1:116:U:H2'	1:A1:117:U:C6	2.40	0.56
1:A1:1765:A:P	74:A1:1931:OHX:N3	2.78	0.56
1:A1:38:C:H3'	1:A1:39:A:H5''	1.88	0.56
1:A1:480:G:H2'	1:A1:481:A:O4'	2.05	0.56
1:A1:480:G:H1	1:A1:508:U:H3	1.53	0.56
1:A1:623:A:C2	1:A1:1105:C:O2'	2.59	0.56
29:B1:1129:A:H62	29:B1:1130:A:N6	2.01	0.56
29:B1:1158:A:HO2'	29:B1:1330:A:H2	1.45	0.56
29:B1:1378:U:H2'	29:B1:1378:U:O2	2.04	0.56
29:B1:1517:G:C4	29:B1:1518:U:C5	2.94	0.56
29:B1:2178:A:H1'	29:B1:2180:G:C5	2.40	0.56
29:B1:2348:A:OP2	29:B1:2349:U:H5	1.89	0.56
29:B1:2607:G:C6	29:B1:2608:G:C5	2.94	0.56
29:B1:3066:U:C2	29:B1:3067:C:C5	2.94	0.56
29:B1:3098:G:C5'	29:B1:3099:C:OP1	2.53	0.56
29:B1:3328:G:N2	29:B1:3329:U:C4	2.74	0.56
29:B1:556:U:C5	29:B1:557:A:C2	2.93	0.56
29:B1:424:G:C6	29:B1:635:G:N2	2.74	0.56
29:B1:637:C:N1	29:B1:638:C:C5	2.74	0.56
29:B1:763:G:H21	29:B1:767:U:C2'	2.18	0.56
29:B1:914:A:H8	29:B1:914:A:O5'	1.89	0.56
29:B1:920:A:H5''	29:B1:922:U:C4	2.40	0.56
31:B3:19:C:C2	31:B3:20:U:C5	2.94	0.56
1:C1:1043:A:H2'	1:C1:1044:U:C6	2.41	0.56
1:C1:283:U:C2'	1:C1:284:G:O4'	2.51	0.56
1:C1:55:A:C5	1:C1:403:G:C2	2.93	0.56
1:C1:381:C:O2'	1:C1:755:A:N1	2.34	0.56
1:C1:973:A:C2	1:C1:974:A:N7	2.73	0.56
29:D1:1205:A:C5	29:D1:1206:G:N7	2.73	0.56
29:D1:1213:G:C8	29:D1:1213:G:C5'	2.84	0.56
29:D1:1455:U:H3	29:D1:3077:A:P	2.29	0.56
29:D1:1616:U:H2'	29:D1:1617:G:H8	1.70	0.56
29:D1:2225:U:C2	29:D1:2226:U:C5	2.94	0.56
29:D1:2299:A:C6	29:D1:2300:G:C8	2.93	0.56
29:D1:2311:G:O2'	29:D1:2312:A:O4'	2.22	0.56
29:D1:2317:A:C2	29:D1:2318:U:C2	2.94	0.56
29:D1:2727:A:N1	29:D1:2728:G:O6	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2918:G:N3	29:D1:2919:A:C8	2.74	0.56
29:D1:3014:U:O2'	29:D1:3015:G:H5'	2.05	0.56
29:D1:306:A:H2	29:D1:307:A:N9	2.03	0.56
29:D1:3117:C:H2'	29:D1:3118:C:C5'	2.18	0.56
29:D1:3160:U:O4	29:D1:3290:G:O6	2.23	0.56
29:D1:3310:A:N3	29:D1:3310:A:H2'	2.21	0.56
29:D1:572:A:C4	29:D1:573:C:C6	2.94	0.56
29:D1:60:A:H2'	29:D1:61:A:C5'	2.36	0.56
29:D1:747:A:C5	29:D1:748:U:H5	2.24	0.56
1:C1:973:A:H4'	29:D1:847:A:H2	1.70	0.56
29:D1:349:A:C2	31:D3:24:G:C4	2.94	0.56
31:D3:2:A:N6	31:D3:3:A:N1	2.54	0.56
31:D3:91:C:H2'	31:D3:92:A:H8	1.70	0.56
1:C1:832:U:H3'	1:C1:833:U:H5''	1.88	0.56
1:C1:846:G:O2'	1:C1:847:A:O5'	2.23	0.56
29:B1:2621:G:H2'	29:B1:2622:C:H6	1.69	0.56
29:B1:2689:A:C4	29:B1:2702:A:C2	2.94	0.56
29:B1:958:C:OP1	29:B1:2799:A:H3'	2.06	0.56
29:B1:2705:A:OP2	74:B1:3405:OHX:N1	2.38	0.56
30:B2:14:U:OP2	30:B2:14:U:C1'	2.54	0.56
31:B3:81:U:H6	31:B3:81:U:O5'	1.88	0.56
1:A1:173:A:C3'	1:A1:174:U:H5''	2.29	0.56
1:A1:85:A:O2'	1:A1:86:A:P	2.64	0.56
1:C1:341:A:H2'	1:C1:341:A:N3	2.20	0.56
29:D1:2677:G:N2	29:D1:2678:A:H5'	2.20	0.56
1:A1:328:A:C4	1:A1:329:G:C8	2.94	0.56
1:C1:1349:G:H4'	1:C1:1350:U:C5'	2.36	0.56
1:C1:1483:A:H1'	1:C1:1524:A:N6	2.20	0.56
1:A1:1165:G:C6	1:A1:1166:A:C6	2.94	0.56
1:A1:1205:C:C6	1:A1:1206:U:O2	2.59	0.56
1:A1:1477:G:C2'	1:A1:1478:G:H5''	2.36	0.56
29:B1:3174:A:O2'	29:B1:3175:U:C5'	2.53	0.56
29:B1:3209:A:C6	29:B1:3210:A:N1	2.74	0.56
29:B1:3020:U:H2'	29:B1:3021:A:H8	1.69	0.56
29:B1:2215:A:C4	29:B1:2216:G:C8	2.94	0.56
29:D1:1097:G:O3'	29:D1:1098:A:H4'	2.06	0.56
1:C1:1388:A:C6	1:C1:1412:G:C6	2.93	0.56
36:DE:273:ARG:C	36:DE:275:THR:N	2.59	0.56
34:BC:51:ALA:HB3	34:BC:79:VAL:HA	1.85	0.56
1:A1:1392:U:C6	1:A1:1392:U:H5''	2.41	0.56
1:A1:901:G:H5'	1:A1:902:G:N7	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:891:A:C6	1:C1:922:G:C6	2.93	0.56
36:BE:159:VAL:O	36:BE:162:ALA:N	2.38	0.56
6:CE:73:GLY:C	6:CE:75:ALA:N	2.58	0.56
1:C1:1169:G:C2	1:C1:1577:A:C6	2.93	0.56
29:B1:1741:A:H3'	29:B1:1742:U:C5	2.40	0.56
1:A1:316:A:C6	1:A1:317:C:C5	2.93	0.56
1:C1:697:C:C6	74:C1:1918:OHX:N5	2.74	0.56
1:C1:729:G:C8	1:C1:729:G:OP2	2.59	0.56
45:DP:95:GLY:O	45:DP:97:ALA:C	2.44	0.56
10:AI:98:ASN:H	10:AI:101:ALA:HB3	1.69	0.56
35:DD:253:ALA:O	35:DD:254:ALA:O	2.24	0.56
4:AC:76:ARG:O	4:AC:78:LYS:N	2.39	0.56
1:C1:1422:A:H2'	1:C1:1423:U:O4'	2.06	0.56
40:BI:85:GLY:HA3	40:BI:187:ILE:O	2.06	0.56
54:BY:118:ILE:O	54:BY:119:PRO:CB	2.53	0.56
11:AJ:110:THR:HA	11:AJ:113:ASP:CB	2.36	0.56
35:DD:174:ALA:O	35:DD:175:HIS:C	2.44	0.56
40:DI:92:TYR:HA	40:DI:179:ILE:HA	1.87	0.56
72:DL:109:ILE:O	72:DL:113:ALA:N	2.39	0.56
1:C1:1225:U:H2'	1:C1:1226:A:O4'	2.05	0.56
1:A1:1149:G:N2	1:A1:1150:G:O6	2.39	0.56
1:A1:26:A:P	1:A1:26:A:H3'	2.46	0.56
1:A1:380:U:C2'	1:A1:381:C:C6	2.82	0.56
1:A1:428:A:H2	1:A1:440:U:O2	1.88	0.56
1:A1:618:U:H2'	1:A1:619:A:C5'	2.34	0.56
29:B1:1105:A:C6	29:B1:1106:G:C5	2.94	0.56
29:B1:1156:C:O2	29:B1:1156:C:H2'	2.06	0.56
29:B1:1212:A:C2	29:B1:1213:G:C8	2.94	0.56
29:B1:1310:G:C2'	29:B1:1311:G:O5'	2.53	0.56
29:B1:1311:G:H2'	29:B1:1312:C:O5'	2.05	0.56
29:B1:1394:A:C2'	29:B1:1395:G:O5'	2.54	0.56
29:B1:1528:G:H2'	29:B1:1529:A:C8	2.34	0.56
29:B1:1498:A:H5'	29:B1:1602:A:H1'	1.88	0.56
29:B1:1662:G:H1	29:B1:1787:A:N6	2.04	0.56
29:B1:208:C:H2'	29:B1:209:A:O5'	2.06	0.56
29:B1:2341:A:H2'	29:B1:2342:U:H6	1.71	0.56
29:B1:2750:U:H2'	29:B1:2751:G:H8	1.71	0.56
29:B1:2903:A:C5	29:B1:2904:U:H6	2.24	0.56
29:B1:3011:A:H1'	29:B1:3012:A:O4'	2.06	0.56
29:B1:30:G:C6	29:B1:55:G:C6	2.93	0.56
29:B1:397:A:H4'	29:B1:398:A:H5'	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:396:A:H2	29:B1:399:A:C4	2.24	0.56
29:B1:648:C:H5	29:B1:2375:G:P	2.29	0.56
29:B1:680:G:O6	29:B1:701:G:O6	2.24	0.56
29:B1:835:G:N2	29:B1:857:G:N3	2.53	0.56
29:B1:891:G:H5'	29:B1:2324:A:N3	2.21	0.56
29:B1:89:A:N6	29:B1:98:G:C2	2.73	0.56
29:B1:961:C:O2'	29:B1:962:A:OP2	2.22	0.56
31:B3:140:G:C5	31:B3:141:C:C4	2.94	0.56
1:C1:1150:G:C2	1:C1:1766:A:OP1	2.58	0.56
74:C1:1924:OHX:N2	74:C1:1964:OHX:N2	2.54	0.56
1:C1:40:A:H2'	1:C1:41:A:O4'	2.06	0.56
1:C1:594:A:H4'	1:C1:595:G:C5'	2.33	0.56
1:C1:607:G:H4'	1:C1:608:U:OP2	2.06	0.56
1:C1:756:A:C4	1:C1:757:A:N7	2.74	0.56
1:C1:940:A:C4	1:C1:941:A:C8	2.94	0.56
1:C1:986:G:O2'	1:C1:987:G:C5'	2.54	0.56
29:D1:1311:G:C2'	29:D1:1312:C:O5'	2.54	0.56
29:D1:1496:C:C2	29:D1:1521:G:N2	2.74	0.56
29:D1:2280:A:H4'	29:D1:2281:A:OP1	2.06	0.56
29:D1:2295:A:H62	29:D1:2296:A:N6	2.00	0.56
29:D1:2308:C:H2'	29:D1:2309:A:C8	2.40	0.56
29:D1:2308:C:H2'	29:D1:2309:A:H8	1.70	0.56
29:D1:1887:A:N7	29:D1:2348:A:H2	2.03	0.56
29:D1:2642:A:C2	29:D1:2643:A:C6	2.93	0.56
29:D1:2642:A:H2	29:D1:2643:A:C5	2.23	0.56
29:D1:2700:G:H5''	29:D1:2701:U:OP2	2.05	0.56
29:D1:282:G:H3'	29:D1:282:G:OP2	2.06	0.56
29:D1:2836:C:O2	29:D1:2837:A:C8	2.59	0.56
29:D1:2892:A:H2'	29:D1:2893:C:C6	2.41	0.56
29:D1:293:C:N3	29:D1:294:U:C2	2.74	0.56
29:D1:3020:U:H2'	29:D1:3021:A:H8	1.70	0.56
29:D1:3101:G:O2'	29:D1:3102:G:H5''	2.05	0.56
29:D1:3110:C:C2	29:D1:3111:U:C5	2.94	0.56
29:D1:3322:A:C5	29:D1:3323:A:N7	2.74	0.56
29:D1:3371:G:O6	29:D1:3372:A:N1	2.39	0.56
29:D1:351:A:C8	31:D3:53:A:H1'	2.41	0.56
29:D1:52:A:C2'	29:D1:53:G:O5'	2.54	0.56
29:D1:566:G:C2'	29:D1:567:G:H5'	2.35	0.56
29:D1:606:C:H6	29:D1:606:C:C5'	2.18	0.56
29:D1:501:A:C2	29:D1:613:G:C2	2.94	0.56
29:D1:682:U:C4	29:D1:699:A:C2	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:703:G:C2'	29:D1:703:G:N3	2.62	0.56
29:D1:703:G:N1	29:D1:704:U:C2	2.74	0.56
29:D1:716:A:C6	29:D1:721:G:N2	2.73	0.56
29:D1:771:A:N1	29:D1:772:U:N3	2.54	0.56
29:D1:869:G:H3'	29:D1:870:G:C8	2.41	0.56
30:D2:86:U:H4'	30:D2:87:G:O5'	2.05	0.56
29:D1:10:C:H42	31:D3:148:G:H1	1.51	0.56
34:DC:330:GLY:O	34:DC:331:ASN:O	2.24	0.56
37:DF:43:LEU:N	37:DF:84:VAL:CB	2.69	0.56
1:C1:693:U:C2'	1:C1:694:U:OP1	2.52	0.56
29:B1:965:A:N6	29:B1:966:U:H3	2.04	0.56
1:C1:243:G:N3	1:C1:251:A:C2	2.73	0.56
1:C1:1369:U:H2'	1:C1:1370:U:C6	2.41	0.56
1:C1:1584:G:H8	11:CJ:123:ARG:H	1.49	0.56
1:A1:1517:U:O2	15:AN:17:GLN:N	2.39	0.56
29:B1:3240:C:C5	74:B1:3469:OHX:N6	2.74	0.56
29:D1:197:G:N2	29:D1:372:A:C8	2.74	0.56
29:D1:396:A:H8	29:D1:396:A:H5'	1.71	0.56
29:B1:2513:U:H5''	29:B1:2592:G:H22	1.69	0.56
29:D1:1035:G:C2'	29:D1:1036:A:H5'	2.36	0.56
74:A1:1916:OHX:N3	74:A1:1975:OHX:N4	2.54	0.56
29:D1:2914:G:C5	29:D1:2915:U:C5	2.93	0.56
1:C1:1575:G:H5'	1:C1:1576:A:OP2	2.06	0.56
1:C1:1665:U:O4	74:C1:1993:OHX:N6	2.39	0.56
29:D1:1029:G:H2'	29:D1:1030:A:C5'	2.36	0.56
29:D1:1033:U:H2'	29:D1:1034:U:O2	2.05	0.56
29:B1:3178:A:O2'	29:B1:3179:U:P	2.63	0.56
3:AB:133:LYS:C	3:AB:135:SER:H	2.09	0.56
1:C1:935:U:H2'	1:C1:936:G:H8	1.71	0.56
42:BK:143:ARG:O	42:BK:144:CYS:C	2.44	0.56
45:BP:187:GLU:O	45:BP:189:ASP:N	2.38	0.56
8:AG:126:ALA:O	8:AG:129:TYR:N	2.38	0.56
29:D1:729:C:H6	29:D1:729:C:O5'	1.89	0.56
49:DT:84:TYR:O	49:DT:85:LEU:O	2.24	0.56
8:AG:88:LEU:C	8:AG:90:TYR:N	2.57	0.56
29:B1:2117:A:H2'	29:B1:2118:C:C6	2.41	0.56
14:CM:17:ALA:C	14:CM:19:ALA:N	2.58	0.56
16:CO:13:ALA:O	16:CO:17:ALA:HB2	2.05	0.56
45:BP:9:ILE:HA	45:BP:117:ARG:O	2.05	0.56
44:BO:141:ALA:HA	44:BO:144:ARG:CB	2.36	0.56
38:DG:148:VAL:O	38:DG:152:GLY:CA	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1063:U:C2	1:A1:1064:G:C8	2.94	0.56
1:A1:1100:G:N3	1:A1:1100:G:O4'	2.39	0.56
1:A1:1141:G:C3'	1:A1:1142:A:C5'	2.70	0.56
1:A1:1778:G:C2	1:A1:1779:U:C6	2.93	0.56
1:A1:440:U:O2'	1:A1:441:A:OP1	2.22	0.56
3:AB:165:VAL:HA	3:AB:202:GLY:HA3	1.88	0.56
29:B1:1205:A:C5	29:B1:1206:G:N7	2.74	0.56
29:B1:1444:G:H2'	29:B1:1445:U:O5'	2.06	0.56
29:B1:1447:G:C8	29:B1:2355:G:O6	2.58	0.56
29:B1:1685:C:H5	29:B1:3069:G:N2	2.01	0.56
29:B1:2254:U:OP2	29:B1:2254:U:C6	2.58	0.56
29:B1:2341:A:H2'	29:B1:2342:U:C6	2.40	0.56
29:B1:3102:G:H2'	29:B1:3103:A:O5'	2.06	0.56
29:B1:3298:C:N3	29:B1:3391:A:C2	2.75	0.56
29:B1:585:A:C4	29:B1:586:C:C5	2.94	0.56
29:B1:609:G:O2'	29:B1:610:G:C5'	2.46	0.56
29:B1:699:A:H3'	29:B1:699:A:C8	2.41	0.56
29:B1:747:A:H8	29:B1:747:A:P	2.29	0.56
29:B1:776:U:C3'	29:B1:777:U:H5''	2.36	0.56
29:B1:779:G:C3'	29:B1:779:G:C8	2.87	0.56
29:B1:915:A:H8	29:B1:916:G:H4'	1.70	0.56
37:BF:7:PRO:N	38:BG:74:SER:H	2.03	0.56
1:C1:120:U:O4	1:C1:297:U:O4	2.23	0.56
1:C1:173:A:N6	1:C1:174:U:C6	2.73	0.56
1:C1:521:A:C2	1:C1:523:G:C6	2.94	0.56
1:C1:89:G:H2'	1:C1:90:C:C6	2.39	0.56
1:C1:97:C:H2'	1:C1:98:U:O4'	2.06	0.56
29:D1:1140:G:H2'	29:D1:1140:G:N3	2.21	0.56
29:D1:1313:G:N3	29:D1:1314:C:C6	2.74	0.56
29:D1:943:U:O2	29:D1:1431:G:H2'	2.06	0.56
29:D1:1894:U:C2	29:D1:1895:A:C8	2.94	0.56
29:D1:2341:A:OP2	29:D1:2341:A:H8	1.89	0.56
29:D1:2615:G:C6	29:D1:2616:C:N4	2.74	0.56
29:D1:264:G:C4	29:D1:265:A:N7	2.74	0.56
29:D1:2699:G:H8	29:D1:2699:G:C5'	2.17	0.56
29:D1:2703:A:H5''	29:D1:2704:A:H5''	1.81	0.56
29:D1:2947:G:H2'	29:D1:2948:C:C6	2.41	0.56
29:D1:3038:U:C2'	29:D1:3039:C:O5'	2.52	0.56
29:D1:311:C:N4	29:D1:312:C:N4	2.53	0.56
29:D1:46:U:C6	29:D1:46:U:H3'	2.40	0.56
29:D1:563:U:C3'	29:D1:564:G:C5'	2.67	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:841:U:H2'	1:A1:842:C:O4'	2.06	0.56
1:C1:217:A:H1'	1:C1:218:A:P	2.46	0.56
29:B1:2666:C:H2'	29:B1:2666:C:O2	2.05	0.56
29:B1:958:C:H4'	29:B1:2799:A:O2'	2.06	0.56
1:A1:210:A:C4	1:A1:211:U:C5	2.94	0.56
1:A1:1723:U:C4	1:A1:1724:U:C4	2.94	0.56
1:A1:1725:U:C6	1:A1:1725:U:O5'	2.59	0.56
1:C1:1603:U:H2'	1:C1:1604:U:C6	2.41	0.56
1:C1:1056:U:H5''	1:C1:1057:U:H5	1.71	0.56
29:B1:3171:U:O2'	29:B1:3172:A:OP 2	2.23	0.56
29:B1:3213:A:H3'	29:B1:3213:A:H8	1.70	0.56
29:B1:3283:U:H2'	29:B1:3284:G:C8	2.41	0.56
37:DF:21:THR:CA	37:DF:112:THR:HA	2.35	0.56
29:B1:3021:A:C4	29:B1:3023:U:C4	2.94	0.56
29:D1:3217:C:C1'	29:D1:3220:G:O2'	2.54	0.56
29:B1:2215:A:C2'	29:B1:2215:A:N3	2.65	0.56
29:D1:1065:A:O3'	29:D1:1066:G:H8	1.89	0.56
29:B1:341:G:N2	31:B3:24:G:O6	2.39	0.56
1:C1:1407:U:C5	1:C1:1408:G:C8	2.94	0.56
29:B1:1077:U:O2'	29:B1:1078:U:H6	1.86	0.56
29:D1:2213:A:C6	29:D1:2214:A:C6	2.94	0.56
29:B1:2555:G:H1'	29:B1:2556:C:P	2.45	0.56
1:A1:1418:G:H2'	1:A1:1419:G:H5'	1.87	0.56
16:AO:54:ASP:CA	16:AO:59:GLY:HA2	2.27	0.56
29:D1:1679:A:C2	29:D1:1680:G:C8	2.93	0.56
1:A1:1123:C:C2'	1:A1:1124:A:O5'	2.53	0.56
29:B1:1186:G:H2'	29:B1:1187:C:O5'	2.05	0.56
29:D1:3269:U:HO2'	29:D1:3270:U:C5'	2.18	0.56
29:D1:2584:G:C4'	29:D1:2584:G:OP1	2.54	0.56
1:C1:1734:U:N3	1:C1:1735:U:C5	2.74	0.56
29:B1:1743:G:C2'	29:B1:1744:G:H5'	2.36	0.56
29:D1:835:G:N2	29:D1:857:G:H1'	2.21	0.56
29:D1:2601:A:O2'	29:D1:2602:G:C5'	2.51	0.56
34:BC:160:VAL:O	34:BC:161:LEU:C	2.42	0.56
36:BE:234:ASP:C	36:BE:236:LEU:H	2.10	0.56
29:B1:1358:C:C2	29:B1:1359:C:C5	2.94	0.56
17:AP:126:LYS:O	17:AP:127:VAL:CB	2.54	0.56
29:B1:2580:A:O2'	29:B1:2581:U:OP1	2.21	0.56
45:DP:139:GLY:O	45:DP:143:THR:N	2.39	0.56
1:C1:723:G:C6	1:C1:724:C:N3	2.74	0.56
17:CP:104:LEU:O	17:CP:105:ALA:CB	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:932:U:O4'	1:C1:933:A:N3	2.39	0.56
1:C1:576:G:O2'	1:C1:580:A:C6	2.59	0.56
29:B1:1830:G:C8	29:B1:1830:G:OP2	2.59	0.56
3:AB:99:LYS:CB	3:AB:117:THR:HA	2.36	0.56
46:BQ:44:ALA:C	46:BQ:46:LYS:N	2.59	0.56
12:AK:54:THR:O	12:AK:55:THR:C	2.45	0.56
35:DD:234:ASN:C	35:DD:236:LEU:N	2.59	0.56
14:CM:134:ARG:O	14:CM:137:ALA:N	2.39	0.56
46:BQ:105:LYS:O	46:BQ:107:LEU:N	2.39	0.56
2:CA:38:PHE:CB	2:CA:39:ASN:HA	2.35	0.56
47:BR:75:GLY:O	47:BR:76:ALA:HB2	2.06	0.56
2:AA:80:THR:C	2:AA:82:GLY:H	2.08	0.56
36:BE:185:PHE:CB	36:BE:186:GLU:CB	2.84	0.56
21:CT:84:SER:C	21:CT:86:ASP:N	2.56	0.56
38:BG:203:TRP:O	38:BG:204:PRO:CB	2.53	0.56
13:AL:16:ARG:HA	13:AL:22:VAL:HA	1.88	0.56
1:A1:1051:G:C2	1:A1:1052:U:N3	2.73	0.55
1:A1:1147:A:C6	1:A1:1148:C:C4	2.93	0.55
1:A1:1149:G:N3	1:A1:1150:G:N7	2.53	0.55
1:A1:1729:C:H3'	1:A1:1730:A:H8	1.71	0.55
1:A1:1631:A:H5''	74:A1:1990:OHX:N3	2.20	0.55
1:A1:364:G:C2	1:A1:381:C:C4	2.94	0.55
1:A1:402:C:O2	1:A1:403:G:C4'	2.50	0.55
1:A1:427:C:H5'	1:A1:427:C:C6	2.37	0.55
1:A1:432:G:O2'	1:A1:433:C:H5'	2.06	0.55
1:A1:438:A:O5'	1:A1:438:A:H8	1.88	0.55
1:A1:492:A:C4	1:A1:494:U:H5''	2.41	0.55
1:A1:544:A:OP2	1:A1:544:A:H8	1.88	0.55
1:A1:604:A:C6	1:A1:605:A:C6	2.94	0.55
1:A1:606:A:C4	1:A1:608:U:C5	2.95	0.55
1:A1:755:A:C4'	1:A1:756:A:OP1	2.53	0.55
29:B1:1311:G:O2'	29:B1:2381:G:H4'	2.06	0.55
29:B1:1437:C:O2	29:B1:1437:C:C2'	2.48	0.55
29:B1:1556:C:N3	29:B1:2169:G:N7	2.54	0.55
29:B1:1909:A:C6	29:B1:1910:A:C2	2.94	0.55
29:B1:2278:C:C4	29:B1:2307:G:C2	2.93	0.55
29:B1:2280:A:C4	29:B1:2282:U:H5	2.25	0.55
29:B1:2820:A:C5'	29:B1:2821:C:OP2	2.54	0.55
29:B1:2821:C:H6	29:B1:2821:C:H3'	1.70	0.55
29:B1:2842:U:C6	29:B1:2842:U:O5'	2.58	0.55
29:B1:2929:C:N4	29:B1:2930:A:N7	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2860:U:H1'	29:B1:2939:G:OP1	2.06	0.55
29:B1:2985:C:C2'	29:B1:2986:U:O5'	2.54	0.55
29:B1:2985:C:H2'	29:B1:2986:U:O5'	2.06	0.55
29:B1:2994:A:H2'	29:B1:2995:A:C8	2.42	0.55
29:B1:3078:U:C4'	29:B1:3079:U:O5'	2.51	0.55
29:B1:3101:G:C2'	29:B1:3102:G:C5'	2.73	0.55
29:B1:3102:G:C2'	29:B1:3103:A:O5'	2.53	0.55
29:B1:3317:U:OP1	29:B1:3318:G:O5'	2.23	0.55
29:B1:398:A:H4'	29:B1:399:A:H5'	1.87	0.55
29:B1:547:G:C8	29:B1:548:G:C5	2.95	0.55
29:B1:53:G:C4	29:B1:54:C:C5	2.94	0.55
29:B1:572:A:C5	29:B1:573:C:C5	2.94	0.55
29:B1:594:U:C2	29:B1:595:G:C5	2.93	0.55
29:B1:643:U:O5'	29:B1:643:U:H6	1.89	0.55
29:B1:927:C:O2'	29:B1:928:C:H5'	2.05	0.55
31:B3:114:G:OP2	31:B3:114:G:C8	2.59	0.55
29:B1:2157:G:N7	33:BB:151:PRO:CB	2.68	0.55
1:C1:1072:C:H3'	1:C1:1073:G:H5''	1.87	0.55
1:C1:1110:G:O2'	1:C1:1111:G:O5'	2.17	0.55
1:C1:294:C:H2'	1:C1:294:C:O2	2.05	0.55
1:C1:365:G:C6	1:C1:377:G:O6	2.59	0.55
1:C1:526:A:C2'	1:C1:526:A:N3	2.64	0.55
29:D1:1138:U:C2'	29:D1:1139:G:H5''	2.34	0.55
29:D1:1540:U:H2'	29:D1:1541:G:C5'	2.36	0.55
29:D1:156:G:N7	29:D1:157:A:H1'	2.21	0.55
29:D1:2221:G:C8	29:D1:2221:G:H3'	2.41	0.55
29:D1:2254:U:C3'	74:D1:3415:OHX:N5	2.69	0.55
29:D1:2290:C:N3	29:D1:2303:A:C2	2.74	0.55
29:D1:2847:A:N3	29:D1:2848:G:C8	2.74	0.55
29:D1:3044:G:O2'	29:D1:3045:G:H5'	2.06	0.55
29:D1:3057:U:O3'	29:D1:3058:U:H4'	2.06	0.55
29:D1:1455:U:O4	29:D1:3077:A:OP2	2.23	0.55
29:D1:34:A:H2'	29:D1:35:A:C1'	2.36	0.55
29:D1:1488:G:N7	74:D1:3588:OHX:N4	2.54	0.55
29:D1:547:G:H5''	29:D1:548:G:N7	2.21	0.55
29:D1:593:C:H2'	29:D1:594:U:C5'	2.35	0.55
29:D1:684:G:C6	29:D1:685:G:N7	2.74	0.55
29:D1:687:U:O2'	29:D1:688:G:H5'	2.06	0.55
29:D1:79:U:C2	29:D1:80:G:C8	2.93	0.55
29:D1:804:C:C4	29:D1:940:G:N1	2.74	0.55
29:D1:915:A:C3'	29:D1:915:A:C8	2.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:993:G:H21	29:D1:2637:A:C3'	2.02	0.55
1:C1:850:A:N1	1:C1:851:U:C4	2.74	0.55
29:B1:2626:A:H3'	29:B1:2626:A:N3	2.21	0.55
29:B1:2665:U:O4	29:B1:2703:A:H4'	2.06	0.55
30:B2:14:U:H2'	30:B2:15:C:O4'	2.06	0.55
30:B2:73:C:N4	30:B2:74:C:H41	2.03	0.55
31:B3:79:A:C5	31:B3:80:A:C5	2.94	0.55
30:D2:12:U:P	30:D2:68:C:H4'	2.45	0.55
1:C1:245:U:N3	1:C1:247:A:OP2	2.38	0.55
42:DK:107:ASP:O	42:DK:108:GLU:O	2.24	0.55
42:DK:50:ALA:C	42:DK:62:ASN:HA	2.27	0.55
29:B1:2676:A:C2	29:B1:2680:A:C2	2.92	0.55
1:A1:1689:A:H5'	1:A1:1690:G:OP2	2.07	0.55
1:C1:1176:G:C6	1:C1:1177:C:N4	2.73	0.55
1:A1:1172:G:C6	1:A1:1173:C:C4	2.95	0.55
29:B1:3197:G:C2'	29:B1:3198:U:OP1	2.55	0.55
46:DQ:109:ALA:O	46:DQ:111:LYS:N	2.39	0.55
30:D2:56:A:H5''	30:D2:56:A:H8	1.71	0.55
30:B2:48:U:H2'	30:B2:49:G:N7	2.21	0.55
29:D1:184:U:C2	29:D1:185:C:C6	2.94	0.55
30:D2:48:U:C2'	30:D2:49:G:OP2	2.54	0.55
1:A1:693:U:C2'	1:A1:694:U:OP1	2.54	0.55
29:D1:1232:C:C4	29:D1:1261:G:N3	2.75	0.55
29:D1:987:U:C2	29:D1:1098:A:C2	2.94	0.55
38:DG:32:ALA:O	38:DG:33:ARG:C	2.44	0.55
29:B1:3265:C:H6	29:B1:3265:C:H5'	1.71	0.55
29:B1:2554:A:H2	33:BB:85:GLY:C	2.09	0.55
29:B1:2554:A:C2	33:BB:85:GLY:C	2.79	0.55
36:BE:272:TYR:CB	36:BE:275:THR:HA	2.36	0.55
29:D1:1916:U:O2'	29:D1:1917:C:H5'	2.06	0.55
1:C1:773:C:O2	1:C1:774:A:H8	1.89	0.55
1:A1:778:G:H2'	1:A1:779:U:H2'	1.87	0.55
5:AD:164:PRO:O	5:AD:167:ARG:N	2.38	0.55
29:D1:861:C:OP2	29:D1:862:U:OP2	2.24	0.55
29:B1:1018:G:C4	29:B1:1019:G:N7	2.74	0.55
1:C1:235:G:H2'	1:C1:236:A:H8	1.71	0.55
38:BG:205:PHE:O	38:BG:206:LYS:CB	2.53	0.55
43:DN:24:LYS:CB	43:DN:31:LYS:HA	2.36	0.55
1:C1:1398:U:H4'	1:C1:1399:C:C5	2.40	0.55
29:D1:2465:G:C2'	29:D1:2466:G:H8	2.16	0.55
13:AL:76:PRO:O	13:AL:81:ILE:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1356:U:OP2	29:D1:1357:G:C8	2.59	0.55
20:AS:42:CYS:C	20:AS:44:ARG:H	2.08	0.55
38:DG:224:ILE:C	38:DG:226:GLY:H	2.09	0.55
45:DP:97:ALA:O	45:DP:100:GLU:N	2.39	0.55
43:BN:82:SER:O	43:BN:83:LYS:C	2.44	0.55
1:A1:1287:A:C2	1:A1:1288:G:H1'	2.41	0.55
29:D1:2444:C:H3'	29:D1:2445:A:C5'	2.36	0.55
29:B1:2444:C:H3'	29:B1:2445:A:C5'	2.36	0.55
49:BT:75:ILE:O	49:BT:76:ILE:CB	2.54	0.55
1:A1:1501:C:H2'	1:A1:1502:G:C5'	2.36	0.55
16:AO:37:PHE:O	16:AO:39:GLN:N	2.39	0.55
40:DI:2:LYS:HA	40:DI:60:GLY:O	2.06	0.55
29:B1:1325:U:OP1	29:B1:1325:U:H4'	2.06	0.55
45:DP:15:LEU:HA	45:DP:42:ASN:O	2.06	0.55
1:A1:12:U:H5''	1:A1:13:C:OP2	2.05	0.55
1:A1:515:A:OP2	74:A1:1936:OHX:N3	2.39	0.55
29:B1:1193:A:C8	29:B1:1194:G:N2	2.75	0.55
29:B1:1500:G:H2'	29:B1:1501:U:C6	2.41	0.55
29:B1:900:G:N3	29:B1:1589:A:C6	2.74	0.55
29:B1:1835:A:H2'	29:B1:1836:C:C6	2.41	0.55
29:B1:199:A:C6	29:B1:219:A:C6	2.94	0.55
29:B1:2196:C:C4	29:B1:2242:A:N7	2.75	0.55
29:B1:282:G:H4'	29:B1:283:G:H8	1.71	0.55
29:B1:2847:A:C2	29:B1:2848:G:H1'	2.42	0.55
29:B1:3107:U:O5'	29:B1:3107:U:H6	1.89	0.55
29:B1:3305:A:C4	29:B1:3306:U:C2	2.94	0.55
29:B1:40:A:C5	29:B1:937:G:C6	2.94	0.55
29:B1:416:A:N1	29:B1:417:A:C5	2.74	0.55
29:B1:423:A:O2'	29:B1:424:G:O5'	2.24	0.55
29:B1:546:C:N4	29:B1:547:G:N3	2.54	0.55
44:BO:83:LYS:C	44:BO:85:THR:H	2.09	0.55
1:C1:1030:A:H3'	1:C1:1031:U:C5'	2.33	0.55
1:C1:1074:G:H2'	1:C1:1075:C:H5''	1.87	0.55
1:C1:452:A:C2	1:C1:454:U:O5'	2.59	0.55
1:C1:520:A:C4	1:C1:521:A:C8	2.94	0.55
1:C1:524:U:C2	1:C1:527:A:N1	2.74	0.55
29:D1:1175:C:C2'	29:D1:1176:C:O5'	2.54	0.55
29:D1:306:A:N6	29:D1:2783:U:H3	2.04	0.55
29:D1:2842:U:C6	29:D1:2842:U:O5'	2.59	0.55
29:D1:2888:U:N3	29:D1:2910:A:C2	2.75	0.55
29:D1:2896:A:O2'	29:D1:2897:A:C5'	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3009:G:C2'	29:D1:3010:U:H5'	2.36	0.55
29:D1:3021:A:C5	29:D1:3023:U:O4	2.59	0.55
29:D1:3326:G:C6	29:D1:3327:G:N7	2.74	0.55
29:D1:3377:G:H1'	29:D1:3378:C:H5'	1.86	0.55
29:D1:535:G:C8	29:D1:536:U:O4	2.60	0.55
29:D1:512:U:N3	29:D1:579:G:C6	2.74	0.55
29:D1:66:A:H2	29:D1:77:A:O3'	1.90	0.55
29:D1:931:C:H3'	29:D1:932:U:H2'	1.88	0.55
31:D3:125:U:C4	74:D3:205:OHX:N3	2.73	0.55
31:D3:42:G:O6	31:D3:103:G:C2	2.59	0.55
29:B1:2689:A:H4'	29:B1:2690:G:C5'	2.33	0.55
31:B3:81:U:C6	31:B3:82:U:H5''	2.41	0.55
1:A1:183:U:H1'	1:A1:184:C:O5'	2.06	0.55
1:A1:276:C:O2'	1:A1:277:U:P	2.63	0.55
30:D2:67:G:C2	30:D2:68:C:C6	2.94	0.55
30:D2:71:G:C2	30:D2:108:A:C2	2.94	0.55
49:DT:28:SER:C	49:DT:30:TYR:H	2.08	0.55
29:B1:2675:C:N4	29:B1:2676:A:N6	2.51	0.55
1:A1:1720:G:H2'	1:A1:1721:A:C8	2.42	0.55
1:C1:1267:G:O2'	1:C1:1268:G:H5'	2.06	0.55
1:C1:1512:G:H2'	1:C1:1513:G:C8	2.41	0.55
1:C1:1557:U:H3'	1:C1:1557:U:O2	2.05	0.55
1:A1:1165:G:C6	1:A1:1166:A:C5	2.95	0.55
1:A1:1233:G:H2'	1:A1:1234:A:O4'	2.05	0.55
1:A1:1373:C:H5'	1:A1:1374:C:OP2	2.06	0.55
1:A1:1611:A:H2'	1:A1:1612:U:O4'	2.07	0.55
1:C1:1063:U:C2	1:C1:1064:G:C8	2.95	0.55
29:D1:3194:C:H3'	29:D1:3194:C:H6	1.72	0.55
30:B2:47:C:O2	30:B2:47:C:H2'	2.05	0.55
29:B1:2523:A:H1'	29:B1:2524:A:O5'	2.06	0.55
29:B1:3019:U:C4	29:B1:3020:U:C4	2.94	0.55
29:D1:187:A:C4	29:D1:211:A:C6	2.94	0.55
29:B1:1268:G:N2	29:B1:1271:A:H61	2.03	0.55
31:B3:131:A:O2'	31:B3:132:G:P	2.64	0.55
4:AC:39:VAL:HA	4:AC:47:GLU:O	2.06	0.55
29:D1:1063:G:C1'	29:D1:1064:A:O5'	2.51	0.55
1:C1:1294:G:H2'	1:C1:1295:G:O4'	2.06	0.55
1:C1:1335:U:C2	1:C1:1336:A:N7	2.74	0.55
1:C1:1388:A:C5	1:C1:1411:A:N6	2.75	0.55
29:B1:1631:C:O5'	29:B1:1813:A:N1	2.39	0.55
1:A1:1391:A:C4	1:A1:1392:U:C5	2.93	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:902:G:O5'	1:C1:902:G:H8	1.89	0.55
1:C1:914:G:H3'	74:C1:1927:OHX:N3	2.22	0.55
36:BE:255:PRO:O	36:BE:257:GLU:N	2.40	0.55
36:DE:134:ALA:H	36:DE:135:VAL:HA	1.69	0.55
29:D1:1933:A:N7	29:D1:1934:G:C8	2.74	0.55
39:DH:237:ILE:O	39:DH:238:LEU:C	2.45	0.55
1:A1:1322:A:H2'	1:A1:1323:C:C6	2.41	0.55
1:C1:772:G:N7	1:C1:773:C:N4	2.54	0.55
29:B1:1356:U:OP2	29:B1:1357:G:C8	2.59	0.55
29:B1:1180:A:C6	29:B1:1182:A:N7	2.74	0.55
44:BO:78:GLY:N	44:BO:79:ALA:CB	2.69	0.55
43:DN:21:VAL:O	43:DN:34:ALA:CB	2.54	0.55
1:C1:213:A:N6	1:C1:214:G:C2	2.74	0.55
7:AF:85:VAL:O	7:AF:86:ILE:O	2.24	0.55
29:D1:2963:C:O2'	29:D1:2964:G:H5'	2.06	0.55
3:AB:118:ALA:CB	3:AB:124:ALA:HB2	2.36	0.55
47:BR:24:VAL:O	47:BR:25:TYR:C	2.44	0.55
29:D1:2733:A:H2'	29:D1:2734:A:C8	2.41	0.55
38:DG:159:GLN:O	38:DG:162:PRO:CB	2.54	0.55
1:A1:905:A:C2	1:A1:906:A:H1'	2.41	0.55
45:DP:37:ARG:HA	45:DP:108:ILE:HA	1.87	0.55
38:BG:222:HIS:CB	38:BG:227:GLY:HA3	2.36	0.55
2:CA:67:ILE:C	2:CA:69:ASN:H	2.10	0.55
47:BR:37:ALA:C	47:BR:39:ARG:N	2.59	0.55
40:BI:85:GLY:O	40:BI:186:PHE:HA	2.05	0.55
2:CA:59:LEU:O	2:CA:60:ALA:C	2.44	0.55
44:BO:141:ALA:O	44:BO:142:ILE:C	2.44	0.55
2:AA:28:ASN:HA	2:AA:45:VAL:HA	1.88	0.55
29:D1:1675:G:N2	29:D1:1773:C:C4	2.75	0.55
17:AP:92:CYS:C	17:AP:94:ASN:H	2.10	0.55
10:AI:124:THR:O	10:AI:125:PRO:CB	2.55	0.55
15:CN:97:VAL:C	15:CN:99:ILE:H	2.09	0.55
29:D1:1733:G:H2'	29:D1:1734:G:C8	2.41	0.55
11:CJ:110:THR:HA	11:CJ:113:ASP:CB	2.37	0.55
17:CP:95:PHE:O	17:CP:97:ASP:N	2.39	0.55
29:D1:1429:G:O5'	29:D1:1429:G:H8	1.88	0.55
1:C1:1667:A:H2'	1:C1:1668:G:C8	2.41	0.55
1:A1:1058:U:O2	1:A1:1060:U:H5'	2.06	0.55
1:A1:1039:A:O2'	1:A1:1040:G:P	2.64	0.55
1:A1:1145:U:C3'	1:A1:1146:G:H5''	2.35	0.55
1:A1:13:C:C5'	3:AB:161:LYS:O	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1631:A:H5'	1:A1:1764:C:H1'	1.88	0.55
1:A1:32:U:O2'	1:A1:33:U:H5'	2.06	0.55
7:AF:97:TYR:O	7:AF:98:ASN:CB	2.54	0.55
29:B1:1115:G:C8	29:B1:1115:G:C3'	2.88	0.55
29:B1:1128:U:C2'	29:B1:1128:U:O2	2.53	0.55
29:B1:1150:A:C2	29:B1:1151:U:H1'	2.42	0.55
29:B1:1164:G:C4	29:B1:1165:A:C8	2.94	0.55
29:B1:1188:U:H3	29:B1:1317:A:H62	1.54	0.55
29:B1:1449:A:H4'	29:B1:2983:C:C2	2.41	0.55
29:B1:1498:A:C6	29:B1:1519:G:C6	2.95	0.55
29:B1:1654:A:N3	29:B1:1655:G:H1'	2.21	0.55
29:B1:1689:U:O2'	29:B1:1690:C:H5'	2.06	0.55
29:B1:2223:A:C2'	29:B1:2224:A:H8	2.20	0.55
29:B1:2296:A:C2	29:B1:2919:A:C1'	2.89	0.55
29:B1:264:G:C6	29:B1:265:A:C5	2.94	0.55
29:B1:2896:A:H5'	29:B1:2896:A:H8	1.70	0.55
29:B1:2994:A:O2'	29:B1:2995:A:H5'	2.06	0.55
29:B1:1455:U:C2	29:B1:3078:U:C5	2.94	0.55
29:B1:323:A:N7	29:B1:324:A:N7	2.54	0.55
29:B1:1942:U:H1'	29:B1:3342:A:C2	2.41	0.55
29:B1:2169:G:O6	74:B1:3447:OHX:N4	2.39	0.55
29:B1:347:G:N1	29:B1:348:A:C6	2.75	0.55
29:B1:361:A:C2	29:B1:928:C:O4'	2.59	0.55
29:B1:395:A:N3	29:B1:395:A:H2'	2.21	0.55
29:B1:606:C:O3'	29:B1:607:A:O4'	2.24	0.55
29:B1:64:G:H1'	29:B1:77:A:C2	2.42	0.55
29:B1:747:A:H8	29:B1:747:A:OP1	1.89	0.55
29:B1:952:A:H3'	29:B1:952:A:H8	1.71	0.55
29:B1:977:C:H42	29:B1:1105:A:N6	2.04	0.55
37:BF:149:ILE:CB	37:BF:150:LYS:CB	2.85	0.55
37:BF:3:ALA:O	37:BF:4:GLN:O	2.22	0.55
1:C1:47:A:C2	1:C1:100:A:C4	2.95	0.55
1:C1:1138:A:H2'	1:C1:1139:A:C8	2.41	0.55
1:C1:1631:A:C6	1:C1:1632:C:O2	2.59	0.55
1:C1:1757:G:C4	1:C1:1758:U:C5	2.95	0.55
1:C1:472:U:H2'	1:C1:473:A:O4'	2.05	0.55
1:C1:756:A:H2'	1:C1:757:A:H8	1.72	0.55
29:D1:1294:A:O2'	29:D1:1295:G:OP1	2.25	0.55
29:D1:1440:G:C4	29:D1:1441:G:C8	2.94	0.55
29:D1:151:A:H2'	29:D1:152:U:C5	2.42	0.55
29:D1:1659:U:N3	29:D1:1660:C:N4	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1890:U:C2	29:D1:1891:A:C8	2.94	0.55
29:D1:1909:A:N1	29:D1:1910:A:N3	2.54	0.55
29:D1:913:A:C2	29:D1:2134:G:N3	2.75	0.55
29:D1:2343:C:H2'	29:D1:2344:U:C6	2.42	0.55
29:D1:287:G:O2'	29:D1:288:C:C5'	2.54	0.55
29:D1:3045:G:C2'	29:D1:3046:A:O5'	2.54	0.55
29:D1:3097:C:H2'	29:D1:3098:G:C8	2.41	0.55
29:D1:3107:U:H6	29:D1:3107:U:O5'	1.89	0.55
29:D1:3126:C:H2'	29:D1:3127:A:O4'	2.07	0.55
29:D1:326:U:H4'	29:D1:327:A:OP2	2.06	0.55
29:D1:3026:G:N7	74:D1:3413:OHX:N5	2.54	0.55
29:D1:500:C:C2'	29:D1:501:A:H5'	2.36	0.55
29:D1:514:G:C2'	29:D1:515:C:N1	2.68	0.55
29:D1:692:A:C2	29:D1:693:A:C4	2.95	0.55
29:D1:733:G:O6	29:D1:737:G:N1	2.40	0.55
29:D1:761:A:N1	29:D1:762:U:H1'	2.21	0.55
29:D1:881:C:C2	29:D1:1850:A:C8	2.94	0.55
31:D3:53:A:H2'	31:D3:54:A:H8	1.71	0.55
1:A1:709:C:H42	1:A1:730:G:C1'	2.19	0.55
30:B2:64:A:C1'	30:B2:65:G:C5'	2.84	0.55
31:B3:48:A:N1	31:B3:51:G:C6	2.73	0.55
31:B3:56:G:N3	31:B3:57:C:C6	2.74	0.55
1:A1:450:U:O2	1:A1:450:U:H2'	2.05	0.55
29:B1:2681:U:O2'	29:B1:2682:C:C5'	2.54	0.55
1:A1:1713:G:N2	1:A1:1714:A:C8	2.74	0.55
14:CM:67:MET:O	14:CM:69:LYS:N	2.40	0.55
1:A1:1571:C:H5''	1:A1:1572:G:OP2	2.05	0.55
1:A1:1607:G:OP2	11:AJ:125:GLU:HA	2.06	0.55
29:B1:618:C:N3	29:B1:619:A:N7	2.53	0.55
29:B1:3196:U:H1'	29:B1:3197:G:C6	2.41	0.55
46:DQ:9:THR:C	46:DQ:12:ALA:H	2.10	0.55
30:D2:27:A:C2	30:D2:54:U:C5	2.95	0.55
30:B2:43:U:H2'	30:B2:44:C:H5'	1.87	0.55
30:B2:49:G:C4	30:B2:49:G:OP2	2.59	0.55
29:D1:199:A:C4	29:D1:201:A:C8	2.94	0.55
29:D1:398:A:H4'	29:D1:399:A:H5'	1.86	0.55
2:AA:172:LEU:O	2:AA:176:LEU:CB	2.54	0.55
29:B1:2214:A:H2'	29:B1:2215:A:C8	2.41	0.55
29:D1:1062:A:O2'	29:D1:1063:G:P	2.65	0.55
29:B1:341:G:N2	31:B3:24:G:C6	2.74	0.55
44:DO:186:GLY:N	44:DO:187:ARG:CA	2.68	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:154:TYR:CB	34:DC:155:ALA:HA	2.37	0.55
29:D1:3142:A:H5'	29:D1:3143:C:C6	2.41	0.55
29:D1:2515:A:H2'	29:D1:2516:U:C6	2.41	0.55
29:B1:125:C:C2'	29:B1:126:U:H5'	2.34	0.55
1:C1:1750:A:C6	1:C1:1751:C:C4	2.94	0.55
1:A1:1416:G:C4	1:A1:1417:A:C8	2.94	0.55
29:D1:1684:U:H3'	29:D1:1684:U:H6	1.71	0.55
1:A1:1661:U:H2'	1:A1:1662:G:H8	1.68	0.55
29:D1:2119:A:C8	29:D1:2120:A:C2	2.94	0.55
29:D1:2561:A:N6	29:D1:2579:G:C5	2.74	0.55
29:D1:1349:G:C8	29:D1:1349:G:OP2	2.52	0.55
36:BE:159:VAL:C	36:BE:161:GLY:N	2.51	0.55
29:B1:1919:G:C2	29:B1:1920:U:N3	2.74	0.55
29:D1:1736:G:C6	29:D1:1737:U:C4	2.94	0.55
42:BK:87:LYS:O	42:BK:89:TYR:N	2.39	0.55
29:B1:2603:G:C2	29:B1:2604:U:H1'	2.41	0.55
40:BI:111:PHE:HA	40:BI:112:ILE:O	2.06	0.55
36:BE:241:THR:O	36:BE:243:ALA:N	2.40	0.55
48:DS:151:ARG:CA	48:DS:154:ALA:HB3	2.35	0.55
29:B1:2581:U:H6	29:B1:2581:U:P	2.30	0.55
29:D1:2122:G:O2'	29:D1:2123:G:H5'	2.07	0.55
29:D1:2969:A:C6	29:D1:2970:C:N4	2.74	0.55
1:C1:500:C:H2'	1:C1:501:U:H6	1.71	0.55
45:BP:83:ALA:O	45:BP:84:LEU:C	2.43	0.55
42:DK:121:GLY:O	42:DK:123:PHE:N	2.37	0.55
44:DO:141:ALA:O	44:DO:142:ILE:C	2.44	0.55
38:DG:233:GLU:N	38:DG:234:GLU:O	2.40	0.55
41:BJ:34:TYR:O	41:BJ:35:ASP:CB	2.54	0.55
10:AI:80:MET:C	10:AI:82:ASN:H	2.08	0.55
46:DQ:117:ILE:O	46:DQ:147:GLU:O	2.24	0.55
45:BP:185:ALA:O	45:BP:186:ALA:HB3	2.07	0.55
11:AJ:25:GLY:H	11:AJ:64:ASP:HA	1.70	0.55
16:AO:119:LYS:O	16:AO:121:VAL:N	2.39	0.55
1:A1:1005:A:N7	1:A1:1006:C:C4	2.74	0.55
1:A1:475:A:N1	1:A1:476:U:O2	2.40	0.55
1:A1:860:U:O4	1:A1:861:U:N3	2.40	0.55
1:A1:985:G:H2'	1:A1:986:G:H8	1.71	0.55
29:B1:1292:C:O2	29:B1:1292:C:H2'	2.06	0.55
29:B1:1414:G:H2'	29:B1:1415:U:H6	1.71	0.55
29:B1:1520:G:C2	29:B1:1521:G:C4	2.94	0.55
29:B1:2223:A:C2'	29:B1:2224:A:C8	2.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2286:U:C4	29:B1:2288:G:C1'	2.88	0.55
29:B1:2355:G:O2'	29:B1:2356:A:O4'	2.24	0.55
29:B1:2922:G:H1'	29:B1:2951:G:H21	1.71	0.55
29:B1:3012:A:H2'	29:B1:3013:U:C5'	2.15	0.55
29:B1:3323:A:C2'	29:B1:3324:C:O5'	2.55	0.55
29:B1:3336:A:N6	29:B1:3337:G:C6	2.75	0.55
29:B1:609:G:C5	29:B1:610:G:O6	2.58	0.55
29:B1:649:A:N3	29:B1:650:C:C6	2.75	0.55
29:B1:747:A:H8	29:B1:747:A:O5'	1.90	0.55
29:B1:722:G:N1	29:B1:749:C:C5	2.74	0.55
29:B1:771:A:N1	29:B1:772:U:N3	2.54	0.55
29:B1:755:A:C2	29:B1:778:U:C2	2.95	0.55
29:B1:943:U:H1'	29:B1:944:C:OP1	2.05	0.55
29:B1:953:G:O2'	29:B1:954:U:O5'	2.22	0.55
31:B3:109:A:C2	31:B3:114:G:C5	2.94	0.55
31:B3:106:C:C2	31:B3:138:A:N7	2.75	0.55
31:B3:5:U:C5	31:B3:6:U:C4	2.95	0.55
1:C1:1087:A:H5''	1:C1:1088:A:OP2	2.07	0.55
1:C1:1627:U:O2'	1:C1:1628:U:O5'	2.23	0.55
1:C1:162:A:C2	1:C1:163:G:C4	2.95	0.55
1:C1:1645:G:H2'	1:C1:1646:C:H6	1.71	0.55
1:C1:1778:G:H2'	1:C1:1779:U:H5'	1.88	0.55
1:C1:184:C:N4	1:C1:202:A:N1	2.55	0.55
1:C1:289:U:O2	1:C1:290:G:H5''	2.05	0.55
1:C1:290:G:N2	1:C1:291:G:C2	2.75	0.55
1:C1:88:U:C5	1:C1:89:G:N7	2.75	0.55
1:C1:964:U:H2'	1:C1:964:U:OP2	2.07	0.55
1:C1:97:C:C4	1:C1:98:U:C5	2.95	0.55
29:D1:117:U:C4	29:D1:118:U:H5	2.24	0.55
29:D1:1466:G:O6	29:D1:1511:U:C6	2.60	0.55
29:D1:150:A:N7	29:D1:151:A:N7	2.53	0.55
29:D1:1783:U:C2	29:D1:1784:G:C8	2.94	0.55
29:D1:2148:U:O3'	29:D1:2149:A:C8	2.60	0.55
29:D1:307:A:H1'	29:D1:2223:A:N3	2.22	0.55
29:D1:2253:G:C5	29:D1:2254:U:C4	2.95	0.55
29:D1:2295:A:N6	29:D1:2296:A:H61	2.03	0.55
29:D1:2383:C:H2'	29:D1:2384:A:O5'	2.06	0.55
29:D1:2642:A:N3	29:D1:2642:A:H2'	2.20	0.55
29:D1:2762:A:H3'	29:D1:2763:U:H5	1.71	0.55
29:D1:2888:U:C5	29:D1:2910:A:N1	2.74	0.55
29:D1:3088:G:C5	29:D1:3089:C:C4	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:109:A:C6	29:D1:323:A:C4	2.93	0.55
29:D1:347:G:C6	29:D1:348:A:C6	2.94	0.55
29:D1:518:G:P	29:D1:520:U:H5	2.29	0.55
29:D1:534:U:P	29:D1:534:U:H6	2.26	0.55
29:D1:584:G:C4	29:D1:585:A:C8	2.93	0.55
29:D1:425:G:C6	29:D1:635:G:N1	2.75	0.55
29:D1:636:C:O2'	29:D1:637:C:H5'	2.07	0.55
29:D1:715:A:H8	29:D1:715:A:O5'	1.89	0.55
29:D1:726:G:C6	29:D1:727:G:C2	2.95	0.55
29:D1:733:G:C2'	29:D1:733:G:N3	2.70	0.55
31:D3:49:G:H2'	31:D3:50:C:O5'	2.07	0.55
31:D3:66:A:C6	31:D3:67:U:O4	2.60	0.55
33:DB:200:ARG:O	33:DB:202:VAL:N	2.36	0.55
34:DC:40:PRO:O	34:DC:41:VAL:C	2.44	0.55
1:A1:648:G:C2	1:A1:649:U:C5	2.95	0.55
29:B1:2667:A:C3'	29:B1:2667:A:C4	2.83	0.55
29:B1:998:A:H4'	30:B2:103:A:C2	2.42	0.55
30:B2:70:U:C2	30:B2:71:G:C8	2.94	0.55
31:B3:72:A:C4	31:B3:88:A:N1	2.74	0.55
29:D1:2678:A:OP2	29:D1:2678:A:H4'	2.05	0.55
1:C1:1181:U:H2'	1:C1:1182:U:O5'	2.05	0.55
1:C1:1231:U:H1'	1:C1:1258:U:C4'	2.22	0.55
1:C1:1428:G:N3	1:C1:1428:G:H2'	2.22	0.55
1:C1:1472:C:P	1:C1:1472:C:H3'	2.46	0.55
1:C1:1598:U:C4	1:C1:1599:C:C5	2.95	0.55
1:A1:1377:U:O2	1:A1:1378:U:H4'	2.06	0.55
1:A1:1381:U:H2'	1:A1:1382:A:H5'	1.88	0.55
1:A1:1619:C:C2	1:A1:1620:C:C5	2.88	0.55
29:D1:625:G:O2'	29:D1:626:U:O5'	2.25	0.55
30:D2:55:A:C2	30:D2:56:A:C4	2.91	0.55
29:D1:1393:A:H8	29:D1:1418:A:C5	2.25	0.55
29:D1:3221:C:C2'	29:D1:3222:U:H5'	2.36	0.55
29:D1:3260:G:C6	29:D1:3261:C:H1'	2.41	0.55
29:B1:1616:U:H2'	29:B1:1617:G:H8	1.70	0.55
30:D2:30:G:C5	30:D2:31:U:C2	2.95	0.55
29:D1:1626:U:C3'	29:D1:1627:U:O4'	2.55	0.55
1:C1:1325:A:H2'	1:C1:1326:A:C8	2.41	0.55
29:D1:2204:C:H2'	29:D1:2205:U:H5''	1.88	0.55
29:D1:2215:A:C2	29:D1:2216:G:C8	2.94	0.55
29:D1:1077:U:O2'	29:D1:1078:U:C6	2.59	0.55
29:B1:1035:G:C4	29:B1:1036:A:H8	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:215:PHE:O	3:AB:217:ALA:N	2.40	0.55
1:C1:1285:U:O2	1:C1:1286:U:H5	1.89	0.55
1:C1:774:A:C2	1:C1:775:G:C1'	2.89	0.55
1:C1:375:U:O2	1:C1:375:U:C2'	2.52	0.55
5:CD:197:GLU:O	5:CD:201:ALA:HB2	2.06	0.55
40:BI:65:VAL:O	40:BI:68:LEU:N	2.39	0.55
29:D1:2880:U:H2'	29:D1:2881:C:H6	1.69	0.55
1:C1:1400:A:N1	1:C1:1401:A:C2	2.75	0.55
45:BP:56:ASP:C	45:BP:60:LYS:N	2.60	0.55
45:DP:56:ASP:C	45:DP:60:LYS:H	2.09	0.55
3:AB:133:LYS:C	3:AB:135:SER:N	2.60	0.55
29:D1:3249:C:O2	29:D1:3249:C:C2'	2.51	0.55
3:CB:239:PRO:C	3:CB:241:ASP:N	2.58	0.55
1:C1:1622:G:C6	1:C1:1623:C:C4	2.94	0.55
46:BQ:30:ARG:O	46:BQ:31:GLU:C	2.45	0.55
41:BJ:146:ASP:O	41:BJ:147:VAL:C	2.43	0.55
8:CG:88:LEU:C	8:CG:90:TYR:N	2.59	0.55
43:DN:95:ALA:O	43:DN:97:SER:N	2.39	0.55
29:D1:2720:G:H2'	29:D1:2721:A:H8	1.72	0.55
48:BS:24:LEU:O	48:BS:26:PRO:N	2.39	0.55
37:DF:52:VAL:O	37:DF:66:SER:CB	2.54	0.55
48:BS:70:LYS:C	48:BS:72:GLU:H	2.09	0.55
46:DQ:116:HIS:O	46:DQ:148:LEU:HA	2.05	0.55
12:CK:7:LYS:C	12:CK:9:VAL:H	2.08	0.55
41:DJ:73:ASN:O	41:DJ:74:LYS:C	2.45	0.55
37:DF:171:PRO:O	37:DF:172:HIS:CB	2.54	0.55
1:A1:1024:U:O2'	1:A1:1025:A:H5'	2.07	0.55
1:A1:1142:A:H2'	1:A1:1143:A:C8	2.42	0.55
1:A1:1631:A:H1'	1:A1:1764:C:O2	2.04	0.55
1:A1:45:U:H6	1:A1:45:U:C3'	2.20	0.55
1:A1:5:U:O2'	1:A1:553:G:O3'	2.25	0.55
1:A1:612:U:H4'	1:A1:1099:U:C6	2.42	0.55
1:A1:93:A:H8	1:A1:398:G:H2'	1.64	0.55
29:B1:1681:U:C2'	29:B1:1681:U:O2	2.55	0.55
29:B1:1691:U:C2	29:B1:1692:U:C5	2.94	0.55
29:B1:2223:A:O2'	29:B1:2224:A:O5'	2.25	0.55
29:B1:2255:A:N6	74:B1:3438:OHX:N2	2.54	0.55
29:B1:2282:U:O2'	29:B1:2283:G:C5'	2.54	0.55
29:B1:22:G:C4	29:B1:23:A:H8	2.21	0.55
29:B1:2897:A:N1	29:B1:2904:U:O4	2.40	0.55
29:B1:2923:U:H2'	29:B1:2924:U:H6	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3079:U:H3'	29:B1:3080:G:H5''	1.88	0.55
29:B1:3298:C:H2'	29:B1:3299:A:H8	1.70	0.55
29:B1:3316:A:H1'	29:B1:3317:U:OP2	2.06	0.55
29:B1:40:A:C6	54:BY:30:GLY:HA2	2.41	0.55
29:B1:431:U:HO2'	29:B1:432:G:P	2.29	0.55
29:B1:557:A:H3'	29:B1:557:A:H8	1.69	0.55
29:B1:804:C:C4	29:B1:940:G:N1	2.75	0.55
31:B3:114:G:H2'	31:B3:115:C:H5'	1.89	0.55
1:C1:104:A:C2'	1:C1:106:U:OP1	2.54	0.55
1:C1:1113:A:C2	1:C1:1115:U:O4	2.59	0.55
1:C1:350:U:C4'	1:C1:352:A:C8	2.89	0.55
1:C1:44:U:OP1	1:C1:47:A:OP2	2.24	0.55
1:C1:518:A:N6	1:C1:535:A:C4	2.75	0.55
1:C1:571:G:H3'	1:C1:572:C:H6	1.71	0.55
1:C1:87:C:H2'	1:C1:87:C:O2	2.07	0.55
29:D1:116:A:H4'	29:D1:117:U:OP1	2.06	0.55
29:D1:1189:C:C4'	29:D1:1192:C:C5	2.85	0.55
29:D1:1337:A:C6	29:D1:1338:C:C4	2.94	0.55
29:D1:1336:U:H2'	29:D1:1337:A:H8	1.71	0.55
29:D1:1405:U:C6	29:D1:1406:A:N7	2.74	0.55
29:D1:1459:C:O2'	29:D1:1460:A:H5'	2.06	0.55
29:D1:1601:U:C5	29:D1:1604:G:O6	2.60	0.55
29:D1:1858:A:C2'	29:D1:1859:A:OP1	2.54	0.55
29:D1:2152:A:H1'	29:D1:2243:A:N3	2.22	0.55
29:D1:2314:U:O2	29:D1:2314:U:H5''	2.07	0.55
29:D1:648:C:C5	29:D1:2375:G:P	2.99	0.55
29:D1:2406:C:H1'	29:D1:2819:A:C6	2.42	0.55
29:D1:2629:U:C2	29:D1:2630:C:C5	2.94	0.55
29:D1:312:C:H1'	29:D1:2778:G:N2	2.20	0.55
29:D1:2841:G:H3'	29:D1:2842:U:H5'	1.88	0.55
29:D1:2850:G:H5''	29:D1:2850:G:H8	1.70	0.55
29:D1:287:G:C4	29:D1:288:C:C5	2.94	0.55
29:D1:420:G:C4	29:D1:2384:A:C2	2.95	0.55
1:C1:973:A:O2'	29:D1:847:A:C2	2.60	0.55
1:C1:974:A:H5'	29:D1:848:A:O4'	2.07	0.55
29:D1:926:A:H2'	29:D1:927:C:H6	1.70	0.55
29:D1:957:C:C2	29:D1:958:C:C5	2.94	0.55
29:D1:996:A:C2'	29:D1:997:A:H5'	2.36	0.55
31:D3:109:A:C2	31:D3:114:G:C5	2.94	0.55
31:D3:114:G:OP2	31:D3:114:G:C8	2.57	0.55
31:D3:120:C:H2'	31:D3:121:U:O4'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:3:A:C8	31:D3:3:A:H3'	2.42	0.55
37:DF:5:LYS:CB	38:DG:77:VAL:H	2.19	0.55
1:C1:218:A:H61	1:C1:844:A:C1'	2.15	0.55
29:B1:2631:U:N3	29:B1:2648:G:C2	2.75	0.55
31:B3:54:A:H2'	31:B3:55:U:H5'	1.89	0.55
31:B3:68:G:C6	31:B3:69:U:C4	2.94	0.55
1:A1:139:C:C5	1:A1:176:C:N3	2.74	0.55
1:A1:168:A:C3'	1:A1:169:A:H8	2.20	0.55
1:A1:196:G:O2'	1:A1:197:A:O5'	2.24	0.55
1:A1:201:G:N1	1:A1:202:A:C2	2.75	0.55
1:A1:260:U:H3'	1:A1:261:U:H5''	1.89	0.55
1:A1:57:G:C6	1:A1:91:G:N1	2.74	0.55
1:C1:337:G:H8	1:C1:337:G:O5'	1.89	0.55
29:D1:2671:A:C6	29:D1:2672:G:N7	2.74	0.55
1:A1:1720:G:O2'	1:A1:1721:A:H5'	2.06	0.55
1:C1:1525:A:H1'	1:C1:1590:G:H4'	1.89	0.55
1:C1:1605:G:C5	1:C1:1606:C:C5	2.95	0.55
1:A1:1183:A:N6	1:A1:1184:A:N1	2.55	0.55
1:A1:1583:A:N3	1:A1:1585:U:C4	2.74	0.55
1:A1:1585:U:N3	1:A1:1611:A:C2	2.74	0.55
29:D1:3209:A:C2'	29:D1:3210:A:C8	2.89	0.55
29:D1:624:G:H2'	29:D1:625:G:C5'	2.36	0.55
29:B1:3200:G:H2'	29:B1:3201:C:C5	2.41	0.55
29:B1:3201:C:C2'	29:B1:3202:G:C8	2.84	0.55
29:B1:3205:G:O2'	29:B1:3206:C:C4	2.55	0.55
29:B1:3029:A:H3'	29:B1:3030:G:C5'	2.33	0.55
29:D1:1414:G:C2	29:D1:1415:U:H1'	2.42	0.55
29:D1:198:A:C2	29:D1:219:A:C8	2.95	0.55
30:B2:23:A:C3'	30:B2:24:A:C8	2.87	0.55
30:B2:28:C:H2'	30:B2:28:C:O2	2.05	0.55
30:B2:55:A:P	30:B2:55:A:H3'	2.46	0.55
2:AA:178:ALA:HA	2:AA:182:LEU:H	1.71	0.55
31:B3:120:C:H2'	31:B3:121:U:O4'	2.06	0.55
29:D1:1094:U:H4'	29:D1:1095:U:H4'	1.89	0.55
31:B3:24:G:H21	31:B3:25:G:H1'	1.70	0.55
29:D1:1624:G:N2	29:D1:1822:C:N3	2.54	0.55
1:C1:1292:G:H2'	1:C1:1293:U:C6	2.41	0.55
29:B1:1094:U:H4'	29:B1:1095:U:H4'	1.88	0.55
1:A1:1753:A:C2	1:A1:1754:A:N1	2.74	0.55
34:BC:83:PRO:CB	34:BC:204:ALA:HB1	2.36	0.55
29:D1:1947:G:H2'	29:D1:1947:G:N3	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2105:G:H2'	29:D1:2106:A:H8	1.70	0.55
1:C1:492:A:N3	1:C1:494:U:C6	2.75	0.55
1:A1:1665:U:H3	1:A1:1736:G:H1	1.53	0.55
1:A1:923:A:H2'	1:A1:924:A:H8	1.71	0.55
3:AB:155:ALA:O	3:AB:168:ARG:HA	2.07	0.55
29:B1:2102:U:H2'	29:B1:2103:U:H6	1.71	0.55
29:D1:2914:G:H2'	29:D1:2915:U:C6	2.41	0.55
1:A1:778:G:N2	1:A1:783:G:C6	2.75	0.55
5:AD:196:GLU:O	5:AD:197:GLU:CB	2.54	0.55
29:B1:2888:U:C6	29:B1:2910:A:N1	2.75	0.55
36:DE:243:ALA:HB1	36:DE:247:ILE:CB	2.37	0.55
29:D1:1704:A:C2	29:D1:1741:A:C5	2.95	0.55
29:B1:1358:C:H5''	29:B1:1359:C:OP2	2.06	0.55
29:D1:96:G:H21	29:D1:97:U:H1'	1.69	0.55
44:DO:78:GLY:CA	44:DO:79:ALA:CB	2.85	0.55
1:A1:317:C:N4	1:A1:318:U:O4	2.39	0.55
29:B1:2530:G:C8	29:B1:2530:G:OP2	2.59	0.55
29:B1:2530:G:H8	29:B1:2530:G:OP2	1.89	0.55
29:B1:664:U:O2'	29:B1:665:A:H5'	2.06	0.55
29:B1:2468:A:H4'	29:B1:2469:G:O5'	2.06	0.55
14:CM:58:ALA:C	14:CM:60:SER:H	2.10	0.55
36:BE:19:PRO:O	36:BE:20:PHE:CB	2.53	0.55
29:D1:256:G:H2'	29:D1:256:G:N3	2.20	0.55
1:C1:1358:G:N1	1:C1:1359:C:C4	2.75	0.55
6:CE:54:ARG:O	6:CE:55:ALA:O	2.24	0.55
29:B1:2443:A:C5	29:B1:2444:C:C4	2.95	0.55
45:BP:25:LYS:O	45:BP:26:GLN:C	2.45	0.55
8:AG:80:LEU:O	8:AG:81:ALA:HB2	2.06	0.55
47:BR:33:TYR:O	47:BR:36:LEU:O	2.25	0.55
39:BH:205:ALA:HB3	39:BH:206:GLU:CB	2.37	0.55
10:CI:68:PRO:HA	10:CI:69:GLU:C	2.27	0.55
8:CG:46:THR:O	8:CG:47:PRO:CB	2.54	0.55
21:AT:42:LEU:O	21:AT:60:SER:HA	2.06	0.55
53:DX:78:PHE:O	53:DX:79:ALA:HB2	2.06	0.55
17:CP:76:LEU:O	17:CP:80:GLY:N	2.39	0.55
18:CQ:87:GLY:O	18:CQ:88:ILE:CB	2.54	0.55
1:A1:1074:G:O6	1:A1:1075:C:C4	2.60	0.55
1:A1:1790:A:H2'	1:A1:1791:A:H5''	1.87	0.55
1:A1:50:C:N3	1:A1:424:C:C5	2.75	0.55
1:A1:511:A:H4'	1:A1:512:A:OP2	2.06	0.55
1:A1:524:U:C2'	1:A1:527:A:C2	2.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:52:U:H6	1:A1:52:U:O5'	1.89	0.55
1:A1:557:G:OP2	1:A1:589:C:H1'	2.07	0.55
1:A1:635:A:H2'	1:A1:636:A:H8	1.70	0.55
1:A1:986:G:H2'	1:A1:987:G:H8	1.72	0.55
29:B1:1412:G:H2'	29:B1:1413:G:C8	2.41	0.55
29:B1:1448:U:C2'	29:B1:1449:A:H5'	2.36	0.55
29:B1:1456:A:N6	29:B1:1477:A:H4'	2.22	0.55
29:B1:1797:A:C4	29:B1:1798:A:C8	2.94	0.55
29:B1:2240:G:H2'	29:B1:2241:U:O5'	2.07	0.55
29:B1:2379:U:C2	29:B1:2380:U:C5	2.94	0.55
29:B1:3045:G:C2'	29:B1:3046:A:O5'	2.54	0.55
29:B1:3105:U:C6	29:B1:3106:A:N7	2.75	0.55
29:B1:3151:U:OP2	29:B1:3151:U:H3'	2.06	0.55
29:B1:3321:C:OP2	29:B1:3321:C:H6	1.90	0.55
29:B1:532:A:C2	29:B1:533:A:C4	2.95	0.55
29:B1:565:U:C6	29:B1:565:U:OP2	2.60	0.55
29:B1:592:A:C4	29:B1:593:C:C6	2.95	0.55
29:B1:726:G:C2	29:B1:727:G:O6	2.58	0.55
29:B1:856:G:C6	29:B1:857:G:N1	2.74	0.55
31:B3:5:U:C4	31:B3:6:U:C4	2.95	0.55
1:C1:1042:G:C2	1:C1:1043:A:C4	2.94	0.55
1:C1:143:G:C3'	1:C1:144:U:H4'	2.36	0.55
1:C1:1636:C:N4	1:C1:1638:G:C2	2.74	0.55
1:C1:270:C:H3'	1:C1:271:A:C5'	2.36	0.55
1:C1:444:C:N4	1:C1:460:A:H62	1.96	0.55
1:C1:518:A:C2'	1:C1:519:C:H5''	2.30	0.55
1:C1:37:U:P	1:C1:531:C:HO2'	2.30	0.55
1:C1:624:G:H8	1:C1:624:G:OP1	1.89	0.55
29:D1:1206:G:H2'	29:D1:1206:G:N3	2.21	0.55
29:D1:1564:U:H2'	29:D1:1565:G:C8	2.42	0.55
29:D1:1940:G:H2'	29:D1:1941:C:C1'	2.36	0.55
29:D1:1943:C:C5'	29:D1:3344:A:H5'	2.37	0.55
29:D1:2298:U:O2	29:D1:2298:U:O4'	2.23	0.55
29:D1:2348:A:H5'	29:D1:2349:U:OP2	2.06	0.55
29:D1:2656:A:C8	29:D1:2658:G:C8	2.95	0.55
29:D1:2947:G:H2'	29:D1:2948:C:H5	1.72	0.55
29:D1:3056:U:C2	29:D1:3079:U:N3	2.75	0.55
29:D1:1455:U:C2	29:D1:3078:U:C5	2.95	0.55
29:D1:509:U:C2	29:D1:510:G:C8	2.94	0.55
29:D1:53:G:C4	29:D1:54:C:C5	2.94	0.55
29:D1:592:A:N1	29:D1:593:C:C6	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:758:C:C1'	29:D1:759:U:OP2	2.55	0.55
29:D1:917:A:C6	29:D1:918:C:C4	2.94	0.55
31:D3:18:U:N3	31:D3:19:C:C4	2.75	0.55
31:D3:25:G:C6	31:D3:26:U:N3	2.74	0.55
29:D1:515:C:H5'	37:DF:143:LYS:CB	2.36	0.55
1:C1:648:G:O2'	1:C1:649:U:O5'	2.24	0.55
1:C1:746:A:C6	1:C1:806:A:N1	2.75	0.55
29:B1:2700:G:H5''	29:B1:2701:U:OP2	2.07	0.55
31:B3:77:A:H62	53:BX:72:SER:CB	2.20	0.55
1:A1:147:A:H2'	1:A1:148:A:C1'	2.37	0.55
1:A1:162:A:C2	1:A1:163:G:C4	2.95	0.55
1:A1:62:A:H2	1:A1:63:G:N7	2.03	0.55
30:D2:62:U:C5'	30:D2:63:A:OP2	2.55	0.55
30:D2:71:G:C6	30:D2:108:A:N1	2.75	0.55
1:C1:250:C:C2'	1:C1:251:A:C5'	2.80	0.55
29:D1:2677:G:C2	29:D1:2679:A:C4	2.94	0.55
29:D1:2680:A:N1	42:DK:56:THR:N	2.55	0.55
1:A1:1720:G:O4'	1:A1:1720:G:P	2.65	0.55
1:C1:1559:A:O2'	1:C1:1560:U:H6	1.90	0.55
1:A1:1374:C:C4	1:A1:1375:A:C6	2.94	0.55
1:A1:1381:U:C2'	1:A1:1382:A:H5'	2.37	0.55
1:A1:1466:G:H2'	1:A1:1467:C:C6	2.41	0.55
29:B1:618:C:O2	29:B1:619:A:C8	2.59	0.55
29:B1:3170:A:C2'	29:B1:3171:U:O5'	2.55	0.55
29:B1:3200:G:C6	29:B1:3201:C:N4	2.75	0.55
29:D1:3234:A:H2	29:D1:3253:G:N2	2.03	0.55
29:D1:1393:A:N6	29:D1:1418:A:H5'	2.22	0.55
29:D1:208:C:C4	29:D1:209:A:N7	2.74	0.55
35:DD:165:ALA:O	35:DD:166:VAL:C	2.45	0.55
29:D1:3219:G:H4'	29:D1:3220:G:O5'	2.07	0.55
29:D1:3225:C:N4	29:D1:3261:C:H42	2.04	0.55
29:D1:3281:U:C2	29:D1:3282:U:C4	2.95	0.55
29:B1:1697:A:C3'	29:B1:1698:C:H5'	2.37	0.55
42:DK:46:VAL:O	42:DK:68:HIS:N	2.29	0.55
1:C1:1391:A:N7	1:C1:1412:G:C6	2.75	0.55
29:B1:3260:G:OP2	29:B1:3261:C:H5''	2.07	0.55
29:B1:3262:U:H2'	29:B1:3263:G:C8	2.41	0.55
29:B1:1468:A:HO2'	29:B1:1469:C:P	2.29	0.55
20:CS:23:VAL:O	20:CS:24:CYS:O	2.24	0.55
29:D1:1037:C:O2'	29:D1:1038:C:O4'	2.22	0.55
1:A1:1663:G:H2'	1:A1:1664:C:C6	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CE:73:GLY:C	6:CE:75:ALA:H	2.10	0.55
54:BY:134:ALA:O	54:BY:135:GLU:C	2.43	0.55
29:B1:2909:U:C5	29:B1:2910:A:C8	2.95	0.55
1:A1:789:A:C2	1:A1:790:U:H1'	2.41	0.55
29:B1:142:C:H2'	29:B1:143:G:H8	1.72	0.55
36:BE:241:THR:C	36:BE:243:ALA:H	2.10	0.55
29:B1:3180:A:H8	45:BP:114:LYS:HA	1.72	0.55
1:C1:790:U:C2	1:C1:791:A:C8	2.95	0.55
1:A1:1707:A:H2'	1:A1:1708:U:C2	2.40	0.55
1:C1:721:U:H1'	1:C1:722:G:O5'	2.06	0.55
29:B1:2900:A:C2	29:B1:2901:G:C4	2.95	0.55
11:AJ:54:LEU:C	11:AJ:56:GLY:N	2.58	0.55
34:BC:189:SER:O	34:BC:192:VAL:N	2.39	0.55
44:BO:160:GLU:O	44:BO:161:ALA:CB	2.54	0.55
34:BC:165:GLN:O	34:BC:166:ILE:O	2.23	0.55
29:D1:2555:G:H1'	29:D1:2556:C:P	2.46	0.55
38:DG:221:LYS:O	38:DG:222:HIS:CB	2.54	0.55
47:DR:43:PRO:C	47:DR:45:ASN:N	2.60	0.55
29:D1:664:U:O2'	29:D1:665:A:H5'	2.07	0.55
34:DC:76:VAL:HA	34:DC:325:LYS:HA	1.88	0.55
54:BY:83:PRO:CB	54:BY:84:GLU:HA	2.36	0.55
16:AO:112:ASP:O	16:AO:114:GLU:N	2.40	0.55
29:B1:2732:G:C5	29:B1:2733:A:N7	2.74	0.55
34:BC:85:VAL:CB	34:BC:202:THR:HA	2.36	0.55
5:AD:218:GLU:C	5:AD:220:VAL:H	2.10	0.55
35:DD:177:ASP:C	35:DD:179:LEU:N	2.59	0.55
37:BF:164:SER:HA	38:BG:182:ASP:CB	2.36	0.55
35:DD:273:GLY:O	35:DD:275:THR:N	2.39	0.55
43:DN:38:ILE:HA	43:DN:44:VAL:HA	1.88	0.55
1:A1:1056:U:H3'	1:A1:1057:U:C5	2.42	0.55
1:A1:1731:A:H5''	1:A1:1732:A:OP2	2.06	0.55
1:A1:539:G:C2	1:A1:543:C:N3	2.75	0.55
1:A1:594:A:H4'	1:A1:595:G:C5'	2.33	0.55
1:A1:620:A:OP2	1:A1:621:A:OP2	2.25	0.55
29:B1:953:G:C8	29:B1:1117:G:C8	2.94	0.55
29:B1:1564:U:H2'	29:B1:1565:G:C8	2.42	0.55
29:B1:1780:G:N3	29:B1:1781:C:C5	2.75	0.55
29:B1:1851:G:C4	29:B1:1852:G:C8	2.94	0.55
29:B1:196:G:C6	29:B1:199:A:OP2	2.60	0.55
29:B1:2363:A:C2	29:B1:2376:G:C6	2.95	0.55
29:B1:2419:A:C4	29:B1:2804:A:C8	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:286:U:C2	29:B1:287:G:C5	2.95	0.55
29:B1:3002:C:O2'	29:B1:3003:G:OP1	2.25	0.55
29:B1:3064:U:H2'	29:B1:3065:G:H8	1.70	0.55
29:B1:826:G:C5	29:B1:827:A:N7	2.74	0.55
29:B1:943:U:C1'	29:B1:944:C:OP1	2.54	0.55
33:BB:47:GLN:HA	33:BB:58:LEU:CB	2.37	0.55
37:BF:144:ALA:HB3	37:BF:146:ILE:CB	2.37	0.55
37:BF:145:LEU:O	37:BF:146:ILE:O	2.25	0.55
1:C1:993:A:C6	1:C1:1012:U:C2	2.95	0.55
1:C1:993:A:C4	1:C1:1012:U:O2	2.60	0.55
1:C1:1146:G:C6	1:C1:1147:A:C6	2.94	0.55
1:C1:192:U:H3'	1:C1:192:U:H6	1.72	0.55
1:C1:26:A:H8	1:C1:26:A:OP2	1.90	0.55
1:C1:313:U:C5	1:C1:1118:G:C4	2.95	0.55
1:C1:313:U:H5	1:C1:1118:G:C6	2.22	0.55
1:C1:444:C:H42	1:C1:460:A:N6	1.97	0.55
1:C1:55:A:H3'	1:C1:56:U:H5''	1.89	0.55
1:C1:620:A:OP2	1:C1:621:A:OP2	2.25	0.55
1:C1:71:A:C2	1:C1:72:A:N7	2.75	0.55
29:D1:1463:U:C4	29:D1:1464:G:N7	2.75	0.55
29:D1:1568:U:H2'	29:D1:1570:U:OP2	2.07	0.55
29:D1:1779:C:C4'	29:D1:1780:G:OP1	2.54	0.55
29:D1:1908:A:N7	29:D1:1909:A:N7	2.55	0.55
29:D1:1941:C:O2'	29:D1:3363:U:H1'	2.07	0.55
29:D1:2136:C:H3'	29:D1:2142:A:H61	1.72	0.55
29:D1:2279:A:H2	29:D1:2285:C:H41	1.54	0.55
29:D1:22:G:C5	29:D1:23:A:N7	2.74	0.55
29:D1:3034:C:H2'	29:D1:3035:A:H5'	1.89	0.55
29:D1:3064:U:C2	29:D1:3065:G:N7	2.74	0.55
29:D1:3394:U:HO2'	29:D1:3395:G:H8	1.51	0.55
29:D1:344:A:C2'	29:D1:345:G:O5'	2.55	0.55
74:D1:3408:OHX:N2	74:D1:3582:OHX:N1	2.55	0.55
29:D1:535:G:N1	29:D1:558:U:O2'	2.39	0.55
29:D1:557:A:O5'	29:D1:557:A:H8	1.89	0.55
29:D1:636:C:C6	29:D1:2378:C:O4'	2.59	0.55
29:D1:747:A:C6	29:D1:748:U:C5	2.94	0.55
29:D1:926:A:O2'	29:D1:927:C:H5'	2.05	0.55
29:D1:980:A:O2'	29:D1:981:U:H4'	2.05	0.55
31:D3:81:U:O5'	31:D3:81:U:H6	1.90	0.55
1:C1:742:U:H3'	1:C1:743:U:H3'	1.89	0.55
29:B1:2699:G:H2'	29:B1:2700:G:C8	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:992:A:C6	29:B1:993:G:N7	2.74	0.55
30:B2:67:G:N2	30:B2:68:C:O4'	2.40	0.55
31:B3:70:G:O5'	31:B3:71:A:OP2	2.24	0.55
30:D2:62:U:H2'	30:D2:62:U:O2	2.05	0.55
1:C1:331:A:H5''	1:C1:332:U:OP2	2.06	0.55
29:D1:378:A:H3'	29:D1:378:A:C4	2.36	0.55
1:A1:112:A:O2'	1:A1:113:U:H6	1.89	0.55
1:A1:245:U:N3	1:A1:247:A:OP2	2.40	0.55
1:A1:328:A:C2	1:A1:329:G:C4	2.95	0.55
1:A1:342:C:H2'	1:A1:342:C:O2	2.06	0.55
1:C1:1494:C:H2'	1:C1:1495:C:C6	2.42	0.55
1:C1:1603:U:H5''	1:C1:1604:U:OP2	2.06	0.55
1:A1:1235:C:H2'	1:A1:1236:A:O4'	2.05	0.55
1:A1:1251:U:C2'	1:A1:1252:C:O4'	2.55	0.55
1:A1:1539:G:O2'	1:A1:1540:G:H5''	2.06	0.55
30:B2:95:A:C2'	30:B2:96:U:O5'	2.55	0.55
29:B1:1230:G:H3'	29:B1:1231:A:H8	1.69	0.55
30:B2:26:C:H2'	30:B2:27:A:C8	2.41	0.55
29:B1:1696:A:C2	29:B1:1697:A:C5	2.95	0.55
31:B3:132:G:C2	31:B3:133:G:C5	2.95	0.55
30:D2:43:U:N3	30:D2:44:C:C6	2.75	0.55
21:AT:9:LEU:HA	21:AT:313:TRP:CA	2.23	0.55
9:CH:3:ASN:O	9:CH:4:VAL:CB	2.54	0.55
29:B1:71:A:H5''	29:B1:73:C:N3	2.22	0.55
1:A1:1283:U:H2'	1:A1:1283:U:O2	2.06	0.55
1:C1:1338:C:H1'	1:C1:1410:A:C4	2.42	0.55
29:D1:2594:C:H2'	29:D1:2595:A:O4'	2.06	0.55
29:B1:1639:C:C2'	29:B1:1640:G:O5'	2.54	0.55
29:D1:3273:A:C2	29:D1:3274:A:C4	2.95	0.55
1:C1:1749:A:H2'	1:C1:1750:A:O5'	2.07	0.55
1:A1:1334:U:N3	1:A1:1335:U:C5	2.75	0.55
20:CS:23:VAL:CB	74:CS:101:OHX:N2	2.70	0.55
1:A1:1656:U:OP2	1:A1:1656:U:H6	1.90	0.55
29:D1:1348:U:O2'	29:D1:1349:G:C8	2.60	0.55
29:B1:1021:G:C6	29:B1:1022:U:C4	2.95	0.55
29:D1:2882:U:C2'	29:D1:2883:U:O5'	2.55	0.55
43:DN:23:ILE:O	43:DN:32:LEU:CA	2.54	0.55
14:AM:125:SER:O	14:AM:126:GLU:C	2.45	0.55
3:CB:195:ASP:O	3:CB:196:VAL:O	2.24	0.55
13:AL:80:LYS:C	13:AL:82:PRO:N	2.57	0.55
2:AA:130:ALA:C	2:AA:132:ALA:N	2.57	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:733:A:C6	1:C1:734:A:C4	2.94	0.55
29:D1:255:A:H2'	29:D1:256:G:H8	1.72	0.55
29:D1:2209:U:N1	29:D1:2209:U:OP2	2.40	0.55
38:BG:160:ARG:O	38:BG:161:VAL:C	2.44	0.55
40:DI:21:LYS:O	40:DI:22:SER:O	2.24	0.55
43:DN:59:ASN:O	43:DN:60:LEU:CB	2.55	0.55
40:BI:47:LYS:O	40:BI:48:VAL:C	2.44	0.55
17:AP:58:GLY:O	17:AP:59:ILE:O	2.25	0.55
2:AA:109:ASN:O	2:AA:111:ILE:O	2.25	0.55
17:CP:114:LYS:CB	17:CP:115:GLY:HA2	2.37	0.55
3:AB:87:GLN:HA	3:AB:96:THR:HA	1.88	0.55
46:DQ:115:SER:H	46:DQ:150:VAL:HA	1.72	0.55
3:AB:138:PRO:O	3:AB:140:ARG:N	2.29	0.55
33:BB:144:ASN:HA	33:BB:159:SER:H	1.71	0.55
1:A1:1032:G:C6	1:A1:1104:U:C4	2.95	0.55
1:A1:1672:G:N1	1:A1:1673:G:C6	2.75	0.55
1:A1:395:U:N3	1:A1:396:G:C4	2.74	0.55
1:A1:44:U:OP2	1:A1:45:U:O4	2.25	0.55
1:A1:524:U:C3'	1:A1:524:U:O2	2.54	0.55
1:A1:623:A:C2	1:A1:1105:C:H4'	2.42	0.55
29:B1:106:A:O2'	29:B1:107:A:H5'	2.06	0.55
29:B1:1107:C:H2'	29:B1:1108:U:H6	1.72	0.55
29:B1:1174:G:C6	29:B1:1318:A:N3	2.75	0.55
29:B1:1447:G:O2'	29:B1:1448:U:OP2	2.25	0.55
29:B1:1546:A:N6	29:B1:1547:G:C2	2.75	0.55
29:B1:1678:G:H8	29:B1:1678:G:OP2	1.88	0.55
29:B1:2140:U:H2'	29:B1:2141:U:H5'	1.89	0.55
29:B1:2924:U:H2'	29:B1:2925:C:O4'	2.07	0.55
29:B1:2997:G:C1'	29:B1:2998:U:O5'	2.52	0.55
29:B1:3109:G:O2'	29:B1:3110:C:H5'	2.07	0.55
29:B1:3301:U:P	29:B1:3301:U:O4'	2.65	0.55
29:B1:396:A:C2	29:B1:399:A:C4	2.94	0.55
29:B1:428:A:C2'	29:B1:429:U:O5'	2.55	0.55
29:B1:523:A:H2'	29:B1:524:U:C5'	2.31	0.55
29:B1:6:A:C6	29:B1:7:C:C5	2.95	0.55
29:B1:759:U:O4	29:B1:773:G:N7	2.40	0.55
29:B1:780:A:N1	29:B1:781:G:C4	2.75	0.55
29:B1:90:C:O4'	29:B1:281:G:O2'	2.22	0.55
35:BD:168:ALA:C	35:BD:170:LYS:H	2.10	0.55
1:C1:1121:C:H1'	1:C1:1127:G:H22	1.72	0.55
1:C1:478:A:C2	1:C1:510:G:N2	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:595:G:H2'	1:C1:596:C:H6	1.67	0.55
1:C1:863:A:H2'	1:C1:865:A:C8	2.42	0.55
1:C1:985:G:H2'	1:C1:986:G:C8	2.41	0.55
6:CE:143:ILE:C	6:CE:145:SER:H	2.08	0.55
29:D1:980:A:N6	29:D1:1104:G:C8	2.63	0.55
29:D1:1178:G:N7	29:D1:1179:A:C5	2.74	0.55
29:D1:1212:A:N6	29:D1:1294:A:N1	2.54	0.55
29:D1:1500:G:H2'	29:D1:1501:U:C6	2.42	0.55
29:D1:1495:U:O2'	29:D1:1514:G:C4'	2.55	0.55
29:D1:1536:G:H2'	29:D1:1536:G:N3	2.20	0.55
29:D1:2222:A:O5'	29:D1:2222:A:H8	1.90	0.55
29:D1:2299:A:C6	29:D1:2300:G:N7	2.75	0.55
29:D1:2743:A:H5''	29:D1:2744:U:OP2	2.07	0.55
29:D1:2932:U:N1	29:D1:2935:U:H5	2.04	0.55
29:D1:3135:U:C6	29:D1:3136:G:C8	2.94	0.55
29:D1:3308:C:N4	29:D1:3309:G:C5	2.75	0.55
29:D1:363:G:H3'	29:D1:364:G:H5''	1.88	0.55
29:D1:514:G:C2'	29:D1:515:C:C6	2.89	0.55
29:D1:516:A:H2'	29:D1:516:A:N3	2.22	0.55
29:D1:565:U:H2'	29:D1:566:G:H5'	1.89	0.55
29:D1:945:C:C3'	29:D1:946:U:H6	2.20	0.55
29:D1:3329:U:O3'	34:DC:366:GLY:HA3	2.07	0.55
1:A1:687:G:C2	1:A1:688:G:C8	2.95	0.55
30:B2:12:U:P	30:B2:68:C:H4'	2.46	0.55
30:B2:70:U:O2'	30:B2:71:G:H5'	2.07	0.55
1:A1:162:A:C2'	1:A1:163:G:C8	2.89	0.55
1:A1:264:G:H3'	1:A1:265:A:C4'	2.36	0.55
30:D2:9:C:N4	30:D2:10:C:O2	2.39	0.55
1:C1:108:A:C3'	1:C1:109:G:H8	2.18	0.55
1:C1:1720:G:C2'	1:C1:1721:A:H8	2.19	0.55
1:C1:1720:G:N7	1:C1:1721:A:C5	2.75	0.55
29:D1:2682:C:N4	29:D1:2683:U:O4	2.39	0.55
29:B1:2677:G:N2	29:B1:2679:A:N3	2.54	0.55
1:A1:326:G:H2'	1:A1:327:U:C6	2.42	0.55
1:C1:1197:C:C2'	1:C1:1197:C:O2	2.54	0.55
1:C1:1516:A:H3'	1:C1:1517:U:H5'	1.87	0.55
1:A1:1158:C:H42	1:A1:1163:A:N6	2.02	0.55
1:A1:1206:U:H5'	1:A1:1207:C:OP2	2.07	0.55
29:D1:622:A:H2'	29:D1:623:U:C6	2.40	0.55
29:D1:374:A:C2	29:D1:375:A:C6	2.95	0.55
29:D1:3168:A:O2'	29:D1:3169:U:O4'	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:28:C:C4	30:B2:29:C:C2	2.95	0.55
31:B3:130:C:H2'	31:B3:131:A:H8	1.72	0.55
1:C1:1649:G:H2'	1:C1:1650:U:C5	2.38	0.55
29:D1:3005:A:C4	29:D1:3140:G:C2	2.95	0.55
1:A1:1750:A:C4	1:A1:1751:C:C6	2.95	0.55
1:A1:1754:A:O2'	1:A1:1755:A:OP2	2.20	0.55
29:D1:2514:U:HO2'	29:D1:2515:A:H8	1.55	0.55
29:D1:2596:U:H2'	29:D1:2597:U:H6	1.70	0.55
34:BC:330:GLY:O	34:BC:331:ASN:O	2.25	0.55
29:B1:1468:A:C2	29:B1:1469:C:N3	2.75	0.55
1:A1:1409:G:C8	1:A1:1411:A:OP2	2.59	0.55
29:D1:645:A:C5	29:D1:649:A:C5	2.94	0.55
29:B1:26:A:H2	29:B1:330:G:H21	1.54	0.55
29:B1:1953:G:C6	29:B1:2093:A:C8	2.94	0.55
29:D1:861:C:C2	29:D1:862:U:C6	2.95	0.55
1:A1:763:G:C6	1:A1:764:U:O4	2.60	0.55
29:D1:1747:G:C2'	29:D1:1748:G:H5'	2.37	0.55
29:D1:365:A:N1	29:D1:366:A:C4	2.75	0.55
29:D1:171:G:C2	29:D1:172:G:C8	2.95	0.55
29:D1:672:A:N6	29:D1:791:A:N6	2.54	0.55
2:AA:106:SER:C	2:AA:108:THR:N	2.58	0.55
1:C1:696:C:O4'	1:C1:696:C:OP2	2.25	0.55
29:D1:247:C:C2'	29:D1:248:U:H4'	2.37	0.55
45:BP:92:THR:O	45:BP:93:ALA:C	2.45	0.55
33:DB:102:LEU:C	33:DB:104:LEU:H	2.10	0.55
5:AD:215:ASP:O	5:AD:216:GLU:C	2.44	0.55
34:BC:121:ASN:O	34:BC:122:TRP:CB	2.55	0.55
38:DG:138:TYR:CB	38:DG:233:GLU:O	2.55	0.55
13:AL:112:ASP:C	13:AL:114:GLU:N	2.58	0.55
4:CC:21:LEU:O	4:CC:23:GLU:N	2.39	0.55
38:BG:202:LEU:C	38:BG:204:PRO:N	2.60	0.55
1:A1:1277:G:O6	1:A1:1278:G:C2	2.59	0.55
40:BI:117:PHE:O	40:BI:120:ASP:N	2.40	0.55
54:DY:118:ILE:O	54:DY:119:PRO:CB	2.55	0.55
1:A1:1006:C:C5	1:A1:1007:C:H5	2.25	0.55
1:A1:1056:U:H5''	1:A1:1057:U:H5	1.72	0.55
1:A1:1072:C:H3'	1:A1:1073:G:H5''	1.88	0.55
1:A1:1112:G:C5	1:A1:1113:A:N7	2.75	0.55
1:A1:295:A:C4'	1:A1:296:U:OP1	2.55	0.55
1:A1:556:A:O3'	1:A1:558:U:OP2	2.23	0.55
1:A1:940:A:C4	1:A1:941:A:C8	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1111:U:O2'	29:B1:1112:A:O5'	2.24	0.55
29:B1:1453:A:C8	29:B1:1850:A:C2	2.95	0.55
29:B1:1528:G:C4	29:B1:1529:A:C8	2.94	0.55
29:B1:154:U:C4'	29:B1:155:G:OP2	2.49	0.55
29:B1:2361:A:H2'	29:B1:2362:C:C6	2.41	0.55
29:B1:257:U:O2'	29:B1:258:G:O5'	2.16	0.55
29:B1:2779:A:C5'	29:B1:2779:A:C8	2.82	0.55
29:B1:49:A:N1	29:B1:279:U:H4'	2.22	0.55
29:B1:2868:U:C5	29:B1:2869:U:H5	2.24	0.55
29:B1:3000:A:C2'	29:B1:3001:C:C6	2.86	0.55
29:B1:3341:U:C3'	29:B1:3343:G:H22	2.20	0.55
29:B1:347:G:N2	29:B1:353:G:C8	2.75	0.55
29:B1:371:G:N7	29:B1:373:A:OP2	2.40	0.55
29:B1:405:U:C5	29:B1:406:G:C8	2.95	0.55
29:B1:562:C:C2'	29:B1:563:U:C5	2.70	0.55
29:B1:749:C:N3	29:B1:750:G:N7	2.55	0.55
29:B1:760:G:N3	29:B1:760:G:C2'	2.70	0.55
29:B1:896:A:H62	29:B1:2133:U:H3	1.54	0.55
31:B3:109:A:H2'	31:B3:110:C:H5'	1.88	0.55
35:BD:5:GLN:N	35:BD:21:PRO:HA	2.21	0.55
29:B1:402:A:N6	46:BQ:21:TYR:CB	2.70	0.55
1:C1:1046:G:C5	1:C1:1073:G:C2	2.94	0.55
1:C1:130:C:C2	1:C1:177:U:OP1	2.60	0.55
1:C1:1672:G:N1	1:C1:1673:G:C6	2.75	0.55
1:C1:196:G:O2'	1:C1:197:A:O5'	2.25	0.55
1:C1:18:C:H2'	1:C1:19:A:C8	2.41	0.55
1:C1:295:A:H4'	1:C1:296:U:OP1	2.06	0.55
1:C1:438:A:O2'	1:C1:439:U:H5''	2.06	0.55
1:C1:446:A:C2'	1:C1:447:U:H5'	2.37	0.55
1:C1:475:A:H8	1:C1:475:A:OP2	1.89	0.55
1:C1:93:A:N3	1:C1:399:A:C2	2.75	0.55
29:D1:107:A:O5'	29:D1:107:A:H8	1.90	0.55
29:D1:1105:A:C6	29:D1:1106:G:C5	2.95	0.55
29:D1:1202:A:H2'	29:D1:1203:A:OP2	2.07	0.55
29:D1:1377:G:C2	29:D1:1378:U:C6	2.95	0.55
29:D1:2361:A:C8	29:D1:2362:C:C5	2.94	0.55
29:D1:2640:A:C2'	29:D1:2641:U:H6	2.16	0.55
29:D1:2667:A:N7	29:D1:2690:G:N2	2.55	0.55
29:D1:2897:A:H2'	29:D1:2899:C:C5'	2.31	0.55
29:D1:2997:G:C1'	29:D1:2998:U:O5'	2.50	0.55
29:D1:3030:G:H2'	29:D1:3031:G:C8	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3095:U:H2'	29:D1:3096:C:O5'	2.06	0.55
29:D1:3308:C:C3'	29:D1:3308:C:C6	2.90	0.55
29:D1:3315:G:O4'	29:D1:3320:A:O5'	2.25	0.55
29:D1:3320:A:O2'	29:D1:3321:C:O4'	2.19	0.55
29:D1:517:G:OP2	29:D1:518:G:OP2	2.24	0.55
29:D1:706:A:C6	29:D1:714:G:C2	2.94	0.55
31:D3:106:C:C6	31:D3:138:A:N7	2.75	0.55
44:DO:83:LYS:CB	44:DO:84:PRO:CB	2.84	0.55
1:A1:729:G:C5	1:A1:730:G:H8	2.24	0.55
1:A1:732:G:H1'	1:A1:734:A:N6	2.21	0.55
29:B1:2797:C:C3'	29:B1:2798:C:C5'	2.83	0.55
30:B2:65:G:N2	30:B2:66:A:C4	2.74	0.55
30:B2:70:U:O2'	30:B2:71:G:C5'	2.55	0.55
31:B3:74:U:O4	31:B3:77:A:H5''	2.06	0.55
31:B3:80:A:N3	31:B3:81:U:N3	2.55	0.55
1:A1:195:G:C1'	1:A1:196:G:OP1	2.55	0.55
1:C1:1690:G:C2'	1:C1:1691:A:H5''	2.37	0.55
1:C1:320:U:OP2	1:C1:322:G:H5''	2.07	0.55
29:D1:2680:A:C8	42:DK:53:THR:O	2.59	0.55
1:C1:1348:A:P	15:CN:12:GLN:O	2.65	0.55
1:C1:1353:U:H3'	1:C1:1354:G:H8	1.72	0.55
1:C1:1377:U:H2'	1:C1:1378:U:C3'	2.37	0.55
1:C1:1543:A:C2	1:C1:1544:U:C1'	2.90	0.55
1:C1:1587:A:C6	1:C1:1588:G:N7	2.74	0.55
1:A1:1160:A:C2'	1:A1:1161:C:H6	2.12	0.55
1:A1:1348:A:C5'	15:AN:11:GLU:HA	2.37	0.55
1:A1:1498:G:C2	1:A1:1499:G:C8	2.95	0.55
29:B1:384:A:C5	29:B1:1465:A:C2	2.95	0.55
30:B2:33:U:O2'	30:B2:34:C:C2	2.59	0.55
29:D1:3238:G:C6	29:D1:3250:U:C4	2.95	0.55
29:D1:3237:U:O4	29:D1:3250:U:O4	2.25	0.55
29:D1:3218:A:C3'	29:D1:3220:G:OP2	2.55	0.55
29:D1:3228:C:N1	29:D1:3229:G:N7	2.54	0.55
30:B2:24:A:C2'	30:B2:25:G:H8	2.19	0.55
1:C1:887:A:N3	1:C1:888:U:C6	2.75	0.55
29:D1:1269:U:H3	29:D1:1271:A:H62	1.53	0.55
29:B1:334:A:C2'	29:B1:335:G:O5'	2.55	0.55
29:B1:342:A:N1	29:B1:349:A:H8	2.02	0.55
29:D1:1627:U:C5'	29:D1:1628:C:OP2	2.55	0.55
29:D1:2593:A:C4'	29:D1:2594:C:OP2	2.54	0.55
1:A1:1402:G:C5	1:A1:1403:C:C5	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1407:U:C6	1:A1:1408:G:H8	2.25	0.55
29:D1:1081:U:O2	29:D1:1081:U:H2'	2.06	0.55
29:B1:625:G:C2'	29:B1:626:U:O5'	2.55	0.55
30:D2:90:U:C4	30:D2:91:G:C4	2.95	0.55
36:DE:43:LYS:N	49:DT:69:LYS:CB	2.61	0.55
13:CL:101:LEU:O	13:CL:102:ALA:CB	2.55	0.55
1:A1:314:C:O2	1:A1:354:C:N3	2.40	0.55
5:CD:112:ARG:O	5:CD:115:LYS:N	2.40	0.55
29:B1:2908:G:C6	29:B1:2909:U:C4	2.95	0.55
19:CR:7:VAL:O	19:CR:8:THR:C	2.46	0.55
29:D1:2882:U:H2'	29:D1:2883:U:C5'	2.37	0.55
46:BQ:128:ARG:CA	46:BQ:138:LYS:HA	2.36	0.55
29:B1:2562:A:H2'	29:B1:2563:G:C8	2.40	0.55
1:A1:807:A:C2	1:A1:808:U:C2	2.94	0.55
29:B1:664:U:H2'	29:B1:665:A:C8	2.42	0.55
20:AS:40:ARG:CB	74:AS:101:OHX:N6	2.70	0.55
29:B1:1868:G:H8	29:B1:1868:G:O5'	1.90	0.55
44:DO:143:ARG:HA	44:DO:146:ALA:HB2	1.88	0.55
49:DT:115:LYS:C	49:DT:117:ALA:N	2.61	0.55
29:D1:1760:A:C6	29:D1:1766:G:C6	2.94	0.55
2:AA:88:LYS:O	2:AA:90:ALA:N	2.40	0.55
40:DI:85:GLY:HA3	40:DI:187:ILE:C	2.27	0.55
15:CN:45:ALA:C	15:CN:47:GLN:H	2.09	0.55
53:BX:64:LYS:O	53:BX:66:GLN:N	2.39	0.55
2:CA:52:LYS:C	2:CA:54:TRP:N	2.60	0.55
11:AJ:40:GLU:C	11:AJ:42:GLU:N	2.60	0.55
29:B1:670:C:O2'	29:B1:671:U:H5'	2.06	0.55
39:BH:100:GLU:O	39:BH:103:ALA:N	2.40	0.55
43:BN:18:GLY:O	43:BN:19:ARG:CB	2.53	0.55
29:D1:1711:C:H2'	29:D1:1712:G:O4'	2.07	0.55
10:CI:116:LEU:C	10:CI:118:GLU:H	2.11	0.55
29:D1:2496:C:H2'	29:D1:2497:U:C6	2.42	0.55
4:CC:192:PRO:O	4:CC:193:ALA:HB3	2.07	0.55
21:CT:212:ALA:HA	21:CT:222:LEU:HA	1.88	0.55
35:BD:134:LEU:O	35:BD:137:ALA:N	2.39	0.55
51:DV:7:SER:O	51:DV:9:SER:N	2.39	0.55
1:A1:1012:U:H6	1:A1:1012:U:O5'	1.89	0.55
1:A1:551:G:N1	1:A1:552:G:C5	2.75	0.55
1:A1:551:G:C2	1:A1:552:G:N7	2.75	0.55
1:A1:871:G:C6	1:A1:957:G:C6	2.95	0.55
1:A1:964:U:O4'	1:A1:965:U:C2	2.59	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1205:A:C4	29:B1:1206:G:C8	2.95	0.55
29:B1:1300:G:C6	29:B1:1301:A:N6	2.75	0.55
29:B1:1388:U:H2'	29:B1:1389:G:C8	2.42	0.55
29:B1:1446:A:OP1	29:B1:2984:C:H5''	2.07	0.55
29:B1:1879:A:HO2'	29:B1:1880:U:H4'	1.68	0.55
29:B1:2140:U:H2'	29:B1:2977:G:O2'	2.07	0.55
29:B1:224:C:C2'	29:B1:225:C:O5'	2.55	0.55
29:B1:2270:A:N1	29:B1:2271:A:C2	2.75	0.55
29:B1:2372:A:HO2'	29:B1:2373:A:P	2.29	0.55
29:B1:2658:G:H1	29:B1:2712:U:H3	1.54	0.55
29:B1:3005:A:C2	29:B1:3140:G:C2	2.95	0.55
29:B1:3079:U:H3'	29:B1:3080:G:C5'	2.37	0.55
29:B1:3105:U:C6	29:B1:3128:G:N2	2.75	0.55
29:B1:3149:G:C2	29:B1:3150:A:N9	2.75	0.55
29:B1:524:U:C2	29:B1:525:C:C6	2.95	0.55
29:B1:641:C:HO2'	29:B1:642:U:P	2.29	0.55
29:B1:85:A:C8	29:B1:87:U:N3	2.75	0.55
31:B3:104:A:H5'	31:B3:105:A:H5''	1.89	0.55
37:BF:20:LYS:CB	37:BF:113:LYS:H	2.20	0.55
54:BY:29:PRO:O	54:BY:31:GLY:N	2.40	0.55
1:C1:1006:C:C5	1:C1:1007:C:H5	2.24	0.55
1:C1:147:A:H3'	1:C1:148:A:C8	2.42	0.55
1:C1:264:G:C3'	1:C1:265:A:C5'	2.77	0.55
1:C1:377:G:O2'	1:C1:378:A:OP2	2.22	0.55
1:C1:527:A:H3'	1:C1:528:U:C5'	2.34	0.55
1:C1:533:U:C3'	1:C1:534:A:H8	2.17	0.55
1:C1:537:G:N2	1:C1:538:A:H1'	2.22	0.55
1:C1:755:A:H4'	1:C1:756:A:OP1	2.06	0.55
1:C1:873:U:N3	1:C1:874:C:C4	2.75	0.55
1:C1:989:U:H2'	1:C1:990:C:O4'	2.08	0.55
29:D1:1780:G:C2	29:D1:1781:C:C4	2.95	0.55
29:D1:1843:C:C2'	29:D1:1844:C:H5'	2.36	0.55
29:D1:1879:A:HO2'	29:D1:1880:U:H4'	1.69	0.55
29:D1:2252:A:C4	29:D1:2253:G:C8	2.94	0.55
29:D1:2896:A:C8	29:D1:2896:A:H5'	2.42	0.55
29:D1:2961:G:C5	29:D1:2962:U:C5	2.94	0.55
29:D1:3104:U:C2	29:D1:3129:A:N7	2.75	0.55
29:D1:3121:U:O4'	29:D1:3122:A:H5'	2.06	0.55
29:D1:381:U:H3	29:D1:387:A:H61	1.55	0.55
29:D1:506:U:O2'	29:D1:1166:G:H4'	2.06	0.55
29:D1:704:U:C6	29:D1:704:U:C3'	2.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:722:G:C2	29:D1:748:U:O2	2.60	0.55
29:D1:763:G:H21	29:D1:767:U:C2'	2.19	0.55
29:D1:797:U:H2'	29:D1:798:G:C8	2.42	0.55
29:D1:863:C:H2'	29:D1:864:G:H5'	1.89	0.55
29:D1:92:G:C6	29:D1:94:G:N2	2.75	0.55
1:A1:837:G:H2'	1:A1:838:G:H8	1.72	0.55
29:B1:2761:G:N2	29:B1:2795:U:C6	2.75	0.55
30:B2:72:A:O2'	30:B2:73:C:H5'	2.05	0.55
1:A1:210:A:C5	1:A1:211:U:C5	2.95	0.55
1:A1:57:G:C4	1:A1:91:G:N2	2.75	0.55
1:A1:60:U:C2'	1:A1:61:A:H5'	2.36	0.55
30:D2:11:A:O4'	30:D2:13:A:C2'	2.53	0.55
1:C1:327:U:C2	1:C1:328:A:C8	2.95	0.55
1:C1:795:U:C5	1:C1:796:A:C5	2.95	0.55
1:A1:749:U:C4	1:A1:750:U:O4	2.60	0.55
1:A1:1349:G:H4'	1:A1:1350:U:C5'	2.36	0.55
1:A1:1380:U:O2'	1:A1:1381:U:H5'	2.07	0.55
1:A1:1537:C:C5'	1:A1:1538:U:OP1	2.54	0.55
1:A1:1569:A:C4	1:A1:1570:A:C8	2.95	0.55
1:A1:1584:G:C4	11:AJ:124:PRO:HA	2.42	0.55
29:B1:3205:G:H22	43:BN:89:ALA:HB1	1.71	0.55
30:D2:25:G:C2	30:D2:26:C:N4	2.74	0.55
29:D1:1417:G:O5'	29:D1:1417:G:C8	2.59	0.55
29:D1:3381:U:C4	29:D1:3383:G:O6	2.60	0.55
30:B2:27:A:C2	30:B2:54:U:C5	2.95	0.55
30:B2:56:A:O3'	42:BK:149:GLY:CA	2.54	0.55
30:D2:30:G:C6	30:D2:49:G:N1	2.75	0.55
29:D1:1257:C:N3	29:D1:1258:U:C4	2.74	0.55
29:D1:1274:A:C2'	29:D1:1275:C:H5''	2.29	0.55
29:B1:349:A:H2	31:B3:24:G:C4	2.24	0.55
29:B1:340:C:C5	31:B3:25:G:N2	2.75	0.55
29:D1:2435:G:O2'	29:D1:2436:U:OP2	2.24	0.55
29:D1:3273:A:C6	29:D1:3274:A:C8	2.95	0.55
1:A1:180:A:C5	1:A1:181:A:C2	2.95	0.55
29:D1:127:G:H2'	29:D1:128:G:C8	2.42	0.55
1:A1:1416:G:H2'	1:A1:1417:A:O4'	2.07	0.55
36:DE:94:ASN:C	36:DE:96:ALA:H	2.10	0.55
29:B1:1731:A:C5	29:B1:1732:U:C5	2.95	0.55
29:D1:650:C:H5'	29:D1:2872:A:OP2	2.07	0.55
29:B1:1953:G:C5	29:B1:2093:A:C5	2.95	0.55
30:D2:85:G:O6	30:D2:95:A:N1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1325:A:C2	1:A1:1326:A:C5	2.95	0.55
29:B1:2120:A:O2'	29:B1:2121:G:P	2.63	0.55
5:AD:169:ASN:O	5:AD:172:ILE:N	2.36	0.55
13:AL:101:LEU:O	13:AL:102:ALA:CB	2.55	0.55
29:D1:1034:U:O4'	29:D1:1034:U:O2	2.25	0.55
43:BN:24:LYS:CB	43:BN:31:LYS:HA	2.37	0.55
10:CI:21:ASP:O	10:CI:23:GLU:N	2.39	0.55
54:DY:137:LYS:O	54:DY:140:ALA:CB	2.55	0.55
29:B1:733:G:C2'	29:B1:733:G:N3	2.70	0.55
29:D1:244:G:H3'	29:D1:245:U:H5'	1.87	0.55
29:B1:232:G:C4	29:B1:233:C:C6	2.94	0.55
29:B1:96:G:C8	29:B1:96:G:H5''	2.42	0.55
29:B1:96:G:H8	29:B1:96:G:H5''	1.72	0.55
29:D1:3166:C:OP2	29:D1:3166:C:H3'	2.07	0.55
1:A1:877:G:C2	1:A1:878:G:C8	2.94	0.55
72:DL:138:SER:C	72:DL:140:GLY:N	2.60	0.55
46:BQ:52:LEU:H	46:BQ:54:HIS:H	1.54	0.55
47:BR:57:ILE:C	47:BR:59:ARG:N	2.60	0.55
36:DE:196:ARG:O	36:DE:197:SER:C	2.45	0.55
36:DE:197:SER:O	36:DE:198:TYR:C	2.45	0.55
41:BJ:61:SER:HA	41:BJ:126:ALA:HB1	1.87	0.55
49:DT:56:PHE:C	49:DT:58:GLN:H	2.11	0.55
49:DT:35:LYS:C	49:DT:37:GLY:H	2.10	0.55
43:DN:97:SER:O	43:DN:100:ALA:N	2.39	0.55
41:DJ:35:ASP:O	41:DJ:36:LEU:C	2.45	0.55
8:CG:80:LEU:O	8:CG:81:ALA:HB2	2.07	0.55
32:BA:192:SER:HA	32:BA:197:ASN:O	2.06	0.55
40:BI:166:ARG:O	40:BI:167:VAL:CB	2.55	0.55
48:DS:5:ARG:O	48:DS:8:LYS:N	2.40	0.55
12:AK:27:ASP:O	12:AK:29:GLN:N	2.39	0.55
1:A1:1039:A:N7	1:A1:1091:A:C2	2.75	0.54
1:A1:1065:A:C2'	1:A1:1066:C:C6	2.90	0.54
1:A1:26:A:H3'	1:A1:26:A:OP1	2.07	0.54
1:A1:298:C:C5	1:A1:299:A:C8	2.95	0.54
1:A1:406:U:OP2	1:A1:406:U:H6	1.90	0.54
1:A1:472:U:H2'	1:A1:473:A:O4'	2.07	0.54
1:A1:623:A:OP2	1:A1:623:A:H3'	2.07	0.54
29:B1:1390:A:N7	29:B1:1418:A:N7	2.55	0.54
29:B1:2257:C:H5'	29:B1:2258:U:H5	1.72	0.54
29:B1:2370:G:N7	29:B1:2371:G:N7	2.55	0.54
29:B1:2716:U:C5'	29:B1:2717:U:OP2	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2749:G:N7	29:B1:2750:U:C5	2.75	0.54
29:B1:3074:G:C2'	29:B1:3075:G:H5'	2.38	0.54
29:B1:3121:U:C4'	29:B1:3122:A:H5'	2.37	0.54
29:B1:3310:A:C6	29:B1:3311:C:C6	2.95	0.54
29:B1:3317:U:H5	74:B1:3574:OHX:N3	2.03	0.54
29:B1:3368:U:H6	29:B1:3368:U:C5'	2.19	0.54
29:B1:41:G:N7	29:B1:42:C:C4	2.76	0.54
29:B1:885:U:C2	29:B1:886:C:C5	2.96	0.54
31:B3:37:A:H2	31:B3:106:C:H42	1.52	0.54
31:B3:2:A:N6	31:B3:3:A:N1	2.54	0.54
33:BB:172:GLY:C	33:BB:174:ARG:N	2.59	0.54
1:C1:991:G:N2	1:C1:1014:G:C6	2.74	0.54
1:C1:1138:A:C2	1:C1:1139:A:C8	2.95	0.54
1:C1:1631:A:C5	1:C1:1632:C:C2	2.96	0.54
1:C1:1770:U:N3	1:C1:1793:G:N2	2.55	0.54
1:C1:264:G:H3'	1:C1:265:A:C4'	2.36	0.54
1:C1:452:A:N1	1:C1:454:U:C6	2.75	0.54
1:C1:601:A:H3'	1:C1:602:U:H6	1.71	0.54
1:C1:768:C:HO2'	1:C1:769:A:H5'	1.71	0.54
1:C1:89:G:C4	1:C1:90:C:C5	2.95	0.54
1:C1:973:A:C2'	29:D1:847:A:H2	2.19	0.54
3:CB:203:LYS:C	3:CB:205:ARG:H	2.09	0.54
29:D1:1198:C:C2'	29:D1:1200:A:H8	2.20	0.54
29:D1:1291:A:C2'	29:D1:1292:C:O5'	2.55	0.54
29:D1:1332:A:C8	29:D1:1332:A:O5'	2.60	0.54
29:D1:1376:C:N3	29:D1:1377:G:N7	2.54	0.54
29:D1:1444:G:H2'	29:D1:1445:U:C5'	2.37	0.54
29:D1:1838:G:O4'	29:D1:1839:A:C8	2.60	0.54
29:D1:1878:G:H3'	29:D1:1879:A:C5'	2.37	0.54
29:D1:2221:G:N2	29:D1:2225:U:N3	2.55	0.54
29:D1:2253:G:H3'	29:D1:2254:U:H5	1.71	0.54
29:D1:25:U:H2'	29:D1:26:A:C8	2.42	0.54
29:D1:2607:G:N1	29:D1:2608:G:C5	2.74	0.54
29:D1:2950:G:H22	29:D1:2979:U:H2'	1.71	0.54
29:D1:3025:C:H2'	29:D1:3026:G:H5'	1.89	0.54
29:D1:3323:A:C2'	29:D1:3324:C:O5'	2.55	0.54
29:D1:3386:G:H3'	29:D1:3386:G:H8	1.72	0.54
29:D1:3377:G:H2'	74:D1:3452:OHX:N5	2.22	0.54
29:D1:578:A:HO2'	29:D1:579:G:P	2.28	0.54
29:D1:743:C:H6	29:D1:743:C:H3'	1.72	0.54
29:D1:519:A:H62	37:DF:30:LEU:HA	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DF:56:LYS:C	37:DF:58:LEU:N	2.59	0.54
37:DF:91:VAL:O	37:DF:92:SER:O	2.25	0.54
44:DO:49:ARG:HA	44:DO:53:TYR:H	1.73	0.54
1:A1:842:C:O2'	1:A1:843:U:H5'	2.07	0.54
1:C1:833:U:O2	1:C1:833:U:C2'	2.55	0.54
1:C1:691:C:O2'	1:C1:692:C:P	2.65	0.54
29:B1:2615:G:C6	29:B1:2616:C:N4	2.75	0.54
29:B1:2665:U:C2	29:B1:2706:G:C2	2.95	0.54
31:B3:70:G:H5'	31:B3:71:A:N7	2.22	0.54
31:B3:81:U:C3'	31:B3:82:U:C5'	2.84	0.54
34:BC:40:PRO:O	34:BC:41:VAL:C	2.46	0.54
1:C1:1515:A:H2'	1:C1:1516:A:H4'	1.89	0.54
1:A1:1164:G:H2'	1:A1:1165:G:C8	2.41	0.54
1:A1:1583:A:C2	1:A1:1585:U:C4	2.95	0.54
29:D1:1183:C:C2'	29:D1:1184:A:H5''	2.37	0.54
29:B1:1461:A:H2'	29:B1:1462:A:O4'	2.07	0.54
29:B1:1464:G:H22	29:B1:1466:G:H3'	1.69	0.54
29:D1:3200:G:H2'	29:D1:3201:C:C6	2.42	0.54
43:DN:86:ALA:HA	43:DN:90:VAL:CB	2.36	0.54
46:DQ:5:GLY:N	46:DQ:6:ALA:HA	2.18	0.54
29:B1:2588:U:C5'	29:B1:2589:G:OP2	2.53	0.54
30:B2:26:C:O2'	30:B2:27:A:O5'	2.25	0.54
30:B2:56:A:O2'	42:BK:136:ALA:HB2	2.07	0.54
1:C1:886:U:H3'	1:C1:887:A:H8	1.71	0.54
29:D1:2520:A:C2	29:D1:2521:U:C2	2.94	0.54
29:D1:1276:U:N3	29:D1:1277:C:C5	2.75	0.54
29:D1:1065:A:O3'	29:D1:1066:G:C8	2.61	0.54
29:B1:71:A:N7	29:B1:72:C:C5	2.75	0.54
29:B1:73:C:OP2	29:B1:73:C:H3'	2.07	0.54
20:AS:46:LYS:O	20:AS:48:ASN:N	2.40	0.54
29:B1:334:A:O2'	29:B1:335:G:O5'	2.22	0.54
15:AN:75:GLY:O	15:AN:76:SER:CB	2.54	0.54
1:C1:1418:G:N7	74:C1:1902:OHX:N4	2.55	0.54
29:B1:1061:A:C6	29:B1:1062:A:C6	2.95	0.54
34:DC:153:LYS:CB	34:DC:155:ALA:CB	2.83	0.54
1:A1:1390:U:H2'	1:A1:1391:A:OP2	2.06	0.54
1:A1:1398:U:C2'	1:A1:1399:C:O5'	2.55	0.54
36:DE:77:ALA:O	36:DE:78:ALA:HB2	2.07	0.54
29:B1:1713:G:C8	29:B1:1714:A:H2	2.25	0.54
1:C1:1094:G:O2'	1:C1:1095:U:C6	2.57	0.54
30:D2:94:C:O2'	30:D2:95:A:H5'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1011:A:H2'	29:B1:1011:A:N3	2.21	0.54
1:C1:1283:U:O2	1:C1:1283:U:H2'	2.07	0.54
29:D1:253:A:N6	29:D1:254:A:N6	2.55	0.54
46:BQ:128:ARG:HA	46:BQ:138:LYS:CA	2.37	0.54
29:B1:1180:A:N1	29:B1:1182:A:C5	2.75	0.54
29:B1:2576:G:C5	29:B1:2577:C:C5	2.95	0.54
1:C1:791:A:C4	1:C1:792:U:H5	2.25	0.54
46:BQ:98:ALA:O	46:BQ:101:ASN:N	2.40	0.54
35:BD:193:LYS:C	35:BD:195:ARG:H	2.10	0.54
29:D1:2544:U:H2'	29:D1:2545:C:H6	1.73	0.54
29:D1:172:G:N2	29:D1:173:G:C5	2.75	0.54
32:DA:157:PHE:CB	32:DA:166:ALA:H	2.20	0.54
19:AR:25:VAL:C	19:AR:38:ARG:HA	2.28	0.54
47:BR:36:LEU:O	47:BR:37:ALA:HB3	2.07	0.54
35:BD:97:GLY:O	35:BD:98:ARG:O	2.26	0.54
2:AA:50:VAL:O	2:AA:53:THR:N	2.40	0.54
40:DI:20:ILE:HA	40:DI:25:VAL:HA	1.88	0.54
45:DP:130:LYS:CA	45:DP:131:PRO:CB	2.85	0.54
50:DU:17:LEU:CB	50:DU:52:ALA:HB3	2.36	0.54
29:B1:1757:A:C6	29:B1:1769:G:C6	2.95	0.54
46:BQ:120:ASN:O	46:BQ:144:SER:O	2.26	0.54
29:B1:1135:A:C2'	29:B1:1136:A:H5'	2.37	0.54
1:A1:1640:C:O5'	1:A1:1640:C:H6	1.89	0.54
1:A1:1655:A:H2	29:B1:2291:A:N3	2.04	0.54
1:A1:47:A:C8	1:A1:425:A:C5	2.96	0.54
1:A1:539:G:HO2'	1:A1:542:A:H8	1.50	0.54
1:A1:15:U:C1'	1:A1:619:A:C2	2.90	0.54
1:A1:815:G:H4'	1:A1:816:G:OP2	2.08	0.54
1:A1:98:U:H2'	1:A1:99:C:C6	2.42	0.54
29:B1:109:A:N6	29:B1:323:A:H1'	2.22	0.54
29:B1:1193:A:H8	29:B1:1194:G:C2	2.23	0.54
29:B1:2157:G:N1	29:B1:2178:A:OP2	2.40	0.54
29:B1:2193:U:H5'	29:B1:2312:A:H2	1.68	0.54
29:B1:2357:A:H2'	29:B1:2358:A:C8	2.41	0.54
29:B1:2389:C:C2'	29:B1:2390:A:O5'	2.55	0.54
29:B1:308:A:H2	29:B1:2782:U:N3	2.02	0.54
29:B1:2407:C:H1'	29:B1:2818:U:C2	2.41	0.54
29:B1:3361:G:H2'	29:B1:3362:A:C5'	2.35	0.54
29:B1:549:U:O4	74:B1:3513:OHX:N5	2.40	0.54
29:B1:531:G:N2	29:B1:561:C:C2	2.49	0.54
29:B1:573:C:C2'	29:B1:574:U:H5'	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:581:U:C2'	29:B1:581:U:O2	2.55	0.54
29:B1:643:U:H3'	29:B1:643:U:C6	2.42	0.54
29:B1:65:A:C3'	29:B1:111:C:H41	2.18	0.54
29:B1:882:A:C2'	29:B1:883:A:H5''	2.37	0.54
1:C1:1025:A:N7	1:C1:1027:A:C4	2.75	0.54
1:C1:174:U:N3	1:C1:175:G:C5	2.76	0.54
1:C1:401:A:O2'	1:C1:402:C:O2'	2.24	0.54
1:C1:22:A:N6	1:C1:604:A:N6	2.54	0.54
1:C1:71:A:H4'	1:C1:72:A:OP2	2.06	0.54
1:C1:873:U:C4	1:C1:874:C:N4	2.75	0.54
1:C1:977:A:C6	1:C1:1025:A:N3	2.76	0.54
29:D1:1194:G:C8	29:D1:1319:G:C5'	2.90	0.54
29:D1:1500:G:H2'	29:D1:1501:U:H6	1.71	0.54
29:D1:1501:U:O2'	29:D1:1502:C:C5'	2.54	0.54
29:D1:1524:A:C1'	29:D1:1525:G:OP1	2.55	0.54
29:D1:1838:G:C4'	29:D1:1839:A:C8	2.90	0.54
29:D1:2167:A:C2'	29:D1:2168:A:C8	2.87	0.54
29:D1:2240:G:H2'	29:D1:2241:U:O5'	2.06	0.54
29:D1:2357:A:H2'	29:D1:2358:A:H8	1.73	0.54
29:D1:2619:G:P	29:D1:2619:G:H8	2.30	0.54
29:D1:2690:G:O2'	29:D1:2691:A:P	2.64	0.54
29:D1:3376:A:H3'	29:D1:3377:G:C5'	2.38	0.54
29:D1:3394:U:O2'	29:D1:3395:G:H8	1.90	0.54
29:D1:35:A:C5	29:D1:36:C:C5	2.95	0.54
29:D1:106:A:H5''	29:D1:684:G:O3'	2.05	0.54
29:D1:755:A:C2	29:D1:778:U:C2	2.95	0.54
29:D1:907:G:C5	29:D1:926:A:C8	2.96	0.54
31:D3:132:G:C2	31:D3:133:G:C5	2.95	0.54
31:D3:69:U:P	31:D3:70:G:OP2	2.65	0.54
31:D3:89:A:N3	31:D3:89:A:H3'	2.22	0.54
29:B1:2727:A:N1	29:B1:2728:G:O6	2.41	0.54
29:B1:992:A:N1	29:B1:993:G:C8	2.74	0.54
41:DJ:174:THR:C	41:DJ:176:LEU:CB	2.76	0.54
1:A1:287:G:C6	1:A1:288:A:C6	2.95	0.54
30:D2:69:C:C2	30:D2:110:G:C2	2.96	0.54
29:B1:2671:A:N6	29:B1:2672:G:O6	2.40	0.54
1:A1:331:A:H4'	1:A1:1676:U:H6	1.71	0.54
1:C1:1608:U:C2	1:C1:1609:U:C5	2.95	0.54
1:A1:1259:U:C2'	1:A1:1260:U:O5'	2.55	0.54
1:A1:1491:U:H3'	1:A1:1492:A:C2'	2.35	0.54
1:A1:1534:G:H4'	1:A1:1536:G:O6	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1599:C:O2	1:A1:1600:A:C2	2.60	0.54
29:B1:1196:C:O2	30:B2:86:U:N1	2.41	0.54
29:B1:3282:U:C2	29:B1:3283:U:C5	2.95	0.54
29:B1:3234:A:C2	29:B1:3235:C:C5	2.94	0.54
29:B1:3236:U:C4	29:B1:3237:U:O4	2.61	0.54
29:B1:1324:U:C4'	29:B1:1324:U:C6	2.90	0.54
29:B1:3025:C:O2'	29:B1:3026:G:H5'	2.08	0.54
29:D1:371:G:N7	29:D1:373:A:OP2	2.40	0.54
29:B1:1595:U:O2'	29:B1:1596:C:H5''	2.07	0.54
20:CS:46:LYS:O	20:CS:48:ASN:N	2.40	0.54
29:B1:1063:G:O2'	29:B1:1064:A:C5'	2.55	0.54
1:A1:888:U:H3'	1:A1:889:U:H6	1.72	0.54
29:D1:3005:A:C2	29:D1:3140:G:N3	2.75	0.54
1:A1:181:A:C6	1:A1:182:A:N1	2.75	0.54
29:D1:125:C:C2'	29:D1:126:U:H5'	2.37	0.54
1:A1:1310:U:C2'	1:A1:1311:U:O5'	2.55	0.54
1:A1:1336:A:H5''	1:A1:1337:A:OP2	2.07	0.54
29:D1:1083:G:H2'	29:D1:1084:A:O4'	2.08	0.54
29:D1:3069:G:N1	29:D1:3070:A:N7	2.54	0.54
1:C1:763:G:C6	1:C1:764:U:O4	2.60	0.54
29:B1:1912:U:N3	29:B1:1913:A:C2	2.76	0.54
29:D1:1029:G:O5'	29:D1:1029:G:H8	1.90	0.54
1:C1:236:A:C2	1:C1:237:C:N3	2.74	0.54
29:D1:2337:C:H2'	29:D1:2338:C:H6	1.72	0.54
13:CL:71:GLN:O	13:CL:74:GLN:N	2.36	0.54
1:A1:567:A:N6	1:A1:568:G:C4	2.75	0.54
34:DC:193:ASP:O	34:DC:195:ALA:N	2.39	0.54
29:B1:294:U:O2'	29:B1:295:A:H5''	2.06	0.54
17:CP:43:PHE:C	17:CP:45:GLY:H	2.10	0.54
29:B1:736:A:C8	29:B1:737:G:C8	2.95	0.54
42:DK:84:LEU:O	42:DK:85:LYS:O	2.25	0.54
29:D1:1049:C:C2	29:D1:1050:U:C5	2.94	0.54
1:A1:1318:G:O2'	1:A1:1319:A:H5'	2.06	0.54
45:BP:194:LEU:O	45:BP:195:ALA:C	2.46	0.54
11:CJ:40:GLU:C	11:CJ:42:GLU:H	2.11	0.54
8:CG:88:LEU:O	8:CG:90:TYR:N	2.40	0.54
47:DR:158:HIS:O	47:DR:159:LYS:CB	2.55	0.54
55:DZ:24:THR:O	55:DZ:25:LEU:O	2.25	0.54
38:DG:194:HIS:O	38:DG:195:PHE:C	2.45	0.54
18:AQ:87:GLY:O	18:AQ:88:ILE:CB	2.55	0.54
39:DH:108:ARG:O	39:DH:110:THR:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CT:135:THR:O	21:CT:137:LYS:N	2.40	0.54
17:AP:79:ASN:C	17:AP:81:LYS:H	2.09	0.54
1:A1:1002:G:C2	1:A1:1003:A:N1	2.75	0.54
1:A1:10:G:C2	1:A1:11:A:C4	2.95	0.54
1:A1:1110:G:O2'	1:A1:1111:G:C5'	2.56	0.54
1:A1:313:U:H5	1:A1:1118:G:N1	2.04	0.54
1:A1:118:U:O2	1:A1:299:A:C2	2.61	0.54
1:A1:407:A:C4'	1:A1:1672:G:H4'	2.38	0.54
1:A1:434:G:N2	1:A1:437:A:H2	2.05	0.54
1:A1:615:A:C6	1:A1:1107:G:C6	2.95	0.54
29:B1:1317:A:C5	29:B1:1319:G:C5	2.95	0.54
29:B1:1448:U:O4	29:B1:2355:G:C4	2.60	0.54
29:B1:1550:C:H2'	29:B1:1551:C:H5'	1.90	0.54
29:B1:1902:G:N3	29:B1:1903:U:H1'	2.22	0.54
29:B1:2269:U:C5	29:B1:2272:G:O6	2.60	0.54
29:B1:2829:U:C2'	29:B1:2830:G:H5'	2.36	0.54
29:B1:2838:A:N1	29:B1:2851:A:C8	2.75	0.54
29:B1:2872:A:H1'	29:B1:2873:U:H5'	1.90	0.54
29:B1:2997:G:N2	29:B1:2998:U:H4'	2.22	0.54
29:B1:3377:G:O5'	74:B1:3450:OHX:N6	2.40	0.54
29:B1:397:A:C6	29:B1:400:G:C6	2.95	0.54
29:B1:415:G:H2'	29:B1:416:A:C8	2.33	0.54
29:B1:503:C:O2'	29:B1:504:A:H5'	2.08	0.54
29:B1:549:U:O4	74:B1:3513:OHX:N2	2.40	0.54
29:B1:571:U:O2	29:B1:571:U:H2'	2.06	0.54
29:B1:681:U:O2'	29:B1:682:U:P	2.65	0.54
29:B1:712:G:H2'	29:B1:713:U:O4'	2.06	0.54
29:B1:943:U:O4'	29:B1:1432:C:C6	2.61	0.54
31:B3:106:C:O4'	31:B3:138:A:H8	1.89	0.54
29:B1:1523:U:H5'	52:BW:113:LEU:CB	2.37	0.54
1:C1:103:A:H4'	1:C1:104:A:O5'	2.08	0.54
1:C1:1644:C:OP2	1:C1:1644:C:C6	2.60	0.54
1:C1:23:G:H2'	1:C1:24:U:C6	2.42	0.54
1:C1:365:G:C5	1:C1:377:G:N1	2.75	0.54
1:C1:977:A:C2'	1:C1:978:A:H5'	2.35	0.54
29:D1:1224:C:O5'	29:D1:1224:C:C6	2.58	0.54
29:D1:1513:G:N1	29:D1:1515:A:H1'	2.22	0.54
29:D1:1604:G:C6	29:D1:1605:A:C5	2.95	0.54
29:D1:2773:C:O2'	29:D1:2774:C:H5'	2.06	0.54
29:D1:2876:C:C2'	29:D1:2877:G:H5'	2.37	0.54
29:D1:2980:U:H2'	29:D1:2981:U:H5'	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3102:G:HO2'	29:D1:3103:A:P	2.30	0.54
29:D1:3299:A:O5'	29:D1:3299:A:H2'	2.07	0.54
29:D1:3333:G:H22	29:D1:3370:A:C3'	2.20	0.54
29:D1:3333:G:N2	29:D1:3371:G:H8	2.02	0.54
29:D1:382:U:H3'	29:D1:383:G:H4'	1.89	0.54
29:D1:519:A:H62	37:DF:30:LEU:C	2.11	0.54
29:D1:779:G:C3'	29:D1:779:G:C8	2.90	0.54
29:D1:359:U:O2	29:D1:920:A:N6	2.40	0.54
54:DY:29:PRO:O	54:DY:30:GLY:C	2.45	0.54
1:A1:224:C:N4	1:A1:838:G:N1	2.55	0.54
30:B2:69:C:O2	30:B2:110:G:C2	2.60	0.54
1:A1:63:G:C5	1:A1:64:U:C6	2.95	0.54
30:D2:14:U:C2'	30:D2:15:C:O4'	2.56	0.54
30:D2:64:A:C1'	30:D2:65:G:C5'	2.84	0.54
1:C1:1431:C:H5'	1:C1:1432:U:H5'	1.90	0.54
1:C1:1535:U:O2'	1:C1:1536:G:N2	2.39	0.54
1:C1:1540:G:OP2	1:C1:1541:G:OP2	2.24	0.54
1:C1:1559:A:O2'	1:C1:1560:U:C6	2.60	0.54
1:C1:1600:A:H2'	1:C1:1602:C:H41	1.72	0.54
1:A1:1345:A:C8	1:A1:1346:A:N7	2.76	0.54
1:A1:1516:A:H8	15:AN:16:GLN:CB	2.20	0.54
29:B1:3283:U:C2'	29:B1:3284:G:O4'	2.54	0.54
29:B1:3184:A:H2'	29:B1:3187:A:O2'	2.07	0.54
30:B2:46:A:H3'	30:B2:46:A:C4	2.40	0.54
29:D1:3172:A:C1'	29:D1:3173:G:C8	2.83	0.54
30:B2:56:A:C8	30:B2:56:A:H5''	2.39	0.54
30:D2:46:A:H2'	30:D2:47:C:C6	2.42	0.54
40:BI:2:LYS:HA	40:BI:60:GLY:O	2.08	0.54
29:B1:342:A:C5	29:B1:349:A:N7	2.76	0.54
29:D1:2233:A:OP2	74:D1:3473:OHX:N1	2.41	0.54
29:D1:2235:C:C4	29:D1:2236:G:C6	2.95	0.54
1:A1:1421:A:H5''	4:AC:159:HIS:O	2.08	0.54
1:C1:901:G:H5'	1:C1:902:G:N7	2.22	0.54
29:D1:2119:A:C5	29:D1:2120:A:H2	2.26	0.54
29:B1:3350:C:H2'	29:B1:3351:U:H3	1.71	0.54
29:D1:1352:A:C8	29:D1:1353:U:O4'	2.61	0.54
29:B1:1337:A:C6	29:B1:1338:C:C5	2.95	0.54
9:CH:64:ALA:HA	9:CH:68:ALA:HB3	1.89	0.54
42:BK:27:GLY:HA2	42:BK:29:ARG:N	2.15	0.54
1:A1:1783:C:C2	1:A1:1784:C:C5	2.95	0.54
29:D1:1018:G:C4	29:D1:1019:G:N7	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:350:C:N3	29:D1:367:A:H2'	2.23	0.54
29:B1:1357:G:C2'	29:B1:1358:C:H6	2.20	0.54
1:A1:236:A:C2	1:A1:237:C:N3	2.76	0.54
1:C1:722:G:C4	1:C1:723:G:N7	2.76	0.54
45:DP:58:LEU:O	45:DP:59:ARG:CB	2.56	0.54
29:B1:3049:A:N3	34:BC:75:ALA:CB	2.69	0.54
29:D1:1723:A:C5'	29:D1:1724:U:OP2	2.55	0.54
29:D1:3049:A:N3	34:DC:75:ALA:CB	2.70	0.54
35:DD:118:LYS:C	35:DD:121:ALA:HB3	2.27	0.54
1:A1:765:G:H4'	1:A1:766:U:OP1	2.02	0.54
1:A1:906:A:OP2	9:AH:49:LYS:O	2.26	0.54
3:CB:106:ASP:C	3:CB:108:ASN:H	2.11	0.54
29:B1:994:G:C2'	29:B1:1053:A:H61	2.20	0.54
29:B1:994:G:HO2'	29:B1:1053:A:H61	1.55	0.54
53:DX:59:VAL:H	53:DX:104:LEU:HA	1.71	0.54
50:BU:39:VAL:O	50:BU:40:LYS:C	2.46	0.54
29:D1:2686:A:O5'	29:D1:2686:A:H8	1.90	0.54
29:D1:1360:C:O2	29:D1:1360:C:C2'	2.54	0.54
6:CE:42:ILE:O	6:CE:45:ILE:CB	2.54	0.54
45:DP:174:PHE:O	45:DP:175:THR:C	2.44	0.54
1:A1:1005:A:N7	1:A1:1006:C:C5	2.75	0.54
1:A1:1653:C:C4	1:A1:1654:G:C6	2.95	0.54
1:A1:1760:G:C5	1:A1:1761:U:C5	2.91	0.54
1:A1:1760:G:C6	1:A1:1761:U:C5	2.96	0.54
1:A1:39:A:C4	1:A1:467:G:N2	2.75	0.54
1:A1:40:A:H2'	1:A1:41:A:O4'	2.06	0.54
1:A1:477:A:C5	1:A1:539:G:O6	2.60	0.54
1:A1:47:A:O5'	1:A1:48:G:H5''	2.07	0.54
3:AB:89:GLN:HA	3:AB:94:GLN:HA	1.88	0.54
29:B1:1158:A:H3'	29:B1:1159:A:H5''	1.89	0.54
29:B1:1393:A:N3	29:B1:1393:A:H2'	2.22	0.54
29:B1:945:C:C1'	29:B1:1407:A:H1'	2.36	0.54
29:B1:1445:U:C4	29:B1:1446:A:C5	2.96	0.54
29:B1:1456:A:C2	29:B1:1476:G:N3	2.74	0.54
29:B1:1658:G:C6	29:B1:1659:U:C4	2.95	0.54
29:B1:1689:U:C2	29:B1:1690:C:C6	2.96	0.54
29:B1:1845:G:C2'	29:B1:1846:C:OP1	2.56	0.54
29:B1:1909:A:O2'	29:B1:1910:A:H5'	2.07	0.54
29:B1:197:G:H2'	29:B1:198:A:H8	1.72	0.54
29:B1:2275:A:H3'	29:B1:2276:G:O4'	2.06	0.54
29:B1:2290:C:C2	29:B1:2291:A:C8	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1448:U:C5	29:B1:2355:G:N3	2.75	0.54
29:B1:2422:C:C2'	29:B1:2423:U:O5'	2.54	0.54
29:B1:288:C:H2'	29:B1:289:A:H8	1.68	0.54
29:B1:2904:U:C2	29:B1:2904:U:H3'	2.41	0.54
29:B1:3074:G:H2'	29:B1:3075:G:H8	1.72	0.54
29:B1:3342:A:H2'	29:B1:3343:G:N3	2.22	0.54
29:B1:2255:A:N1	74:B1:3438:OHX:N2	2.56	0.54
29:B1:400:G:H5''	29:B1:403:C:H1'	1.90	0.54
29:B1:583:G:C6	29:B1:584:G:C5	2.94	0.54
29:B1:592:A:C2'	29:B1:593:C:C1'	2.80	0.54
29:B1:641:C:H5''	74:B1:3492:OHX:N1	2.22	0.54
29:B1:412:G:C4	31:B3:12:A:C2	2.95	0.54
1:C1:10:G:C6	1:C1:11:A:C5	2.95	0.54
1:C1:1138:A:N1	1:C1:1139:A:C5	2.75	0.54
1:C1:148:A:C8	1:C1:149:C:C5	2.95	0.54
1:C1:1760:G:C2	1:C1:1761:U:C5	2.95	0.54
1:C1:177:U:H3'	1:C1:178:U:C5'	2.34	0.54
1:C1:280:U:H5'	1:C1:281:G:OP2	2.08	0.54
1:C1:427:C:C6	1:C1:427:C:H5'	2.39	0.54
1:C1:445:A:N3	1:C1:446:A:C8	2.76	0.54
1:C1:521:A:H3'	1:C1:523:G:C8	2.42	0.54
1:C1:559:C:H2'	1:C1:560:U:C6	2.43	0.54
1:C1:607:G:N7	1:C1:613:G:C5	2.76	0.54
1:C1:61:A:C4'	1:C1:62:A:H3'	2.38	0.54
1:C1:814:A:C5	1:C1:816:G:C2	2.96	0.54
1:C1:863:A:H2'	1:C1:865:A:H8	1.72	0.54
1:C1:986:G:O2'	1:C1:987:G:H2'	2.07	0.54
1:C1:989:U:C4	1:C1:990:C:C4	2.95	0.54
29:D1:1139:G:C6	29:D1:1140:G:N7	2.76	0.54
29:D1:1224:C:OP1	29:D1:1224:C:O4'	2.26	0.54
29:D1:1697:A:H2'	29:D1:1698:C:C5'	2.28	0.54
29:D1:1783:U:H2'	29:D1:1784:G:C8	2.43	0.54
29:D1:2133:U:H2'	29:D1:2134:G:O4'	2.07	0.54
29:D1:2299:A:C5'	29:D1:2299:A:H8	2.20	0.54
29:D1:2376:G:O6	29:D1:2377:G:O6	2.25	0.54
29:D1:22:G:H2'	29:D1:23:A:H8	1.72	0.54
29:D1:2617:U:C5	29:D1:2620:G:OP1	2.61	0.54
29:D1:2639:G:C6	29:D1:2640:A:C5	2.96	0.54
29:D1:2797:C:C3'	29:D1:2798:C:H5'	2.30	0.54
29:D1:2140:U:O2'	29:D1:2978:U:H5'	2.07	0.54
29:D1:3330:A:C2'	29:D1:3331:U:O5'	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3373:U:N3	29:D1:3374:U:C5	2.75	0.54
29:D1:339:C:H2'	29:D1:340:C:C5'	2.37	0.54
29:D1:562:C:C2'	29:D1:563:U:H6	2.09	0.54
29:D1:569:A:C6	29:D1:570:A:N7	2.76	0.54
29:D1:726:G:H2'	29:D1:727:G:O4'	2.08	0.54
29:D1:880:G:H2'	29:D1:882:A:OP2	2.07	0.54
29:D1:954:U:OP1	29:D1:954:U:H4'	2.06	0.54
29:D1:9:U:C4	29:D1:10:C:H5	2.26	0.54
31:D3:138:A:H2'	31:D3:138:A:N3	2.21	0.54
31:D3:141:C:H2'	31:D3:142:C:C6	2.37	0.54
29:D1:349:A:C2	31:D3:24:G:C8	2.95	0.54
31:D3:81:U:C6	31:D3:82:U:H5''	2.43	0.54
1:C1:659:C:H4'	1:C1:660:G:O5'	2.08	0.54
29:B1:2622:C:H2'	29:B1:2623:G:O4'	2.07	0.54
29:B1:2762:A:H3'	29:B1:2763:U:H5	1.72	0.54
30:B2:104:A:C5	30:B2:105:C:C5	2.96	0.54
29:B1:2727:A:P	49:BT:81:GLY:O	2.66	0.54
1:A1:201:G:O2'	1:A1:202:A:H5'	2.07	0.54
1:A1:256:A:H5''	1:A1:257:A:OP2	2.07	0.54
1:C1:1682:U:C2	1:C1:1683:C:N4	2.76	0.54
1:A1:1722:A:H5'	1:A1:1723:U:H5	1.71	0.54
1:C1:1365:C:C4	1:C1:1366:U:C6	2.96	0.54
1:C1:1383:G:H2'	1:C1:1384:A:O5'	2.07	0.54
1:C1:1458:G:H3'	1:C1:1459:C:C5	2.42	0.54
1:C1:1569:A:N3	1:C1:1570:A:C8	2.75	0.54
1:A1:1456:C:C5'	1:A1:1457:C:H5''	2.36	0.54
1:A1:1497:U:O4	1:A1:1511:U:C2	2.60	0.54
1:A1:1571:C:H3'	1:A1:1572:G:C5'	2.38	0.54
29:B1:3168:A:O2'	29:B1:3169:U:O4'	2.24	0.54
29:B1:3170:A:N6	29:B1:3279:A:N6	2.56	0.54
6:AE:77:ILE:C	6:AE:79:ARG:H	2.11	0.54
43:BN:97:SER:C	43:BN:99:TRP:H	2.10	0.54
29:D1:3184:A:H5''	29:D1:3184:A:C8	2.33	0.54
29:D1:3235:C:N4	29:D1:3236:U:C4	2.76	0.54
29:D1:198:A:O4'	29:D1:218:G:C2	2.61	0.54
29:B1:1231:A:N6	29:B1:1276:U:H5	1.99	0.54
29:D1:3277:U:C6	29:D1:3277:U:C3'	2.90	0.54
29:D1:2520:A:H5''	29:D1:2521:U:OP1	2.07	0.54
4:AC:14:ASP:C	4:AC:16:VAL:N	2.61	0.54
29:B1:342:A:C4'	29:B1:344:A:N7	2.64	0.54
29:D1:3006:A:C8	29:D1:3007:U:C2	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DI:63:LYS:O	40:DI:64:HIS:C	2.43	0.54
36:BE:273:ARG:C	36:BE:275:THR:N	2.60	0.54
54:BY:68:PHE:O	54:BY:69:TRP:CB	2.55	0.54
29:B1:1008:U:C2	29:B1:1043:C:C2	2.94	0.54
29:B1:1036:A:H2'	29:B1:1037:C:C6	2.42	0.54
29:D1:2576:G:C6	29:D1:2577:C:C4	2.95	0.54
29:B1:2861:U:C2	29:B1:2862:U:C6	2.96	0.54
1:C1:774:A:C2	1:C1:775:G:N9	2.76	0.54
1:C1:1575:G:C2	1:C1:1576:A:C4	2.95	0.54
1:C1:1124:A:C2'	1:C1:1125:A:H5'	2.37	0.54
1:C1:1124:A:C6	1:C1:1125:A:N1	2.76	0.54
29:B1:1033:U:H2'	29:B1:1034:U:O2	2.07	0.54
1:A1:790:U:H2'	1:A1:790:U:O2	2.08	0.54
36:BE:125:VAL:O	36:BE:246:ALA:HB2	2.06	0.54
1:A1:239:C:H1'	1:A1:240:U:C5	2.42	0.54
29:D1:2861:U:C2	29:D1:2862:U:C6	2.96	0.54
1:A1:1359:C:H3'	1:A1:1360:A:C8	2.43	0.54
46:DQ:33:ALA:C	46:DQ:35:ALA:N	2.58	0.54
1:A1:374:U:N3	1:A1:375:U:C5	2.75	0.54
47:DR:66:ARG:C	47:DR:68:ALA:N	2.57	0.54
1:C1:737:A:H2'	1:C1:738:G:C8	2.42	0.54
44:BO:20:ARG:O	44:BO:22:LEU:N	2.40	0.54
32:BA:16:LEU:O	32:BA:18:LYS:N	4.71	0.54
6:CE:26:ALA:C	6:CE:28:LEU:N	2.61	0.54
1:A1:575:C:N4	1:A1:576:G:C6	2.76	0.54
34:DC:128:LYS:CB	34:DC:129:ALA:HA	2.38	0.54
74:D1:3465:OHX:N1	74:D1:3585:OHX:N2	2.55	0.54
29:B1:1207:G:H5'	29:B1:1207:G:H8	1.72	0.54
29:B1:1051:U:C5'	29:B1:1052:U:OP2	2.55	0.54
8:CG:137:PRO:O	8:CG:141:TYR:N	2.40	0.54
11:AJ:14:LYS:O	11:AJ:15:SER:CB	2.55	0.54
39:BH:178:ALA:O	39:BH:180:VAL:N	2.40	0.54
1:A1:47:A:N1	1:A1:100:A:C5	2.76	0.54
1:A1:1138:A:C2	1:A1:1139:A:C8	2.95	0.54
1:A1:295:A:H4'	1:A1:296:U:OP1	2.06	0.54
1:A1:379:U:N3	1:A1:380:U:H5	2.06	0.54
1:A1:551:G:N3	1:A1:552:G:C8	2.75	0.54
1:A1:571:G:N3	1:A1:571:G:H2'	2.21	0.54
1:A1:588:U:H2'	1:A1:589:C:C6	2.41	0.54
1:A1:545:A:C5	1:A1:594:A:N7	2.75	0.54
1:A1:636:A:N1	1:A1:860:U:O4	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:871:G:O6	1:A1:957:G:O6	2.26	0.54
1:A1:959:U:H4'	1:A1:960:U:OP2	2.05	0.54
29:B1:1291:A:H2'	29:B1:1292:C:O5'	2.06	0.54
29:B1:951:A:N3	29:B1:1369:A:C2	2.76	0.54
29:B1:1440:G:C4	29:B1:1441:G:C8	2.96	0.54
29:B1:1557:A:C4	29:B1:1558:A:H1'	2.43	0.54
29:B1:1852:G:H5''	29:B1:1853:U:OP2	2.08	0.54
29:B1:1943:C:H4'	29:B1:3344:A:H5'	1.89	0.54
29:B1:2261:G:N2	29:B1:2263:C:N3	2.56	0.54
29:B1:2295:A:H62	29:B1:2296:A:N6	2.05	0.54
29:B1:2370:G:C4	29:B1:2371:G:N7	2.75	0.54
29:B1:2656:A:C8	29:B1:2658:G:C8	2.96	0.54
29:B1:523:A:C4	29:B1:524:U:C6	2.95	0.54
29:B1:642:U:C5	29:B1:644:G:P	3.01	0.54
31:B3:12:A:C5	31:B3:13:A:C8	2.96	0.54
31:B3:17:A:C4	31:B3:18:U:C6	2.95	0.54
1:C1:10:G:H5'	1:C1:1633:A:C3'	2.34	0.54
1:C1:1149:G:N2	1:C1:1151:A:C6	2.76	0.54
1:C1:1761:U:C2'	1:C1:1762:A:OP2	2.56	0.54
1:C1:354:C:C2'	1:C1:355:G:H5'	2.38	0.54
1:C1:50:C:C4	1:C1:424:C:C6	2.96	0.54
1:C1:43:A:H4'	1:C1:99:C:OP1	2.08	0.54
1:C1:90:C:O2'	1:C1:451:A:H5'	2.08	0.54
1:C1:551:G:H2'	1:C1:551:G:N3	2.22	0.54
1:C1:555:A:OP2	1:C1:555:A:C3'	2.52	0.54
1:C1:57:G:C4	1:C1:91:G:N2	2.76	0.54
1:C1:757:A:C2	1:C1:758:U:C6	2.96	0.54
29:D1:1211:U:N3	29:D1:1295:G:C6	2.76	0.54
29:D1:1302:A:C4	29:D1:2887:A:C6	2.95	0.54
29:D1:1379:G:H5''	29:D1:1380:G:OP2	2.07	0.54
29:D1:1908:A:H2'	29:D1:1909:A:O4'	2.08	0.54
29:D1:2341:A:H2'	29:D1:2342:U:H6	1.72	0.54
29:D1:421:G:N2	29:D1:2365:C:C2	2.75	0.54
29:D1:2988:C:O2	29:D1:2988:C:H2'	2.06	0.54
29:D1:3086:A:C5	29:D1:3087:A:C5	2.95	0.54
29:D1:3133:C:H2'	29:D1:3134:A:O5'	2.08	0.54
29:D1:3099:C:N4	29:D1:3135:U:H3	2.06	0.54
29:D1:3153:U:H6	29:D1:3153:U:O5'	1.90	0.54
29:D1:323:A:N7	29:D1:324:A:N7	2.55	0.54
29:D1:325:A:C3'	29:D1:327:A:OP1	2.51	0.54
29:D1:360:G:C5	29:D1:361:A:N6	2.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:37:U:C2	29:D1:38:U:C5	2.96	0.54
29:D1:543:C:H3'	29:D1:544:C:H5'	1.90	0.54
29:D1:543:C:H2'	29:D1:544:C:H5'	1.89	0.54
29:D1:60:A:N7	29:D1:61:A:C8	2.75	0.54
29:D1:743:C:C5	29:D1:744:A:C8	2.96	0.54
29:D1:776:U:H3'	29:D1:777:U:H5''	1.88	0.54
29:D1:808:A:C5	29:D1:809:G:N7	2.76	0.54
29:D1:958:C:H4'	29:D1:2799:A:O2'	2.06	0.54
31:D3:61:A:H2'	31:D3:62:C:OP2	2.07	0.54
31:D3:65:A:O2'	31:D3:66:A:H5'	2.07	0.54
1:A1:700:C:H2'	1:A1:700:C:O2	2.08	0.54
1:C1:838:G:C6	1:C1:839:U:C4	2.96	0.54
1:A1:653:C:C2	1:A1:662:U:H1'	2.43	0.54
29:B1:992:A:C3'	29:B1:993:G:H5''	2.38	0.54
31:B3:70:G:H5'	31:B3:71:A:H8	1.69	0.54
1:C1:328:A:C6	1:C1:341:A:C6	2.96	0.54
1:C1:1199:G:N1	1:C1:1201:G:OP1	2.40	0.54
1:C1:1348:A:C8	1:C1:1348:A:O5'	2.47	0.54
1:C1:1260:U:OP1	1:C1:1444:A:N1	2.40	0.54
1:C1:1543:A:C2	1:C1:1544:U:H1'	2.43	0.54
1:A1:1250:U:C2	1:A1:1251:U:N3	2.76	0.54
1:A1:1355:C:O2'	1:A1:1356:U:H5'	2.07	0.54
1:A1:1383:G:C2'	1:A1:1384:A:O5'	2.56	0.54
1:A1:1566:U:H2'	1:A1:1567:U:C5'	2.38	0.54
1:A1:1591:C:O2'	1:A1:1592:A:O5'	2.25	0.54
1:A1:1613:U:N3	1:A1:1614:A:H8	2.02	0.54
29:B1:3172:A:C1'	29:B1:3173:G:N7	2.64	0.54
29:B1:3210:A:C2'	29:B1:3211:C:C6	2.90	0.54
29:B1:3277:U:H6	29:B1:3277:U:H3'	1.73	0.54
29:D1:3189:G:C2	29:D1:3190:C:C6	2.95	0.54
29:D1:3197:G:OP2	29:D1:3198:U:C5	2.61	0.54
29:D1:3238:G:O6	29:D1:3250:U:C4	2.60	0.54
29:D1:1412:G:H2'	29:D1:1413:G:H8	1.72	0.54
29:D1:206:G:C5	29:D1:207:U:C5	2.94	0.54
29:D1:3175:U:OP1	29:D1:3278:C:H1'	2.07	0.54
36:BE:94:ASN:C	36:BE:96:ALA:H	2.11	0.54
20:AS:47:ALA:O	20:AS:48:ASN:CB	2.55	0.54
29:B1:339:C:N4	29:B1:340:C:H41	2.06	0.54
29:B1:848:A:C2	29:B1:849:C:H1'	2.43	0.54
29:D1:1627:U:C5	29:D1:1628:C:C4	2.91	0.54
1:A1:1283:U:H5''	1:A1:1284:C:H2'	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2173:U:C2'	29:B1:2174:G:C8	2.86	0.54
29:B1:1062:A:O2'	29:B1:1063:G:P	2.65	0.54
29:D1:2430:A:O2'	29:D1:2431:C:H5'	2.07	0.54
29:D1:2595:A:C8	29:D1:2596:U:C5	2.95	0.54
29:D1:1946:A:H3'	29:D1:1947:G:H8	1.71	0.54
1:A1:1419:G:H2'	1:A1:1420:C:O5'	2.07	0.54
29:B1:1716:U:O2	29:B1:1716:U:C2'	2.54	0.54
1:A1:891:A:C6	1:A1:922:G:C6	2.95	0.54
29:B1:3351:U:OP2	29:B1:3351:U:C2	2.61	0.54
1:A1:1327:C:O3'	4:AC:158:ILE:CB	2.56	0.54
29:B1:2862:U:C2'	29:B1:2863:G:H5'	2.36	0.54
29:D1:1638:A:N1	29:D1:1736:G:H2'	2.23	0.54
13:AL:96:LYS:CB	13:AL:97:ASP:CA	2.84	0.54
29:D1:1747:G:C5	29:D1:1748:G:C8	2.96	0.54
45:DP:139:GLY:O	45:DP:142:SER:N	2.39	0.54
36:BE:197:SER:O	36:BE:198:TYR:C	2.45	0.54
29:B1:1724:U:HO2'	29:B1:1725:C:C4'	2.20	0.54
29:D1:2556:C:C4	29:D1:2557:A:C2	2.95	0.54
34:DC:106:TRP:C	34:DC:108:GLU:H	2.08	0.54
1:C1:1786:G:H2'	1:C1:1787:C:C5	2.43	0.54
40:BI:55:VAL:O	40:BI:56:ALA:HB3	2.07	0.54
46:BQ:44:ALA:O	46:BQ:45:GLN:C	2.43	0.54
37:DF:124:GLU:C	37:DF:126:GLN:N	2.61	0.54
38:DG:148:VAL:O	38:DG:152:GLY:HA3	2.07	0.54
36:BE:184:ASP:O	36:BE:185:PHE:CB	2.55	0.54
39:DH:168:ALA:C	39:DH:170:CYS:H	2.10	0.54
54:DY:42:ARG:O	54:DY:43:ILE:C	2.45	0.54
2:AA:67:ILE:O	2:AA:69:ASN:N	2.40	0.54
15:CN:101:LYS:O	15:CN:103:ILE:N	2.40	0.54
29:B1:1760:A:C6	29:B1:1766:G:C6	2.96	0.54
1:A1:1631:A:C5'	1:A1:1764:C:H1'	2.38	0.54
1:A1:361:C:N4	1:A1:384:G:C6	2.72	0.54
1:A1:478:A:N1	1:A1:479:C:C4	2.75	0.54
29:B1:1113:G:C6	29:B1:1114:U:N3	2.75	0.54
29:B1:1117:G:H2'	29:B1:1118:C:C6	2.43	0.54
29:B1:1209:G:N7	29:B1:1210:U:C4	2.75	0.54
29:B1:1798:A:C2	29:B1:1799:A:C5	2.96	0.54
29:B1:185:C:H2'	29:B1:186:U:H6	1.72	0.54
29:B1:2221:G:N2	29:B1:2225:U:C2	2.75	0.54
29:B1:2265:C:N4	29:B1:2266:U:C4	2.75	0.54
29:B1:2375:G:C5	29:B1:2378:C:C5	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2609:A:C4	29:B1:2610:G:N7	2.76	0.54
29:B1:2921:U:H3'	29:B1:2923:U:OP2	2.08	0.54
29:B1:2937:G:C2'	29:B1:2938:G:H5'	2.38	0.54
29:B1:29:C:C3'	29:B1:29:C:C6	2.90	0.54
29:B1:3037:U:O2'	29:B1:3038:U:C5'	2.53	0.54
29:B1:3144:G:N7	74:B1:3428:OHX:N2	2.55	0.54
29:B1:3334:U:O2	29:B1:3335:A:C4	2.61	0.54
29:B1:521:A:C8	29:B1:571:U:O4	2.61	0.54
29:B1:595:G:C2	29:B1:596:C:C5	2.95	0.54
29:B1:656:A:H3'	29:B1:657:A:H8	1.73	0.54
29:B1:813:G:N7	74:B1:3506:OHX:N5	2.55	0.54
29:B1:889:U:H2'	29:B1:890:C:O4'	2.07	0.54
1:C1:1105:C:H2'	1:C1:1106:U:C6	2.43	0.54
1:C1:1119:G:C4	1:C1:1120:U:C5	2.96	0.54
1:C1:1149:G:N2	1:C1:1150:G:N7	2.56	0.54
1:C1:1654:G:C6	1:C1:1745:G:C6	2.96	0.54
1:C1:1671:A:N9	1:C1:1731:A:N1	2.55	0.54
1:C1:169:A:N7	1:C1:171:A:C6	2.74	0.54
1:C1:1758:U:C4	1:C1:1759:C:N4	2.76	0.54
1:C1:1772:C:O2	1:C1:1772:C:H2'	2.07	0.54
1:C1:198:A:C2	1:C1:199:G:N3	2.76	0.54
1:C1:449:C:O2	1:C1:449:C:H2'	2.08	0.54
3:CB:203:LYS:C	3:CB:205:ARG:N	2.59	0.54
29:D1:952:A:H1'	29:D1:1114:U:H1'	1.90	0.54
29:D1:1159:A:O2'	29:D1:1160:C:OP2	2.19	0.54
29:D1:1440:G:N3	29:D1:1441:G:C8	2.75	0.54
29:D1:1697:A:C8	29:D1:1698:C:C5	2.96	0.54
29:D1:1844:C:N3	29:D1:1845:G:C8	2.76	0.54
29:D1:1875:G:C6	29:D1:1876:U:C5	2.96	0.54
29:D1:258:G:C8	29:D1:258:G:OP2	2.60	0.54
29:D1:282:G:P	29:D1:282:G:C3'	2.95	0.54
29:D1:2896:A:H8	29:D1:2896:A:H5'	1.73	0.54
29:D1:3010:U:O2'	29:D1:3011:A:C5'	2.55	0.54
29:D1:1455:U:OP1	29:D1:3078:U:N3	2.40	0.54
29:D1:311:C:O2	29:D1:2779:A:C2	2.60	0.54
29:D1:362:U:C2	29:D1:363:G:C8	2.96	0.54
29:D1:381:U:H1'	29:D1:388:G:N2	2.23	0.54
29:D1:62:A:C6	29:D1:63:A:C5	2.96	0.54
29:D1:722:G:O2'	29:D1:723:U:OP2	2.23	0.54
29:D1:76:G:OP2	29:D1:76:G:H8	1.90	0.54
29:D1:776:U:C3'	29:D1:777:U:H5''	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:77:A:C2	29:D1:78:U:C1'	2.91	0.54
29:D1:882:A:C2'	29:D1:883:A:H5''	2.36	0.54
29:D1:883:A:C5	29:D1:921:A:C6	2.95	0.54
29:D1:889:U:H2'	29:D1:890:C:O4'	2.07	0.54
1:A1:827:C:C2'	1:A1:828:U:C2	2.79	0.54
1:C1:218:A:N1	1:C1:843:U:O2'	2.41	0.54
1:C1:640:U:H3'	1:C1:641:G:C8	2.42	0.54
30:B2:13:A:N3	30:B2:13:A:O4'	2.35	0.54
1:A1:451:A:C2	1:A1:454:U:O4	2.60	0.54
30:D2:75:G:OP2	30:D2:76:A:H3'	2.07	0.54
30:D2:79:A:O2'	30:D2:80:G:H5'	2.08	0.54
29:B1:2682:C:N4	29:B1:2683:U:O4	2.40	0.54
1:C1:1172:G:C5	1:C1:1173:C:C4	2.96	0.54
1:C1:1232:U:O2	1:C1:1233:G:C8	2.60	0.54
1:C1:1348:A:C2	1:C1:1379:C:C6	2.95	0.54
1:C1:1374:C:C3'	1:C1:1375:A:C8	2.89	0.54
1:C1:1377:U:O2	1:C1:1378:U:C1'	2.56	0.54
1:C1:1489:U:C5	1:C1:1513:G:N1	2.72	0.54
1:C1:1550:A:H2'	1:C1:1551:U:H6	1.73	0.54
1:A1:1249:U:H2'	1:A1:1250:U:H5'	1.89	0.54
1:A1:1429:G:C5	1:A1:1430:U:C5	2.95	0.54
1:A1:1485:C:H42	1:A1:1592:A:H4'	1.73	0.54
29:B1:3197:G:OP2	29:B1:3198:U:C5	2.60	0.54
29:B1:2522:G:H1'	29:B1:2523:A:OP2	2.07	0.54
29:D1:186:U:C2'	29:D1:186:U:O2	2.55	0.54
4:AC:47:GLU:HA	4:AC:85:VAL:O	2.08	0.54
29:B1:337:G:C6	29:B1:339:C:N4	2.76	0.54
31:B3:29:U:C2	31:B3:30:C:H5	2.25	0.54
1:C1:1323:C:H2'	1:C1:1324:G:H1'	1.88	0.54
1:C1:1404:C:H2'	1:C1:1405:G:H8	1.71	0.54
29:B1:3262:U:P	29:B1:3262:U:H6	2.31	0.54
29:B1:987:U:H2'	29:B1:988:U:C5	2.42	0.54
29:B1:1731:A:C6	29:B1:1732:U:N3	2.76	0.54
1:C1:1576:A:H2'	1:C1:1577:A:O4'	2.08	0.54
29:D1:858:A:H4'	29:D1:858:A:OP2	2.07	0.54
5:CD:117:THR:HA	5:CD:191:ALA:HB1	1.90	0.54
29:D1:1001:G:H8	29:D1:1041:U:O3'	1.90	0.54
29:B1:1182:A:N3	29:B1:1182:A:H2'	2.22	0.54
54:DY:130:VAL:C	54:DY:132:LYS:H	2.09	0.54
29:D1:2968:G:C2'	29:D1:2969:A:O5'	2.56	0.54
3:CB:118:ALA:CB	3:CB:124:ALA:HB2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DR:150:VAL:CB	47:DR:151:ARG:CA	2.86	0.54
40:BI:116:ASN:C	40:BI:120:ASP:H	2.11	0.54
36:BE:227:LEU:HA	36:BE:229:ASP:N	2.22	0.54
46:BQ:104:ALA:O	46:BQ:106:GLY:N	2.40	0.54
29:D1:2439:A:N6	29:D1:2440:G:C6	2.75	0.54
13:CL:16:ARG:HA	13:CL:22:VAL:HA	1.89	0.54
55:BZ:83:LYS:O	55:BZ:84:LEU:CB	2.55	0.54
29:B1:3082:C:O2'	29:B1:3083:G:H5'	2.08	0.54
41:DJ:212:GLU:O	41:DJ:213:PHE:C	2.46	0.54
47:DR:99:THR:O	47:DR:119:GLY:HA3	2.08	0.54
1:A1:11:A:N1	1:A1:1143:A:N1	2.55	0.54
1:A1:1631:A:H5''	74:A1:1990:OHX:N6	2.22	0.54
1:A1:1632:C:C2	1:A1:1633:A:C8	2.96	0.54
1:A1:483:A:P	1:A1:483:A:H8	2.30	0.54
1:A1:22:A:N6	1:A1:604:A:N6	2.55	0.54
29:B1:107:A:N1	29:B1:108:A:C2	2.76	0.54
29:B1:1393:A:N7	29:B1:1418:A:N7	2.54	0.54
29:B1:943:U:N1	29:B1:1432:C:H5	2.05	0.54
29:B1:1501:U:O2'	29:B1:1502:C:C5'	2.55	0.54
29:B1:1791:C:N3	29:B1:1792:C:N4	2.55	0.54
29:B1:2247:G:C6	29:B1:2248:C:C4	2.95	0.54
29:B1:2193:U:C5'	29:B1:2312:A:N1	2.71	0.54
29:B1:2313:A:C4	29:B1:2315:G:N7	2.76	0.54
29:B1:2326:A:C2	29:B1:2327:U:C6	2.96	0.54
29:B1:258:G:N3	29:B1:259:C:C6	2.75	0.54
29:B1:2931:C:O2	29:B1:2935:U:C5	2.61	0.54
29:B1:3009:G:H2'	29:B1:3010:U:H5'	1.90	0.54
29:B1:305:U:O2	29:B1:305:U:C2'	2.55	0.54
29:B1:534:U:O2	29:B1:559:A:H2	1.90	0.54
29:B1:597:G:H2'	29:B1:598:A:O4'	2.07	0.54
29:B1:80:G:O2'	29:B1:81:C:H5'	2.07	0.54
29:B1:865:U:C5	29:B1:866:A:N7	2.76	0.54
29:B1:974:G:C6	29:B1:975:C:N4	2.75	0.54
29:B1:577:C:O2	37:BF:149:ILE:O	2.26	0.54
37:BF:56:LYS:C	37:BF:58:LEU:N	2.60	0.54
1:C1:1118:G:N1	1:C1:1119:G:C5	2.76	0.54
1:C1:1794:A:C6	1:C1:1796:C:N4	2.75	0.54
1:C1:388:G:C2	1:C1:389:G:C8	2.96	0.54
1:C1:604:A:N1	1:C1:605:A:C2	2.76	0.54
1:C1:61:A:H4'	1:C1:62:A:C3'	2.38	0.54
1:C1:863:A:C8	1:C1:865:A:C8	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:107:A:N1	29:D1:108:A:C2	2.75	0.54
29:D1:1196:C:O2	30:D2:86:U:C6	2.60	0.54
29:D1:1514:G:O6	29:D1:1841:A:C8	2.60	0.54
29:D1:1528:G:C5	29:D1:1529:A:N7	2.76	0.54
29:D1:2280:A:HO2'	29:D1:2281:A:H3'	1.73	0.54
29:D1:2285:C:H5	29:D1:2286:U:C4	2.25	0.54
29:D1:2286:U:C4	29:D1:2288:G:C1'	2.89	0.54
29:D1:2326:A:C2	29:D1:2327:U:C6	2.96	0.54
29:D1:2386:A:C8	29:D1:2387:A:C8	2.95	0.54
29:D1:2424:A:OP2	29:D1:2424:A:H8	1.91	0.54
29:D1:258:G:HO2'	29:D1:259:C:C5'	2.21	0.54
29:D1:2643:A:N6	29:D1:2645:G:H1'	2.22	0.54
29:D1:2908:G:H2'	29:D1:2909:U:O5'	2.08	0.54
29:D1:3322:A:O2'	29:D1:3323:A:H5'	2.08	0.54
29:D1:510:G:C2'	29:D1:511:G:O5'	2.56	0.54
29:D1:548:G:H8	29:D1:548:G:OP2	1.91	0.54
29:D1:584:G:C2	29:D1:585:A:C8	2.95	0.54
29:D1:726:G:C2	29:D1:727:G:O6	2.61	0.54
29:D1:760:G:N2	29:D1:761:A:C8	2.76	0.54
29:D1:825:U:H2'	29:D1:826:G:H5''	1.89	0.54
29:D1:829:U:H3	29:D1:895:A:H62	1.50	0.54
29:D1:907:G:OP1	29:D1:909:G:H1'	2.08	0.54
31:D3:131:A:C2	31:D3:132:G:C8	2.96	0.54
31:D3:67:U:C2'	31:D3:68:G:C8	2.90	0.54
37:DF:9:TRP:O	37:DF:10:TYR:CB	2.55	0.54
46:DQ:141:SER:O	46:DQ:143:PRO:N	2.41	0.54
1:C1:752:A:H2'	1:C1:753:A:C8	2.43	0.54
29:B1:2617:U:C5	29:B1:2620:G:OP1	2.61	0.54
29:B1:2634:U:O2	29:B1:2645:G:C6	2.60	0.54
29:B1:2649:A:C2	29:B1:2650:U:C6	2.96	0.54
29:B1:998:A:O2'	29:B1:999:G:H5'	2.07	0.54
30:B2:13:A:OP2	30:B2:13:A:C2	2.59	0.54
30:B2:68:C:O2'	30:B2:69:C:C4'	2.55	0.54
1:A1:173:A:H3'	1:A1:174:U:C5'	2.29	0.54
30:D2:7:G:O6	30:D2:114:U:O4	2.24	0.54
1:C1:321:C:H2'	1:C1:322:G:H8	1.72	0.54
29:D1:2674:A:H2'	29:D1:2674:A:N3	2.22	0.54
29:D1:2677:G:C2'	29:D1:2678:A:O5'	2.56	0.54
1:C1:1254:U:O2'	1:C1:1255:G:O5'	2.26	0.54
1:C1:1274:C:P	1:C1:1428:G:OP1	2.66	0.54
1:C1:1458:G:C2	1:C1:1459:C:N4	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1467:C:H5'	1:C1:1602:C:P	2.48	0.54
1:C1:1477:G:C2'	1:C1:1478:G:C5'	2.85	0.54
1:A1:1164:G:C2	1:A1:1165:G:C4	2.95	0.54
1:A1:1348:A:H5''	15:AN:11:GLU:CA	2.37	0.54
1:C1:1056:U:H3'	1:C1:1057:U:C5	2.42	0.54
46:DQ:11:PRO:O	46:DQ:12:ALA:CB	2.55	0.54
29:D1:200:C:H41	29:D1:217:U:H2'	1.73	0.54
29:B1:1247:U:H5'	29:B1:1248:C:H5	1.73	0.54
29:D1:3261:C:C5'	29:D1:3262:U:OP1	2.55	0.54
29:B1:1596:C:H2'	29:B1:1597:C:C5	2.42	0.54
1:A1:157:A:C2'	1:A1:158:U:H5'	2.38	0.54
1:A1:417:A:H4'	1:A1:418:G:O4'	2.08	0.54
29:D1:1269:U:C4	29:D1:1271:A:N7	2.75	0.54
34:DC:174:LYS:O	34:DC:175:LYS:CB	2.56	0.54
1:A1:1283:U:H5''	1:A1:1284:C:O5'	2.06	0.54
29:B1:1626:U:C3'	29:B1:1627:U:O4'	2.54	0.54
1:A1:1335:U:C2	1:A1:1336:A:N7	2.76	0.54
1:C1:1784:C:C2	1:C1:1785:U:C6	2.96	0.54
29:B1:25:U:C2	29:B1:26:A:C8	2.95	0.54
30:D2:95:A:C4	30:D2:96:U:C5	2.96	0.54
29:B1:1035:G:C5	29:B1:1036:A:N7	2.76	0.54
29:B1:1037:C:O2'	29:B1:1038:C:O4'	2.25	0.54
3:AB:215:PHE:C	3:AB:217:ALA:N	2.57	0.54
11:CJ:89:LEU:O	11:CJ:91:ALA:N	2.40	0.54
29:B1:1921:A:O2'	29:B1:1922:A:H5'	2.06	0.54
19:CR:7:VAL:HA	19:CR:28:VAL:C	2.28	0.54
29:D1:1651:U:C2'	29:D1:1652:G:H5'	2.37	0.54
42:BK:134:PRO:C	42:BK:151:SER:O	2.46	0.54
29:D1:668:G:H2'	29:D1:669:U:H6	1.72	0.54
38:DG:187:GLU:O	38:DG:188:ILE:C	2.45	0.54
72:DL:46:ILE:HA	72:DL:49:ALA:CB	2.38	0.54
34:DC:133:TYR:O	34:DC:135:ALA:N	2.41	0.54
52:BW:94:GLN:O	52:BW:97:LYS:N	2.40	0.54
29:B1:869:G:H2'	29:B1:870:G:C8	2.42	0.54
41:BJ:7:ARG:C	41:BJ:9:TYR:N	2.61	0.54
8:CG:81:ALA:O	8:CG:82:PRO:CB	2.56	0.54
35:BD:103:THR:O	35:BD:104:LYS:CB	2.56	0.54
16:CO:78:ARG:O	16:CO:79:PHE:CB	2.56	0.54
2:CA:42:PRO:O	2:CA:44:GLY:N	2.40	0.54
38:DG:203:TRP:O	38:DG:204:PRO:CB	2.56	0.54
48:DS:37:SER:C	48:DS:39:ASN:H	2.10	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BJ:99:ILE:O	41:BJ:120:GLY:HA2	2.08	0.54
29:B1:148:G:N3	29:B1:148:G:H2'	2.22	0.54
30:D2:51:A:H2'	30:D2:51:A:N3	2.22	0.54
29:B1:799:G:O6	74:B1:3496:OHX:N5	2.40	0.54
34:DC:208:VAL:O	34:DC:209:PHE:CB	2.56	0.54
1:A1:1035:G:N2	1:A1:1101:G:C4	2.76	0.54
1:A1:1046:G:C4	1:A1:1073:G:N2	2.75	0.54
1:A1:542:A:C2	1:A1:544:A:H3'	2.42	0.54
29:B1:1394:A:H2'	29:B1:1395:G:C5'	2.37	0.54
29:B1:1496:C:O2	29:B1:1521:G:N2	2.41	0.54
29:B1:1578:C:N3	29:B1:1579:C:O2	2.41	0.54
29:B1:1780:G:HO2'	29:B1:1781:C:H6	1.55	0.54
29:B1:1787:A:H3'	29:B1:1788:C:H5''	1.88	0.54
29:B1:1795:U:O2'	29:B1:1796:G:OP2	2.26	0.54
29:B1:1853:U:O2	29:B1:1853:U:H2'	2.07	0.54
29:B1:1480:G:O2'	29:B1:1871:U:O4	2.21	0.54
29:B1:2154:U:O2'	29:B1:2155:G:H5'	2.07	0.54
29:B1:2259:A:H3'	29:B1:2260:U:C5	2.42	0.54
29:B1:2260:U:H4'	29:B1:2261:G:OP2	2.06	0.54
29:B1:2853:A:N6	29:B1:2854:U:N3	2.56	0.54
29:B1:3012:A:C5	29:B1:3013:U:C5	2.96	0.54
29:B1:3325:G:C4	29:B1:3326:G:C8	2.96	0.54
29:B1:3386:G:O2'	29:B1:3387:U:O5'	2.26	0.54
29:B1:1502:C:OP1	74:B1:3413:OHX:N6	2.41	0.54
29:B1:762:U:H5	74:B1:3479:OHX:N5	2.06	0.54
29:B1:524:U:O4	29:B1:569:A:N1	2.41	0.54
29:B1:535:G:C8	29:B1:536:U:O4	2.61	0.54
29:B1:592:A:C8	29:B1:593:C:O4'	2.61	0.54
29:B1:949:C:O2'	29:B1:950:G:H5'	2.08	0.54
31:B3:142:C:O2	31:B3:142:C:C2'	2.56	0.54
1:C1:313:U:C4	1:C1:1118:G:C5	2.96	0.54
1:C1:26:A:C2	1:C1:600:U:N3	2.72	0.54
3:CB:165:VAL:CB	3:CB:166:THR:CB	2.86	0.54
7:CF:95:PRO:O	7:CF:97:TYR:N	2.41	0.54
29:D1:117:U:C5	29:D1:118:U:H5	2.26	0.54
29:D1:1194:G:O6	29:D1:1314:C:N3	2.40	0.54
29:D1:1199:C:H4'	29:D1:1200:A:OP2	2.08	0.54
29:D1:1292:C:O2'	29:D1:1293:U:H5'	2.08	0.54
29:D1:1658:G:C5	29:D1:1659:U:C5	2.96	0.54
29:D1:1660:C:O2'	29:D1:1661:G:C5'	2.49	0.54
29:D1:422:A:H3'	29:D1:2364:G:C5'	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2612:U:H2'	29:D1:2613:U:O2	2.08	0.54
29:D1:2639:G:H5''	29:D1:2640:A:OP2	2.08	0.54
29:D1:2762:A:C4	29:D1:2763:U:C5	2.95	0.54
29:D1:2904:U:C2	29:D1:2904:U:H3'	2.43	0.54
29:D1:3055:U:O2	29:D1:3085:G:C2	2.61	0.54
29:D1:31:C:O2'	29:D1:32:U:H5'	2.08	0.54
29:D1:3343:G:H2'	29:D1:3344:A:C8	2.42	0.54
29:D1:3390:G:C6	29:D1:3391:A:C6	2.96	0.54
29:D1:382:U:C5	29:D1:383:G:C8	2.96	0.54
29:D1:44:U:OP2	44:DO:83:LYS:CB	2.56	0.54
29:D1:532:A:C2	29:D1:560:G:C2	2.95	0.54
29:D1:576:C:O2'	29:D1:577:C:H5''	2.07	0.54
29:D1:637:C:C6	29:D1:638:C:C5	2.96	0.54
29:D1:819:U:H4'	29:D1:2138:A:N1	2.23	0.54
29:D1:933:A:H3'	29:D1:934:G:C5'	2.38	0.54
29:D1:958:C:OP1	29:D1:2799:A:H3'	2.08	0.54
29:D1:963:G:C8	29:D1:963:G:C4'	2.91	0.54
31:D3:19:C:C4	31:D3:20:U:C4	2.96	0.54
34:DC:132:LYS:C	34:DC:134:SER:H	2.11	0.54
1:C1:837:G:C2	1:C1:838:G:C4	2.95	0.54
1:C1:693:U:H3'	1:C1:694:U:H5'	1.90	0.54
29:B1:2704:A:C4	29:B1:2706:G:N7	2.76	0.54
30:B2:105:C:H2'	30:B2:106:U:C5'	2.37	0.54
31:B3:71:A:N6	31:B3:87:G:C5	2.76	0.54
1:A1:166:C:C3'	1:A1:167:U:H5''	2.38	0.54
1:A1:129:U:C5	74:A1:1915:OHX:N3	2.76	0.54
30:D2:113:C:H2'	30:D2:114:U:H6	1.73	0.54
30:D2:67:G:N3	30:D2:67:G:H2'	2.23	0.54
1:C1:248:U:O2'	1:C1:249:U:H5'	2.07	0.54
29:B1:2673:A:C2	29:B1:2674:A:N6	2.76	0.54
1:C1:1158:C:H42	1:C1:1163:A:N6	2.05	0.54
1:C1:1255:G:O3'	1:C1:1257:U:OP1	2.26	0.54
1:C1:1431:C:H3'	1:C1:1432:U:C5'	2.37	0.54
1:C1:1491:U:H3'	1:C1:1492:A:C2'	2.34	0.54
1:C1:1565:C:H2'	1:C1:1565:C:O2	2.08	0.54
1:C1:1611:A:H2'	1:C1:1612:U:O4'	2.08	0.54
1:A1:1564:U:H2'	1:A1:1565:C:H6	1.67	0.54
30:B2:85:G:N7	74:B2:204:OHX:N4	2.56	0.54
29:B1:385:A:N3	29:B1:386:A:C8	2.76	0.54
29:B1:3203:U:H2'	29:B1:3204:C:N1	2.23	0.54
29:B1:3238:G:C6	29:B1:3250:U:C4	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:35:C:H2'	30:B2:36:C:O4'	2.08	0.54
29:B1:1272:C:H2'	29:B1:1273:A:O4'	2.07	0.54
29:D1:3263:G:N2	29:D1:3264:G:C4	2.76	0.54
36:BE:111:GLN:N	36:BE:114:GLY:C	2.52	0.54
29:D1:1244:A:C6	29:D1:1248:C:N3	2.76	0.54
29:B1:2594:C:H2'	29:B1:2595:A:O4'	2.08	0.54
4:CC:98:ALA:O	4:CC:100:ALA:N	2.40	0.54
29:D1:1063:G:C5'	29:D1:1098:A:P	2.93	0.54
29:D1:986:U:H2'	29:D1:987:U:O5'	2.07	0.54
4:AC:11:LEU:O	4:AC:14:ASP:N	2.40	0.54
1:A1:1333:C:H2'	1:A1:1334:U:H6	1.70	0.54
1:C1:127:G:O6	1:C1:179:A:C5	2.57	0.54
1:C1:898:A:N6	1:C1:914:G:N2	2.55	0.54
29:D1:2403:G:C4'	29:D1:2404:A:OP1	2.55	0.54
29:D1:1036:A:H2'	29:D1:1037:C:C6	2.42	0.54
1:A1:1734:U:C4	1:A1:1735:U:O4	2.61	0.54
29:B1:2883:U:O5'	29:B1:2883:U:H6	1.90	0.54
29:D1:2582:C:H3'	29:D1:2583:C:H6	1.73	0.54
29:D1:1715:A:N7	29:D1:1716:U:C6	2.76	0.54
29:D1:1728:G:N2	29:D1:1730:G:H21	2.04	0.54
1:C1:772:G:C5	1:C1:773:C:C4	2.96	0.54
29:D1:250:U:C2'	29:D1:250:U:O2	2.55	0.54
1:A1:720:G:H8	1:A1:720:G:P	2.31	0.54
1:C1:1662:G:C2	1:C1:1663:G:C5	2.96	0.54
5:CD:195:ALA:O	5:CD:196:GLU:C	2.45	0.54
29:D1:1753:G:C2	29:D1:1754:G:C8	2.95	0.54
29:D1:355:A:C2	29:D1:365:A:C5	2.96	0.54
73:DM:190:VAL:O	73:DM:191:TYR:CB	2.55	0.54
29:B1:2577:C:O2'	29:B1:2578:U:H5'	2.08	0.54
1:C1:788:A:H5''	1:C1:789:A:O5'	2.08	0.54
34:DC:298:PHE:HA	34:DC:299:ASP:CB	2.37	0.54
29:D1:2468:A:H4'	29:D1:2469:G:O5'	2.07	0.54
3:AB:131:ILE:C	3:AB:133:LYS:N	2.61	0.54
3:AB:132:ALA:O	3:AB:133:LYS:O	2.25	0.54
3:CB:118:ALA:HB2	3:CB:124:ALA:H	1.73	0.54
29:D1:1358:C:C2'	29:D1:1358:C:O2	2.56	0.54
34:BC:261:MET:C	34:BC:263:SER:H	2.11	0.54
29:D1:666:A:C6	29:D1:667:C:C5	2.96	0.54
17:CP:61:SER:CB	17:CP:66:SER:HA	2.38	0.54
29:D1:1334:U:H5'	38:DG:207:LEU:O	2.07	0.54
1:A1:1623:C:N3	1:A1:1624:C:C5	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BD:123:ALA:O	35:BD:124:SER:C	2.45	0.54
48:BS:97:ARG:O	48:BS:98:ARG:C	2.44	0.54
2:CA:79:ARG:O	2:CA:83:GLN:N	2.40	0.54
29:B1:1326:A:C6	29:B1:1327:C:C4	2.96	0.54
11:AJ:40:GLU:O	11:AJ:42:GLU:N	2.39	0.54
2:AA:48:ILE:O	2:AA:50:VAL:N	2.40	0.54
42:DK:91:LEU:O	42:DK:92:ARG:C	2.46	0.54
1:A1:1225:U:H2'	1:A1:1226:A:O4'	2.08	0.54
52:DW:61:LYS:CB	52:DW:62:VAL:HA	2.38	0.54
54:DY:97:GLU:O	54:DY:98:THR:CB	2.55	0.54
13:CL:35:ILE:O	13:CL:36:LYS:C	2.46	0.54
21:CT:92:TRP:HA	21:CT:100:TYR:H	1.72	0.54
1:A1:1790:A:C3'	1:A1:1791:A:H5''	2.38	0.54
1:A1:446:A:C2'	1:A1:447:U:H5'	2.37	0.54
1:A1:32:U:N3	1:A1:468:A:N6	2.55	0.54
1:A1:47:A:H4'	1:A1:48:G:H5'	1.89	0.54
1:A1:521:A:C4'	1:A1:522:U:OP1	2.54	0.54
1:A1:617:U:O4'	1:A1:1031:U:C2	2.61	0.54
1:A1:820:U:H2'	1:A1:821:U:O5'	2.08	0.54
1:A1:863:A:H2'	1:A1:865:A:H8	1.72	0.54
29:B1:1130:A:C8	29:B1:1132:C:C5	2.96	0.54
29:B1:1139:G:C4	29:B1:1140:G:C8	2.96	0.54
29:B1:1175:C:C2'	29:B1:1176:C:O5'	2.56	0.54
29:B1:1217:A:C2	29:B1:1289:G:C5	2.96	0.54
29:B1:1378:U:C2'	29:B1:1378:U:O2	2.56	0.54
29:B1:1414:G:N2	29:B1:1415:U:H1'	2.22	0.54
29:B1:1377:G:N2	29:B1:1430:U:O2	2.32	0.54
29:B1:2194:G:C1'	29:B1:2274:U:O2	2.54	0.54
29:B1:2815:G:H5''	29:B1:2816:G:OP1	2.08	0.54
29:B1:2837:A:C8	29:B1:2845:A:N1	2.75	0.54
29:B1:2904:U:H2'	29:B1:2904:U:O2	2.08	0.54
29:B1:3047:U:N3	29:B1:3048:A:C2	2.76	0.54
29:B1:284:A:N3	29:B1:306:A:H1'	2.19	0.54
29:B1:3069:G:C2	29:B1:3070:A:C5	2.96	0.54
29:B1:329:U:O2	29:B1:329:U:O4'	2.24	0.54
29:B1:3333:G:H22	29:B1:3370:A:H4'	1.69	0.54
29:B1:762:U:O2	29:B1:770:G:N2	2.41	0.54
29:B1:359:U:H1'	29:B1:817:A:N1	2.23	0.54
33:BB:183:GLY:N	33:BB:185:ALA:H	2.04	0.54
37:BF:146:ILE:O	37:BF:150:LYS:CB	2.56	0.54
37:BF:162:SER:O	37:BF:165:LEU:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1728:A:H2'	1:C1:1729:C:C6	2.35	0.54
1:C1:1781:A:N1	1:C1:1782:A:C2	2.76	0.54
1:C1:480:G:H2'	1:C1:481:A:O4'	2.08	0.54
1:C1:83:G:O2'	1:C1:84:A:H5'	2.07	0.54
29:D1:9:U:N3	29:D1:10:C:C6	2.76	0.54
29:D1:1129:A:C2'	29:D1:1130:A:C5'	2.86	0.54
29:D1:1302:A:N3	29:D1:2887:A:N3	2.56	0.54
29:D1:1459:C:H2'	29:D1:1460:A:H5'	1.89	0.54
29:D1:1560:G:H22	29:D1:1579:C:H1'	1.72	0.54
29:D1:1799:A:H2	29:D1:1800:A:C2	2.26	0.54
29:D1:2414:G:C2	29:D1:2415:C:C2	2.96	0.54
29:D1:2749:G:C5	29:D1:2750:U:C4	2.95	0.54
29:D1:2797:C:C3'	29:D1:2798:C:C5'	2.86	0.54
29:D1:2847:A:C2	29:D1:2848:G:C1'	2.90	0.54
29:D1:2900:A:N1	29:D1:2901:G:C5	2.76	0.54
29:D1:29:C:H6	29:D1:29:C:O5'	1.91	0.54
29:D1:3149:G:C2	29:D1:3150:A:N9	2.76	0.54
29:D1:3153:U:H5''	29:D1:3293:U:H6	1.72	0.54
29:D1:3294:A:H2'	29:D1:3295:A:H5'	1.90	0.54
29:D1:3310:A:C6	29:D1:3311:C:C5	2.96	0.54
29:D1:3321:C:H6	29:D1:3321:C:OP2	1.91	0.54
29:D1:3331:U:C6	29:D1:3331:U:H5''	2.42	0.54
29:D1:510:G:C2	29:D1:511:G:H1'	2.43	0.54
29:D1:580:C:N4	29:D1:581:U:O4	2.41	0.54
29:D1:718:G:H1'	29:D1:719:U:OP2	2.07	0.54
29:D1:888:A:C5	29:D1:889:U:C4	2.96	0.54
29:D1:933:A:H3'	29:D1:934:G:H5'	1.89	0.54
31:D3:61:A:C2'	31:D3:62:C:OP2	2.56	0.54
31:D3:72:A:HO2'	31:D3:73:U:P	2.30	0.54
29:D1:992:A:O2'	49:DT:59:GLY:HA3	2.08	0.54
31:B3:48:A:N1	31:B3:51:G:C5	2.76	0.54
29:D1:998:A:H2'	29:D1:999:G:C5'	2.38	0.54
29:D1:998:A:H4'	30:D2:103:A:C2	2.43	0.54
30:D2:13:A:N3	30:D2:13:A:C2'	2.62	0.54
1:C1:340:U:O3'	1:C1:341:A:O4'	2.25	0.54
1:A1:1723:U:H2'	1:A1:1724:U:O4'	2.08	0.54
1:A1:250:C:O2'	1:A1:251:A:H5'	2.08	0.54
1:A1:336:G:H4'	7:AF:132:SER:HA	1.88	0.54
1:A1:1478:G:C2'	1:A1:1479:A:O4'	2.55	0.54
1:A1:1505:A:N7	1:A1:1506:G:H1'	2.22	0.54
1:A1:1534:G:C4'	1:A1:1536:G:O6	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1554:U:C5	1:A1:1555:A:C8	2.96	0.54
10:AI:81:ARG:HA	10:AI:117:GLY:H	1.73	0.54
29:D1:3209:A:C6	29:D1:3210:A:N6	2.76	0.54
29:D1:3210:A:H2'	29:D1:3211:C:C6	2.43	0.54
29:B1:3281:U:O2	29:B1:3282:U:C2	2.60	0.54
43:BN:97:SER:C	43:BN:99:TRP:N	2.60	0.54
30:D2:25:G:C4	30:D2:26:C:N4	2.76	0.54
31:D3:16:G:O6	74:D3:212:OHX:N6	2.41	0.54
30:B2:25:G:C2	30:B2:26:C:N4	2.75	0.54
31:B3:119:C:O2'	31:B3:120:C:H5'	2.08	0.54
1:C1:945:U:O2'	1:C1:946:U:H5'	2.07	0.54
29:B1:2515:A:H2'	29:B1:2516:U:C6	2.43	0.54
29:D1:3348:G:C6	29:D1:3349:C:O2	2.61	0.54
29:B1:340:C:N4	31:B3:25:G:N1	2.56	0.54
29:D1:1628:C:HO2'	29:D1:1630:U:H5'	1.71	0.54
39:DH:187:GLY:HA3	39:DH:194:THR:C	2.28	0.54
1:A1:1650:U:H2'	1:A1:1651:A:C8	2.43	0.54
29:D1:2594:C:C6	29:D1:2594:C:OP2	2.56	0.54
29:D1:1945:A:H2'	29:D1:1946:A:C8	2.43	0.54
1:A1:1314:U:O2'	1:A1:1315:U:OP2	2.25	0.54
30:D2:2:G:N3	30:D2:3:U:C6	2.76	0.54
29:D1:1864:A:H3'	29:D1:1865:A:H8	1.71	0.54
29:D1:2581:U:OP2	29:D1:2581:U:C6	2.61	0.54
34:DC:294:GLY:CA	34:DC:295:ALA:C	2.75	0.54
15:CN:71:PRO:O	15:CN:72:ASN:CB	2.56	0.54
29:D1:3180:A:C2	45:DP:166:GLU:CB	2.90	0.54
43:DN:11:ASN:CB	43:DN:64:VAL:CB	2.86	0.54
20:AS:41:GLN:CB	74:AS:101:OHX:N4	2.71	0.54
38:DG:223:PHE:C	38:DG:224:ILE:O	2.43	0.54
29:D1:790:U:O5'	29:D1:790:U:H6	1.91	0.54
14:AM:28:LEU:C	14:AM:30:VAL:N	2.61	0.54
1:A1:500:C:H2'	1:A1:501:U:H6	1.73	0.54
1:C1:575:C:H5'	1:C1:576:G:OP2	2.08	0.54
16:CO:96:ALA:O	16:CO:98:GLN:N	2.40	0.54
29:B1:2217:U:O2'	29:B1:2218:G:H5'	2.07	0.54
42:DK:121:GLY:C	42:DK:123:PHE:N	2.61	0.54
47:BR:103:ALA:O	47:BR:104:LEU:C	2.46	0.54
36:DE:194:LEU:C	36:DE:196:ARG:N	2.60	0.54
51:DV:5:ILE:O	51:DV:6:ASP:CB	2.56	0.54
12:AK:64:GLY:HA2	12:AK:65:PRO:CB	2.38	0.54
37:DF:124:GLU:O	37:DF:126:GLN:N	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1277:G:O2'	1:A1:1278:G:H5'	2.08	0.54
2:CA:162:CYS:O	2:CA:163:ASN:CB	2.56	0.54
45:DP:38:ALA:O	45:DP:39:GLU:C	2.45	0.54
53:DX:69:LYS:O	53:DX:83:ASP:N	2.37	0.54
29:B1:2496:C:H2'	29:B1:2497:U:C6	2.43	0.54
10:CI:92:SER:O	10:CI:106:GLU:HA	2.07	0.54
39:BH:231:LYS:CB	39:BH:233:TRP:H	2.21	0.54
49:BT:56:PHE:C	49:BT:58:GLN:H	2.11	0.54
29:B1:104:G:C6	29:B1:105:C:C5	2.95	0.54
21:AT:212:ALA:HA	21:AT:222:LEU:HA	1.88	0.54
47:DR:75:GLY:O	47:DR:76:ALA:HB2	2.08	0.54
52:BW:50:ALA:O	52:BW:51:VAL:CB	2.54	0.54
1:A1:1000:C:C6	1:A1:1002:G:OP2	2.61	0.54
1:A1:26:A:C2	1:A1:600:U:O2	2.61	0.54
1:A1:432:G:H2'	1:A1:433:C:O4'	2.07	0.54
1:A1:487:G:HO2'	1:A1:488:G:H8	1.54	0.54
1:A1:528:U:H3	1:A1:530:C:N4	2.05	0.54
3:AB:206:THR:O	3:AB:209:ASN:N	2.41	0.54
29:B1:1175:C:O2'	29:B1:1176:C:O5'	2.17	0.54
29:B1:1795:U:O4'	29:B1:1796:G:N3	2.40	0.54
29:B1:2304:C:O2'	29:B1:2305:G:C5'	2.48	0.54
29:B1:2326:A:C6	29:B1:2327:U:C4	2.96	0.54
29:B1:2328:U:C2	29:B1:2329:C:C6	2.95	0.54
29:B1:2814:G:N2	29:B1:2815:G:C4	2.75	0.54
29:B1:2833:A:C6	29:B1:2834:G:C8	2.95	0.54
29:B1:2836:C:O2	29:B1:2836:C:H3'	2.08	0.54
29:B1:2917:G:C2	29:B1:2918:G:C8	2.96	0.54
29:B1:2399:A:N1	29:B1:2981:U:C4	2.76	0.54
29:B1:302:U:O2'	29:B1:303:G:H5'	2.07	0.54
29:B1:3045:G:H3'	29:B1:3045:G:C8	2.43	0.54
29:B1:3045:G:H2'	29:B1:3046:A:O4'	2.08	0.54
29:B1:3073:A:C6	29:B1:3074:G:C5	2.96	0.54
29:B1:3126:C:C2	29:B1:3127:A:C8	2.96	0.54
29:B1:3294:A:N1	29:B1:3295:A:C4	2.76	0.54
29:B1:31:C:O2'	29:B1:32:U:H5'	2.07	0.54
29:B1:3377:G:C4	74:B1:3450:OHX:N1	2.76	0.54
29:B1:370:U:C5	29:B1:371:G:C5	2.96	0.54
29:B1:509:U:H2'	29:B1:510:G:O5'	2.08	0.54
29:B1:515:C:C2'	29:B1:516:A:H5''	2.37	0.54
29:B1:589:A:H5''	29:B1:611:A:H2	1.73	0.54
29:B1:62:A:H2'	29:B1:63:A:H8	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:709:A:N6	29:B1:710:A:N1	2.56	0.54
29:B1:888:A:C6	29:B1:889:U:C4	2.96	0.54
29:B1:943:U:O2'	29:B1:944:C:H5''	2.07	0.54
54:BY:5:PHE:O	54:BY:8:THR:N	2.31	0.54
1:C1:1045:C:C2'	1:C1:1046:G:OP1	2.56	0.54
1:C1:142:G:C5	1:C1:266:A:C5	2.95	0.54
1:C1:1626:U:O2'	1:C1:1627:U:H5'	2.07	0.54
1:C1:541:A:C8	1:C1:541:A:OP2	2.61	0.54
29:D1:1144:U:HO2'	29:D1:1145:G:P	2.31	0.54
29:D1:1212:A:C2	29:D1:1294:A:C2	2.96	0.54
29:D1:1288:U:C2'	29:D1:1289:G:C5'	2.85	0.54
29:D1:1328:C:H2'	29:D1:1329:U:C6	2.43	0.54
29:D1:1851:G:C5	29:D1:1852:G:N7	2.76	0.54
29:D1:2631:U:C2	29:D1:2632:G:C8	2.96	0.54
29:D1:2896:A:C2'	29:D1:2897:A:C5'	2.85	0.54
29:D1:2984:C:C2	29:D1:2985:C:C5	2.96	0.54
29:D1:3091:A:C4	29:D1:3094:A:C8	2.96	0.54
29:D1:3135:U:C4	29:D1:3136:G:C4	2.95	0.54
29:D1:3303:G:C2'	29:D1:3304:U:H5'	2.38	0.54
29:D1:407:A:C2'	29:D1:408:A:H5'	2.37	0.54
29:D1:547:G:H8	29:D1:548:G:C5	2.25	0.54
29:D1:571:U:C2'	29:D1:572:A:H5'	2.37	0.54
29:D1:818:C:H2'	29:D1:819:U:H5'	1.90	0.54
29:D1:888:A:C6	29:D1:889:U:C2	2.96	0.54
29:D1:977:C:O2'	29:D1:978:G:OP2	2.25	0.54
31:D3:108:C:H2'	31:D3:109:A:O5'	2.07	0.54
31:D3:69:U:H2'	31:D3:70:G:O2'	2.08	0.54
31:D3:70:G:H5'	31:D3:71:A:H8	1.64	0.54
1:A1:824:G:H5''	1:A1:825:U:C5'	2.38	0.54
1:A1:847:A:C2'	1:A1:848:C:C5'	2.82	0.54
29:B1:997:A:N3	30:B2:102:A:H2	2.06	0.54
35:BD:66:GLY:O	35:BD:67:THR:C	2.45	0.54
1:A1:149:C:C2	1:A1:150:U:C5	2.96	0.54
30:D2:69:C:C2	30:D2:70:U:C5	2.96	0.54
1:C1:1689:A:H5'	1:C1:1690:G:OP2	2.07	0.54
1:C1:321:C:C2'	1:C1:322:G:H8	2.21	0.54
1:C1:333:A:C2	1:C1:334:G:C4	2.95	0.54
1:A1:243:G:OP1	1:A1:243:G:H4'	2.08	0.54
1:A1:325:G:O2'	1:A1:326:G:H5'	2.07	0.54
1:C1:1570:A:N3	1:C1:1570:A:H2'	2.22	0.54
1:C1:1588:G:H2'	1:C1:1588:G:N3	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1377:U:C2	1:A1:1378:U:H4'	2.43	0.54
1:A1:1378:U:O4'	1:A1:1379:C:H6	1.91	0.54
1:A1:1382:A:N3	1:A1:1383:G:C8	2.76	0.54
46:BQ:111:LYS:O	46:BQ:112:LEU:C	2.47	0.54
29:B1:3281:U:N3	29:B1:3282:U:O4	2.41	0.54
29:B1:3186:A:H4'	29:B1:3187:A:O5'	2.08	0.54
30:D2:26:C:O5'	30:D2:26:C:H6	1.90	0.54
29:D1:395:A:C6	29:D1:396:A:N6	2.76	0.54
30:B2:24:A:N3	30:B2:25:G:C8	2.76	0.54
29:D1:2520:A:C5	29:D1:2521:U:C4	2.96	0.54
31:B3:29:U:H2'	31:B3:30:C:C6	2.41	0.54
1:C1:1420:C:C6	1:C1:1420:C:H3'	2.43	0.54
29:D1:2429:G:O2'	29:D1:2430:A:H5'	2.08	0.54
29:B1:986:U:C2	29:B1:987:U:C6	2.96	0.54
29:B1:1626:U:H2'	29:B1:1627:U:O4'	2.08	0.54
1:A1:898:A:N6	1:A1:914:G:N2	2.56	0.54
29:B1:3274:A:H1'	29:B1:3275:U:OP2	2.05	0.54
43:DN:73:PRO:O	43:DN:76:ALA:N	2.41	0.54
1:C1:1783:C:C2	1:C1:1784:C:C5	2.96	0.54
39:BH:99:PRO:CB	39:BH:237:ILE:N	2.62	0.54
29:D1:1354:G:C8	29:D1:1355:A:C6	2.91	0.54
1:C1:1579:U:N3	1:C1:1580:C:C4	2.75	0.54
29:B1:1018:G:N1	74:B1:3529:OHX:N5	2.55	0.54
1:A1:789:A:H3'	1:A1:790:U:C6	2.42	0.54
36:BE:241:THR:C	36:BE:243:ALA:N	2.62	0.54
29:D1:802:C:H2'	29:D1:803:C:H6	1.73	0.54
34:DC:60:LEU:C	34:DC:62:ARG:H	2.06	0.54
1:C1:717:C:N4	1:C1:722:G:H22	2.05	0.54
29:D1:602:A:N1	29:D1:603:A:N6	2.56	0.54
1:C1:710:U:N3	1:C1:729:G:N1	2.56	0.54
41:DJ:66:GLU:O	41:DJ:67:ALA:C	2.44	0.54
29:D1:235:A:H2'	29:D1:236:G:H8	1.71	0.54
29:B1:1004:U:C4	29:B1:1005:G:N7	2.76	0.54
29:D1:495:G:O2'	29:D1:496:C:H5'	2.08	0.54
29:B1:2692:A:C6	29:B1:2693:C:C4	2.96	0.54
3:CB:62:PRO:CA	3:CB:63:VAL:CB	2.86	0.54
6:AE:100:LYS:HA	6:AE:104:PHE:H	1.72	0.54
44:BO:146:ALA:C	44:BO:148:TYR:H	2.10	0.54
5:AD:131:GLN:O	5:AD:135:ASP:CB	2.56	0.54
29:D1:1771:C:C4	29:D1:1772:U:C5	2.96	0.54
37:BF:131:LYS:O	37:BF:132:ALA:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DR:77:ALA:C	47:DR:79:LYS:H	2.08	0.54
45:BP:36:VAL:CB	45:BP:105:PHE:H	2.21	0.54
34:BC:317:ILE:O	34:BC:318:LYS:CB	2.55	0.54
1:A1:42:G:O4'	1:A1:437:A:C8	2.61	0.53
1:A1:553:G:C6	1:A1:554:C:C4	2.96	0.53
1:A1:862:A:H4'	1:A1:863:A:O5'	2.07	0.53
29:B1:1288:U:C2	29:B1:1289:G:C8	2.95	0.53
29:B1:943:U:C1'	29:B1:1432:C:H6	2.21	0.53
29:B1:1514:G:C8	29:B1:1841:A:C2	2.96	0.53
29:B1:2151:C:H6	29:B1:2151:C:C5'	2.13	0.53
29:B1:2254:U:C5	29:B1:2254:U:OP2	2.61	0.53
29:B1:2326:A:C5	29:B1:2327:U:C5	2.96	0.53
29:B1:2364:G:H8	29:B1:2364:G:OP2	1.91	0.53
29:B1:2405:C:O2	29:B1:2406:C:C6	2.61	0.53
29:B1:584:G:N3	29:B1:585:A:C8	2.76	0.53
29:B1:595:G:O6	29:B1:609:G:O4'	2.26	0.53
29:B1:636:C:H5	29:B1:2378:C:H1'	1.74	0.53
29:B1:87:U:O2	29:B1:87:U:H2'	2.09	0.53
31:B3:1:A:C2'	31:B3:2:A:O5'	2.56	0.53
29:B1:3011:A:N1	34:BC:13:HIS:HA	2.23	0.53
38:BG:53:LYS:O	38:BG:54:GLU:C	2.46	0.53
1:C1:1654:G:C2	1:C1:1745:G:C4	2.96	0.53
1:C1:1763:A:H2'	1:C1:1764:C:H5''	1.91	0.53
1:C1:601:A:H5'	1:C1:602:U:OP2	2.08	0.53
29:D1:1119:C:H1'	29:D1:1154:A:C4	2.44	0.53
29:D1:1140:G:C2	29:D1:1141:C:C6	2.96	0.53
29:D1:1167:U:C6	29:D1:1167:U:C5'	2.87	0.53
29:D1:1444:G:C2'	29:D1:1445:U:O5'	2.56	0.53
29:D1:1835:A:H2'	29:D1:1836:C:C6	2.43	0.53
29:D1:913:A:H1'	29:D1:2147:A:O4'	2.07	0.53
29:D1:2317:A:H2'	29:D1:2318:U:O4'	2.08	0.53
29:D1:2422:C:H2'	29:D1:2423:U:O5'	2.09	0.53
29:D1:259:C:H2'	29:D1:260:C:H6	1.71	0.53
29:D1:160:G:N2	29:D1:263:C:HO2'	2.06	0.53
29:D1:2727:A:H2	29:D1:2729:U:C5	2.25	0.53
29:D1:2804:A:O2'	29:D1:2805:G:C5'	2.56	0.53
29:D1:2810:C:OP1	29:D1:2810:C:H4'	2.09	0.53
29:D1:2856:G:N2	29:D1:2857:C:C2	2.76	0.53
29:D1:2932:U:C2	29:D1:2934:A:OP2	2.61	0.53
29:D1:382:U:C3'	29:D1:383:G:C4'	2.85	0.53
29:D1:705:A:N6	29:D1:715:A:C8	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:757:C:N4	29:D1:758:C:C4	2.76	0.53
1:C1:973:A:O4'	29:D1:847:A:N1	2.41	0.53
29:D1:882:A:H2	29:D1:885:U:C6	2.23	0.53
29:D1:91:G:C8	29:D1:93:C:C6	2.96	0.53
29:D1:957:C:HO2'	29:D1:2799:A:HO2'	1.56	0.53
29:D1:995:U:O2'	29:D1:996:A:OP2	2.23	0.53
31:D3:65:A:C5	31:D3:66:A:N7	2.75	0.53
31:D3:93:U:O3'	31:D3:94:C:O4'	2.27	0.53
29:D1:3147:G:H4'	34:DC:100:ARG:HA	1.90	0.53
37:DF:152:THR:O	37:DF:155:LEU:N	2.31	0.53
29:D1:2899:C:O2	40:DI:171:ASP:CB	2.57	0.53
29:B1:2626:A:N7	29:B1:2644:C:H5'	2.23	0.53
29:B1:2689:A:C2	29:B1:2702:A:C2	2.93	0.53
30:B2:74:C:C5	30:B2:75:G:C5	2.96	0.53
49:BT:28:SER:C	49:BT:30:TYR:N	2.61	0.53
1:C1:1684:U:O4	1:C1:1721:A:H2	1.85	0.53
29:B1:2677:G:H21	29:B1:2678:A:H5'	1.72	0.53
1:A1:749:U:O2	1:A1:801:G:C4	2.61	0.53
1:C1:1209:C:C4	1:C1:1455:G:N2	2.76	0.53
1:C1:1203:A:C2	1:C1:1556:A:N3	2.75	0.53
1:A1:160:C:O2'	1:A1:161:U:P	2.66	0.53
1:A1:1192:C:C6	1:A1:1193:A:C8	2.97	0.53
1:A1:1227:A:H8	1:A1:1229:G:OP2	1.91	0.53
1:A1:1244:A:N1	1:A1:1245:G:C4	2.76	0.53
14:AM:67:MET:O	14:AM:69:LYS:C	2.47	0.53
29:D1:3209:A:C3'	29:D1:3210:A:C8	2.91	0.53
29:B1:3175:U:O2	29:B1:3175:U:O4'	2.26	0.53
29:B1:3175:U:OP1	29:B1:3278:C:H1'	2.08	0.53
29:D1:435:C:H2'	29:D1:436:A:C8	2.44	0.53
30:B2:41:G:C2'	30:B2:41:G:N3	2.67	0.53
29:B1:1271:A:H3'	29:B1:1271:A:N3	2.23	0.53
29:D1:3278:C:O3'	29:D1:3279:A:O4'	2.26	0.53
1:A1:156:A:H2'	1:A1:157:A:O4'	2.08	0.53
29:B1:3381:U:C4	29:B1:3383:G:C6	2.97	0.53
29:D1:1230:G:H4'	73:DM:33:VAL:H	1.73	0.53
29:D1:1625:A:N6	29:D1:1626:U:C2	2.76	0.53
1:C1:1412:G:H4'	1:C1:1413:U:OP1	2.07	0.53
29:B1:1097:G:O3'	29:B1:1098:A:H4'	2.08	0.53
8:AG:51:GLY:O	8:AG:55:ARG:HA	2.08	0.53
34:BC:50:LYS:O	34:BC:332:ARG:HA	2.08	0.53
46:BQ:85:ALA:O	46:BQ:88:VAL:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2131:A:C3'	29:D1:2132:C:H5''	2.38	0.53
29:D1:1077:U:O2'	29:D1:1078:U:O4'	2.26	0.53
15:AN:71:PRO:O	15:AN:72:ASN:CB	2.56	0.53
29:B1:1352:A:H3'	29:B1:1353:U:C4'	2.38	0.53
42:DK:27:GLY:HA2	42:DK:29:ARG:N	2.16	0.53
32:BA:155:ILE:HA	32:BA:156:LYS:CB	2.37	0.53
29:B1:1422:G:C6	29:B1:1423:C:C4	2.96	0.53
29:B1:140:C:O2'	29:B1:141:C:H5'	2.08	0.53
13:CL:78:HIS:O	13:CL:79:TYR:C	2.47	0.53
34:BC:191:LYS:O	34:BC:192:VAL:C	2.46	0.53
20:AS:38:ILE:CB	74:AS:101:OHX:N6	2.71	0.53
14:CM:60:SER:C	14:CM:62:ALA:H	2.11	0.53
29:D1:2544:U:H2'	29:D1:2545:C:C6	2.43	0.53
29:D1:2545:C:C2	29:D1:2546:C:C6	2.96	0.53
29:B1:244:G:H3'	29:B1:245:U:H5'	1.89	0.53
9:AH:3:ASN:O	9:AH:4:VAL:CB	2.56	0.53
13:AL:124:GLY:C	13:AL:126:ARG:H	2.10	0.53
47:DR:59:ARG:O	47:DR:60:PRO:O	2.26	0.53
38:BG:221:LYS:O	38:BG:222:HIS:CB	2.53	0.53
48:BS:23:TRP:N	48:BS:51:VAL:O	2.41	0.53
3:AB:147:ASN:C	3:AB:149:GLY:H	2.12	0.53
48:DS:37:SER:C	48:DS:39:ASN:N	2.61	0.53
18:CQ:66:VAL:C	18:CQ:68:ARG:H	2.11	0.53
4:AC:56:GLN:O	4:AC:59:LEU:N	2.38	0.53
39:DH:86:THR:O	39:DH:87:ALA:C	2.46	0.53
42:BK:79:ILE:C	42:BK:81:GLU:H	2.12	0.53
41:BJ:56:GLU:O	41:BJ:57:LEU:C	2.47	0.53
33:BB:98:VAL:C	33:BB:99:GLY:O	2.45	0.53
36:DE:184:ASP:O	36:DE:185:PHE:CB	2.56	0.53
1:A1:1005:A:C8	1:A1:1006:C:C5	2.96	0.53
1:A1:1006:C:C6	1:A1:1007:C:C5	2.92	0.53
1:A1:1053:G:N2	1:A1:1067:C:H1'	2.23	0.53
1:A1:1107:G:H2'	1:A1:1108:G:N3	2.23	0.53
1:A1:1764:C:C6	1:A1:1764:C:C5'	2.88	0.53
1:A1:980:G:H4'	1:A1:1776:A:H4'	1.89	0.53
1:A1:396:G:C2'	1:A1:397:A:O5'	2.57	0.53
1:A1:550:A:H4'	1:A1:556:A:C6	2.44	0.53
1:A1:627:C:H5''	1:A1:628:G:OP2	2.07	0.53
29:B1:1174:G:C5	29:B1:1318:A:C4	2.96	0.53
29:B1:1179:A:O4'	29:B1:1328:C:O4'	2.26	0.53
29:B1:1388:U:C4	29:B1:1389:G:N7	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1390:A:N3	29:B1:1390:A:H5''	2.22	0.53
29:B1:1782:U:C2'	29:B1:1783:U:O4'	2.52	0.53
29:B1:2133:U:H2'	29:B1:2134:G:C5'	2.38	0.53
29:B1:2658:G:C5	29:B1:2659:G:N7	2.77	0.53
29:B1:2739:A:H2'	29:B1:2739:A:N3	2.23	0.53
29:B1:2838:A:C2	29:B1:2851:A:N9	2.76	0.53
29:B1:283:G:H2'	29:B1:285:A:N7	2.22	0.53
29:B1:2914:G:C5	29:B1:2915:U:C5	2.96	0.53
29:B1:2950:G:H2'	29:B1:2950:G:N3	2.21	0.53
29:B1:2997:G:H1'	29:B1:2998:U:OP2	2.07	0.53
29:B1:3303:G:C2	29:B1:3305:A:C4	2.95	0.53
29:B1:392:G:N1	29:B1:393:U:C5	2.75	0.53
29:B1:39:A:C5'	29:B1:40:A:OP2	2.53	0.53
29:B1:557:A:N7	29:B1:559:A:N6	2.56	0.53
29:B1:564:G:C5	29:B1:565:U:C4	2.96	0.53
29:B1:594:U:C2	29:B1:595:G:C4	2.97	0.53
29:B1:632:G:H2'	29:B1:633:C:O5'	2.08	0.53
29:B1:642:U:H4'	29:B1:1116:G:C6	2.42	0.53
29:B1:761:A:C2	29:B1:762:U:C1'	2.90	0.53
31:B3:127:U:O2	31:B3:127:U:C2'	2.56	0.53
31:B3:2:A:C2'	31:B3:3:A:H5'	2.39	0.53
31:B3:3:A:H2'	31:B3:4:C:H5'	1.89	0.53
29:B1:2355:G:OP1	46:BQ:141:SER:CB	2.56	0.53
1:C1:1074:G:O6	1:C1:1075:C:C4	2.61	0.53
1:C1:1138:A:N1	1:C1:1139:A:C6	2.76	0.53
1:C1:1150:G:C6	1:C1:1151:A:C4	2.96	0.53
1:C1:15:U:C2'	1:C1:16:G:H5'	2.38	0.53
1:C1:454:U:O2'	1:C1:455:C:P	2.66	0.53
1:C1:521:A:O3'	1:C1:523:G:C8	2.61	0.53
1:C1:635:A:H2'	1:C1:636:A:H8	1.73	0.53
1:C1:993:A:C5	1:C1:1012:U:O2	2.61	0.53
16:CO:75:ILE:O	16:CO:76:SER:O	2.25	0.53
29:D1:1544:G:O2'	29:D1:2167:A:O2'	2.10	0.53
29:D1:1549:U:H2'	29:D1:1550:C:H6	1.73	0.53
29:D1:1565:G:N1	29:D1:1566:A:H1'	2.23	0.53
29:D1:14:U:C4'	29:D1:15:C:OP2	2.43	0.53
29:D1:2260:U:C2'	29:D1:2261:G:N7	2.71	0.53
29:D1:2609:A:C4	29:D1:2610:G:N7	2.76	0.53
29:D1:2649:A:C2	29:D1:2650:U:C6	2.96	0.53
29:D1:25:U:C2	29:D1:26:A:C8	2.96	0.53
29:D1:2822:U:H2'	29:D1:2823:G:O5'	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:282:G:C4'	29:D1:283:G:H8	2.20	0.53
29:D1:3060:C:OP1	29:D1:3374:U:H5'	2.08	0.53
29:D1:3387:U:C2	29:D1:3388:C:N4	2.76	0.53
29:D1:383:G:H2'	29:D1:385:A:P	2.48	0.53
29:D1:429:U:O2'	29:D1:430:U:H5'	2.08	0.53
29:D1:504:A:H2'	29:D1:505:G:C5'	2.37	0.53
29:D1:593:C:C3'	29:D1:594:U:O4'	2.56	0.53
29:D1:648:C:H5	29:D1:2375:G:P	2.31	0.53
29:D1:712:G:H2'	29:D1:713:U:C6	2.43	0.53
29:D1:832:G:N2	29:D1:863:C:N1	2.55	0.53
29:D1:938:C:H2'	29:D1:939:U:H5''	1.90	0.53
74:D3:204:OHX:N5	74:D3:209:OHX:N5	2.56	0.53
31:D3:90:U:OP2	31:D3:90:U:H3'	2.08	0.53
46:DQ:85:ALA:O	46:DQ:86:LYS:C	2.47	0.53
29:B1:2639:G:C4	29:B1:2640:A:C8	2.97	0.53
29:B1:965:A:N6	29:B1:966:U:N3	2.56	0.53
1:C1:251:A:H2'	1:C1:252:U:C5'	2.38	0.53
42:DK:49:LYS:O	42:DK:50:ALA:HB2	2.08	0.53
29:B1:2678:A:C8	29:B1:2679:A:N3	2.66	0.53
1:A1:1682:U:C2	1:A1:1683:C:C4	2.96	0.53
1:A1:304:U:C2'	1:A1:304:U:O2	2.56	0.53
1:C1:1258:U:C2'	1:C1:1259:U:O4'	2.53	0.53
1:C1:1429:G:C6	1:C1:1430:U:C4	2.96	0.53
1:C1:1616:G:N2	1:C1:1618:C:H41	1.93	0.53
1:A1:1379:C:H2'	1:A1:1380:U:H5'	1.90	0.53
1:A1:1431:C:H5'	1:A1:1432:U:H5'	1.90	0.53
1:A1:1515:A:C3'	1:A1:1516:A:H5''	2.38	0.53
1:A1:1534:G:H4'	1:A1:1536:G:N7	2.22	0.53
1:A1:1588:G:H2'	1:A1:1588:G:N3	2.22	0.53
1:A1:1592:A:O2'	1:A1:1593:A:H5'	2.07	0.53
29:B1:3209:A:N1	29:B1:3210:A:C2	2.76	0.53
46:DQ:6:ALA:O	46:DQ:8:SER:N	2.41	0.53
29:D1:3235:C:C4	29:D1:3236:U:C5	2.97	0.53
29:D1:374:A:C2	29:D1:375:A:C4	2.96	0.53
35:DD:159:ILE:C	35:DD:161:LYS:H	2.11	0.53
15:CN:52:LYS:HA	15:CN:92:ASP:O	2.08	0.53
29:B1:2513:U:C4	29:B1:2592:G:N3	2.76	0.53
29:D1:3352:U:O2	29:D1:3352:U:H2'	2.08	0.53
1:C1:1310:U:C2'	1:C1:1311:U:O5'	2.57	0.53
29:B1:1064:A:O2'	29:B1:1065:A:OP1	2.24	0.53
29:B1:1076:C:H2'	29:B1:1076:C:O2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:127:G:H2'	29:B1:128:G:C8	2.43	0.53
1:A1:1334:U:H2'	1:A1:1335:U:C1'	2.37	0.53
1:A1:902:G:H8	1:A1:902:G:O5'	1.91	0.53
29:B1:2882:U:C2'	29:B1:2883:U:O5'	2.53	0.53
29:B1:1338:C:C2	29:B1:1339:C:C5	2.97	0.53
1:A1:720:G:C4'	1:A1:721:U:OP1	2.52	0.53
29:B1:1704:A:N6	29:B1:1739:U:N3	2.56	0.53
29:D1:1702:U:O4	29:D1:1703:U:H6	1.90	0.53
2:AA:8:ASP:C	2:AA:10:THR:N	2.58	0.53
10:CI:19:GLY:C	10:CI:21:ASP:N	2.61	0.53
17:AP:43:PHE:C	17:AP:45:GLY:H	2.10	0.53
47:BR:19:PRO:O	47:BR:20:LYS:CB	2.56	0.53
29:B1:665:A:C5	29:B1:666:A:N7	2.76	0.53
1:A1:743:U:O2'	1:A1:744:U:P	2.66	0.53
29:D1:665:A:N6	29:D1:666:A:N6	2.56	0.53
42:BK:133:ARG:CB	42:BK:155:THR:H	2.21	0.53
1:A1:802:G:H5''	1:A1:803:A:OP2	2.08	0.53
1:A1:576:G:H5''	1:A1:577:G:OP2	2.08	0.53
74:B1:3524:OHX:N4	74:B1:3616:OHX:N3	2.56	0.53
44:BO:30:TYR:O	44:BO:31:ARG:C	2.44	0.53
45:BP:109:PRO:O	45:BP:110:PRO:CB	2.56	0.53
14:AM:24:ARG:O	14:AM:25:GLN:CB	2.56	0.53
41:BJ:42:THR:C	41:BJ:44:ASP:H	2.12	0.53
8:CG:119:GLU:O	8:CG:122:ILE:N	2.41	0.53
38:DG:102:VAL:O	38:DG:103:LEU:C	2.45	0.53
10:AI:76:VAL:O	10:AI:94:VAL:HA	2.08	0.53
52:DW:94:GLN:O	52:DW:95:ILE:C	2.46	0.53
1:A1:1422:A:H2'	1:A1:1423:U:O4'	2.08	0.53
34:BC:137:TYR:O	34:BC:138:ALA:HB3	2.08	0.53
52:BW:60:TYR:O	52:BW:61:LYS:CB	2.55	0.53
1:A1:1146:G:C6	1:A1:1633:A:N6	2.76	0.53
1:A1:1786:G:H2'	1:A1:1787:C:C5	2.43	0.53
1:A1:55:A:H3'	1:A1:56:U:C5'	2.39	0.53
1:A1:617:U:H5'	1:A1:1031:U:O4'	2.09	0.53
29:B1:1198:C:H2'	29:B1:1200:A:C8	2.43	0.53
29:B1:219:A:H2	29:B1:1390:A:C2'	2.19	0.53
29:B1:1399:A:C2	31:B3:8:C:H1'	2.44	0.53
29:B1:1390:A:C6	29:B1:1418:A:C4	2.97	0.53
29:B1:1856:C:O2'	29:B1:1857:C:H5'	2.08	0.53
29:B1:2190:U:C4	29:B1:2191:U:C4	2.97	0.53
29:B1:2290:C:N3	29:B1:2303:A:N1	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:422:A:H3'	29:B1:2364:G:C5'	2.38	0.53
29:B1:2407:C:C2	29:B1:2815:G:N2	2.76	0.53
29:B1:2868:U:H5''	29:B1:2869:U:OP2	2.08	0.53
29:B1:2145:A:O4'	29:B1:2958:A:H4'	2.08	0.53
29:B1:3013:U:H6	29:B1:3013:U:H5''	1.73	0.53
29:B1:3294:A:C2'	29:B1:3295:A:H5'	2.39	0.53
29:B1:427:C:H2'	29:B1:428:A:H5'	1.90	0.53
29:B1:759:U:C2	29:B1:773:G:N1	2.76	0.53
29:B1:776:U:H3'	29:B1:777:U:H5''	1.87	0.53
37:BF:30:LEU:CB	37:BF:31:ARG:CA	2.86	0.53
29:B1:278:U:OP1	37:BF:49:GLY:N	100.70	0.53
54:BY:21:ARG:O	54:BY:22:ILE:CB	2.56	0.53
1:C1:116:U:H2'	1:C1:117:U:C6	2.42	0.53
1:C1:168:A:C6	1:C1:169:A:C6	2.96	0.53
1:C1:1745:G:H8	1:C1:1745:G:O5'	1.90	0.53
1:C1:378:A:H2'	1:C1:379:U:O5'	2.08	0.53
1:C1:400:A:H5'	1:C1:401:A:H5'	1.89	0.53
29:D1:80:G:O6	29:D1:106:A:N6	2.41	0.53
29:D1:1209:G:H2'	29:D1:1210:U:O4'	2.08	0.53
29:D1:1220:U:P	29:D1:1222:G:HO2'	2.30	0.53
29:D1:1289:G:C4'	29:D1:1290:A:OP1	2.52	0.53
29:D1:1340:G:C4	29:D1:1341:U:C5	2.96	0.53
29:D1:1608:C:C2	29:D1:1609:C:C5	2.96	0.53
29:D1:1907:C:C5	29:D1:1908:A:C4	2.96	0.53
29:D1:1939:G:H2'	29:D1:1940:G:C5'	2.38	0.53
29:D1:993:G:C6	29:D1:2637:A:C6	2.97	0.53
29:D1:2848:G:C6	29:D1:2849:C:C5	2.96	0.53
29:D1:2895:G:H5'	29:D1:3107:U:O2'	2.09	0.53
29:D1:2912:G:C6	29:D1:3130:A:C4	2.96	0.53
29:D1:3296:A:C4	29:D1:3297:U:C6	2.97	0.53
29:D1:64:G:O5'	29:D1:64:G:H8	1.91	0.53
29:D1:845:G:H2'	29:D1:846:A:O5'	2.09	0.53
29:D1:876:A:C2'	29:D1:877:C:H5'	2.39	0.53
29:D1:945:C:C2	29:D1:946:U:C6	2.96	0.53
29:D1:949:C:C2'	29:D1:950:G:H5'	2.38	0.53
31:D3:101:U:H2'	31:D3:102:U:O5'	2.07	0.53
31:D3:40:A:C4	31:D3:41:A:N7	2.77	0.53
31:D3:67:U:C3'	31:D3:68:G:H8	2.14	0.53
31:D3:81:U:C3'	31:D3:82:U:C5'	2.85	0.53
37:DF:131:LYS:O	38:DG:70:LYS:O	2.26	0.53
1:A1:832:U:C3'	1:A1:833:U:H5''	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:800:U:H2'	1:C1:801:G:C8	2.43	0.53
29:B1:2639:G:C2	29:B1:2640:A:N9	2.76	0.53
29:B1:2727:A:OP1	49:BT:81:GLY:O	2.26	0.53
30:B2:74:C:C6	30:B2:75:G:C8	2.96	0.53
31:B3:53:A:C5	31:B3:54:A:N7	2.76	0.53
41:DJ:174:THR:O	41:DJ:176:LEU:N	2.41	0.53
1:A1:167:U:H6	1:A1:167:U:H5''	1.72	0.53
1:A1:173:A:N6	1:A1:174:U:C6	2.76	0.53
1:A1:454:U:O2'	1:A1:455:C:P	2.66	0.53
1:C1:244:A:H2'	1:C1:245:U:H6	1.74	0.53
29:D1:2676:A:C2	29:D1:2680:A:C2	2.94	0.53
42:BK:50:ALA:CB	42:BK:63:GLU:H	2.16	0.53
1:C1:1378:U:O4'	1:C1:1379:C:H6	1.92	0.53
1:C1:1438:G:H2'	1:C1:1439:C:O4'	2.08	0.53
1:C1:1458:G:H5''	1:C1:1458:G:C4	2.43	0.53
1:C1:1471:A:H2'	1:C1:1471:A:N3	2.23	0.53
1:C1:1538:U:C6	1:C1:1538:U:C3'	2.91	0.53
1:A1:1194:A:H2'	1:A1:1195:C:H5'	1.89	0.53
1:A1:1243:G:N7	1:A1:1244:A:N6	2.54	0.53
1:A1:1347:U:H3	1:A1:1376:C:H41	1.55	0.53
1:A1:1503:A:C2'	1:A1:1504:G:H5'	2.37	0.53
29:D1:208:C:C2	29:D1:209:A:C8	2.97	0.53
29:D1:208:C:C2'	29:D1:209:A:H5'	2.23	0.53
29:B1:2435:G:C6	29:B1:2593:A:C5	2.97	0.53
29:B1:2163:C:H2'	29:B1:2163:C:O2	2.08	0.53
29:B1:1097:G:H1'	29:B1:1098:A:O2'	2.07	0.53
29:B1:126:U:C2	29:B1:127:G:C8	2.96	0.53
29:B1:1338:C:O2	29:B1:1338:C:H2'	2.07	0.53
36:DE:50:ARG:HA	36:DE:145:PHE:H	1.73	0.53
17:AP:129:GLY:O	17:AP:130:VAL:CB	2.56	0.53
29:B1:2561:A:H2'	29:B1:2562:A:C8	2.39	0.53
29:D1:2157:G:N2	33:DB:125:ALA:HA	2.23	0.53
29:B1:171:G:N3	29:B1:172:G:C8	2.77	0.53
29:B1:244:G:H2'	29:B1:245:U:C5'	2.38	0.53
1:C1:734:A:N7	1:C1:735:C:C4	2.75	0.53
40:DI:87:LYS:HA	40:DI:147:SER:CB	2.38	0.53
45:BP:139:GLY:O	45:BP:143:THR:N	2.40	0.53
10:AI:33:PHE:C	10:AI:35:LYS:N	2.61	0.53
47:DR:57:ILE:C	47:DR:59:ARG:N	2.62	0.53
35:BD:82:THR:O	35:BD:84:ARG:O	2.26	0.53
29:D1:1283:C:OP1	73:DM:81:LYS:O	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:28:SER:O	43:BN:29:ALA:CB	2.55	0.53
36:BE:217:GLU:O	36:BE:221:GLU:N	2.35	0.53
6:CE:135:ALA:CB	6:CE:140:ILE:HA	2.39	0.53
37:BF:171:PRO:O	37:BF:172:HIS:CB	2.57	0.53
29:D1:1720:U:C6	29:D1:1720:U:H3'	2.43	0.53
41:BJ:17:TYR:O	41:BJ:19:LYS:N	2.42	0.53
29:D1:670:C:O2'	29:D1:671:U:H5'	2.07	0.53
1:A1:1032:G:C6	1:A1:1104:U:O4	2.62	0.53
1:A1:1634:C:C5	1:A1:1634:C:OP1	2.62	0.53
1:A1:15:U:O2'	1:A1:16:G:H5'	2.08	0.53
1:A1:605:A:N6	1:A1:606:A:H61	2.05	0.53
29:B1:111:C:O2	29:B1:111:C:C2'	2.55	0.53
29:B1:1128:U:C5'	29:B1:1129:A:OP2	2.57	0.53
29:B1:1178:G:N7	29:B1:1179:A:C2	2.77	0.53
29:B1:945:C:C2	29:B1:1375:G:N2	2.77	0.53
29:B1:1838:G:H4'	29:B1:1839:A:N9	2.23	0.53
29:B1:2116:G:C2	29:B1:3064:U:H5''	2.44	0.53
29:B1:2181:C:H2'	29:B1:2182:A:O5'	2.09	0.53
29:B1:2333:C:H2'	29:B1:2334:U:O4'	2.09	0.53
29:B1:2368:A:H2'	29:B1:2369:G:H5'	1.91	0.53
29:B1:2841:G:H3'	29:B1:2842:U:H5'	1.91	0.53
29:B1:3057:U:O2'	29:B1:3059:G:H8	1.92	0.53
29:B1:3133:C:C2'	29:B1:3134:A:O5'	2.57	0.53
29:B1:3372:A:C5	29:B1:3373:U:C4	2.96	0.53
29:B1:543:C:H2'	29:B1:544:C:H5'	1.90	0.53
29:B1:594:U:N3	29:B1:595:G:C2	2.76	0.53
29:B1:597:G:H2'	29:B1:598:A:C8	2.41	0.53
29:B1:659:G:O2'	29:B1:660:A:C8	2.61	0.53
29:B1:705:A:C8	29:B1:715:A:N6	2.77	0.53
29:B1:716:A:P	29:B1:716:A:O4'	2.66	0.53
29:B1:718:G:H1'	29:B1:719:U:OP2	2.07	0.53
29:B1:750:G:H1	29:B1:784:A:C1'	2.21	0.53
29:B1:859:G:N2	29:B1:861:C:C1'	2.69	0.53
29:B1:953:G:H8	29:B1:953:G:C3'	2.14	0.53
31:B3:13:A:H2'	31:B3:14:C:H6	1.73	0.53
1:C1:1137:A:H2	1:C1:1138:A:C5	2.26	0.53
1:C1:1142:A:C8	1:C1:1142:A:H5'	2.43	0.53
1:C1:138:A:C6	1:C1:142:G:C1'	2.92	0.53
1:C1:129:U:C6	1:C1:264:G:C6	2.95	0.53
1:C1:406:U:C6	1:C1:406:U:OP2	2.62	0.53
1:C1:26:A:C2	1:C1:600:U:O2	2.59	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:868:G:H2'	1:C1:869:A:H5'	1.91	0.53
29:D1:1130:A:H5'	29:D1:1130:A:C8	2.44	0.53
29:D1:1342:C:H3'	29:D1:1343:A:H8	1.73	0.53
29:D1:1399:A:C2'	29:D1:1399:A:N3	2.70	0.53
29:D1:944:C:C5	29:D1:1431:G:C6	2.97	0.53
29:D1:1559:A:N6	29:D1:1579:C:H2'	2.22	0.53
29:D1:1561:G:O2'	29:D1:1562:C:H5'	2.09	0.53
29:D1:1659:U:C2	29:D1:1660:C:C5	2.97	0.53
29:D1:1845:G:C2'	29:D1:1846:C:OP1	2.55	0.53
29:D1:2144:A:C6	29:D1:2281:A:C2	2.97	0.53
29:D1:2198:A:O2'	29:D1:2199:G:H5'	2.08	0.53
29:D1:2270:A:C2	29:D1:2271:A:N3	2.77	0.53
29:D1:22:G:O6	31:D3:36:G:C6	2.61	0.53
29:D1:3035:A:C6	29:D1:3036:G:C5	2.96	0.53
29:D1:342:A:C6	29:D1:368:G:C4	2.97	0.53
29:D1:423:A:O2'	29:D1:424:G:O5'	2.26	0.53
29:D1:48:A:C2	29:D1:50:U:O4	2.62	0.53
29:D1:518:G:H1	29:D1:572:A:H61	1.55	0.53
29:D1:733:G:N2	29:D1:734:C:H2'	2.22	0.53
29:D1:767:U:H6	29:D1:767:U:OP2	1.91	0.53
29:D1:776:U:P	29:D1:777:U:OP2	2.66	0.53
29:D1:966:U:H2'	29:D1:967:A:H8	1.70	0.53
29:D1:967:A:H5'	29:D1:968:G:OP2	2.08	0.53
29:D1:991:G:C4	29:D1:992:A:C8	2.97	0.53
29:D1:9:U:O4	29:D1:10:C:C5	2.61	0.53
31:D3:90:U:P	31:D3:90:U:H3'	2.49	0.53
33:DB:183:GLY:N	33:DB:185:ALA:H	2.06	0.53
53:DX:75:ARG:C	53:DX:77:LYS:H	2.11	0.53
29:B1:2646:C:C2'	29:B1:2647:A:H5'	2.38	0.53
41:BJ:170:LYS:H	41:BJ:177:ASP:C	2.11	0.53
1:A1:166:C:N4	1:A1:167:U:O4	2.42	0.53
1:A1:195:G:H1'	1:A1:196:G:OP1	2.08	0.53
1:A1:272:U:H1'	1:A1:273:G:OP1	2.09	0.53
1:A1:286:C:H2'	1:A1:287:G:H8	1.73	0.53
1:A1:126:A:C6	1:A1:292:U:C2	2.96	0.53
30:D2:14:U:OP2	30:D2:14:U:C1'	2.57	0.53
30:D2:12:U:C4	30:D2:70:U:OP1	2.62	0.53
1:C1:115:G:H21	1:C1:334:G:N2	2.02	0.53
7:CF:132:SER:O	7:CF:133:LYS:C	2.46	0.53
1:A1:1682:U:C2	1:A1:1683:C:N4	2.77	0.53
1:C1:1183:A:N6	1:C1:1184:A:N1	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1348:A:C5	1:C1:1379:C:C4	2.96	0.53
1:C1:1374:C:C4	1:C1:1375:A:N1	2.77	0.53
1:C1:1534:G:H4'	1:C1:1536:G:O6	2.07	0.53
1:C1:1584:G:N3	1:C1:1585:U:OP1	2.41	0.53
1:A1:1375:A:H2'	1:A1:1376:C:C2	2.43	0.53
1:A1:1379:C:H5'	1:A1:1380:U:OP2	2.08	0.53
1:A1:1512:G:H2'	1:A1:1513:G:H8	1.72	0.53
1:A1:1540:G:O2'	1:A1:1541:G:H5'	2.09	0.53
1:A1:1161:C:H1'	1:A1:1620:C:H42	1.69	0.53
29:B1:3219:G:H1'	29:B1:3257:C:H5'	1.90	0.53
29:D1:398:A:C2	29:D1:1415:U:H5''	2.43	0.53
29:B1:1229:G:C2	29:B1:1230:G:C5	2.95	0.53
30:D2:33:U:C2'	30:D2:33:U:O2	2.55	0.53
1:A1:156:A:O5'	1:A1:156:A:H8	1.91	0.53
1:A1:642:G:C6	1:A1:643:G:C5	2.97	0.53
29:B1:2173:U:C4	29:B1:2174:G:C5	2.96	0.53
1:C1:1295:G:C1'	1:C1:1321:A:C2	2.91	0.53
1:C1:1332:C:O2'	1:C1:1333:C:O5'	2.25	0.53
1:C1:1391:A:C8	1:C1:1412:G:C6	2.96	0.53
1:C1:1419:G:C2'	1:C1:1420:C:O5'	2.57	0.53
29:B1:1099:A:H2'	29:B1:1100:U:H5'	1.91	0.53
29:B1:2354:C:C2'	29:B1:2354:C:O2	2.56	0.53
36:DE:138:GLY:O	36:DE:139:PRO:CB	2.55	0.53
1:C1:488:G:C2	1:C1:489:C:O2	2.61	0.53
1:A1:1656:U:OP2	1:A1:1656:U:C6	2.61	0.53
30:D2:95:A:N3	30:D2:96:U:C6	2.77	0.53
29:B1:1035:G:C5	29:B1:1036:A:C8	2.96	0.53
29:D1:1912:U:N3	29:D1:1913:A:C2	2.76	0.53
5:CD:163:SER:O	5:CD:165:LEU:N	2.41	0.53
1:A1:351:C:H4'	1:A1:352:A:OP2	2.08	0.53
1:A1:1435:G:H4'	1:A1:1436:A:H5'	1.90	0.53
1:A1:772:G:C5	1:A1:773:C:C4	2.96	0.53
1:A1:791:A:C4	1:A1:792:U:H5	2.27	0.53
29:B1:661:G:C2	29:B1:802:C:H6	2.26	0.53
29:B1:2331:C:H2'	29:B1:2332:A:O4'	2.09	0.53
29:D1:2929:C:C6	29:D1:2929:C:H3'	2.44	0.53
14:CM:57:ARG:O	14:CM:58:ALA:CB	2.56	0.53
33:DB:82:VAL:O	33:DB:83:HIS:C	2.46	0.53
31:B3:34:U:C3'	31:B3:34:U:C2	2.84	0.53
15:AN:24:ILE:HA	15:AN:115:GLU:O	2.08	0.53
29:B1:176:G:O2'	29:B1:177:U:C6	2.60	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DD:191:LYS:O	35:DD:192:GLY:C	2.47	0.53
29:D1:2218:G:C6	29:D1:2228:A:C6	2.96	0.53
3:CB:65:GLU:O	3:CB:66:PHE:CB	2.55	0.53
37:DF:120:ASN:O	37:DF:121:LEU:CB	2.57	0.53
42:DK:74:PRO:C	42:DK:76:ALA:H	2.11	0.53
72:DL:107:ASP:C	72:DL:109:ILE:H	2.11	0.53
10:CI:20:VAL:O	10:CI:24:LYS:C	2.46	0.53
1:C1:1058:U:O2	1:C1:1060:U:H5'	2.08	0.53
38:DG:41:ARG:C	38:DG:43:ILE:N	2.60	0.53
21:CT:42:LEU:O	21:CT:60:SER:HA	2.09	0.53
55:DZ:51:LEU:O	55:DZ:53:LYS:N	2.37	0.53
2:CA:201:LEU:O	2:CA:202:TYR:CB	2.56	0.53
29:D1:632:G:H2'	29:D1:633:C:O5'	2.08	0.53
38:DG:242:SER:O	38:DG:243:MET:CB	2.57	0.53
1:A1:1107:G:O2'	1:A1:1108:G:OP1	2.27	0.53
1:A1:8:U:O2'	74:A1:1976:OHX:N5	2.41	0.53
1:A1:475:A:OP2	1:A1:475:A:H8	1.92	0.53
1:A1:488:G:C2	1:A1:489:C:O2	2.61	0.53
1:A1:15:U:O4'	1:A1:619:A:C2	2.61	0.53
1:A1:872:G:C2	1:A1:873:U:H1'	2.43	0.53
1:A1:966:A:O2'	1:A1:967:A:O5'	2.23	0.53
29:B1:980:A:N6	29:B1:1104:G:C8	2.64	0.53
29:B1:1199:C:N3	74:B1:3587:OHX:N6	2.57	0.53
29:B1:1289:G:H2'	29:B1:1290:A:O4'	2.09	0.53
29:B1:1289:G:N3	29:B1:1290:A:C8	2.77	0.53
29:B1:1202:A:C6	29:B1:1301:A:C4	2.96	0.53
29:B1:1780:G:C2	29:B1:1781:C:C4	2.96	0.53
29:B1:197:G:C4	29:B1:395:A:C8	2.97	0.53
29:B1:2252:A:C2	29:B1:2253:G:C4	2.97	0.53
29:B1:1899:G:O2'	29:B1:2334:U:O4	2.24	0.53
29:B1:2423:U:H2'	29:B1:2424:A:H8	1.71	0.53
29:B1:258:G:N2	29:B1:259:C:N1	2.57	0.53
29:B1:2607:G:N1	29:B1:2608:G:C5	2.76	0.53
29:B1:2833:A:C2	29:B1:2834:G:C8	2.97	0.53
29:B1:2850:G:H5''	29:B1:2850:G:C8	2.44	0.53
29:B1:2933:A:N6	29:B1:2934:A:C2	2.77	0.53
29:B1:2959:C:C5'	29:B1:2960:C:OP2	2.57	0.53
29:B1:2945:G:C8	29:B1:2979:U:O2	2.62	0.53
29:B1:2980:U:O2'	29:B1:2981:U:H5'	2.09	0.53
29:B1:3064:U:O2	29:B1:3065:G:C8	2.62	0.53
29:B1:3086:A:H2'	29:B1:3087:A:H8	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3141:A:C2	29:B1:3143:C:O3'	2.61	0.53
29:B1:3391:A:N1	29:B1:3392:U:C5	2.76	0.53
29:B1:3391:A:N3	29:B1:3392:U:C6	2.76	0.53
29:B1:2998:U:OP1	29:B1:3396:U:O4'	2.27	0.53
29:B1:396:A:H5'	29:B1:396:A:H8	1.74	0.53
29:B1:739:G:C2'	29:B1:740:G:H8	2.20	0.53
29:B1:761:A:H61	29:B1:770:G:H22	1.56	0.53
29:B1:877:C:H3'	29:B1:877:C:H6	1.74	0.53
37:BF:152:THR:HA	37:BF:156:LYS:CB	2.39	0.53
1:C1:1001:A:C8	1:C1:1002:G:N7	2.76	0.53
1:C1:185:U:H2'	1:C1:186:C:O4'	2.09	0.53
1:C1:515:A:P	74:C1:1933:OHX:N4	2.82	0.53
1:C1:268:C:N3	1:C1:288:A:C2	2.76	0.53
1:C1:515:A:C2'	1:C1:516:G:OP1	2.55	0.53
1:C1:7:G:H4'	1:C1:573:C:H4'	1.90	0.53
1:C1:604:A:C6	1:C1:605:A:N1	2.76	0.53
1:C1:62:A:H1'	1:C1:63:G:P	2.48	0.53
29:D1:1054:A:C2'	29:D1:1054:A:N3	2.69	0.53
29:D1:1126:G:C2	29:D1:1133:A:C2	2.97	0.53
29:D1:1339:C:C2	29:D1:1340:G:C8	2.97	0.53
29:D1:1461:A:C2'	29:D1:1462:A:H8	2.20	0.53
29:D1:1845:G:H2'	29:D1:1846:C:OP1	2.08	0.53
29:D1:1879:A:P	29:D1:1879:A:H3'	2.49	0.53
29:D1:1884:A:C4	29:D1:1885:U:C2	2.97	0.53
29:D1:2196:C:C4	29:D1:2242:A:N7	2.76	0.53
29:D1:2353:G:N3	29:D1:2354:C:H6	2.06	0.53
29:D1:2356:A:N1	29:D1:2357:A:C4	2.76	0.53
29:D1:26:A:C2'	29:D1:27:C:H6	2.20	0.53
29:D1:2925:C:C6	29:D1:2926:A:C8	2.97	0.53
29:D1:3012:A:C5	29:D1:3013:U:H5	2.26	0.53
29:D1:3101:G:C6	29:D1:3134:A:C2	2.97	0.53
29:D1:3330:A:H2'	29:D1:3331:U:O5'	2.09	0.53
29:D1:556:U:C2'	29:D1:557:A:C1'	2.81	0.53
29:D1:869:G:H3'	29:D1:870:G:H8	1.73	0.53
29:D1:924:G:C8	29:D1:2809:C:O2	2.62	0.53
29:D1:964:G:C6	29:D1:965:A:C5	2.96	0.53
31:D3:53:A:C5	31:D3:54:A:N7	2.77	0.53
29:D1:2990:G:H5'	34:DC:20:LYS:CB	2.38	0.53
36:DE:30:TYR:C	36:DE:32:GLN:N	2.61	0.53
38:DG:85:PHE:O	38:DG:86:VAL:C	2.46	0.53
46:DQ:85:ALA:O	46:DQ:88:VAL:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:222:A:N7	1:A1:223:U:C5	2.77	0.53
1:C1:829:A:H1'	1:C1:830:U:C5'	2.39	0.53
1:C1:829:A:HO2'	1:C1:830:U:P	2.28	0.53
29:B1:2618:G:N2	29:B1:2644:C:O2'	2.41	0.53
29:B1:2730:G:C5	29:B1:2731:U:C5	2.96	0.53
30:B2:113:C:H2'	30:B2:114:U:H6	1.74	0.53
30:B2:14:U:HO2'	30:B2:15:C:C4'	2.22	0.53
30:B2:69:C:C2	30:B2:70:U:C5	2.96	0.53
31:B3:90:U:H3'	31:B3:90:U:OP2	2.09	0.53
1:A1:72:A:C2	1:A1:73:U:C6	2.96	0.53
1:C1:1690:G:H1'	1:C1:1714:A:H2	1.74	0.53
1:C1:246:G:C6	1:C1:247:A:N3	2.75	0.53
1:C1:324:U:H5'	1:C1:324:U:H6	1.73	0.53
1:C1:1379:C:H3'	1:C1:1380:U:H5'	1.89	0.53
1:C1:1473:U:O4'	1:C1:1473:U:O2	2.26	0.53
1:A1:1183:A:C6	1:A1:1184:A:N1	2.77	0.53
1:A1:1196:A:C4'	1:A1:1197:C:C5'	2.86	0.53
1:A1:1197:C:O2	1:A1:1197:C:C2'	2.56	0.53
1:A1:1370:U:N3	1:A1:1371:A:C8	2.77	0.53
1:A1:1491:U:H2'	1:A1:1492:A:H2'	1.91	0.53
1:A1:1561:U:H2'	1:A1:1562:G:H8	1.73	0.53
30:B2:89:G:N2	30:B2:91:G:O5'	2.42	0.53
29:B1:3280:U:C2	29:B1:3281:U:C5	2.96	0.53
31:D3:30:C:O2	31:D3:31:G:C8	2.62	0.53
29:D1:1394:A:H3'	29:D1:1394:A:C8	2.43	0.53
29:D1:3225:C:C4	29:D1:3226:A:N6	2.76	0.53
9:CH:17:ALA:HB2	9:CH:30:VAL:CB	2.39	0.53
1:C1:1310:U:H2'	1:C1:1311:U:H6	1.73	0.53
29:D1:3003:G:N1	29:D1:3004:C:C4	2.76	0.53
1:A1:1754:A:H2'	74:A1:1941:OHX:N1	2.22	0.53
29:D1:1077:U:C2	29:D1:1083:G:N2	2.76	0.53
30:D2:88:G:O6	30:D2:89:G:O6	2.25	0.53
29:D1:2160:G:O6	29:D1:2174:G:O6	2.27	0.53
30:D2:95:A:C2	30:D2:96:U:N3	2.77	0.53
31:B3:151:C:H6	31:B3:151:C:O5'	1.92	0.53
30:D2:5:G:H3'	30:D2:6:C:H5''	1.90	0.53
29:B1:2735:U:O3'	49:BT:50:LYS:CB	2.56	0.53
29:B1:3356:G:C2'	29:B1:3357:U:O5'	2.55	0.53
29:B1:1744:G:O2'	29:B1:1745:C:H5'	2.08	0.53
1:A1:773:C:O2	1:A1:774:A:H8	1.91	0.53
1:A1:788:A:H5''	1:A1:789:A:O5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1024:G:C5	29:B1:1025:A:N7	2.77	0.53
42:BK:84:LEU:O	42:BK:85:LYS:O	2.26	0.53
43:DN:34:ALA:O	43:DN:47:ASP:N	2.42	0.53
1:C1:1400:A:C2	1:C1:1401:A:C4	2.97	0.53
36:BE:194:LEU:C	36:BE:196:ARG:N	2.61	0.53
48:BS:66:HIS:O	48:BS:68:GLN:N	2.41	0.53
13:AL:68:ARG:HA	13:AL:71:GLN:CB	2.38	0.53
5:AD:59:VAL:HA	5:AD:62:VAL:CB	2.38	0.53
34:BC:192:VAL:O	34:BC:195:ALA:N	2.40	0.53
41:BJ:184:LYS:C	41:BJ:186:GLU:N	2.62	0.53
49:DT:50:LYS:C	49:DT:52:MET:N	2.61	0.53
6:AE:100:LYS:O	6:AE:104:PHE:N	2.41	0.53
29:D1:2694:A:H2'	29:D1:2695:A:C1'	2.38	0.53
16:CO:112:ASP:O	16:CO:114:GLU:N	2.41	0.53
38:DG:179:LEU:O	38:DG:180:SER:CB	2.57	0.53
8:CG:119:GLU:O	8:CG:121:ARG:N	2.42	0.53
36:BE:138:GLY:O	36:BE:139:PRO:CB	2.56	0.53
41:DJ:53:VAL:H	41:DJ:164:LYS:CB	2.21	0.53
45:DP:112:TYR:O	45:DP:113:ASP:CB	2.56	0.53
42:BK:91:LEU:O	42:BK:92:ARG:C	2.46	0.53
1:A1:1056:U:C4	1:A1:1057:U:C2	2.96	0.53
1:A1:1110:G:O2'	1:A1:1111:G:O4'	2.24	0.53
1:A1:1149:G:N2	1:A1:1150:G:N7	2.56	0.53
1:A1:387:A:H2'	1:A1:402:C:C6	2.43	0.53
1:A1:44:U:O5'	1:A1:45:U:C5	2.54	0.53
1:A1:473:A:N6	1:A1:474:A:C2	2.77	0.53
1:A1:22:A:C2	1:A1:604:A:C2	2.96	0.53
1:A1:607:G:N7	1:A1:613:G:C5	2.76	0.53
1:A1:816:G:N7	1:A1:817:A:C4	2.77	0.53
1:A1:967:A:O2'	1:A1:968:U:H5'	2.09	0.53
29:B1:1170:A:OP2	74:B1:3537:OHX:N6	2.41	0.53
29:B1:1287:A:H2'	29:B1:1288:U:H5'	1.86	0.53
29:B1:1294:A:C2'	29:B1:1295:G:O5'	2.55	0.53
29:B1:1330:A:N1	29:B1:1332:A:H1'	2.23	0.53
29:B1:1455:U:H3	29:B1:3077:A:P	2.30	0.53
29:B1:14:U:O2	29:B1:14:U:O5'	2.27	0.53
29:B1:1528:G:C5	29:B1:1529:A:N7	2.77	0.53
29:B1:1548:C:H3'	29:B1:1549:U:O4'	2.09	0.53
29:B1:1559:A:N6	29:B1:1579:C:H2'	2.23	0.53
29:B1:2299:A:C6	29:B1:2300:G:N7	2.77	0.53
29:B1:2357:A:H8	29:B1:2357:A:O5'	1.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2407:C:H1'	29:B1:2818:U:O2	2.08	0.53
29:B1:2611:U:C2'	29:B1:2612:U:H6	2.17	0.53
29:B1:2833:A:H2'	29:B1:2833:A:N3	2.23	0.53
29:B1:2876:C:C2	29:B1:2952:G:C2	2.96	0.53
29:B1:3325:G:H2'	29:B1:3326:G:C8	2.43	0.53
29:B1:397:A:N6	29:B1:400:G:N1	2.57	0.53
29:B1:543:C:H3'	29:B1:544:C:H5'	1.91	0.53
29:B1:596:C:C5	29:B1:609:G:H5'	2.43	0.53
1:C1:1047:G:H2'	1:C1:1048:G:H8	1.73	0.53
1:C1:123:G:N1	1:C1:295:A:N6	2.56	0.53
1:C1:1150:G:H5'	1:C1:1765:A:N3	2.23	0.53
1:C1:1150:G:C5	1:C1:1766:A:OP1	2.62	0.53
1:C1:195:G:C1'	1:C1:196:G:OP1	2.57	0.53
1:C1:38:C:H3'	1:C1:39:A:H5''	1.89	0.53
1:C1:452:A:N1	1:C1:454:U:OP2	2.42	0.53
1:C1:516:G:N3	1:C1:516:G:H2'	2.23	0.53
1:C1:549:G:N1	1:C1:550:A:C5	2.77	0.53
1:C1:758:U:H3'	1:C1:759:U:H6	1.74	0.53
1:C1:766:U:H5	1:C1:769:A:OP2	1.92	0.53
1:C1:59:C:N4	1:C1:89:G:N3	2.57	0.53
29:D1:1468:A:HO2'	29:D1:1469:C:P	2.31	0.53
29:D1:1495:U:O3'	29:D1:1514:G:H5'	2.09	0.53
29:D1:1779:C:OP2	29:D1:1780:G:C8	2.61	0.53
29:D1:1902:G:P	29:D1:2918:G:H5'	2.48	0.53
29:D1:2282:U:O2'	29:D1:2283:G:C5'	2.56	0.53
29:D1:2288:G:C6	29:D1:2289:U:O4	2.62	0.53
29:D1:2290:C:C2	29:D1:2291:A:C8	2.95	0.53
29:D1:2420:C:C4	29:D1:2421:U:C4	2.96	0.53
29:D1:2607:G:C6	29:D1:2608:G:C5	2.96	0.53
29:D1:282:G:N3	29:D1:286:U:H5'	2.24	0.53
29:D1:269:G:N1	29:D1:294:U:H5	2.05	0.53
29:D1:29:C:C3'	29:D1:29:C:C6	2.91	0.53
29:D1:3296:A:C2	29:D1:3297:U:C6	2.96	0.53
74:D1:3477:OHX:N3	74:D1:3588:OHX:N2	2.57	0.53
29:D1:414:U:H2'	29:D1:415:G:C8	2.33	0.53
29:D1:420:G:N2	29:D1:2384:A:C4	2.76	0.53
29:D1:516:A:C6	29:D1:517:G:C6	2.97	0.53
29:D1:547:G:C8	29:D1:548:G:C8	2.96	0.53
29:D1:549:U:O2'	29:D1:550:A:O5'	2.21	0.53
29:D1:55:G:O2'	29:D1:56:G:P	2.66	0.53
31:D3:3:A:H2'	31:D3:4:C:C5'	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:51:ALA:HB3	34:DC:79:VAL:HA	1.88	0.53
44:DO:83:LYS:N	44:DO:85:THR:N	2.55	0.53
1:A1:737:A:O2'	1:A1:738:G:OP2	2.27	0.53
29:B1:2727:A:H2	29:B1:2729:U:C5	2.25	0.53
1:A1:129:U:C4	1:A1:264:G:C5	2.96	0.53
1:A1:282:C:C2'	1:A1:283:U:H5'	2.36	0.53
1:A1:85:A:H2	1:A1:148:A:N3	2.06	0.53
1:C1:1268:G:O2'	1:C1:1269:U:H3'	2.08	0.53
1:C1:1466:G:C5	1:C1:1467:C:C4	2.96	0.53
1:A1:1155:G:C6	1:A1:1156:C:N4	2.77	0.53
1:A1:1198:G:H5''	1:A1:1199:G:H8	1.74	0.53
1:A1:1377:U:H2'	1:A1:1378:U:C3'	2.39	0.53
1:A1:1448:G:C2'	1:A1:1449:U:H5'	2.39	0.53
1:A1:1481:C:H1'	1:A1:1482:C:C5'	2.38	0.53
11:AJ:133:GLY:O	11:AJ:134:ALA:HB3	2.09	0.53
29:B1:3228:C:H3'	29:B1:3229:G:C8	2.43	0.53
37:BF:40:LEU:CA	37:BF:85:ILE:HA	2.37	0.53
29:D1:3184:A:H2'	29:D1:3187:A:O2'	2.08	0.53
30:D2:28:C:C2'	30:D2:28:C:O2	2.56	0.53
29:D1:1394:A:C2'	29:D1:1395:G:O5'	2.56	0.53
29:B1:1253:U:C2	29:B1:1264:G:H5''	2.43	0.53
29:D1:3175:U:O4'	29:D1:3175:U:O2	2.26	0.53
29:D1:3228:C:C2'	29:D1:3229:G:C8	2.92	0.53
30:D2:48:U:H2'	30:D2:49:G:N7	2.23	0.53
36:BE:111:GLN:H	36:BE:114:GLY:CA	2.22	0.53
36:BE:111:GLN:H	36:BE:115:LEU:N	2.06	0.53
29:D1:1250:G:C2	29:D1:1251:A:C2	2.96	0.53
29:B1:2590:A:C5	29:B1:2591:A:C8	2.96	0.53
4:CC:64:ARG:O	4:CC:68:GLU:CB	2.56	0.53
29:D1:3242:G:C2'	29:D1:3246:G:H22	2.22	0.53
1:C1:1390:U:O4'	1:C1:1413:U:C2	2.61	0.53
29:B1:1075:A:C8	29:B1:1076:C:H6	2.23	0.53
1:A1:1392:U:O2'	1:A1:1393:C:H5'	2.08	0.53
29:D1:645:A:C6	29:D1:649:A:N7	2.76	0.53
30:D2:5:G:C3'	30:D2:6:C:H5''	2.39	0.53
29:B1:252:U:H3'	29:B1:253:A:H5'	1.90	0.53
36:BE:134:ALA:H	36:BE:135:VAL:HA	1.73	0.53
1:A1:1325:A:C2	1:A1:1326:A:N7	2.77	0.53
29:D1:1716:U:C2'	29:D1:1716:U:O2	2.57	0.53
1:C1:1124:A:N1	1:C1:1125:A:C2	2.77	0.53
1:A1:789:A:C4	1:A1:790:U:C5	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CL:124:GLY:C	13:CL:126:ARG:N	2.58	0.53
29:B1:2601:A:O2'	29:B1:2602:G:C5'	2.56	0.53
29:D1:2883:U:H6	29:D1:2883:U:O5'	1.90	0.53
29:D1:1493:G:N3	29:D1:1493:G:O4'	2.41	0.53
29:D1:839:C:H2'	29:D1:840:C:C6	2.43	0.53
29:D1:2599:U:C2	29:D1:2600:C:C5	2.97	0.53
50:BU:134:GLY:O	50:BU:135:VAL:O	2.27	0.53
29:D1:2968:G:O2'	29:D1:2969:A:H5'	2.09	0.53
29:B1:295:A:N7	29:B1:296:A:C2	2.77	0.53
34:DC:165:GLN:O	34:DC:166:ILE:C	2.46	0.53
29:D1:2530:G:O2'	29:D1:2531:C:P	2.67	0.53
29:D1:245:U:O4'	29:D1:245:U:O2	2.27	0.53
48:BS:127:SER:C	48:BS:129:GLY:H	2.12	0.53
46:BQ:33:ALA:C	46:BQ:35:ALA:N	2.62	0.53
35:DD:193:LYS:C	35:DD:195:ARG:H	2.12	0.53
45:BP:94:ARG:O	45:BP:95:GLY:C	2.46	0.53
45:DP:81:TYR:O	45:DP:82:LYS:C	2.46	0.53
35:BD:238:LEU:O	35:BD:239:ALA:HB2	2.08	0.53
45:DP:47:PHE:O	45:DP:48:PHE:C	2.47	0.53
7:CF:93:TYR:O	7:CF:94:ILE:CB	2.56	0.53
10:AI:92:SER:O	10:AI:106:GLU:HA	2.08	0.53
29:D1:1007:U:H2'	29:D1:1007:U:O2	2.07	0.53
33:BB:236:GLY:O	33:BB:237:LEU:C	2.47	0.53
1:A1:1075:C:N4	1:A1:1076:A:C6	2.77	0.53
1:A1:606:A:N7	1:A1:608:U:C5	2.63	0.53
29:B1:1145:G:N7	29:B1:1146:C:C5	2.76	0.53
29:B1:1199:C:H4'	29:B1:1200:A:OP2	2.08	0.53
29:B1:1296:C:HO2'	29:B1:1297:C:P	2.32	0.53
29:B1:1399:A:N6	31:B3:7:U:O2'	2.41	0.53
29:B1:1683:A:N7	29:B1:1684:U:C4	2.77	0.53
29:B1:2141:U:O2	29:B1:2956:A:C6	2.61	0.53
29:B1:2255:A:C4'	29:B1:2256:A:OP1	2.56	0.53
29:B1:2271:A:C3'	29:B1:2272:G:C5'	2.86	0.53
29:B1:2778:G:O6	29:B1:2779:A:N6	2.41	0.53
29:B1:279:U:O2	29:B1:280:U:C2	2.62	0.53
29:B1:287:G:C4	29:B1:288:C:C6	2.97	0.53
29:B1:3014:U:O2'	29:B1:3015:G:H5'	2.09	0.53
29:B1:3104:U:C2	29:B1:3129:A:N7	2.77	0.53
29:B1:2912:G:C1'	29:B1:3131:U:H5'	2.39	0.53
29:B1:3153:U:H5''	29:B1:3293:U:H6	1.73	0.53
29:B1:517:G:OP2	29:B1:518:G:OP2	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:597:G:C6	29:B1:607:A:N1	2.77	0.53
29:B1:637:C:C2	29:B1:638:C:C4	2.97	0.53
29:B1:719:U:O2	29:B1:719:U:O4'	2.25	0.53
29:B1:773:G:O2'	29:B1:774:G:H5'	2.08	0.53
29:B1:806:A:C2	29:B1:807:A:C2	2.97	0.53
29:B1:815:G:N1	29:B1:906:A:C2	2.77	0.53
31:B3:35:C:O2'	31:B3:36:G:H5'	2.08	0.53
33:BB:172:GLY:O	33:BB:174:ARG:N	2.42	0.53
54:BY:27:LYS:O	54:BY:29:PRO:N	2.42	0.53
1:C1:15:U:O2'	1:C1:16:G:H5'	2.08	0.53
1:C1:178:U:OP1	1:C1:178:U:O4'	2.26	0.53
1:C1:184:C:C5	1:C1:202:A:H2	2.26	0.53
1:C1:607:G:C5'	1:C1:613:G:N2	2.71	0.53
1:C1:62:A:C2	1:C1:63:G:C5	2.97	0.53
1:C1:869:A:C5	1:C1:870:C:C5	2.96	0.53
29:D1:1168:U:H2'	29:D1:1169:A:H5'	1.90	0.53
29:D1:1180:A:C6	29:D1:1182:A:N7	2.77	0.53
29:D1:1327:C:O2'	29:D1:1328:C:H5'	2.09	0.53
29:D1:1168:U:C2	29:D1:1332:A:C2	2.97	0.53
29:D1:1337:A:C4	29:D1:1338:C:C6	2.96	0.53
29:D1:1342:C:O2	29:D1:1342:C:C2'	2.53	0.53
29:D1:2260:U:H4'	29:D1:2261:G:OP2	2.07	0.53
29:D1:2405:C:O2	29:D1:2406:C:C6	2.62	0.53
29:D1:2614:G:N3	29:D1:2797:C:C6	2.76	0.53
29:D1:2836:C:C5	29:D1:2853:A:C2	2.97	0.53
29:D1:2892:A:O4'	29:D1:3130:A:C8	2.61	0.53
29:D1:2374:C:C4	29:D1:2941:A:N3	2.77	0.53
29:D1:2992:U:H5''	29:D1:2992:U:H6	1.73	0.53
29:D1:3024:A:H3'	29:D1:3025:C:C6	2.43	0.53
29:D1:3121:U:C4'	29:D1:3122:A:H5'	2.39	0.53
29:D1:3113:A:H2	29:D1:3122:A:C4	2.25	0.53
29:D1:3137:C:H3'	29:D1:3138:U:H6	1.74	0.53
29:D1:331:G:N1	29:D1:332:C:C4	2.77	0.53
29:D1:3321:C:N3	29:D1:3322:A:N7	2.57	0.53
29:D1:3288:G:N7	74:D1:3524:OHX:N2	2.57	0.53
29:D1:354:U:C2'	29:D1:354:U:O2	2.54	0.53
29:D1:48:A:C4	29:D1:50:U:C4	2.97	0.53
29:D1:510:G:C2	29:D1:511:G:C4	2.97	0.53
29:D1:534:U:OP2	29:D1:555:U:N3	2.41	0.53
29:D1:563:U:C6	29:D1:564:G:H5''	2.43	0.53
29:D1:423:A:H61	29:D1:637:C:P	2.31	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:692:A:H2'	29:D1:693:A:H8	1.74	0.53
29:D1:934:G:C5	29:D1:935:U:C5	2.96	0.53
29:D1:945:C:H2'	29:D1:946:U:C6	2.44	0.53
31:D3:144:G:H2'	31:D3:145:U:H5'	1.88	0.53
31:D3:17:A:C4	31:D3:18:U:C6	2.97	0.53
31:D3:4:C:H2'	31:D3:5:U:C5'	2.39	0.53
31:D3:67:U:OP2	31:D3:67:U:H6	1.91	0.53
31:D3:80:A:N3	31:D3:81:U:N3	2.56	0.53
35:DD:84:ARG:CB	35:DD:85:SER:HA	2.38	0.53
29:D1:715:A:H3'	54:DY:115:LYS:CB	2.39	0.53
1:A1:824:G:C6	1:A1:850:A:N3	2.77	0.53
1:C1:652:G:O6	1:C1:683:C:N3	2.42	0.53
1:A1:659:C:H4'	1:A1:660:G:O5'	2.08	0.53
29:B1:2701:U:H1'	29:B1:2705:A:C4	2.44	0.53
1:A1:195:G:O2'	1:A1:196:G:C5'	2.57	0.53
1:A1:89:G:C4	1:A1:90:C:C6	2.96	0.53
30:D2:11:A:C5'	30:D2:13:A:H2'	2.39	0.53
1:C1:1682:U:C2	1:C1:1683:C:C5	2.96	0.53
1:C1:1720:G:C4	1:C1:1721:A:C8	2.97	0.53
1:C1:243:G:H4'	1:C1:243:G:OP1	2.09	0.53
1:C1:339:C:H2'	1:C1:340:U:C6	2.41	0.53
29:D1:2672:G:O2'	42:DK:106:ILE:CB	2.57	0.53
45:DP:124:LEU:CB	45:DP:128:ARG:H	2.20	0.53
1:A1:1684:U:H3'	1:A1:1685:G:C5'	2.38	0.53
1:A1:800:U:H2'	1:A1:801:G:C8	2.43	0.53
1:C1:1207:C:N3	1:C1:1208:A:N6	2.56	0.53
1:C1:1612:U:C4	1:C1:1613:U:H6	2.27	0.53
1:C1:1559:A:H1'	13:CL:135:GLY:HA2	1.90	0.53
1:A1:1204:A:H5'	1:A1:1205:C:H5''	1.90	0.53
1:A1:1209:C:C2	1:A1:1210:C:C5	2.96	0.53
1:A1:1489:U:C5	1:A1:1513:G:C2	2.96	0.53
29:B1:385:A:C2	29:B1:386:A:C4	2.97	0.53
29:D1:3196:U:C5	29:D1:3198:U:C6	2.93	0.53
29:D1:1412:G:H2'	29:D1:1413:G:C8	2.44	0.53
29:B1:1260:A:C4	29:B1:1279:C:H1'	2.44	0.53
31:B3:125:U:C2	74:B3:206:OHX:N2	2.76	0.53
29:D1:1262:G:N7	29:D1:1264:G:C4	2.76	0.53
29:D1:3314:A:H2'	34:DC:119:TYR:H	1.68	0.53
1:C1:1334:U:C2	1:C1:1335:U:C5	2.97	0.53
1:C1:1404:C:H2'	1:C1:1405:G:C8	2.44	0.53
1:A1:887:A:H5''	1:A1:888:U:OP2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1750:A:C5	1:A1:1751:C:C4	2.96	0.53
29:D1:1080:A:C5	29:D1:1082:U:H5''	2.43	0.53
43:DN:76:ALA:C	43:DN:78:THR:H	2.11	0.53
54:BY:111:LYS:CA	54:BY:128:ARG:CB	2.80	0.53
1:C1:1784:C:C2	1:C1:1785:U:C5	2.96	0.53
30:D2:117:A:H2'	30:D2:118:A:H5'	1.91	0.53
29:D1:1864:A:OP1	48:DS:83:GLY:N	2.42	0.53
29:D1:252:U:H3'	29:D1:253:A:H5'	1.90	0.53
29:B1:1933:A:C8	29:B1:1934:G:C8	2.96	0.53
29:B1:1748:G:N1	29:B1:1749:A:N6	2.57	0.53
29:B1:1422:G:C4	29:B1:1423:C:C6	2.97	0.53
29:D1:1695:U:O2'	29:D1:1749:A:N1	2.28	0.53
1:C1:239:C:H1'	1:C1:240:U:C5	2.43	0.53
29:D1:2881:C:H2'	29:D1:2882:U:H6	1.74	0.53
29:D1:1491:A:H2'	29:D1:1492:G:O4'	2.08	0.53
17:CP:127:VAL:CB	17:CP:129:GLY:N	2.71	0.53
29:B1:2561:A:C8	29:B1:2561:A:P	3.02	0.53
45:DP:77:SER:C	45:DP:79:ILE:N	2.61	0.53
29:B1:1724:U:H2'	29:B1:1725:C:H6	1.73	0.53
37:DF:60:ASP:O	37:DF:61:ASN:CB	2.56	0.53
15:CN:102:ARG:C	15:CN:104:THR:N	2.61	0.53
3:AB:237:VAL:O	3:AB:238:SER:C	2.46	0.53
33:BB:18:SER:O	33:BB:20:THR:N	2.41	0.53
3:CB:62:PRO:HA	3:CB:63:VAL:CB	2.39	0.53
29:D1:1868:G:C6	29:D1:1869:C:C4	2.97	0.53
3:AB:83:ILE:HA	3:AB:100:ALA:CB	2.38	0.53
41:BJ:94:PHE:O	41:BJ:126:ALA:O	2.27	0.53
1:A1:1294:G:H2'	1:A1:1295:G:O4'	2.09	0.53
44:BO:26:ARG:O	44:BO:29:GLU:N	2.41	0.53
29:B1:3083:G:H2'	29:B1:3084:C:O4'	2.08	0.53
52:BW:61:LYS:CB	52:BW:62:VAL:HA	2.38	0.53
72:DL:123:ARG:O	72:DL:124:THR:O	2.27	0.53
21:CT:33:LEU:O	21:CT:44:SER:HA	2.08	0.53
5:AD:128:ASN:O	5:AD:130:ILE:N	2.42	0.53
1:A1:1066:C:H2'	1:A1:1067:C:H5'	1.90	0.53
1:A1:1107:G:O2'	1:A1:1108:G:O5'	2.27	0.53
1:A1:559:C:H2'	1:A1:560:U:C6	2.44	0.53
1:A1:595:G:H2'	1:A1:596:C:H6	1.72	0.53
1:A1:620:A:C4	1:A1:621:A:C2	2.97	0.53
1:A1:988:A:C2	1:A1:989:U:C1'	2.92	0.53
29:B1:1156:C:H2'	29:B1:1157:G:H5''	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1295:G:C2'	29:B1:1296:C:H5'	2.38	0.53
29:B1:1507:G:OP2	29:B1:1507:G:O4'	2.27	0.53
29:B1:1685:C:C5	29:B1:1687:U:C4	2.97	0.53
29:B1:1843:C:C2'	29:B1:1844:C:H5'	2.38	0.53
29:B1:1890:U:C2	29:B1:1891:A:C8	2.97	0.53
29:B1:197:G:H8	29:B1:197:G:OP1	1.91	0.53
29:B1:2135:U:N3	29:B1:2136:C:C5	2.77	0.53
29:B1:2269:U:H2'	29:B1:2270:A:H5'	1.90	0.53
29:B1:2270:A:O2'	29:B1:2271:A:H5'	2.08	0.53
29:B1:2420:C:N4	29:B1:2421:U:C4	2.77	0.53
29:B1:2852:C:H5	29:B1:2853:A:C5	2.27	0.53
29:B1:3034:C:H6	29:B1:3034:C:H3'	1.73	0.53
29:B1:3039:C:H2'	29:B1:3040:A:H8	1.74	0.53
29:B1:3110:C:C2	29:B1:3111:U:C5	2.96	0.53
29:B1:3393:U:H2'	29:B1:3394:U:O4'	2.09	0.53
29:B1:762:U:O4	74:B1:3479:OHX:N3	2.42	0.53
29:B1:547:G:H8	29:B1:548:G:C5	2.26	0.53
29:B1:577:C:HO2'	29:B1:578:A:P	2.30	0.53
29:B1:588:G:H4'	29:B1:589:A:H62	1.74	0.53
29:B1:607:A:C2	29:B1:608:A:N9	2.77	0.53
29:B1:815:G:C2	29:B1:906:A:C2	2.96	0.53
29:B1:943:U:O2'	29:B1:944:C:OP1	2.25	0.53
31:B3:11:C:H2'	31:B3:12:A:O4'	2.08	0.53
37:BF:162:SER:C	37:BF:165:LEU:H	2.12	0.53
44:BO:109:ARG:O	44:BO:110:ALA:HB2	2.09	0.53
54:BY:74:ASN:C	54:BY:76:ASP:H	2.12	0.53
1:C1:100:A:H2'	1:C1:101:U:O4'	2.09	0.53
1:C1:1142:A:C2	1:C1:1143:A:N3	2.77	0.53
1:C1:387:A:N3	1:C1:402:C:H5	2.07	0.53
1:C1:15:U:C1'	1:C1:619:A:C2	2.92	0.53
1:C1:965:U:O2'	1:C1:966:A:OP1	2.24	0.53
29:D1:1129:A:N6	29:D1:1130:A:C6	2.76	0.53
29:D1:1313:G:H2'	29:D1:1314:C:C6	2.35	0.53
29:D1:1146:C:H4'	29:D1:1331:U:C5	2.43	0.53
29:D1:1371:G:H5''	29:D1:1371:G:H8	1.74	0.53
29:D1:1798:A:C2	29:D1:1799:A:C5	2.96	0.53
29:D1:2137:U:N3	29:D1:2141:U:C5	2.76	0.53
29:D1:2259:A:H5''	29:D1:2260:U:C5	2.43	0.53
29:D1:422:A:H3'	29:D1:2364:G:H5''	1.90	0.53
29:D1:2414:G:H2'	29:D1:2415:C:H6	1.74	0.53
29:D1:258:G:H1'	29:D1:259:C:H5'	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3000:A:C2	29:D1:3149:G:C6	2.97	0.53
29:D1:386:A:H2'	29:D1:387:A:O5'	2.09	0.53
29:D1:515:C:C2'	29:D1:516:A:H5''	2.39	0.53
29:D1:547:G:H8	29:D1:548:G:N7	2.07	0.53
29:D1:556:U:C5	29:D1:557:A:C2	2.97	0.53
29:D1:595:G:H3'	29:D1:595:G:H8	1.74	0.53
29:D1:749:C:N3	29:D1:750:G:N7	2.57	0.53
29:D1:887:G:C6	29:D1:888:A:C5	2.97	0.53
29:D1:960:U:C2'	29:D1:961:C:O4'	2.56	0.53
38:DG:69:ALA:C	38:DG:71:ALA:H	2.12	0.53
1:A1:703:G:H1'	1:A1:736:C:H42	1.74	0.53
1:C1:690:G:C2'	1:C1:691:C:H5'	2.35	0.53
1:A1:652:G:H5'	1:A1:653:C:OP2	2.09	0.53
30:B2:11:A:O4'	30:B2:13:A:C2'	2.53	0.53
31:B3:56:G:C2	31:B3:57:C:C6	2.97	0.53
1:A1:143:G:C3'	1:A1:144:U:H4'	2.38	0.53
1:A1:215:A:N7	1:A1:216:U:C4	2.77	0.53
1:C1:1537:C:C5'	1:C1:1538:U:OP1	2.57	0.53
1:C1:1553:G:H5''	1:C1:1554:U:OP2	2.08	0.53
1:C1:1203:A:C2	1:C1:1555:A:C2	2.97	0.53
1:C1:1598:U:C4	1:C1:1599:C:H5	2.27	0.53
1:A1:1348:A:C3'	1:A1:1349:G:H5''	2.37	0.53
1:A1:1379:C:C2'	1:A1:1380:U:H5'	2.38	0.53
29:B1:3202:G:N2	29:B1:3203:U:O2	2.41	0.53
30:D2:26:C:O2'	30:D2:27:A:P	2.66	0.53
29:B1:3242:G:N3	29:B1:3242:G:H2'	2.22	0.53
30:B2:47:C:O2	30:B2:48:U:C4	2.62	0.53
29:D1:1388:U:H2'	29:D1:1389:G:H8	1.73	0.53
29:D1:226:C:H4'	53:DX:29:VAL:O	2.09	0.53
29:B1:1237:G:H5''	29:B1:1238:C:O4'	2.09	0.53
29:B1:1280:C:C2'	29:B1:1281:G:H8	2.19	0.53
4:CC:93:ASP:O	4:CC:94:ARG:C	2.46	0.53
1:C1:1295:G:O4'	1:C1:1321:A:C2	2.62	0.53
1:C1:1331:A:H2'	1:C1:1332:C:C5'	2.38	0.53
1:C1:1342:C:O2'	1:C1:1343:U:H5'	2.08	0.53
29:B1:3260:G:O6	29:B1:3261:C:H1'	2.08	0.53
29:B1:1080:A:C2	29:B1:1082:U:O5'	2.62	0.53
1:C1:1650:U:C2'	1:C1:1651:A:H8	2.21	0.53
29:D1:2515:A:H3'	29:D1:2516:U:H5	1.74	0.53
1:A1:1336:A:C5'	1:A1:1337:A:OP2	2.56	0.53
1:A1:1398:U:H4'	1:A1:1399:C:C5	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:895:G:O2'	9:CH:38:THR:CB	2.56	0.53
29:D1:3271:G:C3'	29:D1:3271:G:C4	2.88	0.53
1:A1:1128:C:H2'	1:A1:1129:U:O4'	2.09	0.53
29:B1:2131:A:C3'	29:B1:2132:C:H5''	2.38	0.53
29:B1:802:C:H2'	29:B1:803:C:C6	2.44	0.53
17:CP:129:GLY:O	17:CP:130:VAL:CB	2.56	0.53
1:C1:716:C:N4	1:C1:723:G:C6	2.77	0.53
29:B1:2544:U:H2'	29:B1:2545:C:H6	1.74	0.53
42:DK:10:ARG:O	42:DK:11:ASP:CB	2.56	0.53
29:B1:734:C:H5''	29:B1:735:A:C2	2.44	0.53
1:C1:932:U:H4'	1:C1:933:A:O4'	2.09	0.53
29:D1:1725:C:H2'	29:D1:1726:C:H6	1.70	0.53
51:DV:41:LYS:O	51:DV:43:ARG:N	2.42	0.53
51:DV:43:ARG:O	51:DV:44:LYS:C	2.46	0.53
4:AC:151:LYS:O	4:AC:152:PHE:CB	2.56	0.53
41:DJ:69:ARG:O	41:DJ:70:ILE:O	2.27	0.53
43:DN:70:PHE:O	43:DN:72:LEU:N	2.42	0.53
6:CE:96:VAL:O	6:CE:99:LEU:C	2.47	0.53
36:BE:116:ASP:C	36:BE:118:THR:N	2.60	0.53
35:DD:234:ASN:C	35:DD:236:LEU:H	2.11	0.53
2:CA:54:TRP:O	2:CA:55:GLU:C	2.47	0.53
38:DG:148:VAL:O	38:DG:150:LYS:N	2.41	0.53
45:DP:185:ALA:O	45:DP:186:ALA:HB3	2.07	0.53
15:CN:119:ALA:HB1	15:CN:120:SER:HA	1.91	0.53
44:DO:108:ARG:O	44:DO:110:ALA:N	2.42	0.53
2:AA:203:PHE:O	2:AA:205:ARG:N	2.42	0.53
41:BJ:207:GLU:O	41:BJ:208:ASN:C	2.46	0.53
1:A1:1730:A:HO2'	1:A1:1731:A:H8	1.57	0.53
1:A1:23:G:C5	1:A1:24:U:C4	2.97	0.53
1:A1:50:C:C4	1:A1:424:C:C6	2.97	0.53
1:A1:544:A:C8	1:A1:544:A:OP1	2.62	0.53
1:A1:613:G:H4'	1:A1:614:C:O5'	2.09	0.53
1:A1:624:G:C8	1:A1:1027:A:C6	2.97	0.53
1:A1:866:G:N2	1:A1:965:U:C5	2.76	0.53
29:B1:1150:A:C2'	29:B1:1151:U:O5'	2.57	0.53
29:B1:11:A:C2	31:B3:148:G:N1	2.77	0.53
29:B1:1218:U:C2'	29:B1:1219:C:C5'	2.86	0.53
29:B1:1289:G:C4'	29:B1:1290:A:OP1	2.48	0.53
29:B1:206:G:C5	29:B1:207:U:C5	2.97	0.53
29:B1:2270:A:C2'	29:B1:2271:A:C8	2.89	0.53
29:B1:2290:C:O2'	29:B1:2291:A:O4'	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2291:A:C2	29:B1:2292:U:C2	2.97	0.53
29:B1:2308:C:OP1	29:B1:2309:A:C2'	2.57	0.53
29:B1:2780:A:C2	29:B1:2781:U:N3	2.76	0.53
29:B1:2834:G:N3	29:B1:2835:U:C5	2.76	0.53
29:B1:2904:U:O2	29:B1:2905:U:C6	2.62	0.53
29:B1:303:G:C2	29:B1:313:A:C2	2.97	0.53
29:B1:3088:G:H3'	29:B1:3089:C:C6	2.44	0.53
29:B1:3091:A:O2'	29:B1:3092:C:P	2.66	0.53
29:B1:363:G:C3'	29:B1:364:G:C5'	2.85	0.53
29:B1:42:C:C2'	29:B1:43:A:C5'	2.69	0.53
29:B1:607:A:P	29:B1:607:A:H8	2.31	0.53
29:B1:862:U:O2'	29:B1:863:C:H5'	2.09	0.53
29:B1:914:A:H8	29:B1:914:A:P	2.32	0.53
29:B1:9:U:O4	29:B1:10:C:C5	2.62	0.53
35:BD:8:VAL:N	35:BD:18:ASN:O	2.42	0.53
1:C1:1046:G:C2	1:C1:1047:G:C8	2.97	0.53
1:C1:130:C:C5	1:C1:131:C:H1'	2.44	0.53
1:C1:1777:G:C4	1:C1:1778:G:C8	2.97	0.53
1:C1:103:A:C5	1:C1:360:A:C2	2.97	0.53
1:C1:546:U:O5'	1:C1:546:U:H6	1.92	0.53
1:C1:557:G:OP1	1:C1:558:U:O4'	2.27	0.53
1:C1:77:U:H3'	1:C1:78:A:H5''	1.90	0.53
1:C1:819:G:N1	1:C1:853:G:N2	2.56	0.53
29:D1:1168:U:O2'	29:D1:1169:A:H5''	2.09	0.53
29:D1:115:A:C4	29:D1:116:A:N1	2.77	0.53
29:D1:1224:C:N4	29:D1:1286:A:C2	2.76	0.53
29:D1:943:U:N1	29:D1:1432:C:C5	2.77	0.53
29:D1:1461:A:N6	29:D1:1462:A:N6	2.57	0.53
29:D1:1468:A:C2	29:D1:1469:C:N3	2.76	0.53
29:D1:151:A:H2'	29:D1:152:U:H5	1.73	0.53
29:D1:154:U:OP1	29:D1:156:G:O6	2.27	0.53
29:D1:1594:A:H1'	29:D1:1615:C:C1'	2.38	0.53
29:D1:13:A:H2	29:D1:15:C:H2'	1.74	0.53
29:D1:1857:C:OP2	29:D1:1857:C:C6	2.61	0.53
29:D1:1480:G:N2	29:D1:1871:U:OP2	2.42	0.53
29:D1:2116:G:C2	29:D1:3064:U:H5''	2.44	0.53
29:D1:2271:A:C3'	29:D1:2272:G:C5'	2.87	0.53
29:D1:3327:G:N7	29:D1:3328:G:O6	2.42	0.53
29:D1:3333:G:N2	29:D1:3371:G:O4'	2.37	0.53
29:D1:2254:U:N3	74:D1:3583:OHX:N5	2.56	0.53
29:D1:389:A:H2'	29:D1:390:G:O4'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:550:A:C6	29:D1:551:A:C6	2.97	0.53
29:D1:569:A:C2	29:D1:570:A:H1'	2.43	0.53
29:D1:581:U:O2	29:D1:581:U:C2'	2.57	0.53
29:D1:609:G:O2'	29:D1:610:G:C5'	2.52	0.53
29:D1:717:C:N4	29:D1:721:G:OP1	2.42	0.53
29:D1:806:A:C2	29:D1:807:A:C2	2.97	0.53
29:D1:880:G:O2'	29:D1:881:C:C5	2.62	0.53
31:D3:48:A:C6	31:D3:51:G:C5	2.97	0.53
31:D3:78:G:H8	31:D3:78:G:O5'	1.92	0.53
40:DI:170:LYS:O	40:DI:172:ILE:N	2.42	0.53
1:C1:651:G:N7	74:C1:1970:OHX:N3	2.57	0.53
1:C1:647:G:N2	1:C1:687:G:C2	2.77	0.53
1:A1:652:G:O6	1:A1:683:C:N3	2.41	0.53
29:B1:2629:U:C2	29:B1:2630:C:C5	2.97	0.53
31:B3:93:U:O3'	31:B3:94:C:O4'	2.27	0.53
49:BT:80:VAL:O	49:BT:81:GLY:O	2.27	0.53
1:A1:207:U:H3	1:A1:258:C:H42	1.57	0.53
1:A1:59:C:C4	1:A1:62:A:N6	2.75	0.53
30:D2:13:A:N3	30:D2:13:A:H2'	2.24	0.53
1:C1:1720:G:O4'	1:C1:1720:G:P	2.67	0.53
1:A1:1689:A:N3	1:A1:1689:A:C2'	2.72	0.53
1:A1:1720:G:H2'	1:A1:1721:A:H8	1.72	0.53
1:A1:302:U:N3	1:A1:303:U:O2	2.42	0.53
1:C1:1259:U:C2'	1:C1:1260:U:O5'	2.57	0.53
1:C1:1469:A:C6	1:C1:1470:C:N4	2.77	0.53
1:C1:1538:U:H2'	1:C1:1539:G:H3'	1.91	0.53
1:C1:1543:A:C8	1:C1:1569:A:N6	2.76	0.53
15:CN:58:LEU:O	15:CN:59:PRO:CB	2.55	0.53
1:A1:1469:A:C6	1:A1:1470:C:N4	2.77	0.53
1:A1:1503:A:N1	10:AI:13:LYS:HA	2.23	0.53
1:C1:1056:U:C4	1:C1:1057:U:C2	2.97	0.53
29:B1:3207:U:C3'	29:B1:3208:G:H5'	2.39	0.53
29:B1:3213:A:O2'	29:B1:3214:U:C5	2.62	0.53
29:B1:3282:U:HO2'	29:B1:3283:U:H5	1.49	0.53
29:B1:3025:C:C2'	29:B1:3026:G:H5'	2.39	0.53
29:D1:398:A:N3	29:D1:1416:C:OP1	2.42	0.53
29:D1:2522:G:O2'	29:D1:2523:A:OP1	2.17	0.53
29:D1:69:C:O2	29:D1:69:C:C2'	2.57	0.53
29:B1:845:G:H2'	29:B1:846:A:O5'	2.09	0.53
1:C1:1416:G:H2'	1:C1:1417:A:O4'	2.09	0.53
34:DC:93:VAL:O	34:DC:94:GLU:O	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:702:G:H5'	1:C1:703:G:OP2	2.08	0.53
47:DR:116:LYS:O	47:DR:117:ALA:C	2.47	0.53
17:CP:109:ARG:H	17:CP:110:LYS:CA	2.12	0.53
29:D1:1953:G:C8	29:D1:2093:A:C6	2.97	0.53
1:A1:1124:A:N6	1:A1:1125:A:C6	2.77	0.53
29:D1:2173:U:C4	29:D1:2174:G:C6	2.96	0.53
1:C1:899:G:N2	1:C1:915:A:C2	2.76	0.53
30:B2:5:G:H3'	30:B2:6:C:H5''	1.91	0.53
29:B1:1040:A:N6	29:B1:1041:U:C5	2.77	0.53
29:D1:1921:A:C5	29:D1:1929:G:N2	2.77	0.53
1:A1:1292:G:H2'	1:A1:1293:U:H6	1.73	0.53
29:D1:1638:A:H2	29:D1:1736:G:N3	2.06	0.53
29:B1:1348:U:O2'	29:B1:1349:G:OP2	2.27	0.53
1:A1:760:A:N6	1:A1:761:G:C2	2.76	0.53
42:BK:84:LEU:HA	42:BK:89:TYR:N	2.23	0.53
1:C1:1263:G:C4	1:C1:1264:G:C8	2.97	0.53
2:AA:17:LEU:O	2:AA:20:ALA:N	2.29	0.53
43:BN:62:GLN:O	43:BN:63:VAL:O	2.27	0.53
46:DQ:31:GLU:O	46:DQ:35:ALA:HB2	2.09	0.53
45:DP:187:GLU:O	45:DP:188:SER:C	2.47	0.53
29:B1:2572:C:C6	74:B1:3558:OHX:N5	2.77	0.53
29:B1:232:G:C6	29:B1:233:C:C4	2.96	0.53
29:B1:97:U:C6	29:B1:97:U:C5'	2.92	0.53
42:BK:139:THR:C	42:BK:141:ARG:N	2.63	0.53
29:B1:729:C:O5'	29:B1:729:C:H6	1.92	0.53
54:DY:84:GLU:CA	54:DY:85:ASP:CB	2.87	0.53
45:DP:93:ALA:O	45:DP:94:ARG:C	2.48	0.53
6:AE:131:GLN:O	6:AE:133:HIS:N	2.38	0.53
36:BE:188:GLU:CB	36:BE:189:GLU:CA	2.87	0.53
29:B1:869:G:H3'	29:B1:870:G:H8	1.74	0.53
4:CC:191:ASP:C	4:CC:193:ALA:H	2.11	0.53
21:AT:92:TRP:HA	21:AT:100:TYR:H	1.73	0.53
1:A1:430:G:H2'	1:A1:431:C:H6	1.74	0.53
1:A1:1101:G:O2'	1:A1:1102:G:H5'	2.09	0.53
1:A1:297:U:C2'	1:A1:298:C:O5'	2.55	0.53
29:B1:1145:G:C4	29:B1:1160:C:C4	2.97	0.53
29:B1:1319:G:O2'	29:B1:1320:C:H5''	2.09	0.53
29:B1:1439:U:C2	29:B1:1440:G:C8	2.97	0.53
29:B1:1506:A:C6	29:B1:1513:G:N1	2.77	0.53
29:B1:1841:A:N1	29:B1:1848:G:C5	2.77	0.53
29:B1:1900:A:C2	29:B1:1906:G:N9	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2275:A:C2	29:B1:2312:A:C4	2.97	0.53
29:B1:2324:A:H5''	29:B1:2325:G:P	2.49	0.53
29:B1:2783:U:H2'	29:B1:2784:G:O5'	2.08	0.53
29:B1:2841:G:C4	29:B1:2844:C:N4	2.77	0.53
29:B1:2868:U:C4	29:B1:2869:U:H5	2.27	0.53
29:B1:2967:A:O2'	29:B1:2968:G:OP1	2.24	0.53
29:B1:2980:U:C2	29:B1:2981:U:C6	2.97	0.53
29:B1:3009:G:C2'	29:B1:3010:U:H5'	2.39	0.53
29:B1:3320:A:C5	29:B1:3321:C:C4	2.97	0.53
29:B1:3366:G:H2'	29:B1:3367:C:C6	2.44	0.53
29:B1:3376:A:C4'	29:B1:3376:A:OP2	2.56	0.53
29:B1:3316:A:N6	29:B1:3387:U:H3	2.06	0.53
29:B1:352:A:C1'	29:B1:354:U:C6	2.92	0.53
29:B1:717:C:C4	29:B1:721:G:OP1	2.61	0.53
29:B1:889:U:H2'	29:B1:890:C:C6	2.43	0.53
29:B1:980:A:H2'	29:B1:981:U:O4'	2.09	0.53
29:B1:6:A:N1	31:B3:154:C:C2	2.77	0.53
31:B3:9:A:H3'	31:B3:10:A:H8	1.74	0.53
43:BN:76:ALA:O	43:BN:78:THR:N	2.42	0.53
1:C1:1012:U:H6	1:C1:1012:U:O5'	1.92	0.53
1:C1:1138:A:N3	1:C1:1139:A:N7	2.56	0.53
1:C1:130:C:C6	1:C1:131:C:H4'	2.44	0.53
1:C1:1631:A:C2'	1:C1:1632:C:O4'	2.38	0.53
1:C1:1793:G:H4'	1:C1:1793:G:OP1	2.09	0.53
1:C1:380:U:O2'	1:C1:381:C:H6	1.91	0.53
1:C1:553:G:N2	1:C1:572:C:N3	2.56	0.53
29:D1:1192:C:O2'	29:D1:1193:A:H1'	2.08	0.53
29:D1:11:A:C2	31:D3:148:G:N1	2.77	0.53
29:D1:1453:A:C8	29:D1:1850:A:C2	2.97	0.53
29:D1:1461:A:C6	29:D1:1462:A:C6	2.97	0.53
29:D1:157:A:C2'	29:D1:158:G:C5	2.91	0.53
29:D1:1787:A:H3'	29:D1:1788:C:H5''	1.91	0.53
29:D1:2618:G:N2	29:D1:2644:C:O2'	2.42	0.53
29:D1:2654:C:C5'	29:D1:2657:A:C6	2.92	0.53
29:D1:2778:G:N3	29:D1:2778:G:H2'	2.24	0.53
29:D1:284:A:H2	29:D1:306:A:N9	2.07	0.53
29:D1:2922:G:H2'	29:D1:2923:U:O4'	2.09	0.53
29:D1:3009:G:C6	29:D1:3010:U:C4	2.97	0.53
29:D1:3026:G:N2	29:D1:3030:G:C6	2.77	0.53
29:D1:3100:U:O2'	29:D1:3101:G:H8	1.92	0.53
29:D1:3344:A:H2	29:D1:3360:C:N4	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:49:A:O2'	29:D1:50:U:P	2.67	0.53
29:D1:552:G:C6	29:D1:553:U:C4	2.97	0.53
29:D1:424:G:C6	29:D1:635:G:N2	2.77	0.53
29:D1:62:A:C5	29:D1:63:A:N7	2.78	0.53
29:D1:721:G:C3'	29:D1:721:G:N3	2.71	0.53
29:D1:756:U:C5'	29:D1:757:C:OP2	2.57	0.53
29:D1:815:G:C2	29:D1:906:A:C2	2.97	0.53
31:D3:113:U:O2'	31:D3:114:G:P	2.66	0.53
33:DB:172:GLY:O	33:DB:173:GLY:C	2.46	0.53
1:A1:848:C:H2'	1:A1:849:C:H6	1.73	0.53
1:A1:647:G:N2	1:A1:687:G:C2	2.76	0.53
29:B1:2762:A:C4	29:B1:2763:U:C5	2.97	0.53
29:B1:957:C:C2	29:B1:958:C:C5	2.97	0.53
29:B1:993:G:N2	29:B1:2638:C:OP2	2.41	0.53
30:B2:105:C:O2	30:B2:105:C:C2'	2.48	0.53
30:B2:12:U:C4	30:B2:70:U:OP1	2.62	0.53
34:BC:41:VAL:O	34:BC:42:ALA:O	2.26	0.53
30:D2:60:G:C4	30:D2:61:G:N7	2.77	0.53
1:C1:114:C:H42	1:C1:250:C:C1'	2.22	0.53
1:C1:1504:G:C6	1:C1:1505:A:N1	2.77	0.53
1:C1:1485:C:H42	1:C1:1592:A:H4'	1.74	0.53
29:B1:3209:A:C2'	29:B1:3210:A:C8	2.92	0.53
29:D1:624:G:H2'	29:D1:625:G:H5'	1.91	0.53
29:D1:3187:A:N1	29:D1:3188:G:C5	2.77	0.53
29:D1:404:G:C2'	29:D1:405:U:H5'	2.38	0.53
30:B2:38:U:C2'	30:B2:40:C:C5'	2.86	0.53
29:D1:218:G:H8	29:D1:218:G:OP1	1.92	0.53
30:B2:26:C:O2'	30:B2:27:A:P	2.67	0.53
1:C1:413:U:N3	1:C1:421:A:C2	2.76	0.53
29:B1:2233:A:C8	29:B1:2234:G:C8	2.97	0.53
29:D1:3349:C:C4	29:D1:3350:C:N4	2.77	0.53
1:C1:1336:A:C6	1:C1:1416:G:O6	2.62	0.53
2:CA:17:LEU:O	2:CA:20:ALA:N	2.29	0.53
29:B1:1097:G:O3'	29:B1:1098:A:C4'	2.57	0.53
29:D1:1079:A:N6	29:D1:1080:A:N6	2.56	0.53
9:AH:21:ALA:HB2	9:AH:26:THR:HA	1.90	0.53
30:B2:2:G:C2	30:B2:3:U:C5	2.96	0.53
29:B1:2882:U:H2'	29:B1:2883:U:C5'	2.37	0.53
39:BH:99:PRO:CA	39:BH:237:ILE:H	2.22	0.53
29:B1:2105:G:H2'	29:B1:2106:A:O4'	2.09	0.53
5:CD:162:VAL:O	5:CD:164:PRO:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1352:A:H3'	29:D1:1353:U:C4'	2.38	0.53
29:B1:1341:U:H2'	29:B1:1342:C:C6	2.43	0.53
29:B1:1928:G:C5	29:B1:1929:G:C8	2.96	0.53
29:D1:836:A:C5	29:D1:837:A:N7	2.77	0.53
6:AE:68:LYS:C	6:AE:70:LEU:N	2.60	0.53
29:D1:1029:G:H2'	29:D1:1030:A:H5'	1.91	0.53
29:D1:1704:A:N6	29:D1:1739:U:N3	2.57	0.53
29:D1:2883:U:C2'	29:D1:2884:C:H6	2.18	0.53
43:BN:24:LYS:HA	43:BN:31:LYS:C	2.28	0.53
29:B1:1537:A:C4	29:B1:1538:G:C8	2.97	0.53
5:CD:63:GLN:O	5:CD:64:VAL:CB	2.57	0.53
1:A1:1667:A:C2	1:A1:1668:G:C5	2.96	0.53
29:B1:1724:U:O2'	29:B1:1725:C:O5'	2.27	0.53
1:C1:734:A:C5	1:C1:735:C:C2	2.96	0.53
54:BY:84:GLU:CA	54:BY:85:ASP:CB	2.87	0.53
29:B1:176:G:O2'	29:B1:177:U:H6	1.92	0.53
29:D1:2443:A:C5	29:D1:2444:C:C4	2.96	0.53
74:B1:3544:OHX:N6	74:B1:3617:OHX:N1	2.57	0.53
2:AA:86:VAL:O	2:AA:88:LYS:N	2.42	0.53
29:D1:1700:G:H2'	29:D1:1701:C:C6	2.43	0.53
17:AP:58:GLY:HA2	17:AP:71:CYS:H	1.73	0.53
34:DC:220:VAL:O	34:DC:221:THR:CB	2.56	0.53
1:C1:1225:U:C5	1:C1:1226:A:C5	2.97	0.53
35:BD:134:LEU:O	35:BD:136:LEU:N	2.42	0.53
39:BH:230:LYS:N	39:BH:231:LYS:C	2.63	0.53
1:C1:1697:G:O6	1:C1:1709:C:N3	2.42	0.53
18:AQ:66:VAL:C	18:AQ:68:ARG:H	2.12	0.53
1:C1:502:U:H2'	1:C1:503:G:C8	2.44	0.53
44:BO:136:ASP:O	44:BO:139:HIS:CB	2.57	0.53
2:AA:116:LYS:O	2:AA:117:GLU:CB	2.56	0.53
39:BH:157:VAL:CB	39:BH:160:ILE:HA	2.39	0.53
51:BV:33:ASN:O	51:BV:35:LYS:N	2.42	0.53
47:BR:62:VAL:O	47:BR:87:VAL:HA	2.09	0.53
50:BU:105:PRO:C	50:BU:107:GLY:N	2.59	0.53
13:CL:29:VAL:O	13:CL:43:SER:CB	2.57	0.53
45:BP:15:LEU:HA	45:BP:42:ASN:O	2.09	0.53
41:DJ:207:GLU:O	41:DJ:208:ASN:C	2.47	0.53
42:DK:114:ILE:O	42:DK:115:LYS:O	2.27	0.53
74:B1:3576:OHX:N5	74:B1:3607:OHX:N6	2.57	0.53
1:A1:1002:G:N1	1:A1:1003:A:N1	2.56	0.52
1:A1:1147:A:C4	1:A1:1148:C:C6	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:381:C:H5''	1:A1:382:C:OP2	2.08	0.52
1:A1:93:A:OP2	1:A1:403:G:OP1	2.27	0.52
1:A1:445:A:C2	1:A1:446:A:C5	2.97	0.52
1:A1:511:A:C4'	1:A1:512:A:OP2	2.56	0.52
1:A1:605:A:H62	1:A1:606:A:N6	2.05	0.52
1:A1:961:U:H4'	8:AG:36:GLN:O	2.09	0.52
1:A1:989:U:C2'	1:A1:990:C:H6	2.15	0.52
29:B1:1174:G:C2	29:B1:1175:C:C4	2.96	0.52
29:B1:1414:G:C2	29:B1:1415:U:H1'	2.45	0.52
29:B1:1501:U:H6	29:B1:1501:U:OP2	1.91	0.52
29:B1:1878:G:H3'	29:B1:1879:A:H5'	1.91	0.52
29:B1:2149:A:C8	29:B1:2149:A:C3'	2.93	0.52
29:B1:2300:G:C6	29:B1:2301:U:C4	2.97	0.52
29:B1:2346:C:O2'	29:B1:2347:U:H5'	2.09	0.52
29:B1:2391:G:C6	29:B1:2392:C:N3	2.77	0.52
29:B1:258:G:O2'	29:B1:259:C:P	2.67	0.52
29:B1:2986:U:H2'	29:B1:2987:A:C8	2.37	0.52
29:B1:2987:A:C2'	29:B1:2988:C:H6	2.05	0.52
29:B1:3004:C:C2'	29:B1:3005:A:O5'	2.57	0.52
29:B1:3006:A:H2	29:B1:3141:A:C2	2.27	0.52
29:B1:3160:U:N3	29:B1:3161:C:C5	2.77	0.52
29:B1:3323:A:C2	29:B1:3324:C:N1	2.77	0.52
29:B1:3392:U:N3	29:B1:3393:U:N3	2.55	0.52
29:B1:423:A:C8	29:B1:423:A:O5'	2.62	0.52
29:B1:548:G:C6	29:B1:549:U:C2	2.97	0.52
29:B1:548:G:H2'	29:B1:549:U:C4'	2.38	0.52
29:B1:606:C:H6	29:B1:606:C:C5'	2.22	0.52
29:B1:63:A:C6	29:B1:64:G:C6	2.98	0.52
29:B1:764:U:H6	29:B1:764:U:OP2	1.92	0.52
29:B1:707:U:H4'	29:B1:782:U:O2	2.08	0.52
29:B1:809:G:C4	29:B1:810:A:C8	2.97	0.52
29:B1:900:G:H2'	29:B1:901:G:H8	1.74	0.52
29:B1:979:U:H2'	29:B1:979:U:O2	2.08	0.52
34:BC:1:MET:H3	34:BC:5:LYS:H	7.44	0.52
1:C1:1121:C:C2	1:C1:1127:G:N1	2.77	0.52
1:C1:257:A:C2'	1:C1:258:C:H5'	2.24	0.52
1:C1:280:U:H3'	1:C1:281:G:C8	2.35	0.52
1:C1:265:A:N7	1:C1:290:G:N2	2.57	0.52
1:C1:814:A:C4	1:C1:816:G:N2	2.77	0.52
1:C1:82:U:H5'	1:C1:83:G:OP2	2.08	0.52
29:D1:1104:G:H2'	29:D1:1105:A:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:117:U:C4	29:D1:118:U:C5	2.97	0.52
29:D1:1489:A:N3	29:D1:1489:A:H2'	2.24	0.52
29:D1:1542:G:C5	74:D1:3556:OHX:N3	2.77	0.52
29:D1:156:G:C4	29:D1:158:G:OP2	2.62	0.52
29:D1:1900:A:N1	29:D1:1908:A:N1	2.57	0.52
29:D1:1907:C:H5	29:D1:1908:A:C5	2.28	0.52
29:D1:2309:A:OP1	29:D1:2309:A:H8	1.92	0.52
29:D1:1131:G:C5	29:D1:2373:A:C2	2.98	0.52
29:D1:993:G:C4	29:D1:2637:A:C4	2.97	0.52
29:D1:2659:G:H4'	29:D1:2751:G:O2'	2.09	0.52
29:D1:265:A:C8	29:D1:265:A:OP1	2.62	0.52
29:D1:2716:U:C5'	29:D1:2717:U:OP2	2.57	0.52
29:D1:2725:U:H5	29:D1:2727:A:HO2'	1.38	0.52
29:D1:279:U:O2'	29:D1:280:U:H5'	2.09	0.52
29:D1:2407:C:H1'	29:D1:2818:U:C2	2.44	0.52
29:D1:283:G:OP2	29:D1:285:A:H2'	2.09	0.52
29:D1:2808:A:C8	29:D1:2955:U:H4'	2.43	0.52
29:D1:3019:U:C5	29:D1:3020:U:C4	2.97	0.52
29:D1:323:A:H2'	29:D1:324:A:C8	2.44	0.52
29:D1:3306:U:O2'	29:D1:3309:G:N1	2.38	0.52
29:D1:3336:A:N6	29:D1:3337:G:C6	2.77	0.52
29:D1:3328:G:H22	29:D1:3375:A:H62	1.55	0.52
29:D1:532:A:H3'	29:D1:533:A:H8	1.72	0.52
29:D1:571:U:O2'	29:D1:572:A:H5'	2.09	0.52
29:D1:574:U:HO2'	29:D1:575:G:P	2.25	0.52
29:D1:577:C:H6	29:D1:577:C:H3'	1.74	0.52
29:D1:588:G:H4'	29:D1:589:A:H62	1.73	0.52
29:D1:739:G:H5''	29:D1:740:G:OP2	2.09	0.52
29:D1:743:C:C6	29:D1:743:C:H3'	2.44	0.52
29:D1:746:A:C8	29:D1:746:A:O5'	2.61	0.52
29:D1:760:G:H2'	29:D1:761:A:C8	2.41	0.52
29:D1:812:G:C2	29:D1:813:G:C8	2.97	0.52
29:D1:885:U:C2'	29:D1:885:U:O2	2.56	0.52
29:D1:930:U:O2'	29:D1:931:C:H5'	2.10	0.52
31:D3:79:A:C5	31:D3:80:A:C5	2.96	0.52
35:DD:16:THR:CB	35:DD:17:ALA:CA	2.87	0.52
35:DD:7:THR:O	35:DD:9:HIS:N	2.42	0.52
37:DF:41:ILE:H	37:DF:85:ILE:C	2.11	0.52
40:DI:71:VAL:O	40:DI:72:LYS:C	2.45	0.52
29:D1:719:U:OP1	47:DR:69:ARG:CB	2.57	0.52
54:DY:33:GLY:O	54:DY:34:MET:C	2.47	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:833:U:C2'	1:A1:833:U:O2	2.57	0.52
1:C1:653:C:C5	1:C1:654:C:C5	2.97	0.52
29:B1:2727:A:C6	29:B1:2728:G:C6	2.97	0.52
31:B3:61:A:H2'	31:B3:62:C:OP2	2.10	0.52
31:B3:64:U:C2	31:B3:97:A:C2	2.97	0.52
1:A1:130:C:C4	1:A1:131:C:O2'	2.60	0.52
1:A1:169:A:C6	1:A1:171:A:C6	2.97	0.52
1:A1:290:G:N2	1:A1:291:G:C2	2.77	0.52
30:D2:14:U:O2'	30:D2:15:C:P	2.66	0.52
30:D2:65:G:H2'	30:D2:66:A:O5'	2.08	0.52
1:C1:1685:G:N2	1:C1:1686:C:N3	2.56	0.52
1:A1:340:U:N3	1:A1:341:A:N7	2.57	0.52
1:C1:1379:C:H2'	1:C1:1380:U:H5'	1.91	0.52
1:C1:1382:A:C4	1:C1:1383:G:C8	2.97	0.52
1:C1:1437:U:C2'	1:C1:1437:U:O2	2.46	0.52
1:A1:1508:U:O2	1:A1:1508:U:H2'	2.09	0.52
1:A1:1539:G:O2'	1:A1:1540:G:C5'	2.57	0.52
1:A1:1542:G:N2	1:A1:1568:C:C6	2.78	0.52
1:A1:1569:A:H2'	1:A1:1570:A:H8	1.73	0.52
1:C1:1051:G:N2	1:C1:1052:U:H3	2.07	0.52
30:B2:90:U:C4	30:B2:91:G:C4	2.97	0.52
29:B1:387:A:H2'	29:B1:388:G:O4'	2.09	0.52
29:D1:405:U:H5	29:D1:406:G:C8	2.27	0.52
29:D1:3254:G:C2'	29:D1:3254:G:N3	2.71	0.52
29:D1:3214:U:O3'	29:D1:3218:A:H5''	2.06	0.52
29:D1:3265:C:C5	29:D1:3266:G:N7	2.78	0.52
29:D1:1235:U:N1	29:D1:1237:G:H5'	2.23	0.52
2:CA:8:ASP:O	2:CA:11:PRO:N	2.42	0.52
29:B1:1083:G:H2'	29:B1:1084:A:O4'	2.09	0.52
30:D2:91:G:O2'	30:D2:92:A:H5'	2.09	0.52
1:C1:1738:U:O4	74:C1:1929:OHX:N5	2.42	0.52
29:B1:1354:G:C8	29:B1:1355:A:C6	2.93	0.52
2:AA:144:ILE:O	2:AA:145:ALA:HB2	2.08	0.52
29:B1:2130:G:H5''	29:B1:2131:A:OP2	2.08	0.52
1:C1:1435:G:C4'	1:C1:1436:A:OP2	2.53	0.52
41:BJ:66:GLU:O	41:BJ:69:ARG:N	2.42	0.52
17:AP:101:GLU:O	17:AP:127:VAL:CB	2.57	0.52
29:B1:1334:U:H5''	38:BG:206:LYS:C	2.29	0.52
41:DJ:17:TYR:C	41:DJ:19:LYS:N	2.61	0.52
45:BP:58:LEU:CB	45:BP:72:HIS:CB	2.87	0.52
29:D1:841:A:C6	29:D1:853:G:C6	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:373:G:H2'	1:A1:374:U:C6	2.44	0.52
1:A1:108:A:C2'	1:A1:109:G:C8	2.89	0.52
29:D1:602:A:N3	29:D1:602:A:H2'	2.24	0.52
34:DC:193:ASP:O	34:DC:196:ARG:N	2.42	0.52
29:B1:270:U:O2'	29:B1:271:C:H5'	2.09	0.52
43:DN:111:ALA:O	43:DN:113:THR:N	2.42	0.52
29:B1:232:G:H2'	29:B1:233:C:H6	1.75	0.52
1:C1:712:G:H2'	1:C1:713:A:C8	2.44	0.52
51:BV:43:ARG:O	51:BV:44:LYS:C	2.47	0.52
16:AO:103:ILE:HA	16:AO:112:ASP:HA	1.90	0.52
29:D1:440:A:H2'	29:D1:440:A:N3	2.22	0.52
17:AP:69:ARG:O	17:AP:70:LYS:C	2.47	0.52
42:BK:76:ALA:O	42:BK:78:GLU:N	2.42	0.52
2:CA:28:ASN:HA	2:CA:45:VAL:HA	1.90	0.52
50:BU:81:GLN:O	50:BU:82:ALA:HB2	2.09	0.52
1:A1:1150:G:O2'	1:A1:1151:A:OP1	2.27	0.52
1:A1:1771:U:C2	1:A1:1772:C:C5	2.97	0.52
1:A1:1774:G:H5''	1:A1:1775:U:OP2	2.09	0.52
1:A1:27:U:O2'	1:A1:28:A:H5'	2.10	0.52
1:A1:37:U:OP1	1:A1:531:C:O2'	2.19	0.52
1:A1:407:A:H1'	1:A1:1671:A:C2	2.43	0.52
1:A1:863:A:H2'	1:A1:865:A:C8	2.44	0.52
1:A1:871:G:O6	1:A1:957:G:C6	2.62	0.52
1:A1:873:U:C4	1:A1:874:C:N4	2.77	0.52
29:B1:1655:G:C8	29:B1:1656:A:C8	2.97	0.52
29:B1:1662:G:C5	29:B1:1663:C:C5	2.98	0.52
29:B1:2142:A:H4'	29:B1:2143:A:O5'	2.09	0.52
29:B1:2302:G:C6	29:B1:2303:A:C5	2.98	0.52
29:B1:648:C:H5	29:B1:2375:G:O5'	1.90	0.52
29:B1:2712:U:C2'	29:B1:2713:U:O5'	2.57	0.52
29:B1:2836:C:O2	29:B1:2836:C:H2'	2.09	0.52
29:B1:2945:G:O2'	29:B1:2948:C:OP2	2.16	0.52
29:B1:3011:A:N3	29:B1:3011:A:H5''	2.24	0.52
29:B1:304:G:P	29:B1:304:G:H3'	2.48	0.52
29:B1:3069:G:N1	29:B1:3070:A:N7	2.58	0.52
29:B1:3096:C:C4	29:B1:3097:C:N4	2.77	0.52
29:B1:3123:A:C8	29:B1:3124:G:C8	2.96	0.52
29:B1:3315:G:C4'	29:B1:3319:U:O3'	2.57	0.52
29:B1:3333:G:H1	29:B1:3370:A:C2'	2.23	0.52
29:B1:930:U:O2'	29:B1:931:C:H5'	2.09	0.52
1:C1:1006:C:C5	1:C1:1007:C:C5	2.96	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:147:A:H2'	1:C1:148:A:C1'	2.39	0.52
1:C1:1781:A:C6	1:C1:1782:A:C6	2.98	0.52
1:C1:1791:A:H8	1:C1:1791:A:C5'	2.23	0.52
1:C1:445:A:H2'	1:C1:446:A:C8	2.43	0.52
1:C1:45:U:H5'	1:C1:45:U:C6	2.43	0.52
1:C1:13:C:O3'	3:CB:161:LYS:O	2.28	0.52
29:D1:9:U:C2'	29:D1:10:C:H5'	2.36	0.52
29:D1:1180:A:N3	29:D1:1182:A:H1'	2.23	0.52
29:D1:1199:C:N3	74:D1:3574:OHX:N5	2.56	0.52
29:D1:1224:C:C5	29:D1:1285:G:N1	2.78	0.52
29:D1:659:G:N1	29:D1:1432:C:C2	2.77	0.52
29:D1:2244:A:O2'	29:D1:2245:C:H5'	2.09	0.52
29:D1:2609:A:C2	29:D1:2610:G:N7	2.77	0.52
29:D1:2814:G:H2'	29:D1:2815:G:H8	1.74	0.52
29:D1:282:G:N3	29:D1:286:U:C4'	2.72	0.52
29:D1:303:G:C2	29:D1:2778:G:N7	2.77	0.52
29:D1:3394:U:O2'	29:D1:3395:G:C8	2.62	0.52
29:D1:42:C:C2'	29:D1:43:A:C5'	2.73	0.52
29:D1:546:C:N4	29:D1:547:G:N3	2.56	0.52
29:D1:548:G:C6	29:D1:549:U:C2	2.97	0.52
29:D1:614:C:O2'	29:D1:615:U:H5'	2.09	0.52
29:D1:941:G:H1'	29:D1:1435:A:N3	2.24	0.52
29:D1:943:U:H1'	29:D1:944:C:OP1	2.10	0.52
31:D3:145:U:C4	31:D3:146:U:C4	2.97	0.52
35:DD:101:ALA:O	35:DD:102:PRO:O	2.28	0.52
37:DF:151:LYS:O	37:DF:154:LEU:N	2.42	0.52
37:DF:22:ARG:O	37:DF:113:LYS:O	2.28	0.52
1:A1:704:C:H4'	1:A1:705:U:OP1	2.09	0.52
1:A1:741:C:C2'	1:A1:741:C:O2	2.54	0.52
1:C1:646:C:H2'	1:C1:647:G:C5'	2.38	0.52
31:B3:56:G:C6	31:B3:62:C:C4	2.96	0.52
1:A1:59:C:N4	1:A1:89:G:N3	2.57	0.52
30:D2:64:A:C1'	30:D2:65:G:H5''	2.37	0.52
29:D1:2681:U:HO2'	29:D1:2682:C:H5''	1.72	0.52
29:B1:2676:A:H2'	29:B1:2677:G:OP1	2.09	0.52
1:A1:1720:G:C6	1:A1:1721:A:C4	2.97	0.52
1:C1:1240:U:C3'	1:C1:1241:G:C5'	2.86	0.52
1:C1:1526:A:OP2	1:C1:1527:C:H5	1.91	0.52
1:C1:1595:U:H2'	1:C1:1596:C:O2	2.09	0.52
1:A1:1268:G:O2'	1:A1:1269:U:H3'	2.09	0.52
1:A1:1354:G:C6	1:A1:1355:C:C4	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1480:G:H2'	1:A1:1481:C:H5''	1.91	0.52
1:A1:1203:A:C5	1:A1:1555:A:N1	2.77	0.52
15:AN:12:GLN:C	15:AN:14:GLN:H	2.10	0.52
29:B1:3202:G:O2'	29:B1:3203:U:O4'	2.22	0.52
29:D1:1422:G:H2'	29:D1:1423:C:C6	2.43	0.52
29:D1:221:A:N9	29:D1:224:C:N4	2.57	0.52
29:B1:1247:U:OP1	29:B1:1248:C:C5	2.62	0.52
1:A1:417:A:H4'	1:A1:418:G:O5'	2.08	0.52
8:CG:51:GLY:O	8:CG:55:ARG:HA	2.09	0.52
29:D1:3352:U:H2'	29:D1:3354:U:C4'	2.36	0.52
1:C1:1329:A:C8	1:C1:1330:G:C8	2.97	0.52
1:C1:1392:U:C6	1:C1:1392:U:H5''	2.44	0.52
21:CT:282:SER:O	21:CT:284:ALA:N	2.36	0.52
29:D1:3003:G:C2	29:D1:3004:C:C6	2.97	0.52
29:D1:2593:A:C4'	29:D1:2594:C:H5'	2.31	0.52
29:B1:1625:A:C8	29:B1:1626:U:O4'	2.62	0.52
1:A1:1332:C:O2'	1:A1:1333:C:O5'	2.27	0.52
1:A1:1393:C:H2'	1:A1:1394:G:C8	2.45	0.52
36:DE:141:PRO:C	36:DE:143:LYS:N	2.58	0.52
9:AH:97:GLY:HA2	9:AH:100:ALA:HB3	1.91	0.52
29:D1:1014:U:H4'	29:D1:1014:U:OP1	2.08	0.52
29:B1:3352:U:C2'	29:B1:3354:U:H4'	2.35	0.52
29:B1:2565:U:C2	29:B1:2566:C:C5	2.96	0.52
1:C1:775:G:N2	1:C1:786:C:C2	2.77	0.52
1:C1:1664:C:O2	1:C1:1664:C:H2'	2.09	0.52
40:BI:86:TYR:CB	40:BI:148:GLY:O	2.57	0.52
42:DK:101:ASN:C	42:DK:103:GLY:N	2.60	0.52
40:DI:43:VAL:O	40:DI:56:ALA:O	2.27	0.52
35:BD:191:LYS:O	35:BD:192:GLY:C	2.48	0.52
41:DJ:68:ALA:O	41:DJ:72:ALA:HB2	2.08	0.52
12:CK:58:MET:O	12:CK:62:GLN:HA	2.10	0.52
29:B1:2599:U:C2	29:B1:2600:C:C5	2.97	0.52
29:D1:731:U:H5''	47:DR:136:ASN:H	1.75	0.52
49:DT:76:ILE:O	49:DT:77:ASN:CB	2.57	0.52
47:DR:23:ASN:O	47:DR:26:LEU:N	2.43	0.52
11:CJ:35:PRO:O	11:CJ:38:LEU:N	2.42	0.52
45:DP:36:VAL:O	45:DP:37:ARG:CB	2.57	0.52
16:AO:24:GLN:CB	16:AO:63:VAL:O	2.57	0.52
29:D1:1700:G:H2'	29:D1:1701:C:H6	1.74	0.52
40:DI:117:PHE:O	40:DI:120:ASP:N	2.42	0.52
39:DH:152:LEU:HA	39:DH:178:ALA:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BJ:121:LYS:O	41:BJ:122:PRO:O	2.26	0.52
29:B1:1051:U:H5'	29:B1:1052:U:OP2	2.10	0.52
41:BJ:47:PRO:O	41:BJ:140:THR:O	2.28	0.52
55:DZ:83:LYS:O	55:DZ:84:LEU:CB	2.56	0.52
29:D1:2668:U:H5	74:D1:3599:OHX:N2	2.07	0.52
4:AC:125:TYR:HA	4:AC:128:GLU:CB	2.39	0.52
33:BB:148:VAL:O	33:BB:149:ARG:CB	2.58	0.52
8:AG:101:HIS:O	8:AG:105:ASN:N	2.40	0.52
39:BH:133:LYS:CB	39:BH:199:ALA:H	2.23	0.52
1:A1:1003:A:C8	1:A1:1005:A:C4	2.98	0.52
1:A1:1118:G:N1	1:A1:1119:G:C5	2.77	0.52
1:A1:1764:C:OP1	1:A1:1771:U:C4'	2.47	0.52
1:A1:366:A:C2	1:A1:376:C:C2	2.98	0.52
1:A1:391:A:O2'	1:A1:392:G:H5'	2.09	0.52
1:A1:492:A:N1	1:A1:495:C:OP2	2.42	0.52
29:B1:1199:C:C2'	29:B1:1199:C:O2	2.56	0.52
29:B1:1194:G:O2'	29:B1:1309:U:O2	2.27	0.52
29:B1:1428:A:C5	29:B1:1430:U:C4	2.98	0.52
29:B1:1525:G:H1'	29:B1:1829:G:C2	2.44	0.52
29:B1:198:A:C2	29:B1:219:A:C5	2.97	0.52
29:B1:2424:A:C5'	29:B1:2425:G:OP2	2.55	0.52
29:B1:2610:G:H2'	29:B1:2611:U:C6	2.44	0.52
29:B1:2743:A:C6	29:B1:2744:U:C4	2.97	0.52
29:B1:2914:G:H2'	29:B1:2915:U:H6	1.74	0.52
29:B1:2967:A:C2'	29:B1:2968:G:OP1	2.57	0.52
29:B1:3059:G:C2'	29:B1:3060:C:H5'	2.39	0.52
29:B1:3064:U:C2	29:B1:3065:G:N7	2.77	0.52
29:B1:3130:A:H5'	29:B1:3131:U:H5	1.74	0.52
29:B1:3341:U:O3'	29:B1:3343:G:N2	2.40	0.52
29:B1:3341:U:C4	29:B1:3362:A:N1	2.78	0.52
29:B1:360:G:N1	29:B1:361:A:N6	2.57	0.52
29:B1:650:C:H5'	29:B1:2872:A:OP2	2.09	0.52
29:B1:739:G:H5''	29:B1:740:G:OP2	2.09	0.52
29:B1:745:C:N3	29:B1:746:A:N6	2.57	0.52
29:B1:778:U:H2'	29:B1:779:G:H5'	1.91	0.52
29:B1:808:A:C5	29:B1:809:G:N7	2.78	0.52
29:B1:934:G:H5''	29:B1:935:U:OP2	2.09	0.52
29:B1:959:C:N4	29:B1:2801:A:H5''	2.23	0.52
35:BD:153:SER:O	35:BD:155:ASP:N	2.42	0.52
1:C1:12:U:H5''	1:C1:13:C:OP2	2.08	0.52
1:C1:167:U:C6	1:C1:167:U:H5'	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1766:A:O2'	1:C1:1767:G:O5'	2.23	0.52
1:C1:185:U:C2	1:C1:201:G:N2	2.77	0.52
1:C1:198:A:O2'	1:C1:199:G:O5'	2.27	0.52
1:C1:23:G:C5	1:C1:24:U:C4	2.97	0.52
1:C1:283:U:O3'	1:C1:284:G:C4'	2.56	0.52
1:C1:42:G:O4'	1:C1:437:A:C8	2.63	0.52
1:C1:479:C:O3'	1:C1:480:G:O4'	2.26	0.52
1:C1:617:U:H5'	1:C1:1031:U:O4'	2.10	0.52
1:C1:71:A:C2	1:C1:72:A:N6	2.69	0.52
1:C1:956:C:N4	1:C1:957:G:O6	2.42	0.52
1:C1:960:U:H2'	1:C1:961:U:C6	2.44	0.52
1:C1:973:A:N3	1:C1:974:A:N7	2.57	0.52
29:D1:1180:A:C6	29:D1:1182:A:C5	2.98	0.52
29:D1:1448:U:C2'	29:D1:1449:A:H5'	2.38	0.52
29:D1:1503:A:C3'	29:D1:1504:A:C5'	2.75	0.52
29:D1:1532:C:C2	29:D1:1591:G:C2	2.98	0.52
29:D1:2140:U:C5	29:D1:2956:A:C2	2.97	0.52
29:D1:2294:U:C6	29:D1:2297:U:C5	2.98	0.52
29:D1:2364:G:H8	29:D1:2364:G:OP2	1.92	0.52
29:D1:2630:C:O3'	49:DT:6:GLY:HA3	2.09	0.52
29:D1:2702:A:H8	29:D1:2704:A:C5	2.28	0.52
29:D1:2717:U:H2'	29:D1:2718:U:C6	2.44	0.52
29:D1:2222:A:H61	29:D1:2783:U:H5'	1.71	0.52
29:D1:2869:U:O2	29:D1:2869:U:C2'	2.57	0.52
29:D1:287:G:C4	29:D1:288:C:C6	2.98	0.52
29:D1:3105:U:H5	29:D1:3128:G:H21	1.57	0.52
29:D1:3111:U:O2'	29:D1:3112:G:H5'	2.09	0.52
29:D1:3331:U:H6	29:D1:3331:U:O5'	1.92	0.52
29:D1:353:G:O2'	29:D1:354:U:OP2	2.27	0.52
29:D1:427:C:H2'	29:D1:428:A:H5'	1.91	0.52
29:D1:548:G:H2'	29:D1:549:U:C4'	2.39	0.52
29:D1:591:G:C2	29:D1:592:A:C8	2.96	0.52
29:D1:716:A:C3'	29:D1:716:A:C8	2.93	0.52
29:D1:773:G:O2'	29:D1:774:G:H5'	2.09	0.52
29:D1:85:A:C8	29:D1:87:U:N3	2.78	0.52
29:D1:877:C:H6	29:D1:877:C:C3'	2.23	0.52
29:D1:993:G:N3	29:D1:2637:A:C2'	2.69	0.52
29:D1:8:C:C2'	29:D1:9:U:C6	2.89	0.52
29:D1:3011:A:C2	34:DC:13:HIS:HA	2.44	0.52
35:DD:5:GLN:N	35:DD:21:PRO:HA	2.24	0.52
1:C1:813:U:C5	48:DS:162:ARG:CB	2.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:229:U:H2'	1:C1:230:C:C6	2.45	0.52
1:C1:848:C:H2'	1:C1:849:C:H6	1.75	0.52
30:B2:14:U:O2'	30:B2:15:C:P	2.67	0.52
1:A1:129:U:H5	74:A1:1915:OHX:N3	2.08	0.52
1:A1:449:C:H2'	1:A1:449:C:O2	2.08	0.52
1:A1:71:A:H4'	1:A1:72:A:OP2	2.08	0.52
30:D2:60:G:C4	30:D2:61:G:C8	2.98	0.52
1:C1:1682:U:O2	1:C1:1683:C:C4	2.62	0.52
1:C1:1684:U:H3'	1:C1:1685:G:C5'	2.39	0.52
1:C1:326:G:H2'	1:C1:327:U:C6	2.44	0.52
1:C1:327:U:N3	1:C1:328:A:N7	2.57	0.52
1:A1:250:C:OP2	1:A1:251:A:OP2	2.27	0.52
1:A1:323:A:O2'	1:A1:324:U:H5'	2.09	0.52
1:C1:1379:C:C2'	1:C1:1380:U:H5'	2.38	0.52
1:C1:1469:A:H2'	1:C1:1470:C:C6	2.44	0.52
1:A1:1180:C:C4	1:A1:1181:U:C5	2.97	0.52
1:A1:1263:G:C5	1:A1:1264:G:C8	2.96	0.52
1:A1:1382:A:C4	1:A1:1383:G:N7	2.78	0.52
1:A1:1575:G:N2	1:A1:1576:A:C1'	2.72	0.52
1:A1:1600:A:C4'	1:A1:1600:A:OP1	2.48	0.52
11:AJ:18:ALA:CB	11:AJ:84:ALA:HB2	2.39	0.52
29:B1:381:U:H1'	29:B1:388:G:N2	2.24	0.52
29:B1:3205:G:OP2	29:B1:3206:C:OP2	2.26	0.52
46:DQ:9:THR:N	46:DQ:10:ASN:CA	2.73	0.52
30:D2:24:A:N3	30:D2:25:G:C8	2.77	0.52
30:D2:24:A:C2'	30:D2:25:G:H8	2.19	0.52
30:D2:54:U:C2'	30:D2:54:U:O2	2.57	0.52
6:CE:122:VAL:O	6:CE:123:HIS:C	2.46	0.52
29:B1:3234:A:C2	29:B1:3235:C:C6	2.97	0.52
29:B1:2520:A:C2	29:B1:2521:U:C2	2.97	0.52
29:D1:1390:A:C6	29:D1:1418:A:C4	2.97	0.52
29:D1:3256:G:C6	29:D1:3257:C:C4	2.97	0.52
1:C1:885:G:H5''	1:C1:886:U:OP2	2.09	0.52
30:D2:38:U:O2'	30:D2:40:C:C5'	2.55	0.52
1:C1:413:U:C2	1:C1:421:A:C2	2.98	0.52
29:D1:70:A:H2'	29:D1:71:A:H5'	1.91	0.52
29:B1:2513:U:HO2'	29:B1:2514:U:P	2.32	0.52
29:B1:70:A:H2'	29:B1:71:A:H5'	1.90	0.52
1:C1:1291:G:N2	1:C1:1324:G:H22	2.07	0.52
1:C1:1330:G:C2'	1:C1:1331:A:H8	2.20	0.52
2:CA:13:ASP:H	2:CA:17:LEU:H	1.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:888:U:H3'	1:A1:889:U:C6	2.44	0.52
29:B1:1625:A:N7	29:B1:1626:U:N1	2.57	0.52
29:B1:1628:C:O2'	29:B1:1630:U:C5'	2.46	0.52
29:B1:1640:G:O2'	29:B1:1641:U:O5'	2.26	0.52
39:BH:187:GLY:HA3	39:BH:194:THR:C	2.30	0.52
1:A1:1417:A:OP1	74:A1:1989:OHX:N5	2.42	0.52
36:DE:139:PRO:HA	36:DE:140:ARG:CB	2.38	0.52
1:C1:891:A:C6	1:C1:922:G:O6	2.62	0.52
30:D2:90:U:H2'	30:D2:90:U:O2	2.09	0.52
20:CS:40:ARG:CB	74:CS:101:OHX:N3	2.72	0.52
29:B1:2092:A:OP2	29:B1:2093:A:H8	1.93	0.52
29:B1:2862:U:HO2'	29:B1:2863:G:H5'	1.73	0.52
5:CD:99:MET:C	5:CD:101:GLY:N	2.63	0.52
1:A1:1784:C:C2	1:A1:1785:U:C6	2.97	0.52
29:B1:1358:C:H3'	29:B1:1359:C:H6	1.74	0.52
45:DP:139:GLY:O	45:DP:142:SER:CB	2.57	0.52
29:B1:1804:A:C2	29:B1:1805:C:C2	2.98	0.52
52:BW:69:SER:O	52:BW:72:ALA:N	2.42	0.52
5:AD:99:MET:C	5:AD:101:GLY:N	2.63	0.52
29:B1:2573:G:O6	74:B1:3558:OHX:N3	2.42	0.52
5:AD:179:ALA:O	5:AD:180:ARG:C	2.47	0.52
6:CE:23:ARG:O	6:CE:26:ALA:HB3	2.10	0.52
40:BI:21:LYS:O	40:BI:22:SER:O	2.26	0.52
16:CO:111:MET:CB	16:CO:116:ALA:HB2	2.38	0.52
38:DG:104:GLN:O	38:DG:107:ARG:HA	2.08	0.52
41:BJ:17:TYR:C	41:BJ:19:LYS:H	2.12	0.52
12:AK:42:GLN:CB	12:AK:47:ARG:HA	2.40	0.52
45:BP:77:SER:O	45:BP:79:ILE:N	2.43	0.52
29:B1:1125:U:H6	29:B1:1125:U:O5'	1.92	0.52
5:AD:66:GLN:HA	5:AD:87:CYS:O	2.09	0.52
43:BN:101:LYS:C	43:BN:103:ILE:H	2.11	0.52
39:DH:230:LYS:N	39:DH:231:LYS:C	2.63	0.52
50:DU:18:PRO:HA	50:DU:51:ALA:CB	2.40	0.52
1:A1:1654:G:N2	1:A1:1745:G:H2'	2.24	0.52
1:A1:313:U:C6	1:A1:1118:G:C2	2.98	0.52
1:A1:524:U:C2	1:A1:527:A:N1	2.77	0.52
1:A1:599:A:H5''	1:A1:600:U:OP2	2.09	0.52
1:A1:874:C:H2'	1:A1:875:G:C8	2.45	0.52
29:B1:1129:A:H62	29:B1:1130:A:H61	1.56	0.52
29:B1:1211:U:N3	29:B1:1295:G:C6	2.77	0.52
29:B1:122:A:C4'	29:B1:150:A:HO2'	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1546:A:N6	29:B1:1547:G:N1	2.57	0.52
29:B1:157:A:O2'	29:B1:158:G:N9	2.39	0.52
29:B1:1601:U:C5	29:B1:1604:G:O6	2.62	0.52
29:B1:1841:A:C2	29:B1:1848:G:N7	2.77	0.52
29:B1:2257:C:H3'	29:B1:2258:U:C6	2.40	0.52
29:B1:2658:G:C6	29:B1:2659:G:N7	2.78	0.52
29:B1:2717:U:C4	29:B1:2740:A:N1	2.78	0.52
29:B1:2743:A:C3'	29:B1:2744:U:H6	2.20	0.52
29:B1:2745:G:N2	29:B1:2748:A:OP 2	2.42	0.52
29:B1:283:G:C2	29:B1:285:A:C6	2.98	0.52
29:B1:2974:U:H2'	29:B1:2975:U:C6	2.45	0.52
29:B1:2983:C:O4'	29:B1:2983:C:O2	2.27	0.52
29:B1:3102:G:HO2'	29:B1:3103:A:P	2.32	0.52
29:B1:3141:A:N3	29:B1:3143:C:O2'	2.43	0.52
29:B1:3322:A:C5	29:B1:3323:A:N7	2.76	0.52
29:B1:3392:U:O2	29:B1:3393:U:C2	2.62	0.52
29:B1:374:A:C2	29:B1:375:A:C4	2.97	0.52
29:B1:48:A:C2	29:B1:50:U:O4	2.62	0.52
29:B1:528:U:O2	29:B1:529:A:C8	2.62	0.52
29:B1:584:G:C4	29:B1:585:A:C8	2.97	0.52
29:B1:585:A:C6	29:B1:586:C:N4	2.77	0.52
29:B1:588:G:C5	29:B1:612:U:C5	2.88	0.52
29:B1:637:C:O2'	29:B1:638:C:H5''	2.09	0.52
29:B1:638:C:H2'	29:B1:639:G:H8	1.72	0.52
29:B1:726:G:H2'	29:B1:727:G:O4'	2.09	0.52
29:B1:83:U:H2'	29:B1:84:U:O4'	2.10	0.52
29:B1:943:U:C2'	29:B1:944:C:OP1	2.57	0.52
31:B3:101:U:H2'	31:B3:102:U:O5'	2.09	0.52
44:BO:52:GLY:O	44:BO:53:TYR:O	2.28	0.52
29:B1:880:G:OP2	46:BQ:131:ARG:HA	2.09	0.52
1:C1:1146:G:N1	1:C1:1147:A:C6	2.78	0.52
1:C1:1150:G:H2'	1:C1:1151:A:O5'	2.09	0.52
1:C1:150:U:H5'	1:C1:151:G:OP2	2.10	0.52
1:C1:1761:U:H1'	1:C1:1762:A:OP2	2.09	0.52
1:C1:206:A:N3	1:C1:262:U:C4	2.77	0.52
1:C1:283:U:C3'	1:C1:284:G:C4'	2.87	0.52
1:C1:407:A:H1'	1:C1:1671:A:H2	1.75	0.52
1:C1:607:G:C6	1:C1:613:G:H5'	2.44	0.52
1:C1:89:G:N3	1:C1:90:C:C6	2.77	0.52
1:C1:995:A:H3'	1:C1:996:U:H6	1.74	0.52
29:D1:1110:U:O2	29:D1:1110:U:H2'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:795:G:H1'	29:D1:1111:U:H5''	1.91	0.52
29:D1:1224:C:P	29:D1:1224:C:O4'	2.68	0.52
29:D1:1302:A:C2	29:D1:2887:A:C5	2.98	0.52
29:D1:1194:G:C2'	29:D1:1309:U:O2	2.57	0.52
29:D1:1517:G:O2'	29:D1:1518:U:H5'	2.10	0.52
29:D1:1697:A:C3'	29:D1:1698:C:H5'	2.39	0.52
29:D1:2260:U:O2'	29:D1:2261:G:C8	2.62	0.52
29:D1:2300:G:C2	29:D1:2301:U:C6	2.97	0.52
29:D1:2316:G:H2'	29:D1:2317:A:H8	1.74	0.52
29:D1:2328:U:H2'	29:D1:2329:C:H6	1.75	0.52
29:D1:2357:A:O5'	29:D1:2357:A:H8	1.93	0.52
29:D1:2406:C:H2'	29:D1:2407:C:C6	2.45	0.52
29:D1:25:U:H2'	29:D1:26:A:O4'	2.09	0.52
29:D1:2617:U:C6	29:D1:2620:G:OP1	2.63	0.52
29:D1:2689:A:C4	29:D1:2702:A:H2	2.27	0.52
29:D1:2779:A:C8	29:D1:2779:A:C5'	2.83	0.52
29:D1:2897:A:C6	29:D1:2904:U:O4	2.62	0.52
29:D1:3160:U:C4	29:D1:3161:C:N4	2.78	0.52
29:D1:3392:U:O2	29:D1:3393:U:C2	2.63	0.52
29:D1:809:G:H2'	29:D1:810:A:H8	1.74	0.52
29:D1:80:G:N1	29:D1:81:C:C4	2.77	0.52
29:D1:85:A:H61	29:D1:99:A:H3'	1.75	0.52
29:D1:961:C:O2'	29:D1:962:A:OP2	2.27	0.52
31:D3:2:A:OP1	74:D3:201:OHX:N4	2.43	0.52
31:D3:74:U:OP2	31:D3:76:C:N3	2.42	0.52
1:C1:840:U:O2'	1:C1:841:U:P	2.68	0.52
1:C1:653:C:C5	1:C1:654:C:H5	2.28	0.52
29:B1:2728:G:N2	29:B1:2729:U:C6	2.77	0.52
29:B1:956:U:H2'	29:B1:957:C:C6	2.43	0.52
29:B1:957:C:HO2'	29:B1:2799:A:HO2'	1.57	0.52
30:B2:82:G:C6	30:B2:99:G:C6	2.97	0.52
1:A1:145:A:C2	1:A1:146:U:H1'	2.44	0.52
30:D2:78:U:C2	30:D2:79:A:H8	2.26	0.52
29:D1:2677:G:H21	29:D1:2678:A:H5'	1.73	0.52
45:DP:124:LEU:HA	45:DP:126:VAL:CA	2.35	0.52
1:A1:1722:A:O3'	1:A1:1722:A:OP1	2.27	0.52
1:C1:1199:G:C4	1:C1:1200:G:O4'	2.61	0.52
1:C1:1204:A:C2'	1:C1:1204:A:N3	2.71	0.52
1:C1:1232:U:H2'	1:C1:1233:G:O4'	2.10	0.52
1:C1:1567:U:H5'	1:C1:1567:U:C6	2.44	0.52
1:C1:1619:C:C2	1:C1:1620:C:C5	2.94	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1205:C:C5	1:A1:1206:U:O2	2.63	0.52
1:A1:1348:A:O5'	1:A1:1348:A:C8	2.48	0.52
1:A1:1573:A:H4'	1:A1:1574:G:OP2	2.09	0.52
1:C1:1054:U:H2'	1:C1:1055:U:C6	2.44	0.52
30:B2:87:G:N2	30:B2:95:A:C5	2.78	0.52
29:B1:1466:G:O6	29:B1:1511:U:C6	2.61	0.52
29:B1:380:U:C2	29:B1:381:U:H5	2.27	0.52
29:B1:383:G:H2'	29:B1:385:A:P	2.48	0.52
29:D1:3203:U:P	29:D1:3204:C:OP2	2.67	0.52
29:B1:3019:U:C5	29:B1:3020:U:C4	2.98	0.52
30:B2:26:C:O5'	30:B2:26:C:H6	1.92	0.52
29:D1:72:C:C5	29:D1:73:C:C2	2.98	0.52
36:BE:77:ALA:O	36:BE:78:ALA:CB	2.58	0.52
29:B1:3381:U:C2'	29:B1:3383:G:C4	2.92	0.52
29:D1:1278:A:H1'	29:D1:1279:C:H5'	1.90	0.52
29:D1:3356:G:C2'	29:D1:3357:U:O5'	2.57	0.52
2:CA:17:LEU:C	2:CA:19:ALA:H	2.12	0.52
20:CS:41:GLN:CB	74:CS:101:OHX:N2	2.73	0.52
29:D1:2872:A:H1'	29:D1:2873:U:H5'	1.92	0.52
29:D1:1913:A:H2'	29:D1:2115:G:O6	2.09	0.52
29:D1:2576:G:H2'	29:D1:2577:C:C6	2.43	0.52
6:CE:72:GLU:O	6:CE:75:ALA:HB3	2.09	0.52
1:C1:1575:G:N1	1:C1:1576:A:C4	2.77	0.52
29:B1:1029:G:H2'	29:B1:1030:A:H5'	1.90	0.52
36:BE:234:ASP:O	36:BE:236:LEU:N	2.43	0.52
29:D1:2880:U:C4	29:D1:2881:C:N4	2.78	0.52
46:DQ:25:SER:O	46:DQ:28:ASN:N	2.20	0.52
34:DC:195:ALA:O	34:DC:196:ARG:C	2.48	0.52
29:D1:2154:U:O2'	29:D1:2155:G:H5'	2.10	0.52
29:B1:246:U:OP2	29:B1:247:C:H5''	2.10	0.52
29:B1:247:C:C2'	29:B1:248:U:H4'	2.38	0.52
34:BC:87:VAL:C	34:BC:88:GLY:O	2.46	0.52
19:AR:7:VAL:HA	19:AR:28:VAL:C	2.30	0.52
29:B1:2117:A:H3'	29:B1:2118:C:C5	2.44	0.52
9:AH:30:VAL:H	9:AH:40:ALA:HB3	1.73	0.52
1:A1:565:C:C2	1:A1:576:G:C6	2.97	0.52
29:D1:1059:G:O2'	49:DT:60:LYS:HA	2.09	0.52
44:BO:75:VAL:O	44:BO:76:PRO:CB	2.58	0.52
2:AA:84:ARG:C	2:AA:86:VAL:H	2.12	0.52
5:CD:212:LYS:O	5:CD:214:LYS:N	2.42	0.52
42:DK:90:GLN:HA	42:DK:169:ALA:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:21:LEU:O	4:CC:22:ASN:C	2.47	0.52
5:AD:65:ARG:O	5:AD:87:CYS:C	2.48	0.52
50:BU:18:PRO:HA	50:BU:51:ALA:CB	2.39	0.52
35:DD:209:TYR:HA	35:DD:249:ILE:O	2.09	0.52
38:BG:153:PHE:O	38:BG:154:GLY:O	2.28	0.52
41:BJ:73:ASN:O	41:BJ:74:LYS:C	2.47	0.52
17:AP:27:ASN:O	17:AP:28:ASN:CB	2.56	0.52
39:DH:208:GLU:O	39:DH:209:ALA:C	2.47	0.52
1:A1:343:C:H2'	1:A1:344:A:H8	1.74	0.52
36:DE:47:PRO:O	36:DE:48:LYS:CB	2.58	0.52
1:A1:1045:C:C2'	1:A1:1046:G:OP1	2.57	0.52
1:A1:96:G:N2	1:A1:387:A:N1	2.53	0.52
1:A1:401:A:H4'	1:A1:402:C:OP2	2.09	0.52
1:A1:439:U:C1'	1:A1:440:U:OP1	2.57	0.52
1:A1:515:A:C2'	1:A1:516:G:OP1	2.57	0.52
1:A1:607:G:N7	1:A1:613:G:C8	2.78	0.52
1:A1:989:U:N3	1:A1:990:C:C4	2.77	0.52
29:B1:1112:A:N6	29:B1:1113:G:N1	2.57	0.52
29:B1:112:U:O2'	29:B1:113:C:P	2.67	0.52
29:B1:114:A:C2	29:B1:267:G:C4	2.98	0.52
29:B1:1319:G:O2'	29:B1:1320:C:H6	1.92	0.52
29:B1:1658:G:C4	29:B1:1659:U:C6	2.97	0.52
29:B1:1889:G:H2'	29:B1:1889:G:N3	2.23	0.52
29:B1:1901:A:HO2'	29:B1:2918:G:C5'	2.22	0.52
29:B1:2285:C:H5	29:B1:2286:U:C4	2.27	0.52
29:B1:2284:C:H1'	29:B1:2308:C:O2	2.09	0.52
29:B1:2397:A:H61	29:B1:2869:U:H1'	1.75	0.52
29:B1:2815:G:H8	29:B1:2815:G:O5'	1.92	0.52
29:B1:401:U:H5''	29:B1:403:C:O2	2.10	0.52
29:B1:46:U:O5'	29:B1:46:U:H6	1.93	0.52
29:B1:519:A:N6	37:BF:30:LEU:C	2.63	0.52
29:B1:520:U:H3	37:BF:138:GLN:CB	2.22	0.52
29:B1:532:A:C5	29:B1:533:A:C5	2.98	0.52
29:B1:536:U:O2'	29:B1:538:G:N7	2.43	0.52
29:B1:627:U:O2'	29:B1:628:A:H5'	2.09	0.52
29:B1:705:A:H2	29:B1:714:G:N3	2.07	0.52
29:B1:746:A:O5'	29:B1:746:A:C8	2.62	0.52
29:B1:81:C:O2'	29:B1:82:C:C5'	2.45	0.52
29:B1:858:A:H3'	29:B1:859:G:C8	2.44	0.52
44:BO:85:THR:CA	44:BO:86:ASN:CB	2.87	0.52
1:C1:1097:U:O2	1:C1:1097:U:C2'	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:188:A:N6	1:C1:189:C:O2	2.43	0.52
1:C1:454:U:O2'	1:C1:455:C:O5'	2.27	0.52
1:C1:4:C:O2	1:C1:4:C:H2'	2.09	0.52
1:C1:22:A:C2	1:C1:604:A:C2	2.98	0.52
1:C1:62:A:C4'	1:C1:63:G:OP2	2.57	0.52
1:C1:813:U:C2'	1:C1:813:U:O2	2.58	0.52
1:C1:966:A:O2'	1:C1:967:A:O5'	2.22	0.52
29:D1:953:G:O4'	29:D1:1115:G:H4'	2.10	0.52
29:D1:1157:G:N1	29:D1:1158:A:N3	2.58	0.52
29:D1:1180:A:C5	29:D1:1182:A:N7	2.77	0.52
29:D1:1442:U:O2'	29:D1:1443:G:O5'	2.17	0.52
29:D1:2261:G:N2	29:D1:2263:C:C4	2.78	0.52
29:D1:2725:U:H3'	29:D1:2725:U:C6	2.43	0.52
29:D1:2945:G:H5'	29:D1:2945:G:N3	2.24	0.52
29:D1:3030:G:H2'	29:D1:3031:G:O4'	2.10	0.52
29:D1:3125:U:H2'	29:D1:3126:C:H5'	1.92	0.52
29:D1:25:U:C4	29:D1:331:G:C8	2.98	0.52
29:D1:3326:G:C2	29:D1:3327:G:N9	2.77	0.52
29:D1:3344:A:C4	29:D1:3361:G:O6	2.62	0.52
29:D1:3377:G:C4	74:D1:3452:OHX:N6	2.78	0.52
29:D1:641:C:H3'	29:D1:641:C:H6	1.75	0.52
29:D1:734:C:H5''	29:D1:735:A:C2	2.45	0.52
1:C1:743:U:HO2'	1:C1:744:U:H6	1.57	0.52
29:B1:2639:G:H5''	29:B1:2640:A:OP2	2.10	0.52
29:B1:2762:A:H3'	29:B1:2763:U:C5	2.44	0.52
31:B3:87:G:O2'	31:B3:88:A:P	2.68	0.52
1:A1:178:U:O4'	1:A1:178:U:OP1	2.28	0.52
1:A1:271:A:C2	1:A1:285:G:C6	2.98	0.52
1:A1:1682:U:OP2	1:A1:1682:U:C6	2.62	0.52
1:C1:1241:G:N2	1:C1:1243:G:H3'	2.24	0.52
1:C1:1381:U:H2'	1:C1:1382:A:H5'	1.90	0.52
1:C1:1472:C:C5	1:C1:1474:G:C2	2.96	0.52
1:C1:1474:G:C6	1:C1:1475:A:N6	2.77	0.52
1:C1:1550:A:H2'	1:C1:1551:U:C6	2.44	0.52
1:A1:1239:U:O2'	1:A1:1240:U:C6	2.62	0.52
1:A1:1385:G:C4	1:A1:1386:G:C8	2.97	0.52
1:A1:1566:U:C2'	1:A1:1567:U:C5'	2.88	0.52
1:A1:1591:C:O2'	1:A1:1592:A:C5'	2.58	0.52
1:A1:1619:C:H2'	1:A1:1620:C:C6	2.45	0.52
4:CC:46:THR:O	4:CC:85:VAL:N	2.42	0.52
29:B1:3234:A:O2'	29:B1:3235:C:H5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1393:A:H2	29:D1:1394:A:C4	2.27	0.52
29:D1:372:A:C5	29:D1:373:A:C5	2.98	0.52
29:D1:3257:C:HO2'	29:D1:3258:U:H5	1.53	0.52
30:D2:47:C:O2	30:D2:48:U:C4	2.63	0.52
29:D1:1259:A:H2'	29:D1:1280:C:O2'	2.09	0.52
29:D1:1260:A:H2'	29:D1:1261:G:O4'	2.10	0.52
29:D1:1265:U:O4	29:D1:1277:C:C5	2.63	0.52
20:CS:49:ASP:N	20:CS:50:ILE:CA	2.45	0.52
29:D1:2755:C:H2'	29:D1:2755:C:O2	2.08	0.52
29:B1:3260:G:C6	29:B1:3261:C:H1'	2.44	0.52
29:B1:1063:G:C1'	29:B1:1064:A:O5'	2.51	0.52
1:A1:915:A:OP2	1:A1:915:A:C8	2.62	0.52
20:CS:24:CYS:O	74:CS:101:OHX:N4	2.42	0.52
29:B1:2582:C:H3'	29:B1:2583:C:C6	2.44	0.52
1:A1:1322:A:H2'	1:A1:1323:C:H6	1.74	0.52
1:A1:1325:A:H2'	1:A1:1326:A:H8	1.75	0.52
29:B1:366:A:C6	29:B1:367:A:C4	2.97	0.52
54:DY:68:PHE:O	54:DY:69:TRP:CB	2.58	0.52
29:B1:661:G:C2	29:B1:802:C:C6	2.97	0.52
29:D1:365:A:N1	29:D1:366:A:C2	2.77	0.52
43:BN:23:ILE:O	43:BN:24:LYS:CB	2.57	0.52
17:CP:101:GLU:O	17:CP:127:VAL:CB	2.58	0.52
29:B1:1752:A:OP2	74:B1:3568:OHX:N5	2.42	0.52
45:DP:140:LYS:C	45:DP:142:SER:N	2.62	0.52
54:DY:129:PHE:CB	54:DY:130:VAL:CB	2.87	0.52
20:AS:23:VAL:O	74:AS:101:OHX:N1	2.43	0.52
3:CB:133:LYS:O	3:CB:135:SER:N	2.42	0.52
29:D1:1357:G:H2'	29:D1:1358:C:H6	1.68	0.52
29:B1:733:G:N2	29:B1:734:C:H2'	2.25	0.52
29:B1:2574:G:O2'	29:B1:2575:G:H5'	2.10	0.52
1:C1:929:A:H1'	9:CH:123:SER:HA	1.91	0.52
42:DK:84:LEU:HA	42:DK:89:TYR:CB	2.39	0.52
1:C1:1786:G:C4	1:C1:1787:C:C5	2.98	0.52
41:BJ:155:ALA:O	41:BJ:158:LYS:O	2.27	0.52
29:B1:1459:C:O2'	29:B1:1460:A:H5'	2.09	0.52
33:DB:214:GLY:O	33:DB:216:HIS:N	2.42	0.52
73:DM:102:SER:C	73:DM:104:ARG:N	2.61	0.52
29:B1:1868:G:N7	29:B1:1869:C:C5	2.78	0.52
29:D1:1282:G:H4'	73:DM:82:GLY:CA	2.40	0.52
38:BG:224:ILE:C	38:BG:226:GLY:N	2.62	0.52
1:A1:1501:C:O2'	1:A1:1502:G:H5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:920:U:OP2	1:A1:920:U:C6	2.63	0.52
16:AO:37:PHE:C	16:AO:39:GLN:N	2.62	0.52
35:BD:97:GLY:O	35:BD:98:ARG:C	2.47	0.52
29:D1:1360:C:O2	29:D1:1360:C:H2'	2.08	0.52
29:B1:799:G:N7	74:B1:3496:OHX:N6	2.57	0.52
8:CG:119:GLU:C	8:CG:121:ARG:N	2.60	0.52
42:DK:131:MET:O	42:DK:132:ASN:CB	2.57	0.52
43:DN:101:LYS:C	43:DN:103:ILE:H	2.13	0.52
40:BI:104:VAL:CB	40:BI:105:GLU:CA	2.88	0.52
1:A1:3:U:O4'	3:AB:180:ALA:HA	2.09	0.52
54:BY:93:SER:O	54:BY:94:ALA:O	2.27	0.52
5:AD:45:LYS:O	5:AD:46:TRP:CB	2.58	0.52
36:DE:227:LEU:HA	36:DE:228:ALA:HB3	1.91	0.52
21:CT:194:GLY:O	21:CT:195:HIS:O	2.27	0.52
44:DO:134:LEU:O	44:DO:135:VAL:CB	2.57	0.52
21:AT:84:SER:C	21:AT:86:ASP:N	2.61	0.52
39:BH:158:ASP:HA	39:BH:159:PRO:C	2.28	0.52
2:AA:38:PHE:CB	2:AA:39:ASN:HA	2.39	0.52
1:A1:1001:A:C8	1:A1:1002:G:N7	2.78	0.52
1:A1:1145:U:H3'	1:A1:1146:G:H5''	1.91	0.52
1:A1:1759:C:H3'	1:A1:1760:G:H8	1.74	0.52
1:A1:561:G:C6	1:A1:585:A:N1	2.78	0.52
29:B1:107:A:O4'	29:B1:325:A:H1'	2.09	0.52
29:B1:1174:G:H1'	29:B1:1181:U:C4	2.43	0.52
29:B1:1178:G:C2'	29:B1:1179:A:C5'	2.88	0.52
29:B1:1394:A:C8	29:B1:1394:A:H3'	2.45	0.52
29:B1:1393:A:H2'	29:B1:1394:A:H5''	1.91	0.52
29:B1:1415:U:H5''	29:B1:1416:C:OP2	2.10	0.52
29:B1:1518:U:C2	29:B1:1519:G:C8	2.98	0.52
29:B1:1564:U:H2'	29:B1:1565:G:H8	1.75	0.52
29:B1:1607:U:OP2	29:B1:1607:U:C6	2.63	0.52
29:B1:1781:C:H2'	29:B1:1782:U:H5'	1.87	0.52
29:B1:1833:G:C2	29:B1:1834:U:O2	2.63	0.52
29:B1:2370:G:H8	29:B1:2370:G:O5'	1.93	0.52
29:B1:264:G:H2'	29:B1:264:G:N3	2.23	0.52
29:B1:2774:C:O2'	29:B1:2775:U:H5'	2.10	0.52
29:B1:1203:A:C2	29:B1:2855:U:O2	2.63	0.52
29:B1:2866:U:H1'	29:B1:2867:C:H5	1.74	0.52
29:B1:3000:A:H2'	29:B1:3001:C:C5	2.45	0.52
29:B1:3086:A:C5	29:B1:3087:A:C5	2.98	0.52
29:B1:397:A:C6	29:B1:400:G:N1	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:412:G:H2'	29:B1:413:U:H6	1.73	0.52
29:B1:520:U:H4'	29:B1:521:A:O5'	2.10	0.52
29:B1:550:A:C2	29:B1:551:A:C4	2.97	0.52
29:B1:572:A:N7	29:B1:573:C:C5	2.77	0.52
29:B1:762:U:C2	29:B1:770:G:N2	2.77	0.52
29:B1:861:C:P	29:B1:862:U:OP2	2.68	0.52
29:B1:891:G:O2'	29:B1:892:U:C5'	2.58	0.52
31:B3:9:A:C5'	31:B3:10:A:OP2	2.57	0.52
1:C1:1030:A:H4'	1:C1:1031:U:OP2	2.10	0.52
1:C1:1764:C:C6	1:C1:1767:G:N7	2.77	0.52
1:C1:405:C:H2'	1:C1:405:C:O2	2.09	0.52
1:C1:432:G:H2'	1:C1:433:C:O4'	2.09	0.52
1:C1:439:U:O2'	1:C1:440:U:H4'	2.10	0.52
1:C1:44:U:C3'	1:C1:45:U:H5'	2.39	0.52
1:C1:528:U:O2	1:C1:528:U:O4'	2.28	0.52
1:C1:636:A:N1	1:C1:860:U:O4	2.42	0.52
1:C1:860:U:O4	1:C1:861:U:N3	2.43	0.52
1:C1:940:A:H2'	1:C1:941:A:C8	2.44	0.52
29:D1:1119:C:O2	29:D1:1119:C:H2'	2.10	0.52
29:D1:1198:C:H2'	29:D1:1200:A:H8	1.73	0.52
29:D1:1453:A:N9	29:D1:1850:A:C2	2.71	0.52
29:D1:1519:G:C2	29:D1:1520:G:C8	2.97	0.52
29:D1:1898:G:N7	29:D1:1899:G:C5	2.78	0.52
29:D1:2311:G:OP2	74:D1:3582:OHX:N5	2.43	0.52
29:D1:257:U:C2	29:D1:258:G:N7	2.78	0.52
29:D1:2773:C:H2'	29:D1:2774:C:H6	1.74	0.52
29:D1:286:U:C2	29:D1:287:G:C5	2.98	0.52
29:D1:3028:G:N2	29:D1:3029:A:C2	2.78	0.52
29:D1:3038:U:C2	29:D1:3039:C:C6	2.97	0.52
29:D1:3394:U:C2'	29:D1:3395:G:C8	2.93	0.52
29:D1:569:A:C2	29:D1:570:A:N9	2.78	0.52
29:D1:570:A:C6	29:D1:571:U:C4	2.98	0.52
29:D1:784:A:N3	29:D1:785:G:N7	2.58	0.52
29:D1:945:C:H3'	29:D1:946:U:H6	1.75	0.52
29:D1:980:A:H2'	29:D1:981:U:O4'	2.10	0.52
31:D3:114:G:H2'	31:D3:115:C:H5'	1.90	0.52
31:D3:127:U:C2'	31:D3:127:U:O2	2.57	0.52
29:D1:340:C:N4	31:D3:25:G:N1	2.58	0.52
31:D3:26:U:C4	31:D3:27:U:O4	2.63	0.52
31:D3:26:U:N3	31:D3:27:U:C4	2.77	0.52
31:D3:65:A:C6	31:D3:66:A:C5	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:87:G:O2'	31:D3:88:A:P	2.67	0.52
29:D1:1940:G:OP1	48:DS:75:HIS:HA	2.09	0.52
1:A1:217:A:N3	1:A1:218:A:H5'	2.24	0.52
31:B3:56:G:N2	31:B3:57:C:H1'	2.24	0.52
1:A1:151:G:C2	1:A1:164:A:C2	2.98	0.52
30:D2:15:C:C4	30:D2:16:U:C4	2.98	0.52
1:C1:1679:G:N1	1:C1:1680:G:H1'	2.25	0.52
1:C1:112:A:N6	1:C1:303:U:O2	2.43	0.52
1:C1:1244:A:N1	1:C1:1245:G:C4	2.76	0.52
1:C1:1379:C:H5'	1:C1:1380:U:OP2	2.09	0.52
1:C1:1583:A:C2	1:C1:1585:U:N3	2.78	0.52
1:C1:1599:C:O2'	1:C1:1600:A:C2	2.61	0.52
1:A1:1176:G:C6	1:A1:1177:C:C4	2.98	0.52
1:A1:1179:G:H3'	1:A1:1180:C:H6	1.75	0.52
1:A1:1188:G:O2'	1:A1:1430:U:OP1	2.27	0.52
1:A1:1589:C:H2'	1:A1:1590:G:O4'	2.09	0.52
1:A1:1590:G:C6	1:A1:1591:C:N4	2.78	0.52
1:A1:1609:U:C5'	1:A1:1609:U:C6	2.92	0.52
29:B1:3215:A:C5'	29:B1:3218:A:C5'	2.84	0.52
29:D1:3194:C:C6	29:D1:3194:C:C3'	2.93	0.52
29:D1:3206:C:O2'	74:D1:3597:OHX:N4	2.43	0.52
30:D2:57:G:C8	30:D2:58:C:C5	2.97	0.52
42:BK:10:ARG:O	42:BK:11:ASP:CB	2.57	0.52
29:D1:183:G:C6	29:D1:234:G:C6	2.98	0.52
29:D1:1063:G:C4	29:D1:1064:A:H4'	2.45	0.52
29:D1:3242:G:H2'	29:D1:3242:G:N3	2.25	0.52
29:B1:847:A:C6	29:B1:848:A:C6	2.97	0.52
29:D1:1626:U:C4	29:D1:1627:U:C4	2.98	0.52
29:D1:1628:C:O2'	29:D1:1630:U:C5'	2.48	0.52
1:A1:1282:U:C2	1:A1:1283:U:C5	2.98	0.52
1:C1:1418:G:H2'	1:C1:1419:G:H5'	1.92	0.52
1:A1:1753:A:N6	1:A1:1754:A:H62	2.06	0.52
1:A1:1753:A:C2	1:A1:1754:A:C2	2.97	0.52
29:D1:2513:U:H5	29:D1:2591:A:C6	2.27	0.52
29:B1:124:U:C4	29:B1:125:C:C5	2.97	0.52
29:D1:124:U:C2'	29:D1:125:C:O4'	2.46	0.52
29:B1:1715:A:N6	29:B1:1716:U:C4	2.76	0.52
1:C1:486:G:H2'	1:C1:487:G:C4'	2.40	0.52
29:D1:1011:A:N3	29:D1:1011:A:H2'	2.24	0.52
29:D1:1013:G:O3'	29:D1:1014:U:H4'	2.08	0.52
29:D1:1348:U:O2'	29:D1:1349:G:OP2	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1337:A:C4	29:B1:1338:C:C6	2.97	0.52
1:C1:1575:G:C6	1:C1:1576:A:C6	2.97	0.52
29:B1:1740:U:O2	29:B1:1741:A:N3	2.42	0.52
1:C1:1433:G:N2	1:C1:1434:U:C5	2.77	0.52
29:B1:1357:G:C2'	29:B1:1358:C:C6	2.89	0.52
43:BN:24:LYS:HA	43:BN:31:LYS:N	2.24	0.52
54:DY:130:VAL:O	54:DY:132:LYS:N	2.38	0.52
1:C1:719:U:O2'	1:C1:720:G:C4	2.61	0.52
29:B1:2544:U:H2'	29:B1:2545:C:C6	2.44	0.52
34:DC:198:HIS:O	34:DC:200:GLU:N	2.42	0.52
6:AE:54:ARG:O	6:AE:58:ASP:CB	2.58	0.52
29:B1:733:G:N3	29:B1:733:G:H2'	2.24	0.52
35:BD:192:GLY:O	35:BD:193:LYS:C	2.48	0.52
47:BR:131:ALA:O	47:BR:133:LYS:N	2.43	0.52
33:BB:231:SER:H	33:BB:233:GLN:H	1.57	0.52
47:BR:25:TYR:O	47:BR:26:LEU:C	2.47	0.52
17:CP:89:ASN:O	17:CP:90:ASP:CB	2.57	0.52
45:BP:80:PHE:O	45:BP:83:ALA:HB3	2.09	0.52
4:AC:144:ALA:O	4:AC:145:ALA:CB	2.56	0.52
3:CB:188:LEU:O	3:CB:190:LEU:N	2.42	0.52
9:AH:49:LYS:O	9:AH:51:ASP:N	2.43	0.52
45:BP:22:VAL:O	45:BP:23:VAL:O	2.26	0.52
12:CK:64:GLY:HA2	12:CK:65:PRO:CB	2.39	0.52
29:D1:1765:U:O5'	29:D1:1765:U:H6	1.92	0.52
6:CE:26:ALA:C	6:CE:28:LEU:H	2.13	0.52
5:CD:55:ASP:O	5:CD:56:ALA:O	2.28	0.52
43:DN:95:ALA:C	43:DN:97:SER:H	2.12	0.52
34:DC:29:VAL:O	34:DC:31:ALA:N	2.42	0.52
29:D1:1860:G:H2'	29:D1:1861:G:H8	1.75	0.52
29:B1:1711:C:H2'	29:B1:1712:G:O4'	2.10	0.52
2:AA:201:LEU:O	2:AA:202:TYR:CB	2.58	0.52
36:BE:253:PHE:N	36:BE:254:LYS:HA	2.25	0.52
42:DK:22:SER:O	42:DK:23:VAL:O	2.26	0.52
3:CB:42:GLY:O	3:CB:43:ARG:C	2.47	0.52
47:BR:158:HIS:O	47:BR:159:LYS:CB	2.57	0.52
48:DS:64:ARG:HA	48:DS:67:ALA:HB3	1.91	0.52
1:A1:1131:A:H3'	1:A1:1132:A:H8	1.75	0.52
1:A1:1030:A:N7	1:A1:1792:G:C6	2.78	0.52
1:A1:492:A:C5	1:A1:494:U:H5''	2.44	0.52
1:A1:4:C:H2'	1:A1:4:C:O2	2.08	0.52
1:A1:556:A:O4'	1:A1:556:A:OP1	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:601:A:C6	1:A1:602:U:C4	2.97	0.52
1:A1:604:A:H5''	1:A1:605:A:OP2	2.09	0.52
1:A1:629:U:O2	1:A1:971:A:C4	2.63	0.52
1:A1:819:G:N1	1:A1:853:G:N2	2.58	0.52
1:A1:860:U:O2	1:A1:860:U:H2'	2.09	0.52
1:A1:967:A:H2'	1:A1:968:U:C6	2.45	0.52
29:B1:1140:G:N3	29:B1:1141:C:C5	2.78	0.52
29:B1:121:A:H5'	29:B1:150:A:H2	1.75	0.52
29:B1:1302:A:N3	29:B1:2887:A:N3	2.58	0.52
29:B1:1413:G:N3	29:B1:1414:G:C8	2.77	0.52
29:B1:1442:U:H6	29:B1:1442:U:C5'	2.21	0.52
29:B1:1448:U:H5	29:B1:2355:G:N3	2.08	0.52
29:B1:1455:U:C2'	29:B1:1456:A:C8	2.93	0.52
29:B1:198:A:C2	29:B1:219:A:C8	2.97	0.52
29:B1:2147:A:O2'	29:B1:2148:U:O4'	2.20	0.52
29:B1:198:A:H1'	29:B1:218:G:C4	2.45	0.52
29:B1:2252:A:C4	29:B1:2253:G:C8	2.98	0.52
29:B1:2254:U:HO2'	29:B1:2255:A:P	2.33	0.52
29:B1:2280:A:O2'	29:B1:2281:A:P	2.68	0.52
29:B1:2193:U:H5''	29:B1:2312:A:N1	2.24	0.52
29:B1:2422:C:H2'	29:B1:2423:U:O5'	2.09	0.52
29:B1:278:U:N3	29:B1:279:U:C5	2.78	0.52
29:B1:2419:A:N6	29:B1:2804:A:N6	2.58	0.52
29:B1:2847:A:N3	29:B1:2847:A:H2'	2.25	0.52
29:B1:3048:A:C8	29:B1:3090:U:C4	2.98	0.52
29:B1:3058:U:OP1	29:B1:3058:U:H3'	2.09	0.52
29:B1:3088:G:H3'	29:B1:3089:C:H6	1.74	0.52
29:B1:3141:A:H5'	29:B1:3143:C:H2'	1.90	0.52
29:B1:3344:A:N6	29:B1:3362:A:C2	2.77	0.52
29:B1:347:G:N2	29:B1:353:G:C4	2.77	0.52
29:B1:416:A:C2	29:B1:417:A:N9	2.78	0.52
29:B1:532:A:C2'	29:B1:533:A:C8	2.93	0.52
29:B1:535:G:N1	29:B1:558:U:O2'	2.38	0.52
29:B1:874:U:H2'	29:B1:875:G:OP2	2.09	0.52
29:B1:9:U:C4	29:B1:10:C:C5	2.97	0.52
34:BC:257:PRO:CB	34:BC:259:HIS:N	2.73	0.52
37:BF:166:LYS:O	37:BF:167:ASN:C	2.48	0.52
1:C1:1116:A:H1'	1:C1:1131:A:N6	2.25	0.52
1:C1:468:A:N6	1:C1:595:G:C6	2.73	0.52
29:D1:1464:G:N3	29:D1:1464:G:H2'	2.23	0.52
29:D1:1468:A:O2'	29:D1:1469:C:C5'	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1470:U:C2	29:D1:1471:U:C5	2.98	0.52
29:D1:1609:C:O2'	29:D1:1610:G:P	2.68	0.52
29:D1:2148:U:H3'	29:D1:2187:G:H22	1.72	0.52
29:D1:2166:A:H2'	29:D1:2167:A:C8	2.45	0.52
29:D1:2628:A:C4	29:D1:2798:C:N4	2.78	0.52
29:D1:2658:G:C6	29:D1:2659:G:N7	2.77	0.52
29:D1:2717:U:H6	29:D1:2717:U:C5'	2.22	0.52
29:D1:2773:C:C2	29:D1:2774:C:C5	2.97	0.52
29:D1:2829:U:C2'	29:D1:2830:G:H5'	2.39	0.52
29:D1:60:A:C4	29:D1:328:U:N3	2.75	0.52
29:D1:412:G:H2'	29:D1:413:U:C6	2.45	0.52
29:D1:516:A:C3'	29:D1:517:G:H8	2.14	0.52
29:D1:547:G:H2'	29:D1:548:G:H5'	1.92	0.52
29:D1:574:U:H2'	29:D1:575:G:H5''	0.76	0.52
29:D1:606:C:C2	29:D1:607:A:C4	2.98	0.52
29:D1:865:U:O4	29:D1:866:A:C6	2.63	0.52
31:D3:71:A:N6	31:D3:87:G:C5	2.77	0.52
31:D3:94:C:C4'	31:D3:95:G:OP2	2.51	0.52
1:A1:738:G:O2'	1:A1:739:G:O4'	2.26	0.52
1:A1:828:U:C5	1:A1:829:A:C6	2.98	0.52
1:A1:850:A:N1	1:A1:851:U:C4	2.78	0.52
29:B1:2650:U:O2	29:B1:2650:U:C2'	2.58	0.52
29:B1:969:C:O2	29:B1:969:C:H2'	2.08	0.52
29:B1:992:A:C2	29:B1:993:G:C8	2.97	0.52
30:B2:14:U:C2'	30:B2:15:C:O4'	2.57	0.52
1:C1:1683:C:H4'	1:C1:1684:U:C4	2.43	0.52
1:C1:303:U:H2'	1:C1:304:U:H6	1.75	0.52
1:C1:328:A:C2	1:C1:329:G:C4	2.98	0.52
42:BK:50:ALA:O	42:BK:52:TYR:N	2.43	0.52
1:A1:1685:G:N2	1:A1:1686:C:N3	2.58	0.52
1:A1:214:G:O2'	1:A1:215:A:OP1	2.24	0.52
1:A1:250:C:OP2	1:A1:250:C:C3'	2.44	0.52
1:C1:1491:U:C2'	1:C1:1492:A:H2'	2.40	0.52
1:C1:1516:A:C8	15:CN:16:GLN:CB	2.89	0.52
1:A1:1165:G:C5	1:A1:1166:A:N7	2.77	0.52
1:A1:1348:A:C2	1:A1:1379:C:C6	2.98	0.52
1:A1:1499:G:O6	1:A1:1508:U:C2	2.59	0.52
6:AE:81:VAL:O	6:AE:82:ARG:O	2.28	0.52
29:B1:3182:G:O2'	29:B1:3183:A:C5'	2.58	0.52
29:B1:3237:U:O4	29:B1:3250:U:O4	2.28	0.52
29:B1:3250:U:O2'	29:B1:3251:U:H5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3252:G:H2'	29:B1:3253:G:H8	1.73	0.52
30:B2:42:A:C2	30:B2:47:C:C5	2.98	0.52
30:B2:48:U:C2'	30:B2:49:G:OP2	2.58	0.52
29:B1:2522:G:O2'	29:B1:2523:A:OP1	2.16	0.52
29:D1:3238:G:O2'	29:D1:3239:G:H5'	2.10	0.52
29:D1:190:U:H3	29:D1:221:A:H61	1.58	0.52
35:DD:164:GLU:O	35:DD:168:ALA:HB2	2.09	0.52
29:B1:1260:A:H3'	29:B1:1261:G:H21	1.75	0.52
29:D1:3221:C:H6	29:D1:3221:C:O5'	1.93	0.52
30:D2:30:G:C6	30:D2:49:G:C6	2.97	0.52
1:C1:1403:C:C2'	1:C1:1404:C:H5'	2.40	0.52
29:D1:2206:G:H2'	29:D1:2207:A:H5'	1.92	0.52
29:D1:2515:A:C6	29:D1:2593:A:C5	2.97	0.52
29:B1:1623:G:N3	29:B1:1624:G:H1'	2.24	0.52
1:A1:1332:C:O2	1:A1:1333:C:C6	2.62	0.52
29:D1:1678:G:OP2	29:D1:1678:G:C8	2.62	0.52
1:C1:900:A:H4'	1:C1:916:U:H1'	1.92	0.52
30:D2:94:C:O2	30:D2:95:A:C8	2.63	0.52
29:B1:2880:U:O2	34:BC:250:ALA:HB3	2.10	0.52
29:B1:253:A:N6	29:B1:254:A:C6	2.77	0.52
1:C1:1282:U:C2	1:C1:1283:U:C6	2.97	0.52
74:A1:1916:OHX:N3	74:A1:1975:OHX:N3	2.58	0.52
29:D1:2834:G:O2'	29:D1:2835:U:C6	2.53	0.52
29:B1:1695:U:C2	29:B1:1749:A:C2	2.96	0.52
5:CD:199:ILE:C	5:CD:201:ALA:N	2.63	0.52
29:D1:1639:C:C2'	29:D1:1640:G:O5'	2.58	0.52
3:AB:106:ASP:C	3:AB:108:ASN:H	2.12	0.52
1:C1:718:U:H3'	1:C1:720:G:N1	2.25	0.52
1:C1:719:U:O2'	1:C1:720:G:N9	2.42	0.52
29:B1:2900:A:C2	29:B1:2901:G:N7	2.78	0.52
5:AD:93:LEU:C	5:AD:95:ASN:H	2.12	0.52
3:AB:80:VAL:HA	3:AB:102:VAL:CB	2.39	0.52
29:B1:666:A:C5	29:B1:667:C:C5	2.98	0.52
29:D1:1706:C:H3'	29:D1:1707:A:H8	1.75	0.52
29:D1:2530:G:OP2	29:D1:2530:G:C8	2.62	0.52
34:BC:166:ILE:O	34:BC:167:ARG:C	2.48	0.52
42:DK:139:THR:CB	42:DK:146:GLY:O	2.58	0.52
29:B1:1700:G:H2'	29:B1:1701:C:H6	1.75	0.52
2:AA:88:LYS:C	2:AA:90:ALA:H	2.13	0.52
47:BR:145:ASN:HA	47:BR:146:SER:CB	2.40	0.52
34:DC:81:THR:O	34:DC:83:PRO:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DX:56:VAL:HA	53:DX:107:THR:H	1.75	0.52
29:B1:180:C:H2'	29:B1:181:U:C6	2.45	0.52
38:BG:243:MET:O	38:BG:244:ASN:CB	2.58	0.52
5:CD:176:THR:O	5:CD:179:ALA:HB3	2.09	0.52
1:A1:1006:C:OP1	74:A1:1903:OHX:N5	2.43	0.52
1:A1:1051:G:N2	1:A1:1052:U:H3	2.07	0.52
1:A1:1670:G:H21	1:A1:1732:A:N6	2.06	0.52
1:A1:1744:A:N6	1:A1:1745:G:C6	2.77	0.52
1:A1:609:U:H5''	1:A1:610:G:C8	2.45	0.52
1:A1:989:U:H2'	1:A1:990:C:O4'	2.10	0.52
29:B1:1140:G:N3	29:B1:1141:C:C6	2.78	0.52
29:B1:1179:A:H8	29:B1:1179:A:H3'	1.73	0.52
29:B1:1433:A:O2'	29:B1:1434:G:O5'	2.24	0.52
29:B1:1565:G:N1	29:B1:1566:A:H1'	2.24	0.52
29:B1:156:G:C1'	29:B1:157:A:OP1	2.57	0.52
29:B1:192:C:C2	29:B1:193:C:C6	2.98	0.52
29:B1:2259:A:C5	29:B1:2260:U:C2	2.98	0.52
29:B1:2262:A:C5'	29:B1:2263:C:OP2	2.58	0.52
29:B1:2296:A:N3	29:B1:2919:A:H1'	2.24	0.52
29:B1:2713:U:H4'	29:B1:2714:G:OP1	2.10	0.52
29:B1:2929:C:C6	29:B1:2929:C:H3'	2.45	0.52
29:B1:2895:G:H5'	29:B1:3107:U:HO2'	1.74	0.52
29:B1:109:A:C6	29:B1:323:A:C4	2.97	0.52
29:B1:3365:U:C2	29:B1:3366:G:N7	2.78	0.52
29:B1:346:C:C4	29:B1:348:A:C8	2.98	0.52
29:B1:425:G:C6	29:B1:635:G:C2	2.98	0.52
29:B1:750:G:H1	29:B1:784:A:H1'	1.73	0.52
29:B1:2178:A:P	33:BB:126:LEU:HA	2.50	0.52
33:BB:186:PHE:O	33:BB:187:HIS:C	2.48	0.52
35:BD:162:THR:O	35:BD:165:ALA:HB3	2.10	0.52
1:C1:1756:A:H2'	1:C1:1757:G:H5'	1.91	0.52
1:C1:1026:A:C2	1:C1:1792:G:C4	2.98	0.52
1:C1:361:C:N4	1:C1:384:G:C6	2.69	0.52
1:C1:446:A:C6	1:C1:447:U:C4	2.98	0.52
1:C1:472:U:C5	1:C1:473:A:C8	2.98	0.52
1:C1:966:A:C2'	1:C1:967:A:O5'	2.58	0.52
29:D1:1203:A:H2	29:D1:2855:U:O2	1.93	0.52
29:D1:1209:G:C8	29:D1:1210:U:C5	2.98	0.52
29:D1:1212:A:C2	29:D1:1213:G:C8	2.98	0.52
29:D1:15:C:O2	29:D1:15:C:O4'	2.28	0.52
29:D1:1610:G:H2'	29:D1:1611:G:C8	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1797:A:H2'	29:D1:1798:A:H8	1.75	0.52
29:D1:2114:C:H5''	29:D1:2116:G:C8	2.45	0.52
29:D1:2247:G:N3	29:D1:2247:G:H2'	2.23	0.52
29:D1:2372:A:O2'	29:D1:2373:A:P	2.66	0.52
29:D1:25:U:N3	29:D1:26:A:C5	2.77	0.52
29:D1:2658:G:C4	29:D1:2659:G:C8	2.97	0.52
29:D1:2660:G:H4'	29:D1:2750:U:O2	2.09	0.52
29:D1:3066:U:H2'	29:D1:3067:C:C6	2.44	0.52
29:D1:3298:C:N4	29:D1:3299:A:H62	2.07	0.52
29:D1:2998:U:OP1	29:D1:3396:U:O4'	2.27	0.52
29:D1:359:U:O4	29:D1:360:G:C6	2.63	0.52
29:D1:432:G:N3	29:D1:433:A:C8	2.77	0.52
29:D1:47:C:OP2	29:D1:48:A:O2'	2.28	0.52
29:D1:536:U:O2'	29:D1:538:G:N7	2.42	0.52
29:D1:513:G:C2	29:D1:577:C:N3	2.69	0.52
29:D1:608:A:C2'	29:D1:609:G:O5'	2.58	0.52
29:D1:642:U:C6	29:D1:644:G:OP2	2.62	0.52
29:D1:735:A:OP2	29:D1:735:A:C4	2.62	0.52
29:D1:759:U:O4	29:D1:760:G:N1	2.43	0.52
29:D1:822:G:C4	29:D1:823:C:C6	2.98	0.52
31:D3:119:C:O2'	31:D3:120:C:H5'	2.09	0.52
31:D3:140:G:C5	31:D3:141:C:C4	2.98	0.52
31:D3:56:G:N2	31:D3:57:C:H1'	2.25	0.52
31:D3:95:G:OP1	31:D3:96:A:OP2	2.28	0.52
37:DF:152:THR:HA	37:DF:156:LYS:CB	2.39	0.52
37:DF:166:LYS:O	37:DF:167:ASN:C	2.49	0.52
1:C1:684:A:H5'	1:C1:685:A:OP2	2.10	0.52
29:B1:2618:G:H4'	29:B1:2619:G:OP2	2.09	0.52
29:B1:2639:G:C2	29:B1:2640:A:C4	2.97	0.52
29:B1:2702:A:N7	29:B1:2704:A:N6	2.57	0.52
30:B2:77:G:N3	30:B2:101:G:C6	2.78	0.52
30:B2:69:C:C2	30:B2:110:G:C2	2.98	0.52
30:B2:78:U:C2	30:B2:79:A:C8	2.98	0.52
41:DJ:170:LYS:O	41:DJ:178:ARG:N	2.43	0.52
1:A1:283:U:C2'	1:A1:284:G:O4'	2.56	0.52
1:A1:452:A:N1	1:A1:454:U:OP2	2.43	0.52
1:A1:62:A:C2	1:A1:63:G:C5	2.98	0.52
30:D2:70:U:C2	30:D2:71:G:C8	2.97	0.52
1:C1:1689:A:C2'	1:C1:1689:A:N3	2.72	0.52
1:C1:1713:G:N2	1:C1:1714:A:N9	2.57	0.52
1:C1:1689:A:N6	1:C1:1716:C:C2	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1720:G:C2	1:C1:1721:A:H1'	2.45	0.52
1:A1:247:A:C8	1:A1:247:A:H3'	2.44	0.52
1:C1:1463:C:O2'	1:C1:1464:G:H5'	2.10	0.52
1:C1:1475:A:C5	1:C1:1476:C:C5	2.97	0.52
1:C1:1586:A:OP1	11:CJ:134:ALA:HB3	2.10	0.52
1:A1:1429:G:C6	1:A1:1430:U:C4	2.98	0.52
1:A1:1458:G:H3'	1:A1:1459:C:C5	2.45	0.52
29:D1:334:A:N3	29:D1:335:G:C8	2.77	0.52
29:D1:1421:G:N2	29:D1:1422:G:C4	2.78	0.52
30:B2:54:U:O2	30:B2:54:U:C2'	2.56	0.52
1:C1:887:A:C6	1:C1:888:U:C4	2.97	0.52
30:D2:46:A:O2'	30:D2:47:C:H5'	2.09	0.52
29:D1:71:A:H5''	29:D1:73:C:N3	2.25	0.52
29:D1:1240:A:H3'	29:D1:1241:U:H5''	1.91	0.52
9:CH:39:ILE:O	9:CH:40:ALA:CB	2.57	0.52
29:D1:1066:G:O5'	29:D1:1067:U:OP2	2.27	0.52
1:A1:1388:A:C5	1:A1:1411:A:N6	2.78	0.52
29:D1:1678:G:C2	29:D1:1679:A:C5	2.97	0.52
29:D1:3069:G:C6	29:D1:3070:A:N7	2.78	0.52
29:D1:3069:G:C2	29:D1:3070:A:C5	2.97	0.52
29:D1:3069:G:N1	29:D1:3070:A:C5	2.77	0.52
29:B1:3273:A:C4	29:B1:3274:A:C8	2.98	0.52
29:B1:3349:C:C4	29:B1:3350:C:N4	2.78	0.52
29:B1:1018:G:C6	74:B1:3529:OHX:N1	2.78	0.52
5:CD:198:LEU:O	5:CD:201:ALA:HB3	2.10	0.52
29:D1:1743:G:C2'	29:D1:1744:G:H5'	2.40	0.52
29:D1:2880:U:H1'	34:DC:250:ALA:CB	2.39	0.52
29:B1:1183:C:H2'	29:B1:1184:A:C5'	2.39	0.52
2:AA:19:ALA:O	2:AA:20:ALA:C	2.48	0.52
29:B1:1751:G:C6	29:B1:1752:A:C5	2.98	0.52
29:D1:661:G:C2	29:D1:802:C:H6	2.26	0.52
5:AD:59:VAL:O	5:AD:61:TYR:N	2.36	0.52
29:B1:2476:C:H2'	29:B1:2477:G:H4'	1.92	0.52
29:D1:2180:G:H2'	29:D1:2181:C:C6	2.45	0.52
1:C1:931:C:C2'	1:C1:932:U:OP1	2.57	0.52
29:B1:173:G:O6	29:B1:245:U:O2	2.27	0.52
1:A1:743:U:C4	1:A1:809:A:N3	2.78	0.52
29:D1:2572:C:N4	29:D1:2573:G:C6	2.78	0.52
29:D1:3049:A:C6	29:D1:3050:U:C2	2.98	0.52
1:A1:932:U:O4'	1:A1:933:A:C2	2.62	0.52
1:A1:932:U:O4'	1:A1:933:A:N3	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:28:ASN:O	46:BQ:30:ARG:N	2.43	0.52
33:BB:102:LEU:C	33:BB:104:LEU:H	2.13	0.52
29:D1:1867:A:H2'	29:D1:1868:G:H8	1.75	0.52
29:B1:440:A:N3	29:B1:440:A:H2'	2.25	0.52
5:AD:132:VAL:O	5:AD:136:ALA:HB2	2.09	0.52
17:CP:79:ASN:C	17:CP:81:LYS:H	2.13	0.52
34:BC:268:GLY:O	34:BC:269:GLN:CB	2.58	0.52
10:AI:75:PRO:O	10:AI:93:VAL:O	2.28	0.52
33:BB:207:VAL:O	33:BB:208:ASP:O	2.27	0.52
5:CD:47:SER:O	5:CD:48:PHE:CB	2.58	0.52
29:D1:1386:A:O2'	29:D1:1387:G:OP2	2.22	0.52
44:DO:175:ASN:O	44:DO:176:LYS:CB	2.57	0.52
1:A1:1042:G:C6	1:A1:1043:A:C6	2.97	0.52
1:A1:1073:G:C6	1:A1:1074:G:C5	2.98	0.52
1:A1:23:G:H2'	1:A1:24:U:C6	2.45	0.52
1:A1:537:G:N2	1:A1:538:A:C1'	2.73	0.52
1:A1:15:U:H1'	1:A1:619:A:C2	2.45	0.52
1:A1:867:G:C2	1:A1:868:G:C4	2.98	0.52
29:B1:1176:C:H3'	29:B1:1177:G:C5'	2.39	0.52
29:B1:1560:G:H22	29:B1:1579:C:H1'	1.73	0.52
29:B1:1852:G:C4	29:B1:1853:U:C5	2.97	0.52
29:B1:1939:G:H2'	29:B1:1940:G:C5'	2.39	0.52
29:B1:2113:A:H62	29:B1:2114:C:N4	2.08	0.52
29:B1:2137:U:C2	29:B1:2141:U:H5	2.28	0.52
29:B1:2822:U:H2'	29:B1:2823:G:O5'	2.10	0.52
29:B1:282:G:N3	29:B1:286:U:C4'	2.73	0.52
29:B1:3011:A:H1'	29:B1:3012:A:C1'	2.39	0.52
29:B1:307:A:C8	29:B1:307:A:C3'	2.93	0.52
29:B1:311:C:N4	29:B1:312:C:C4	2.78	0.52
29:B1:516:A:N3	29:B1:516:A:H2'	2.25	0.52
29:B1:592:A:N1	29:B1:593:C:C6	2.77	0.52
29:B1:606:C:C4	29:B1:607:A:N6	2.77	0.52
29:B1:639:G:C2'	29:B1:640:U:H5'	2.40	0.52
29:B1:651:G:O2'	29:B1:652:G:H5'	2.09	0.52
29:B1:759:U:C5	29:B1:773:G:O6	2.63	0.52
29:B1:92:G:C6	29:B1:94:G:N2	2.78	0.52
29:B1:964:G:H4'	54:BY:28:HIS:O	2.09	0.52
29:B1:980:A:OP2	29:B1:980:A:O4'	2.27	0.52
31:B3:101:U:C2'	31:B3:102:U:O5'	2.58	0.52
1:C1:353:A:OP2	74:C1:1908:OHX:N6	2.42	0.52
1:C1:195:G:O2'	1:C1:196:G:C5'	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:34:G:H2'	1:C1:35:U:C6	2.45	0.52
1:C1:93:A:N7	1:C1:398:G:H2'	2.23	0.52
1:C1:617:U:H2'	1:C1:618:U:C5	2.45	0.52
1:C1:940:A:C2	1:C1:941:A:C4	2.98	0.52
1:C1:956:C:H5''	1:C1:1073:G:O2'	2.10	0.52
29:D1:1056:U:O5'	29:D1:1056:U:C6	2.60	0.52
29:D1:1223:A:O2'	29:D1:1284:C:N4	2.43	0.52
29:D1:1500:G:C6	29:D1:1517:G:C6	2.98	0.52
29:D1:1517:G:C6	29:D1:1518:U:O4	2.63	0.52
29:D1:1556:C:O2	29:D1:1556:C:H2'	2.09	0.52
29:D1:1662:G:H1	29:D1:1787:A:N6	2.06	0.52
29:D1:2137:U:C4'	29:D1:2137:U:OP1	2.54	0.52
29:D1:2252:A:N3	29:D1:2253:G:C8	2.78	0.52
29:D1:2374:C:O2	29:D1:2374:C:H2'	2.10	0.52
29:D1:2717:U:O4	29:D1:2740:A:C6	2.63	0.52
29:D1:2888:U:C6	29:D1:2910:A:N1	2.78	0.52
29:D1:3326:G:N1	29:D1:3327:G:C5	2.77	0.52
29:D1:3332:U:H2'	29:D1:3333:G:OP2	2.10	0.52
29:D1:431:U:H5'	29:D1:431:U:H6	1.75	0.52
29:D1:563:U:O4	29:D1:564:G:C8	2.63	0.52
29:D1:583:G:N1	29:D1:584:G:C5	2.78	0.52
29:D1:639:G:O2'	29:D1:640:U:H5'	2.10	0.52
29:D1:779:G:C4	29:D1:780:A:N7	2.77	0.52
29:D1:889:U:H2'	29:D1:890:C:C6	2.42	0.52
29:D1:951:A:N3	29:D1:1369:A:N1	2.58	0.52
29:D1:960:U:O2	29:D1:960:U:O4'	2.28	0.52
31:D3:9:A:C5'	31:D3:10:A:OP2	2.57	0.52
31:D3:113:U:O2	31:D3:114:G:C8	2.63	0.52
31:D3:58:G:C2'	31:D3:99:C:O2'	2.58	0.52
44:DO:85:THR:CA	44:DO:87:GLN:N	2.73	0.52
29:D1:1941:C:OP2	48:DS:75:HIS:HA	2.09	0.52
54:DY:35:ALA:O	54:DY:36:GLY:C	2.47	0.52
1:C1:844:A:N6	74:C1:1917:OHX:N1	2.56	0.52
1:C1:824:G:H5''	1:C1:825:U:C5'	2.40	0.52
1:C1:847:A:C2'	1:C1:848:C:H5''	2.38	0.52
1:C1:642:G:C6	1:C1:643:G:C5	2.98	0.52
30:B2:112:G:P	30:B2:113:C:P	3.08	0.52
30:B2:112:G:O5'	30:B2:113:C:OP2	2.27	0.52
30:B2:15:C:C4	30:B2:16:U:C4	2.97	0.52
31:B3:64:U:N3	31:B3:97:A:C2	2.77	0.52
41:DJ:170:LYS:H	41:DJ:177:ASP:C	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:136:C:O2'	1:A1:137:U:OP1	2.26	0.52
1:A1:173:A:N1	1:A1:174:U:C1'	2.68	0.52
30:D2:12:U:OP2	30:D2:68:C:O3'	2.28	0.52
30:D2:12:U:C3'	30:D2:13:A:N1	2.71	0.52
30:D2:65:G:C2'	30:D2:66:A:O5'	2.58	0.52
1:C1:1203:A:C2	1:C1:1556:A:C4	2.98	0.52
1:C1:1230:A:H2'	1:C1:1230:A:N3	2.25	0.52
1:C1:1355:C:O2'	1:C1:1356:U:H5'	2.09	0.52
1:C1:1504:G:C6	1:C1:1505:A:C6	2.97	0.52
1:C1:1512:G:H2'	1:C1:1513:G:H8	1.75	0.52
1:C1:1540:G:C5	1:C1:1541:G:C5	2.97	0.52
1:C1:1600:A:OP1	1:C1:1600:A:C4'	2.51	0.52
1:A1:1232:U:P	1:A1:1258:U:O2'	2.68	0.52
1:A1:1267:G:H21	1:A1:1448:G:C4'	2.22	0.52
1:A1:1377:U:O2	1:A1:1378:U:C1'	2.57	0.52
1:A1:1454:G:C3'	1:A1:1455:G:H5'	2.40	0.52
1:A1:1570:A:N3	1:A1:1571:C:H1'	2.24	0.52
1:A1:1619:C:N3	1:A1:1620:C:H5	2.08	0.52
29:B1:3214:U:HO2'	29:B1:3218:A:P	2.31	0.52
29:B1:3215:A:P	29:B1:3218:A:C5'	2.98	0.52
29:B1:3281:U:C2	29:B1:3282:U:N3	2.78	0.52
29:B1:3234:A:N1	29:B1:3235:C:C4	2.78	0.52
29:B1:3245:A:C2	29:B1:3246:G:H1'	2.45	0.52
29:D1:1414:G:C4	29:D1:1415:U:C6	2.98	0.52
29:D1:224:C:C2'	29:D1:225:C:O5'	2.58	0.52
29:D1:397:A:C6	29:D1:400:G:C6	2.98	0.52
29:D1:3260:G:C6	29:D1:3261:C:C1'	2.93	0.52
1:C1:947:U:H2'	1:C1:948:G:O4'	2.10	0.52
1:A1:418:G:N2	1:A1:419:G:C4	2.78	0.52
29:D1:1270:A:H3'	29:D1:1271:A:H8	1.75	0.52
29:B1:2595:A:C8	29:B1:2596:U:C5	2.98	0.52
4:AC:66:ILE:O	4:AC:68:GLU:N	2.42	0.52
29:D1:3351:U:C2	29:D1:3351:U:OP2	2.63	0.52
29:D1:986:U:O2	29:D1:987:U:C6	2.62	0.52
1:C1:1294:G:O2'	1:C1:1321:A:N1	2.32	0.52
29:B1:1077:U:O2'	29:B1:1078:U:O4'	2.27	0.52
29:B1:1626:U:N3	29:B1:1627:U:C4	2.78	0.52
1:A1:1408:G:H1'	1:A1:1409:G:C2	2.45	0.52
29:B1:3273:A:O4'	29:B1:3273:A:P	2.67	0.52
1:A1:1125:A:N7	1:A1:1126:G:H1'	2.25	0.52
47:BR:116:LYS:O	47:BR:117:ALA:C	2.48	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1666:G:C2'	29:B1:1667:A:H5'	2.40	0.52
29:B1:2582:C:O2	29:B1:2582:C:H2'	2.08	0.52
29:D1:1931:U:C2	29:D1:2121:G:N3	2.78	0.52
29:B1:3350:C:O3'	29:B1:3354:U:C5	2.63	0.52
29:D1:1638:A:C2	29:D1:1736:G:N3	2.78	0.52
1:C1:1662:G:H2'	1:C1:1663:G:H8	1.75	0.52
29:B1:1034:U:O4'	29:B1:1034:U:O2	2.25	0.52
1:A1:789:A:N3	1:A1:789:A:H2'	2.24	0.52
29:D1:96:G:C2	29:D1:97:U:C6	2.98	0.52
3:CB:170:ILE:O	3:CB:196:VAL:HA	2.10	0.52
29:B1:2530:G:O2'	29:B1:2531:C:P	2.68	0.52
13:AL:78:HIS:O	13:AL:79:TYR:C	2.49	0.52
21:AT:39:ASP:O	21:AT:40:LYS:CB	2.58	0.52
1:C1:880:C:H2'	1:C1:881:A:C8	2.45	0.52
40:DI:40:HIS:O	40:DI:42:ASP:N	2.43	0.52
73:DM:14:LYS:O	73:DM:18:TYR:N	2.41	0.52
42:BK:139:THR:CB	42:BK:146:GLY:O	2.58	0.52
8:AG:127:ARG:C	8:AG:129:TYR:N	2.63	0.52
3:CB:59:HIS:C	3:CB:61:LEU:N	2.61	0.52
1:A1:563:U:C5'	1:A1:564:G:OP2	2.58	0.52
11:AJ:35:PRO:C	11:AJ:37:THR:N	2.64	0.52
50:BU:127:PRO:O	50:BU:130:ALA:CB	2.58	0.52
29:D1:1345:G:N7	74:D1:3480:OHX:N6	2.57	0.52
36:BE:227:LEU:HA	36:BE:228:ALA:C	2.29	0.52
34:DC:278:ILE:O	34:DC:280:HIS:N	2.41	0.52
29:D1:1673:G:C4	29:D1:1775:G:C2	2.98	0.52
55:BZ:51:LEU:O	55:BZ:53:LYS:N	2.37	0.52
1:A1:633:U:O2	1:A1:633:U:H2'	2.09	0.52
15:CN:28:SER:O	15:CN:87:HIS:O	2.28	0.52
50:DU:94:TYR:O	50:DU:95:PHE:CB	2.58	0.52
48:DS:12:ALA:O	48:DS:14:VAL:N	2.43	0.52
42:BK:131:MET:O	42:BK:132:ASN:CB	2.58	0.52
39:DH:123:GLN:HA	39:DH:126:SER:CB	2.40	0.52
40:DI:134:ILE:HA	40:DI:146:LEU:CB	2.40	0.52
1:A1:1043:A:C4	1:A1:1044:U:H5	2.28	0.52
1:A1:1053:G:C2	1:A1:1067:C:H1'	2.45	0.52
1:A1:104:A:C5'	1:A1:105:A:OP2	2.58	0.52
1:A1:1116:A:C5	1:A1:1117:U:C4	2.98	0.52
1:A1:1778:G:C6	1:A1:1779:U:O4	2.63	0.52
1:A1:381:C:O2'	1:A1:755:A:N1	2.42	0.52
1:A1:409:C:O4'	1:A1:1732:A:H4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:446:A:H2'	1:A1:447:U:H6	1.75	0.52
1:A1:518:A:C6	1:A1:535:A:N3	2.77	0.52
1:A1:37:U:P	1:A1:531:C:HO2'	2.33	0.52
1:A1:602:U:C2	1:A1:603:U:C5	2.98	0.52
1:A1:620:A:H2'	1:A1:621:A:C4	2.45	0.52
29:B1:1139:G:H2'	29:B1:1140:G:O4'	2.10	0.52
29:B1:1202:A:C2'	29:B1:1203:A:OP2	2.58	0.52
29:B1:1224:C:N3	29:B1:1286:A:C2	2.78	0.52
29:B1:1226:G:C2	29:B1:1227:C:C6	2.98	0.52
29:B1:1414:G:C4	29:B1:1415:U:C6	2.97	0.52
29:B1:1587:A:C4	29:B1:1590:G:C5	2.97	0.52
29:B1:1779:C:OP2	29:B1:1780:G:H8	1.92	0.52
29:B1:1791:C:H2'	29:B1:1792:C:C5	2.45	0.52
29:B1:1906:G:N3	29:B1:1908:A:N6	2.58	0.52
29:B1:221:A:C4	29:B1:224:C:C5	2.98	0.52
29:B1:190:U:H3	29:B1:221:A:H61	1.58	0.52
29:B1:2773:C:H2'	29:B1:2774:C:H6	1.74	0.52
29:B1:2775:U:O2'	29:B1:2776:C:H6	1.93	0.52
29:B1:2857:C:H2'	29:B1:2858:U:C6	2.45	0.52
29:B1:3097:C:O2'	29:B1:3098:G:O5'	2.27	0.52
29:B1:64:G:C6	29:B1:322:U:C5	2.98	0.52
29:B1:680:G:C6	29:B1:701:G:C6	2.98	0.52
29:B1:949:C:C2'	29:B1:950:G:H5'	2.39	0.52
29:B1:6:A:C2	31:B3:154:C:C2	2.98	0.52
31:B3:4:C:H2'	31:B3:5:U:C5'	2.39	0.52
31:B3:8:C:C2'	31:B3:9:A:H8	2.15	0.52
35:BD:162:THR:O	35:BD:166:VAL:N	2.43	0.52
37:BF:93:VAL:O	37:BF:97:ASN:N	2.39	0.52
44:BO:49:ARG:O	44:BO:50:ARG:C	2.47	0.52
1:C1:1042:G:C6	1:C1:1043:A:C6	2.98	0.52
1:C1:1046:G:N3	1:C1:1047:G:C8	2.78	0.52
1:C1:313:U:C5	1:C1:1118:G:C5	2.98	0.52
1:C1:1109:G:C4	1:C1:1137:A:N1	2.78	0.52
1:C1:1138:A:C6	1:C1:1139:A:C6	2.98	0.52
1:C1:1632:C:O2'	1:C1:1633:A:C8	2.50	0.52
1:C1:269:G:C6	1:C1:287:G:C2	2.98	0.52
1:C1:521:A:C3'	1:C1:523:G:C8	2.93	0.52
1:C1:606:A:C4	1:C1:608:U:C5	2.98	0.52
1:C1:15:U:O4'	1:C1:619:A:N1	2.43	0.52
1:C1:820:U:C2'	1:C1:821:U:O5'	2.58	0.52
29:D1:1139:G:C5	29:D1:1140:G:C8	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1156:C:O2	29:D1:1156:C:H2'	2.10	0.52
29:D1:1213:G:C2'	29:D1:1214:U:O5'	2.58	0.52
29:D1:1296:C:H2'	29:D1:1297:C:O5'	2.10	0.52
29:D1:1325:U:N3	29:D1:1326:A:N7	2.57	0.52
29:D1:1479:U:H5'	29:D1:1480:G:OP2	2.10	0.52
29:D1:20:A:O2'	29:D1:21:G:H2'	2.10	0.52
29:D1:2252:A:C2	29:D1:2253:G:C4	2.99	0.52
29:D1:2300:G:N3	29:D1:2300:G:H2'	2.25	0.52
29:D1:2325:G:C6	29:D1:2326:A:N7	2.78	0.52
29:D1:959:C:N4	29:D1:2801:A:C8	2.78	0.52
29:D1:2947:G:C2	29:D1:2948:C:C5	2.98	0.52
29:D1:3065:G:H2'	29:D1:3066:U:H6	1.74	0.52
29:D1:3292:A:O2'	29:D1:3293:U:H4'	2.09	0.52
29:D1:3315:G:C4'	29:D1:3319:U:O3'	2.58	0.52
29:D1:3317:U:H5	74:D1:3578:OHX:N6	2.08	0.52
29:D1:382:U:O3'	29:D1:384:A:OP2	2.27	0.52
29:D1:511:G:C2	29:D1:579:G:C2	2.97	0.52
29:D1:740:G:C5	29:D1:741:U:C5	2.98	0.52
29:D1:743:C:H4'	47:DR:142:GLY:CA	2.32	0.52
29:D1:759:U:N3	29:D1:773:G:C6	2.78	0.52
29:D1:781:G:C6	29:D1:782:U:C5	2.98	0.52
31:D3:68:G:O2'	31:D3:69:U:H5'	2.09	0.52
31:D3:91:C:H2'	31:D3:92:A:O4'	2.10	0.52
29:D1:1794:G:C2	33:DB:185:ALA:HB1	2.45	0.52
35:DD:66:GLY:O	35:DD:67:THR:C	2.48	0.52
54:DY:27:LYS:O	54:DY:29:PRO:N	2.43	0.52
29:B1:2619:G:OP1	29:B1:2619:G:C8	2.60	0.52
29:B1:957:C:O3'	29:B1:2799:A:H8	1.93	0.52
1:A1:177:U:H3'	1:A1:178:U:C5'	2.35	0.52
1:A1:290:G:H2'	1:A1:291:G:N7	2.24	0.52
1:C1:341:A:H5'	1:C1:342:C:OP2	2.10	0.52
42:BK:49:LYS:O	42:BK:50:ALA:HB2	2.10	0.52
1:C1:1186:U:C2'	1:C1:1187:U:H5'	2.39	0.52
1:C1:1196:A:C4'	1:C1:1197:C:C5'	2.83	0.52
1:C1:1203:A:C2	1:C1:1556:A:C1'	2.89	0.52
1:C1:1483:A:H5''	1:C1:1521:G:O2'	2.09	0.52
1:C1:1566:U:C2'	1:C1:1567:U:C5'	2.88	0.52
1:C1:1566:U:H2'	1:C1:1567:U:H5'	1.91	0.52
1:C1:1591:C:O2'	1:C1:1592:A:C5'	2.58	0.52
1:A1:1181:U:H2'	1:A1:1182:U:O5'	2.10	0.52
1:A1:1353:U:H3'	1:A1:1354:G:H8	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1478:G:O2'	1:A1:1479:A:O4'	2.28	0.52
1:A1:1560:U:O5'	1:A1:1560:U:C6	2.63	0.52
1:A1:1595:U:H6	1:A1:1596:C:C2	2.27	0.52
29:B1:3279:A:C5	29:B1:3280:U:C4	2.98	0.52
29:B1:3182:G:O5'	29:B1:3182:G:H8	1.93	0.52
30:B2:33:U:O2	30:B2:33:U:C2'	2.57	0.52
42:BK:46:VAL:O	42:BK:68:HIS:N	2.35	0.52
29:B1:1260:A:H8	29:B1:1260:A:O5'	1.93	0.52
30:D2:30:G:C6	30:D2:31:U:N3	2.78	0.52
29:B1:2590:A:C4	29:B1:2591:A:C8	2.98	0.52
38:DG:25:GLN:HA	38:DG:28:ALA:HB2	1.92	0.52
1:C1:1403:C:O2'	1:C1:1404:C:H5'	2.09	0.52
29:B1:1062:A:C3'	29:B1:1063:G:C5	2.82	0.52
1:C1:701:U:H2'	1:C1:702:G:O4'	2.10	0.52
1:C1:1651:A:C2	1:C1:1652:C:C4	2.98	0.52
29:D1:2213:A:C6	29:D1:2214:A:N6	2.78	0.52
36:DE:271:LYS:C	36:DE:275:THR:HA	2.31	0.52
1:C1:1750:A:C5	1:C1:1751:C:C4	2.98	0.52
12:AK:46:LEU:C	12:AK:48:ASN:N	2.63	0.52
29:B1:1348:U:O2'	29:B1:1349:G:C8	2.63	0.52
1:C1:1022:C:H5	1:C1:1023:A:C6	2.28	0.52
17:CP:132:LEU:H	17:CP:133:LEU:C	2.12	0.52
29:B1:2130:G:C6	29:B1:2323:G:C6	2.98	0.52
41:BJ:66:GLU:O	41:BJ:67:ALA:C	2.49	0.52
29:B1:1357:G:N3	29:B1:1357:G:H2'	2.24	0.52
18:AQ:41:ILE:HA	18:AQ:44:GLN:N	2.20	0.52
29:D1:2124:G:C2	29:D1:2330:C:C2	2.97	0.52
8:CG:107:LYS:O	8:CG:109:LYS:N	2.42	0.52
8:CG:108:ASP:O	8:CG:111:ALA:N	2.43	0.52
29:B1:2572:C:N4	29:B1:2573:G:C6	2.77	0.52
1:A1:809:A:O2'	1:A1:810:G:H5'	2.10	0.52
47:DR:43:PRO:C	47:DR:45:ASN:H	2.14	0.52
42:DK:133:ARG:N	42:DK:155:THR:N	2.55	0.52
16:CO:39:GLN:O	16:CO:40:VAL:C	2.49	0.52
29:B1:508:U:O4	74:B1:3544:OHX:N6	2.43	0.52
1:A1:1545:A:OP1	13:AL:132:ARG:HA	2.09	0.52
41:BJ:24:ARG:O	41:BJ:25:ALA:HB2	2.10	0.52
44:BO:120:TRP:O	44:BO:121:VAL:CB	2.57	0.52
1:C1:1441:C:H2'	1:C1:1442:U:C6	2.45	0.52
45:DP:109:PRO:O	45:DP:110:PRO:CB	2.58	0.52
29:D1:1735:G:N3	29:D1:1735:G:H2'	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:308:C:H4'	1:C1:309:C:OP1	2.10	0.52
8:AG:114:ARG:O	8:AG:117:LEU:N	2.43	0.52
3:CB:87:GLN:HA	3:CB:96:THR:HA	1.90	0.52
21:CT:219:GLU:CB	21:CT:235:SER:HA	2.40	0.52
1:A1:34:G:H2'	1:A1:35:U:C6	2.45	0.51
1:A1:471:A:O2'	1:A1:472:U:H5'	2.09	0.51
1:A1:32:U:O2	1:A1:595:G:C2	2.63	0.51
1:A1:623:A:N1	1:A1:1105:C:H4'	2.24	0.51
1:A1:755:A:H1'	1:A1:756:A:C8	2.45	0.51
1:A1:98:U:H2'	1:A1:98:U:O2	2.10	0.51
1:A1:989:U:C2	1:A1:990:C:C5	2.99	0.51
29:B1:1320:C:H5'	29:B1:1321:G:OP2	2.09	0.51
29:B1:1454:A:C8	29:B1:1454:A:H3'	2.44	0.51
29:B1:1481:A:H1'	29:B1:1858:A:C2	2.45	0.51
29:B1:154:U:P	29:B1:156:G:O6	2.68	0.51
29:B1:1658:G:C4	29:B1:1659:U:C5	2.98	0.51
29:B1:1453:A:C8	29:B1:1850:A:H2	2.28	0.51
29:B1:191:U:C6	29:B1:191:U:H5''	2.45	0.51
29:B1:2311:G:C2'	29:B1:2312:A:O5'	2.59	0.51
29:B1:2340:U:O2'	29:B1:2341:A:H5'	2.11	0.51
29:B1:2608:G:N3	29:B1:2609:A:C8	2.79	0.51
29:B1:264:G:C5	29:B1:265:A:C5	2.98	0.51
29:B1:3034:C:H3'	29:B1:3034:C:C6	2.45	0.51
29:B1:279:U:OP1	74:B1:3536:OHX:N3	2.43	0.51
29:B1:35:A:C6	29:B1:36:C:C4	2.99	0.51
29:B1:430:U:H2'	29:B1:431:U:H6	1.73	0.51
29:B1:569:A:C5	29:B1:570:A:C8	2.98	0.51
29:B1:60:A:C5	29:B1:328:U:N3	2.77	0.51
29:B1:3011:A:C2	34:BC:13:HIS:HA	2.44	0.51
1:C1:1115:U:H2'	1:C1:1115:U:O2	2.08	0.51
1:C1:168:A:H3'	1:C1:169:A:C8	2.45	0.51
1:C1:1777:G:C6	1:C1:1778:G:C5	2.98	0.51
1:C1:196:G:HO2'	1:C1:197:A:P	2.32	0.51
1:C1:312:A:C2	1:C1:314:C:H2'	2.45	0.51
1:C1:351:C:H4'	1:C1:352:A:OP2	2.10	0.51
1:C1:547:U:H1'	1:C1:596:C:H1'	1.92	0.51
1:C1:59:C:C4	1:C1:62:A:N6	2.77	0.51
1:C1:964:U:H4'	1:C1:965:U:O5'	2.10	0.51
1:C1:975:C:C4	1:C1:976:G:N7	2.78	0.51
1:C1:993:A:H2'	1:C1:994:G:H5'	1.92	0.51
1:C1:600:U:P	17:CP:108:GLY:H	2.32	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1131:G:H4'	29:D1:1132:C:OP2	2.10	0.51
29:D1:1448:U:O4	29:D1:2355:G:C4	2.63	0.51
29:D1:1465:A:N6	29:D1:1466:G:N1	2.58	0.51
29:D1:1902:G:OP2	29:D1:2919:A:P	2.67	0.51
29:D1:2113:A:H62	29:D1:2114:C:N4	2.08	0.51
29:D1:2290:C:C2'	29:D1:2291:A:O5'	2.58	0.51
29:D1:2420:C:N4	29:D1:2421:U:O4	2.43	0.51
29:D1:2608:G:N3	29:D1:2609:A:C8	2.78	0.51
29:D1:2626:A:N3	29:D1:2626:A:H3'	2.25	0.51
29:D1:2631:U:C4	29:D1:2648:G:N1	2.78	0.51
29:D1:310:U:N3	29:D1:2780:A:C6	2.71	0.51
29:D1:2419:A:C4	29:D1:2804:A:N7	2.78	0.51
29:D1:282:G:H4'	29:D1:283:G:H8	1.75	0.51
29:D1:2856:G:H2'	29:D1:2857:C:C6	2.45	0.51
29:D1:2990:G:H2'	29:D1:2991:A:H5'	1.92	0.51
29:D1:2994:A:O2'	29:D1:2995:A:H5'	2.10	0.51
29:D1:2912:G:O6	29:D1:3130:A:C6	2.63	0.51
29:D1:313:A:C5	29:D1:314:U:C4	2.97	0.51
29:D1:412:G:N2	29:D1:413:U:H1'	2.26	0.51
29:D1:416:A:C2	29:D1:417:A:C8	2.98	0.51
29:D1:420:G:C5	29:D1:2384:A:C2	2.97	0.51
29:D1:41:G:N7	29:D1:42:C:C4	2.77	0.51
29:D1:593:C:C2'	29:D1:594:U:H4'	2.12	0.51
29:D1:63:A:H2'	29:D1:64:G:C8	2.45	0.51
29:D1:866:A:H5'	29:D1:867:G:OP2	2.10	0.51
29:D1:947:G:C4	29:D1:1373:A:C2	2.98	0.51
29:D1:974:G:N1	29:D1:975:C:C4	2.77	0.51
31:D3:140:G:N1	31:D3:141:C:C2	2.78	0.51
31:D3:43:A:H2'	31:D3:44:A:O4'	2.10	0.51
44:DO:82:GLY:HA2	44:DO:87:GLN:H	1.74	0.51
1:A1:832:U:H2'	1:A1:832:U:O2	2.10	0.51
1:C1:648:G:N1	1:C1:649:U:C4	2.78	0.51
1:C1:660:G:H22	1:C1:683:C:N4	2.08	0.51
29:B1:955:U:C4	29:B1:956:U:O4	2.63	0.51
30:B2:72:A:C4	30:B2:73:C:C5	2.98	0.51
31:B3:66:A:C6	31:B3:67:U:C4	2.98	0.51
1:A1:167:U:C5'	1:A1:167:U:C6	2.88	0.51
1:A1:188:A:N6	1:A1:189:C:O2	2.43	0.51
1:A1:269:G:C2	1:A1:287:G:C2	2.98	0.51
30:D2:105:C:O2	30:D2:105:C:C2'	2.57	0.51
30:D2:63:A:C2	30:D2:65:G:C6	2.97	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2673:A:C2	29:B1:2674:A:N7	2.78	0.51
1:A1:1676:U:H2'	1:A1:1677:C:C6	2.44	0.51
1:A1:244:A:H2'	1:A1:245:U:H6	1.75	0.51
1:C1:1569:A:H2'	1:C1:1570:A:H8	1.75	0.51
1:A1:1201:G:C5	1:A1:1202:A:O4'	2.63	0.51
29:B1:3030:G:H2'	29:B1:3031:G:O4'	2.11	0.51
29:B1:1281:G:C6	29:B1:1282:G:N7	2.78	0.51
29:B1:1262:G:O6	74:B1:3563:OHX:N2	2.44	0.51
29:D1:3228:C:C3'	29:D1:3229:G:C8	2.92	0.51
29:D1:3262:U:C2	29:D1:3263:G:C8	2.98	0.51
29:D1:986:U:C2	29:D1:987:U:C5	2.97	0.51
29:B1:345:G:N2	29:B1:349:A:OP2	2.36	0.51
2:CA:176:LEU:O	2:CA:177:LEU:C	2.47	0.51
29:B1:3222:U:O2	29:B1:3223:A:H1'	2.11	0.51
29:D1:3006:A:C8	29:D1:3007:U:N1	2.79	0.51
29:D1:126:U:H5	74:D1:3447:OHX:N1	2.07	0.51
29:D1:1685:C:H2'	29:D1:1687:U:C5	2.45	0.51
29:B1:3273:A:O2'	29:B1:3274:A:H4'	2.10	0.51
1:C1:923:A:O2'	1:C1:924:A:H5'	2.09	0.51
1:C1:1039:A:N7	1:C1:1091:A:C2	2.78	0.51
29:D1:1038:C:OP1	29:D1:1038:C:C4'	2.57	0.51
1:A1:923:A:O2'	1:A1:924:A:H5'	2.10	0.51
48:DS:83:GLY:O	48:DS:84:THR:C	2.48	0.51
29:B1:3351:U:O4'	29:B1:3351:U:O2	2.27	0.51
29:B1:1933:A:C2'	29:B1:1934:G:H5'	2.40	0.51
34:BC:299:ASP:H	34:BC:303:LYS:CB	2.23	0.51
29:B1:365:A:N1	29:B1:366:A:N3	2.59	0.51
6:AE:73:GLY:C	6:AE:75:ALA:N	2.62	0.51
29:B1:141:C:H2'	29:B1:142:C:O4'	2.10	0.51
29:D1:1493:G:O5'	29:D1:1493:G:N3	2.43	0.51
29:B1:2576:G:H2'	29:B1:2577:C:C6	2.45	0.51
1:A1:569:C:H1'	1:A1:583:C:C5'	2.37	0.51
29:B1:665:A:C6	29:B1:666:A:C5	2.98	0.51
29:B1:665:A:H2'	29:B1:666:A:H5'	1.90	0.51
29:B1:1916:U:O2'	29:B1:1917:C:H5'	2.10	0.51
20:AS:41:GLN:CB	74:AS:101:OHX:N1	2.73	0.51
29:B1:735:A:OP2	29:B1:735:A:C4	2.63	0.51
5:CD:135:ASP:HA	5:CD:138:THR:CB	2.40	0.51
1:A1:932:U:H4'	1:A1:933:A:O4'	2.10	0.51
34:DC:76:VAL:HA	34:DC:325:LYS:CA	2.41	0.51
2:AA:52:LYS:C	2:AA:54:TRP:N	2.62	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1135:A:O2'	29:D1:1136:A:H5'	2.10	0.51
10:AI:80:MET:C	10:AI:82:ASN:N	2.64	0.51
48:DS:95:TRP:O	48:DS:96:ILE:C	2.47	0.51
34:DC:215:ILE:O	34:DC:216:ASP:CB	2.58	0.51
72:DL:82:ILE:C	72:DL:84:ALA:N	2.62	0.51
10:AI:115:TYR:O	10:AI:118:GLU:CB	2.59	0.51
32:BA:4:ILE:O	32:BA:5:THR:C	2.48	0.51
48:DS:24:LEU:O	48:DS:26:PRO:N	2.43	0.51
54:DY:67:HIS:CB	54:DY:107:ALA:O	2.58	0.51
54:DY:11:HIS:O	54:DY:12:ARG:O	2.27	0.51
42:DK:79:ILE:C	42:DK:81:GLU:H	2.12	0.51
1:A1:1106:U:C2'	1:A1:1107:G:H5'	2.40	0.51
1:A1:1109:G:N1	1:A1:1110:G:C5	2.78	0.51
1:A1:1150:G:C6	1:A1:1151:A:C4	2.98	0.51
1:A1:1728:A:C4	1:A1:1729:C:C6	2.97	0.51
1:A1:1777:G:C4	1:A1:1778:G:C8	2.99	0.51
29:B1:1103:A:HO2'	29:B1:1104:G:P	2.27	0.51
29:B1:1209:G:H2'	29:B1:1210:U:C6	2.45	0.51
29:B1:1317:A:C4	29:B1:1319:G:N7	2.79	0.51
29:B1:1371:G:H5''	29:B1:1371:G:C8	2.45	0.51
29:B1:1604:G:C5	29:B1:1605:A:C5	2.99	0.51
29:B1:1689:U:C2'	29:B1:1690:C:H5'	2.40	0.51
29:B1:185:C:C2	29:B1:186:U:H5	2.28	0.51
29:B1:2133:U:H6	29:B1:2133:U:O5'	1.94	0.51
29:B1:2250:G:N2	29:B1:2267:C:C2	2.60	0.51
29:B1:2419:A:C4	29:B1:2804:A:N7	2.78	0.51
29:B1:2423:U:H2'	29:B1:2424:A:OP2	2.09	0.51
29:B1:2895:G:H2'	29:B1:2896:A:H8	1.74	0.51
29:B1:2948:C:C5'	29:B1:2948:C:H6	2.23	0.51
29:B1:2998:U:C5'	29:B1:2998:U:C6	2.89	0.51
29:B1:3060:C:H2'	29:B1:3061:G:H8	1.75	0.51
29:B1:3344:A:H2	29:B1:3360:C:N4	2.07	0.51
29:B1:3361:G:N7	29:B1:3362:A:C8	2.77	0.51
29:B1:3:U:H2'	29:B1:4:U:H6	1.75	0.51
29:B1:44:U:C5	29:B1:45:A:C8	2.98	0.51
29:B1:817:A:H4'	29:B1:818:C:OP2	2.09	0.51
29:B1:960:U:O3'	29:B1:961:C:H4'	2.10	0.51
29:B1:977:C:O2'	29:B1:978:G:P	2.68	0.51
31:B3:103:G:C5	31:B3:105:A:C6	2.98	0.51
31:B3:106:C:H1'	31:B3:107:G:OP2	2.10	0.51
1:C1:10:G:N1	1:C1:11:A:C4	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:186:C:N4	1:C1:187:G:C5	2.78	0.51
1:C1:280:U:C3'	1:C1:281:G:H8	2.19	0.51
1:C1:426:G:C6	1:C1:427:C:C4	2.98	0.51
1:C1:451:A:C2	1:C1:454:U:O4	2.64	0.51
1:C1:571:G:H3'	1:C1:572:C:C6	2.45	0.51
1:C1:757:A:C5	1:C1:758:U:C6	2.96	0.51
1:C1:994:G:H2'	1:C1:995:A:C8	2.46	0.51
29:D1:1379:G:H1	29:D1:1427:U:H3	1.58	0.51
29:D1:1466:G:C6	29:D1:1511:U:C6	2.97	0.51
29:D1:1578:C:N3	29:D1:1579:C:O2	2.43	0.51
29:D1:1453:A:C8	29:D1:1850:A:H2	2.29	0.51
29:D1:2112:U:H1'	29:D1:2113:A:P	2.50	0.51
29:D1:2167:A:C3'	29:D1:2168:A:H8	2.23	0.51
29:D1:421:G:O6	29:D1:2383:C:O2	2.29	0.51
29:D1:2712:U:C2'	29:D1:2713:U:O5'	2.58	0.51
29:D1:2925:C:C5	29:D1:2926:A:C5	2.98	0.51
29:D1:2933:A:OP1	29:D1:3015:G:H4'	2.10	0.51
29:D1:3024:A:H3'	29:D1:3025:C:H6	1.73	0.51
29:D1:3065:G:O2'	29:D1:3066:U:O5'	2.22	0.51
29:D1:3109:G:C2	29:D1:3110:C:C6	2.97	0.51
29:D1:332:C:C5'	29:D1:332:C:H6	2.24	0.51
29:D1:2255:A:P	74:D1:3415:OHX:N5	2.83	0.51
29:D1:2877:G:O6	74:D1:3530:OHX:N1	2.42	0.51
29:D1:413:U:O2'	29:D1:414:U:H5'	2.10	0.51
29:D1:516:A:H2	29:D1:574:U:O2	1.93	0.51
29:D1:807:A:C8	29:D1:807:A:C3'	2.94	0.51
29:D1:822:G:N2	29:D1:823:C:H1'	2.25	0.51
29:D1:917:A:C2	29:D1:918:C:C2	2.99	0.51
31:D3:113:U:H1'	31:D3:114:G:P	2.45	0.51
31:D3:115:C:C2'	31:D3:116:G:O5'	2.59	0.51
31:D3:124:G:H4'	31:D3:124:G:OP1	2.10	0.51
31:D3:131:A:O2'	31:D3:132:G:P	2.68	0.51
31:D3:90:U:H2'	31:D3:91:C:C6	2.45	0.51
1:A1:223:U:O2	1:A1:838:G:N2	2.31	0.51
1:A1:840:U:O2'	1:A1:841:U:P	2.68	0.51
1:A1:826:U:O2	1:A1:847:A:N1	2.44	0.51
1:A1:850:A:C2	1:A1:851:U:C2	2.98	0.51
1:C1:693:U:H2'	1:C1:694:U:OP1	2.09	0.51
1:C1:743:U:P	1:C1:743:U:H3'	2.50	0.51
29:B1:2698:G:H2'	29:B1:2699:G:C5'	2.27	0.51
30:B2:60:G:C2	30:B2:61:G:C5	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:75:G:H21	30:B2:105:C:N4	2.07	0.51
1:A1:288:A:C2	1:A1:289:U:H5	2.27	0.51
1:C1:1683:C:O3'	1:C1:1684:U:C2	2.63	0.51
1:A1:112:A:O2'	1:A1:113:U:O5'	2.24	0.51
1:A1:213:A:H2'	1:A1:214:G:C5'	2.40	0.51
1:A1:248:U:C4'	1:A1:249:U:OP1	2.58	0.51
1:C1:1196:A:N7	1:C1:1602:C:H4'	2.25	0.51
1:C1:1348:A:C3'	1:C1:1349:G:H5''	2.40	0.51
1:C1:1378:U:H3'	1:C1:1379:C:C4'	2.41	0.51
1:C1:1491:U:H5''	1:C1:1492:A:H5''	1.91	0.51
1:C1:1495:C:H6	1:C1:1495:C:O5'	1.92	0.51
1:C1:1591:C:C2'	1:C1:1592:A:H8	2.20	0.51
1:A1:1494:C:H2'	1:A1:1495:C:C6	2.44	0.51
1:A1:1584:G:C2'	1:A1:1584:G:N3	2.73	0.51
4:CC:46:THR:CB	4:CC:84:ILE:HA	2.39	0.51
29:D1:2684:C:O2'	29:D1:2685:C:O4'	2.19	0.51
29:B1:3198:U:O2	29:B1:3199:G:C5	2.62	0.51
31:D3:16:G:C6	74:D3:212:OHX:N6	2.78	0.51
29:B1:1262:G:OP2	29:B1:1262:G:H8	1.92	0.51
29:B1:1279:C:H2'	29:B1:1280:C:O4'	2.09	0.51
29:D1:3216:G:O2'	29:D1:3217:C:OP2	2.18	0.51
29:D1:2520:A:C5	29:D1:2521:U:N3	2.76	0.51
1:A1:640:U:C4	1:A1:641:G:C6	2.98	0.51
29:D1:1236:G:H3'	29:D1:1237:G:H5''	1.92	0.51
29:D1:1269:U:N3	29:D1:1272:C:N4	2.58	0.51
4:CC:11:LEU:O	4:CC:12:VAL:C	2.48	0.51
29:B1:334:A:C2'	29:B1:335:G:H8	2.05	0.51
1:A1:1285:U:O2	1:A1:1286:U:C5	2.64	0.51
29:D1:1099:A:H2'	29:D1:1100:U:H5'	1.93	0.51
1:C1:1651:A:H2'	1:C1:1651:A:N3	2.24	0.51
33:BB:82:VAL:O	33:BB:83:HIS:C	2.48	0.51
29:D1:1945:A:H2'	29:D1:1946:A:H8	1.75	0.51
29:D1:1078:U:H5'	29:D1:1079:A:OP2	2.10	0.51
1:A1:1124:A:O2'	1:A1:1125:A:H5'	2.10	0.51
29:B1:1714:A:H1'	29:B1:1731:A:C6	2.45	0.51
29:D1:2173:U:H2'	29:D1:2174:G:OP1	2.09	0.51
29:B1:26:A:C8	29:B1:27:C:H5	2.28	0.51
29:B1:3349:C:H2'	29:B1:3350:C:N1	2.24	0.51
1:C1:1733:C:C4	1:C1:1734:U:C5	2.98	0.51
1:A1:775:G:N2	1:A1:786:C:C2	2.78	0.51
1:C1:1297:G:N2	1:C1:1301:U:N1	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:261:MET:HA	34:DC:263:SER:C	2.30	0.51
29:D1:141:C:H2'	29:D1:142:C:O4'	2.10	0.51
29:B1:1180:A:C5	29:B1:1182:A:N7	2.78	0.51
17:CP:126:LYS:O	17:CP:127:VAL:CB	2.56	0.51
1:A1:1694:A:C4'	1:A1:1695:G:OP1	2.58	0.51
42:DK:134:PRO:CB	42:DK:152:HIS:CB	2.89	0.51
3:AB:118:ALA:CB	3:AB:124:ALA:H	2.24	0.51
29:D1:2157:G:N2	29:D1:2178:A:OP2	2.42	0.51
46:DQ:99:ALA:O	46:DQ:102:ALA:HB3	2.10	0.51
1:C1:933:A:H62	1:C1:935:U:H1'	1.76	0.51
33:DB:82:VAL:O	33:DB:84:THR:N	2.43	0.51
1:C1:1085:G:N2	1:C1:1089:U:C2	2.78	0.51
1:C1:736:C:O2'	1:C1:737:A:H5'	2.10	0.51
29:D1:710:A:O2'	29:D1:711:A:C5'	2.58	0.51
29:B1:898:U:H2'	29:B1:899:U:O4'	2.10	0.51
29:D1:2732:G:C4	29:D1:2733:A:C8	2.99	0.51
29:D1:1888:U:H2'	29:D1:1889:G:O4'	2.11	0.51
38:DG:120:THR:O	38:DG:123:THR:CB	2.57	0.51
14:AM:15:ILE:O	14:AM:19:ALA:N	2.43	0.51
51:BV:4:GLU:HA	51:BV:13:ILE:O	2.09	0.51
39:BH:100:GLU:C	39:BH:102:ALA:N	2.62	0.51
41:BJ:98:ARG:CB	41:BJ:120:GLY:HA3	2.40	0.51
48:DS:25:ASP:C	48:DS:27:ASN:N	2.63	0.51
39:BH:116:VAL:O	39:BH:119:GLY:N	2.43	0.51
6:AE:175:ARG:C	6:AE:177:ALA:H	2.13	0.51
15:CN:83:GLU:H	20:CS:53:ASN:CB	2.22	0.51
4:CC:41:VAL:HA	4:CC:45:LYS:O	2.10	0.51
48:DS:124:TYR:HA	48:DS:127:SER:CB	2.41	0.51
1:A1:1075:C:N4	1:A1:1076:A:H61	2.07	0.51
1:A1:18:C:H2'	1:A1:19:A:H8	1.74	0.51
1:A1:426:G:C6	1:A1:427:C:C4	2.98	0.51
1:A1:439:U:C5	1:A1:465:G:N2	2.79	0.51
1:A1:546:U:O5'	1:A1:546:U:H6	1.93	0.51
1:A1:990:C:H2'	1:A1:991:G:O4'	2.10	0.51
29:B1:1220:U:P	29:B1:1223:A:H4'	2.50	0.51
29:B1:1284:C:H5	29:B1:1285:G:N2	2.06	0.51
29:B1:1780:G:O2'	29:B1:1781:C:O5'	2.29	0.51
29:B1:1858:A:C2'	29:B1:1859:A:OP1	2.57	0.51
29:B1:913:A:H2	29:B1:2134:G:N3	2.08	0.51
29:B1:2253:G:C6	29:B1:2254:U:N3	2.78	0.51
29:B1:2406:C:C1'	29:B1:2819:A:C6	2.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:644:G:N1	29:B1:2868:U:OP1	2.41	0.51
29:B1:287:G:C2'	29:B1:288:C:O5'	2.59	0.51
29:B1:3055:U:O3'	29:B1:3056:U:C6	2.63	0.51
29:B1:3143:C:OP2	29:B1:3144:G:H5''	2.11	0.51
29:B1:3321:C:O2'	29:B1:3322:A:C8	2.38	0.51
29:B1:3390:G:C6	29:B1:3391:A:C6	2.99	0.51
29:B1:762:U:C5	74:B1:3479:OHX:N5	2.79	0.51
29:B1:1148:G:N7	74:B1:3503:OHX:N4	2.58	0.51
29:B1:370:U:C5	29:B1:371:G:C4	2.99	0.51
29:B1:432:G:H1	29:B1:627:U:H3	1.57	0.51
29:B1:595:G:N2	29:B1:609:G:H4'	2.26	0.51
29:B1:637:C:N3	29:B1:638:C:C4	2.78	0.51
29:B1:953:G:O4'	29:B1:1115:G:H4'	2.10	0.51
31:B3:138:A:N3	31:B3:138:A:H2'	2.25	0.51
37:BF:21:THR:N	37:BF:112:THR:CA	2.59	0.51
46:BQ:125:GLN:CB	46:BQ:141:SER:H	2.24	0.51
1:C1:1637:C:C4'	1:C1:1637:C:OP2	2.58	0.51
1:C1:612:U:H4'	1:C1:1099:U:C6	2.45	0.51
29:D1:1335:C:C4	29:D1:1336:U:C5	2.98	0.51
29:D1:155:G:H4'	29:D1:156:G:OP1	2.10	0.51
29:D1:1607:U:OP2	29:D1:1607:U:C6	2.63	0.51
29:D1:1654:A:C2	29:D1:1655:G:H1'	2.45	0.51
29:D1:1883:A:C2	29:D1:1884:A:C4	2.98	0.51
29:D1:2186:U:C2'	29:D1:2187:G:O5'	2.58	0.51
29:D1:2276:G:C6	29:D1:2277:C:C4	2.99	0.51
29:D1:2279:A:C8	29:D1:2288:G:O6	2.62	0.51
29:D1:2714:G:O6	29:D1:2741:C:N3	2.44	0.51
29:D1:282:G:H4'	29:D1:283:G:OP2	2.05	0.51
29:D1:2945:G:N3	29:D1:2945:G:C5'	2.73	0.51
29:D1:3088:G:H5''	29:D1:3089:C:OP2	2.10	0.51
29:D1:3112:G:N2	29:D1:3121:U:C2	2.79	0.51
29:D1:3303:G:C5	29:D1:3305:A:C6	2.98	0.51
29:D1:3341:U:C3'	29:D1:3343:G:H22	2.23	0.51
29:D1:593:C:C2	29:D1:594:U:H4'	2.45	0.51
29:D1:593:C:C4	29:D1:594:U:O2'	2.62	0.51
29:D1:774:G:H2'	29:D1:775:A:C5'	2.39	0.51
29:D1:79:U:N3	29:D1:80:G:N7	2.59	0.51
29:D1:807:A:H3'	29:D1:808:A:C5'	2.37	0.51
29:D1:36:C:H4'	29:D1:808:A:C2	2.45	0.51
29:D1:941:G:H2'	29:D1:942:U:O4'	2.11	0.51
29:D1:943:U:O2'	29:D1:944:C:H5''	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:58:G:OP1	31:D3:98:U:N3	2.43	0.51
29:D1:519:A:N6	37:DF:30:LEU:HA	2.25	0.51
44:DO:83:LYS:C	44:DO:85:THR:H	2.11	0.51
1:A1:739:G:N3	1:A1:740:A:N7	2.59	0.51
1:A1:827:C:H4'	1:A1:828:U:OP1	2.08	0.51
1:A1:649:U:C4	1:A1:685:A:N1	2.77	0.51
29:B1:2730:G:C4	29:B1:2731:U:C6	2.99	0.51
30:B2:68:C:O2'	30:B2:69:C:O5'	2.27	0.51
30:B2:75:G:OP1	74:B2:201:OHX:N6	2.43	0.51
30:D2:113:C:C2	30:D2:114:U:C5	2.98	0.51
30:D2:70:U:O2'	30:D2:71:G:C5'	2.58	0.51
30:D2:79:A:C2	30:D2:80:G:C1'	2.93	0.51
1:C1:1683:C:OP2	1:C1:1684:U:P	2.69	0.51
1:C1:1190:C:N3	1:C1:1194:A:C2	2.79	0.51
1:C1:1368:G:C6	1:C1:1369:U:C4	2.99	0.51
1:C1:1452:U:C4	1:C1:1453:G:N7	2.79	0.51
1:C1:1608:U:C2'	1:C1:1609:U:H5''	2.40	0.51
1:A1:1156:C:O2'	1:A1:1157:A:H5'	2.09	0.51
1:A1:1210:C:H2'	1:A1:1210:C:O2	2.08	0.51
1:A1:1230:A:OP1	1:A1:1256:A:H5'	2.10	0.51
1:A1:1240:U:C3'	1:A1:1241:G:C5'	2.89	0.51
1:A1:1374:C:C3'	1:A1:1375:A:C8	2.93	0.51
4:CC:80:ALA:C	4:CC:82:GLY:N	2.63	0.51
29:B1:381:U:H3	29:B1:387:A:H61	1.56	0.51
46:BQ:9:THR:N	46:BQ:10:ASN:CA	2.73	0.51
29:B1:3219:G:H4'	29:B1:3220:G:O5'	2.11	0.51
30:D2:27:A:H3'	30:D2:28:C:H6	1.74	0.51
29:B1:1255:C:C4	74:B1:3567:OHX:N5	2.77	0.51
29:D1:3283:U:H2'	29:D1:3284:G:C8	2.46	0.51
29:D1:1230:G:C5	29:D1:1231:A:N7	2.78	0.51
29:D1:2753:G:C2	29:D1:2754:G:C8	2.98	0.51
29:D1:1625:A:C8	29:D1:1626:U:O4'	2.63	0.51
1:C1:1409:G:C8	1:C1:1411:A:OP2	2.63	0.51
2:CA:6:THR:C	2:CA:8:ASP:H	2.13	0.51
29:B1:1065:A:O3'	29:B1:1066:G:C8	2.64	0.51
1:A1:886:U:H3'	1:A1:887:A:H8	1.75	0.51
29:D1:2128:C:C4	29:D1:2129:U:C4	2.98	0.51
29:D1:126:U:C5	74:D1:3447:OHX:N1	2.79	0.51
9:AH:21:ALA:CB	9:AH:26:THR:HA	2.39	0.51
1:A1:1022:C:O2'	1:A1:1125:A:N1	2.42	0.51
29:B1:1729:A:P	55:BZ:27:TYR:CB	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1035:G:C4	29:D1:1036:A:H8	2.28	0.51
1:A1:1327:C:O2'	4:AC:158:ILE:CB	2.58	0.51
29:B1:3268:A:C1'	29:B1:3269:U:P	2.99	0.51
9:CH:61:MET:C	9:CH:63:ALA:H	2.13	0.51
29:B1:1583:A:H2'	29:B1:1584:U:O5'	2.10	0.51
18:AQ:41:ILE:C	18:AQ:43:ASP:N	2.64	0.51
29:B1:2561:A:N6	29:B1:2579:G:C4	2.78	0.51
1:C1:789:A:H3'	1:C1:790:U:C6	2.44	0.51
3:CB:148:LEU:O	3:CB:195:ASP:CB	2.57	0.51
36:DE:20:PHE:O	36:DE:21:ARG:CB	2.56	0.51
17:AP:89:ASN:O	17:AP:90:ASP:CB	2.58	0.51
29:B1:2573:G:C6	29:B1:2574:G:C5	2.98	0.51
29:B1:2573:G:N7	74:B1:3558:OHX:N3	2.58	0.51
29:B1:245:U:O4'	29:B1:245:U:O2	2.26	0.51
29:B1:908:G:N7	29:B1:925:A:C4	2.79	0.51
3:AB:235:LEU:O	3:AB:236:PRO:C	2.49	0.51
16:AO:116:ALA:C	16:AO:118:ARG:N	2.55	0.51
49:DT:14:MET:O	49:DT:16:GLN:N	2.34	0.51
33:DB:112:ILE:HA	33:DB:165:VAL:H	1.76	0.51
40:DI:159:ALA:O	40:DI:160:ASP:C	2.49	0.51
4:AC:41:VAL:HA	4:AC:45:LYS:O	2.11	0.51
41:DJ:61:SER:HA	41:DJ:126:ALA:HB1	1.93	0.51
6:AE:157:ASP:O	6:AE:159:ALA:N	2.40	0.51
49:DT:98:HIS:O	49:DT:99:SER:CB	2.58	0.51
33:DB:144:ASN:HA	33:DB:159:SER:H	1.76	0.51
1:A1:1697:G:O6	1:A1:1709:C:N3	2.42	0.51
4:CC:56:GLN:O	4:CC:59:LEU:N	2.34	0.51
46:BQ:117:ILE:O	46:BQ:147:GLU:O	2.28	0.51
38:DG:126:LEU:O	38:DG:127:LEU:C	2.48	0.51
45:DP:154:ALA:O	45:DP:157:GLU:CB	2.58	0.51
1:A1:380:U:O2	1:A1:380:U:C2'	2.57	0.51
1:A1:44:U:OP1	1:A1:47:A:OP2	2.29	0.51
1:A1:52:U:O2'	1:A1:53:G:H5'	2.09	0.51
1:A1:555:A:H2'	1:A1:555:A:P	2.50	0.51
29:B1:1168:U:H2'	29:B1:1169:A:C5'	2.41	0.51
29:B1:158:G:O6	29:B1:159:A:N3	2.43	0.51
29:B1:1908:A:H2'	29:B1:1909:A:O4'	2.11	0.51
29:B1:2155:G:H2'	29:B1:2156:C:H6	1.73	0.51
29:B1:2200:U:C2	29:B1:2201:G:C8	2.98	0.51
29:B1:2253:G:C5	29:B1:2254:U:C2	2.97	0.51
29:B1:1204:A:H1'	29:B1:2855:U:H1'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3063:C:C2	29:B1:3064:U:H5	2.28	0.51
29:B1:3100:U:O2'	29:B1:3101:G:H8	1.93	0.51
29:B1:3121:U:H4'	29:B1:3122:A:C5'	2.40	0.51
29:B1:3321:C:N3	29:B1:3322:A:N7	2.58	0.51
29:B1:3144:G:C5	74:B1:3428:OHX:N1	2.78	0.51
29:B1:373:A:N1	29:B1:375:A:C6	2.78	0.51
29:B1:536:U:C6	29:B1:536:U:O5'	2.64	0.51
29:B1:592:A:C2'	29:B1:593:C:C2'	2.81	0.51
29:B1:60:A:N7	29:B1:327:A:C2	2.78	0.51
29:B1:725:G:H1	29:B1:744:A:N6	2.08	0.51
29:B1:895:A:C2	29:B1:897:U:C5	2.98	0.51
29:B1:974:G:N1	29:B1:975:C:C4	2.79	0.51
31:B3:40:A:H8	31:B3:40:A:C5'	2.15	0.51
54:BY:14:HIS:O	54:BY:15:VAL:CB	2.57	0.51
1:C1:1142:A:C8	1:C1:1142:A:C5'	2.93	0.51
1:C1:130:C:O2	1:C1:136:C:N3	2.43	0.51
1:C1:269:G:C5	1:C1:270:C:C5	2.99	0.51
1:C1:454:U:O4	1:C1:456:A:C4	2.62	0.51
29:D1:1139:G:N2	29:D1:1140:G:H1'	2.25	0.51
29:D1:1180:A:N1	29:D1:1182:A:C5	2.78	0.51
29:D1:1193:A:H8	29:D1:1194:G:N2	2.08	0.51
29:D1:1303:A:N7	29:D1:1304:A:C6	2.78	0.51
29:D1:1319:G:O2'	29:D1:1320:C:H6	1.93	0.51
29:D1:1428:A:OP2	54:DY:1:MET:CB	2.57	0.51
29:D1:659:G:C6	29:D1:1432:C:N3	2.78	0.51
29:D1:2253:G:C5	29:D1:2254:U:N3	2.78	0.51
29:D1:2254:U:O4	74:D1:3583:OHX:N6	2.43	0.51
29:D1:2297:U:N3	29:D1:2299:A:C6	2.78	0.51
29:D1:2300:G:N2	29:D1:2301:U:H1'	2.25	0.51
29:D1:1891:A:N6	29:D1:2345:A:N6	2.58	0.51
29:D1:2393:G:O2'	29:D1:2394:G:OP2	2.22	0.51
29:D1:2827:U:H1'	29:D1:2828:G:N7	2.26	0.51
29:D1:2841:G:C4	29:D1:2844:C:N4	2.79	0.51
29:D1:2837:A:H2'	29:D1:2845:A:C2	2.46	0.51
29:D1:286:U:C2'	29:D1:287:G:C8	2.73	0.51
29:D1:3086:A:H2'	29:D1:3087:A:H8	1.75	0.51
29:D1:3149:G:C2'	29:D1:3150:A:H5'	2.40	0.51
29:D1:3298:C:H2'	29:D1:3299:A:H8	1.76	0.51
29:D1:34:A:N3	29:D1:810:A:O2'	2.37	0.51
29:D1:585:A:C5	29:D1:586:C:N4	2.78	0.51
29:D1:595:G:H22	29:D1:610:G:P	2.33	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:609:G:C8	29:D1:610:G:N1	2.78	0.51
29:D1:680:G:O6	29:D1:701:G:O6	2.28	0.51
29:D1:876:A:H2'	29:D1:877:C:H5'	1.92	0.51
29:D1:88:A:H8	29:D1:88:A:O5'	1.93	0.51
29:D1:917:A:H2'	29:D1:917:A:N3	2.25	0.51
29:D1:946:U:H2'	29:D1:946:U:O2	2.09	0.51
29:D1:980:A:O4'	29:D1:980:A:OP2	2.27	0.51
29:D1:993:G:C5	29:D1:2637:A:C2	2.99	0.51
35:DD:42:VAL:O	35:DD:45:ASN:N	2.31	0.51
37:DF:145:LEU:O	37:DF:149:ILE:CB	2.58	0.51
1:A1:837:G:C5	74:A1:1917:OHX:N6	2.78	0.51
1:A1:660:G:H22	1:A1:683:C:N4	2.09	0.51
1:A1:647:G:C2	1:A1:687:G:N1	2.78	0.51
29:B1:2648:G:C6	29:B1:2649:A:N7	2.79	0.51
29:B1:351:A:H8	31:B3:53:A:O2'	1.93	0.51
29:B1:968:G:H2'	29:B1:969:C:C6	2.46	0.51
30:B2:62:U:H3'	30:B2:63:A:H8	1.75	0.51
31:B3:79:A:H3'	31:B3:80:A:H8	1.74	0.51
1:A1:148:A:C8	1:A1:149:C:C5	2.99	0.51
1:A1:167:U:H6	1:A1:167:U:H5'	1.73	0.51
1:C1:1675:C:O2'	1:C1:1678:A:C8	2.60	0.51
1:C1:1723:U:H2'	1:C1:1724:U:O4'	2.10	0.51
1:C1:252:U:HO2'	1:C1:253:A:P	2.32	0.51
1:C1:335:U:C5	1:C1:336:G:C5	2.99	0.51
29:D1:2683:U:H2'	29:D1:2683:U:O2	2.10	0.51
42:BK:50:ALA:C	42:BK:62:ASN:HA	2.31	0.51
1:A1:333:A:C2	1:A1:334:G:C2	2.99	0.51
1:C1:1448:G:C2'	1:C1:1449:U:H5'	2.40	0.51
1:C1:1466:G:C5	1:C1:1467:C:N4	2.78	0.51
1:C1:1534:G:C4'	1:C1:1536:G:O6	2.59	0.51
1:C1:1542:G:N2	1:C1:1568:C:C6	2.79	0.51
1:C1:1586:A:H2'	1:C1:1587:A:O4'	2.10	0.51
1:C1:1591:C:O2'	1:C1:1592:A:O5'	2.26	0.51
1:A1:1158:C:N4	1:A1:1163:A:H61	2.05	0.51
1:A1:1204:A:C2'	1:A1:1204:A:N3	2.73	0.51
1:A1:1184:A:H1'	1:A1:1210:C:H1'	1.91	0.51
1:A1:1431:C:C3'	1:A1:1432:U:C5'	2.89	0.51
1:A1:1591:C:O2'	1:A1:1592:A:P	2.68	0.51
29:D1:3201:C:C2'	29:D1:3202:G:C8	2.85	0.51
29:D1:200:C:N4	29:D1:217:U:C6	2.78	0.51
29:D1:3278:C:O2	29:D1:3279:A:N7	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:693:U:H2'	1:A1:694:U:OP1	2.09	0.51
36:BE:100:ALA:O	36:BE:104:LEU:N	2.43	0.51
29:B1:2592:G:C5	74:B1:3449:OHX:N3	2.79	0.51
29:B1:2232:A:OP2	74:B1:3599:OHX:N5	2.44	0.51
29:D1:1063:G:O2'	29:D1:1064:A:C5'	2.58	0.51
29:B1:333:G:O2'	29:B1:334:A:H5'	2.10	0.51
1:C1:1293:U:C2'	1:C1:1294:G:H5'	2.39	0.51
1:C1:1293:U:H2'	1:C1:1294:G:H5'	1.92	0.51
1:C1:1311:U:O2	1:C1:1313:A:C8	2.63	0.51
1:C1:1388:A:C6	1:C1:1411:A:C6	2.99	0.51
29:B1:3262:U:P	29:B1:3262:U:H3'	2.49	0.51
29:B1:1063:G:H5'	29:B1:1098:A:OP2	2.10	0.51
29:D1:3141:A:C2	29:D1:3143:C:O3'	2.64	0.51
1:A1:1650:U:C2'	1:A1:1651:A:H8	2.22	0.51
29:B1:2352:A:O3'	46:BQ:85:ALA:HB3	2.09	0.51
29:D1:2583:C:C2'	29:D1:2584:G:C8	2.88	0.51
29:B1:1638:A:C2	29:B1:1736:G:N3	2.78	0.51
29:B1:2207:A:H8	29:B1:2237:C:C2	2.28	0.51
39:BH:208:GLU:O	39:BH:210:ALA:N	2.43	0.51
29:D1:1818:U:H2'	29:D1:1819:U:N3	2.25	0.51
1:A1:1358:G:O2'	14:AM:129:GLN:O	2.26	0.51
2:CA:146:LEU:HA	2:CA:160:ILE:CA	2.40	0.51
1:C1:951:A:H2'	1:C1:952:A:O4'	2.10	0.51
29:D1:2573:G:C6	29:D1:2574:G:C5	2.97	0.51
5:CD:134:VAL:C	5:CD:136:ALA:H	2.14	0.51
1:C1:1623:C:N3	1:C1:1624:C:C5	2.78	0.51
1:A1:930:A:H3'	1:A1:931:C:H6	1.76	0.51
1:A1:876:G:C8	1:A1:944:A:C2	2.98	0.51
16:AO:117:ARG:O	16:AO:118:ARG:O	2.28	0.51
11:CJ:35:PRO:C	11:CJ:37:THR:N	2.64	0.51
44:BO:143:ARG:HA	44:BO:146:ALA:HB2	1.91	0.51
29:D1:1700:G:C6	29:D1:1701:C:C4	2.98	0.51
49:BT:35:LYS:O	49:BT:37:GLY:N	2.44	0.51
2:CA:57:LEU:O	2:CA:60:ALA:HB3	2.11	0.51
39:BH:153:ILE:O	39:BH:180:VAL:N	2.43	0.51
5:AD:65:ARG:O	5:AD:88:PRO:N	2.43	0.51
21:CT:297:ASP:O	21:CT:298:GLY:C	2.49	0.51
43:DN:18:GLY:O	43:DN:19:ARG:CB	2.58	0.51
40:BI:141:LYS:O	40:BI:142:ASP:CB	2.58	0.51
33:BB:219:ILE:O	33:BB:220:GLY:O	2.28	0.51
1:A1:991:G:N2	1:A1:1014:G:O6	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1092:A:C2	1:A1:1094:G:N7	2.79	0.51
1:A1:1138:A:H2'	1:A1:1139:A:H8	1.74	0.51
1:A1:1140:G:C2	1:A1:1141:G:N7	2.78	0.51
1:A1:1141:G:C2'	1:A1:1142:A:H5''	2.40	0.51
1:A1:1631:A:C4'	1:A1:1764:C:H1'	2.41	0.51
1:A1:1673:G:H2'	1:A1:1674:C:H5'	1.90	0.51
1:A1:856:A:H2'	1:A1:856:A:N3	2.26	0.51
1:A1:986:G:HO2'	1:A1:987:G:P	2.34	0.51
29:B1:1108:U:C2	29:B1:1109:U:C5	2.99	0.51
29:B1:1131:G:H4'	29:B1:1132:C:OP2	2.09	0.51
29:B1:1399:A:C2'	29:B1:1399:A:N3	2.73	0.51
29:B1:1504:A:C8	29:B1:1505:C:H5	2.29	0.51
29:B1:1660:C:O2'	29:B1:1661:G:C8	2.58	0.51
29:B1:1843:C:N3	29:B1:1844:C:C5	2.79	0.51
29:B1:1878:G:H3'	29:B1:1879:A:C5'	2.39	0.51
29:B1:1908:A:N6	29:B1:1909:A:N1	2.58	0.51
29:B1:208:C:C4	29:B1:209:A:N7	2.78	0.51
29:B1:2143:A:C3'	29:B1:2143:A:C8	2.93	0.51
29:B1:2221:G:H5''	29:B1:2221:G:H8	1.76	0.51
29:B1:2253:G:H3'	29:B1:2254:U:H5	1.69	0.51
29:B1:2279:A:N7	29:B1:2288:G:C6	2.79	0.51
29:B1:2279:A:C2	29:B1:2283:G:C2	2.99	0.51
29:B1:2290:C:C2'	29:B1:2291:A:O5'	2.58	0.51
29:B1:165:A:N1	29:B1:257:U:O4	2.44	0.51
29:B1:2896:A:C8	29:B1:2896:A:C5'	2.93	0.51
29:B1:2963:C:O2'	29:B1:2964:G:H5'	2.11	0.51
29:B1:2993:G:C2'	29:B1:2993:G:N3	2.72	0.51
29:B1:3035:A:C6	29:B1:3036:G:N7	2.79	0.51
29:B1:3042:U:C5	29:B1:3043:C:C5	2.98	0.51
29:B1:3117:C:C4	29:B1:3118:C:C6	2.99	0.51
29:B1:363:G:H3'	29:B1:364:G:H5''	1.90	0.51
29:B1:557:A:O5'	29:B1:557:A:C8	2.64	0.51
29:B1:751:A:N6	29:B1:783:A:C6	2.79	0.51
29:B1:907:G:OP1	29:B1:909:G:H1'	2.11	0.51
29:B1:932:U:C4'	29:B1:933:A:H5''	2.40	0.51
1:C1:1640:C:O5'	1:C1:1640:C:H6	1.93	0.51
74:C1:1924:OHX:N4	74:C1:1964:OHX:N5	2.59	0.51
1:C1:267:U:O4	1:C1:268:C:C4	2.63	0.51
1:C1:379:U:P	1:C1:379:U:O3'	2.69	0.51
1:C1:539:G:C2	1:C1:543:C:N3	2.79	0.51
1:C1:545:A:N7	1:C1:594:A:N7	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:571:G:C2'	1:C1:571:G:N3	2.74	0.51
1:C1:624:G:H1'	1:C1:1027:A:N3	2.25	0.51
1:C1:865:A:H2'	1:C1:866:G:H8	1.76	0.51
29:D1:1199:C:O2	29:D1:1199:C:C2'	2.58	0.51
29:D1:1372:C:C2'	29:D1:1373:A:H5'	2.40	0.51
29:D1:1556:C:O2	29:D1:1556:C:C2'	2.58	0.51
29:D1:1891:A:C6	29:D1:2345:A:N6	2.79	0.51
29:D1:2299:A:C5	29:D1:2300:G:N7	2.78	0.51
29:D1:2396:G:O2'	29:D1:2398:A:C4'	2.55	0.51
29:D1:2992:U:O4	29:D1:2993:G:H8	1.93	0.51
29:D1:3012:A:C5	29:D1:3013:U:C5	2.99	0.51
29:D1:3091:A:N3	29:D1:3094:A:C8	2.78	0.51
29:D1:3368:U:H6	29:D1:3368:U:H5'	1.75	0.51
29:D1:382:U:H3'	29:D1:383:G:C4'	2.40	0.51
29:D1:510:G:N1	29:D1:511:G:C4	2.78	0.51
29:D1:556:U:C3'	29:D1:557:A:O4'	2.58	0.51
29:D1:595:G:C5	29:D1:596:C:C5	2.98	0.51
29:D1:595:G:H3'	29:D1:595:G:C8	2.46	0.51
29:D1:692:A:H2'	29:D1:693:A:O4'	2.11	0.51
29:D1:712:G:H2'	29:D1:713:U:O4'	2.10	0.51
29:D1:883:A:C6	29:D1:921:A:C6	2.98	0.51
29:D1:920:A:H5''	29:D1:922:U:C5	2.46	0.51
29:D1:92:G:O6	29:D1:94:G:N2	2.44	0.51
30:B2:98:C:C2'	30:B2:98:C:O2	2.54	0.51
31:B3:56:G:C2	31:B3:57:C:N1	2.78	0.51
31:B3:61:A:C2'	31:B3:62:C:OP2	2.58	0.51
31:B3:76:C:O2'	53:BX:76:LEU:CB	2.59	0.51
1:A1:130:C:C6	1:A1:131:C:H4'	2.46	0.51
1:A1:130:C:O2	1:A1:136:C:N3	2.44	0.51
1:A1:130:C:H3'	1:A1:131:C:H4'	1.93	0.51
30:D2:12:U:N1	30:D2:70:U:OP1	2.43	0.51
1:C1:1678:A:H2	1:C1:1725:U:C2	2.28	0.51
1:A1:1721:A:O5'	1:A1:1722:A:O5'	2.28	0.51
1:A1:1721:A:H3'	1:A1:1722:A:C4'	2.41	0.51
1:A1:1678:A:H2	1:A1:1725:U:C2	2.27	0.51
1:C1:1160:A:H2'	1:C1:1161:C:C5	2.43	0.51
1:C1:1354:G:C6	1:C1:1355:C:C4	2.99	0.51
1:C1:1474:G:C4	1:C1:1475:A:N7	2.79	0.51
1:C1:1485:C:H3'	1:C1:1486:G:C5'	2.37	0.51
1:C1:1493:A:OP2	1:C1:1494:C:P	2.69	0.51
1:C1:1498:G:C2	1:C1:1499:G:C8	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1537:C:H5'	1:C1:1538:U:OP1	2.10	0.51
1:C1:1558:U:N1	1:C1:1559:A:H2	2.08	0.51
1:C1:1571:C:H5''	1:C1:1572:G:OP2	2.11	0.51
10:CI:81:ARG:HA	10:CI:117:GLY:H	1.74	0.51
1:A1:1200:G:H5'	1:A1:1201:G:H8	1.73	0.51
1:A1:1203:A:C4'	1:A1:1204:A:OP2	2.57	0.51
1:A1:1254:U:O2'	1:A1:1255:G:O5'	2.25	0.51
1:A1:1274:C:OP2	1:A1:1427:A:H3'	2.11	0.51
1:A1:1458:G:C2	1:A1:1459:C:N4	2.79	0.51
1:A1:1491:U:C2'	1:A1:1492:A:H2'	2.40	0.51
1:A1:1498:G:C2	1:A1:1510:U:O2	2.63	0.51
29:B1:1196:C:N3	30:B2:86:U:C4	2.78	0.51
29:B1:1461:A:H2'	29:B1:1462:A:H8	1.74	0.51
29:B1:3280:U:O2	29:B1:3281:U:C6	2.63	0.51
29:B1:3199:G:C3'	29:B1:3200:G:C8	2.89	0.51
29:D1:3203:U:OP2	29:D1:3203:U:H3'	2.10	0.51
29:B1:1237:G:H5''	29:B1:1238:C:C6	2.45	0.51
29:D1:3215:A:C5'	29:D1:3218:A:C5'	2.84	0.51
30:D2:48:U:C6	30:D2:49:G:O6	2.64	0.51
1:C1:157:A:HO2'	1:C1:158:U:H5'	1.75	0.51
29:D1:1229:G:C4	29:D1:1230:G:C8	2.98	0.51
73:DM:32:ASN:O	73:DM:33:VAL:CB	2.58	0.51
29:B1:2433:U:H5''	29:B1:2434:U:OP2	2.10	0.51
29:D1:1631:C:O5'	29:D1:1813:A:N1	2.43	0.51
38:DG:36:ALA:O	38:DG:37:ASN:C	2.48	0.51
29:D1:1101:G:N3	29:D1:1101:G:H2'	2.25	0.51
29:D1:3141:A:H2	29:D1:3144:G:P	2.34	0.51
29:B1:1811:G:N1	29:B1:1812:G:C8	2.78	0.51
1:A1:1389:C:N4	1:A1:1391:A:H1'	2.25	0.51
29:D1:3070:A:C6	29:D1:3071:U:C4	2.98	0.51
29:B1:1013:G:N2	29:B1:1038:C:C2	2.78	0.51
1:A1:921:U:C2	1:A1:922:G:N7	2.79	0.51
1:A1:353:A:C6	1:A1:354:C:C2	2.99	0.51
1:A1:1579:U:N3	1:A1:1580:C:C4	2.79	0.51
1:C1:1657:U:N3	74:C1:1955:OHX:N1	2.59	0.51
36:DE:87:GLY:O	36:DE:241:THR:CB	2.58	0.51
29:B1:1029:G:O5'	29:B1:1029:G:H8	1.92	0.51
29:B1:2204:C:C2'	29:B1:2205:U:H5''	2.41	0.51
36:BE:233:ALA:O	36:BE:234:ASP:O	2.27	0.51
37:BF:115:GLU:O	37:BF:117:LYS:N	2.42	0.51
42:BK:80:LEU:C	42:BK:82:ARG:H	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:20:ALA:O	2:AA:22:THR:N	2.42	0.51
36:BE:199:ILE:O	36:BE:201:GLY:N	2.44	0.51
17:CP:44:GLY:C	17:CP:46:SER:N	2.60	0.51
29:D1:2487:U:H4'	29:D1:2488:A:OP2	2.08	0.51
29:D1:2156:C:O2'	29:D1:2157:G:H5'	2.11	0.51
29:B1:733:G:N2	29:B1:736:A:N1	2.58	0.51
29:D1:2792:A:C2'	29:D1:2793:G:H5'	2.41	0.51
29:D1:102:C:C4'	29:D1:103:G:OP1	2.58	0.51
1:C1:729:G:H8	1:C1:729:G:OP2	1.91	0.51
29:D1:2574:G:O2'	29:D1:2575:G:H5'	2.11	0.51
74:A1:1929:OHX:N3	74:A1:1979:OHX:N3	2.59	0.51
1:C1:563:U:O4	1:C1:564:G:O6	2.28	0.51
29:B1:1868:G:C5	29:B1:1869:C:C6	2.98	0.51
35:DD:254:ALA:O	35:DD:255:PHE:C	2.48	0.51
29:B1:2511:A:H2'	29:B1:2512:C:C5'	2.41	0.51
12:CK:23:LYS:CB	12:CK:64:GLY:O	2.59	0.51
29:D1:242:C:H2'	29:D1:243:G:O5'	2.10	0.51
34:DC:145:GLU:O	34:DC:149:ALA:N	2.43	0.51
4:AC:114:ALA:C	4:AC:116:ARG:H	2.14	0.51
3:CB:80:VAL:HA	3:CB:102:VAL:CB	2.40	0.51
72:DL:54:LYS:O	72:DL:55:GLY:O	2.27	0.51
16:AO:78:ARG:O	16:AO:79:PHE:CB	2.58	0.51
34:DC:116:ARG:O	34:DC:117:ARG:CB	2.57	0.51
40:BI:28:VAL:HA	40:BI:32:GLY:O	2.10	0.51
1:A1:1086:A:H2	1:A1:1141:G:N3	2.07	0.51
1:A1:23:G:C6	1:A1:24:U:C4	2.98	0.51
1:A1:395:U:O4	1:A1:396:G:N1	2.43	0.51
1:A1:400:A:C5'	1:A1:401:A:H5'	2.41	0.51
29:B1:1139:G:C5	29:B1:1140:G:C8	2.99	0.51
29:B1:1311:G:C2'	29:B1:1312:C:O5'	2.58	0.51
29:B1:1611:G:H2'	29:B1:1612:A:C8	2.46	0.51
29:B1:1687:U:C2'	29:B1:1688:U:H4'	2.41	0.51
29:B1:1797:A:H2'	29:B1:1798:A:H8	1.76	0.51
29:B1:1845:G:H2'	29:B1:1846:C:OP1	2.11	0.51
29:B1:2140:U:OP1	29:B1:2141:U:OP2	2.29	0.51
29:B1:2198:A:C4	29:B1:2199:G:C8	2.99	0.51
29:B1:2251:G:C2	29:B1:2252:A:C8	2.98	0.51
29:B1:2376:G:O6	29:B1:2377:G:O6	2.28	0.51
29:B1:3390:G:N1	29:B1:3391:A:C4	2.78	0.51
29:B1:3390:G:N3	29:B1:3391:A:H1'	2.25	0.51
29:B1:396:A:O2'	29:B1:397:A:C5'	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:527:A:C6	29:B1:566:G:C6	2.99	0.51
29:B1:692:A:C2	29:B1:693:A:C4	2.99	0.51
29:B1:774:G:H2'	29:B1:775:A:C5'	2.40	0.51
29:B1:820:A:N3	29:B1:911:C:O2'	2.35	0.51
31:B3:18:U:N3	31:B3:19:C:C4	2.77	0.51
1:C1:1101:G:O2'	1:C1:1102:G:H5'	2.11	0.51
1:C1:1149:G:N2	1:C1:1150:G:O6	2.44	0.51
1:C1:142:G:N7	1:C1:266:A:C5	2.73	0.51
1:C1:1631:A:H2'	1:C1:1632:C:C4'	2.39	0.51
1:C1:1636:C:C4	1:C1:1638:G:C2	2.99	0.51
1:C1:386:G:HO2'	1:C1:387:A:P	2.34	0.51
1:C1:38:C:H2'	1:C1:39:A:H5''	1.92	0.51
1:C1:528:U:H3	1:C1:530:C:N4	2.08	0.51
1:C1:55:A:C3'	1:C1:56:U:C5'	2.89	0.51
1:C1:63:G:H2'	1:C1:64:U:O4'	2.11	0.51
1:C1:757:A:N3	1:C1:758:U:C6	2.78	0.51
1:C1:863:A:C2'	1:C1:865:A:H8	2.24	0.51
1:C1:973:A:H5'	29:D1:848:A:C2	2.46	0.51
29:D1:1406:A:H2'	29:D1:1407:A:C8	2.45	0.51
29:D1:1455:U:C2'	29:D1:1456:A:C8	2.93	0.51
29:D1:1489:A:C4	29:D1:1490:A:C8	2.99	0.51
29:D1:1908:A:C5	29:D1:1909:A:C5	2.99	0.51
29:D1:2277:C:O2'	29:D1:2278:C:O5'	2.23	0.51
29:D1:2762:A:H2'	29:D1:2763:U:C6	2.45	0.51
29:D1:280:U:C2	29:D1:282:G:O2'	2.57	0.51
29:D1:2959:C:C5'	29:D1:2960:C:OP2	2.59	0.51
29:D1:3099:C:H3'	29:D1:3099:C:OP2	2.10	0.51
29:D1:3147:G:H2'	29:D1:3148:U:O5'	2.09	0.51
29:D1:3301:U:C2'	29:D1:3302:U:C5	2.93	0.51
29:D1:3322:A:OP2	29:D1:3323:A:P	2.69	0.51
29:D1:3377:G:O4'	29:D1:3378:C:H5'	2.11	0.51
29:D1:384:A:C4	29:D1:1465:A:N1	2.78	0.51
29:D1:387:A:H2'	29:D1:388:G:O4'	2.11	0.51
29:D1:46:U:C6	29:D1:46:U:C3'	2.94	0.51
29:D1:518:G:C8	29:D1:518:G:H5''	2.46	0.51
29:D1:559:A:C4	29:D1:560:G:C8	2.98	0.51
29:D1:611:A:C4'	29:D1:611:A:OP1	2.53	0.51
29:D1:611:A:C3'	29:D1:612:U:H5''	2.19	0.51
29:D1:715:A:H5''	54:DY:114:GLY:O	2.10	0.51
29:D1:407:A:N1	31:D3:17:A:C1'	2.73	0.51
1:C1:692:C:N3	1:C1:693:U:N3	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2649:A:C6	29:B1:2650:U:C5	2.99	0.51
29:B1:2696:A:N7	29:B1:2697:A:C6	2.79	0.51
30:B2:82:G:C5	30:B2:99:G:C2	2.98	0.51
29:D1:378:A:C3'	29:D1:378:A:C4	2.92	0.51
1:C1:1351:G:C6	1:C1:1352:G:N7	2.79	0.51
1:C1:1181:U:H4'	10:CI:127:ARG:CB	2.41	0.51
1:A1:1170:G:H2'	1:A1:1170:G:N3	2.26	0.51
1:A1:1237:G:C5	1:A1:1238:A:N7	2.79	0.51
1:A1:1349:G:H3'	1:A1:1349:G:P	2.51	0.51
29:B1:1464:G:N3	29:B1:1464:G:H2'	2.25	0.51
29:B1:389:A:H5'	46:BQ:17:ALA:HA	1.91	0.51
29:B1:3282:U:O2'	29:B1:3283:U:C5	2.63	0.51
29:B1:3203:U:H2'	29:B1:3204:C:C2	2.46	0.51
46:DQ:111:LYS:O	46:DQ:113:TYR:N	2.44	0.51
37:DF:21:THR:O	37:DF:111:LEU:N	2.43	0.51
29:B1:3234:A:C2	29:B1:3253:G:N2	2.72	0.51
29:D1:1393:A:N7	29:D1:1418:A:N7	2.59	0.51
29:D1:233:C:H2'	29:D1:234:G:O4'	2.10	0.51
30:D2:43:U:C4	30:D2:44:C:C5	2.99	0.51
29:D1:1273:A:H3'	29:D1:1274:A:H8	1.75	0.51
29:D1:3314:A:C2'	34:DC:119:TYR:H	2.21	0.51
1:C1:1389:C:C4	1:C1:1391:A:O4'	2.64	0.51
29:B1:1065:A:O3'	29:B1:1066:G:H8	1.94	0.51
46:DQ:77:GLY:O	46:DQ:79:THR:N	2.43	0.51
1:A1:1391:A:H2'	1:A1:1392:U:H6	1.75	0.51
29:D1:1084:A:C6	29:D1:1085:A:C6	2.99	0.51
29:B1:1731:A:C8	29:B1:1732:U:C5	2.99	0.51
43:DN:76:ALA:O	43:DN:79:ALA:N	2.43	0.51
20:CS:38:ILE:O	20:CS:41:GLN:N	2.42	0.51
1:C1:486:G:O6	1:C1:487:G:C5	2.64	0.51
1:C1:487:G:HO2'	1:C1:488:G:H8	1.59	0.51
29:B1:1011:A:N6	29:B1:1039:U:H3	1.88	0.51
29:B1:1945:A:H2'	29:B1:1946:A:C8	2.46	0.51
9:AH:60:ALA:O	9:AH:63:ALA:CB	2.54	0.51
29:B1:1920:U:H1'	29:B1:1933:A:C6	2.46	0.51
29:B1:1747:G:C5	29:B1:1748:G:C8	2.98	0.51
29:B1:3270:U:H4'	29:B1:3271:G:O5'	2.11	0.51
34:DC:261:MET:HA	34:DC:263:SER:O	2.09	0.51
29:D1:2861:U:C2'	29:D1:2862:U:H6	2.21	0.51
41:DJ:20:SER:O	41:DJ:22:TYR:N	2.44	0.51
46:DQ:25:SER:CB	46:DQ:29:THR:H	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DU:46:LEU:O	50:DU:47:ASN:CB	2.59	0.51
1:C1:214:G:O2'	1:C1:215:A:OP1	2.28	0.51
3:AB:188:LEU:O	3:AB:189:GLN:C	2.48	0.51
29:D1:2476:C:H2'	29:D1:2477:G:H4'	1.91	0.51
29:B1:1491:A:H2'	29:B1:1492:G:O4'	2.10	0.51
36:DE:118:THR:C	36:DE:120:LYS:H	2.14	0.51
38:DG:219:LYS:O	38:DG:221:LYS:N	2.43	0.51
13:AL:98:TYR:O	13:AL:99:HIS:CB	2.59	0.51
1:C1:568:G:C2	1:C1:569:C:C6	2.99	0.51
29:B1:1720:U:H6	29:B1:1720:U:H3'	1.75	0.51
32:DA:56:PRO:O	32:DA:57:ASN:CB	2.58	0.51
19:AR:7:VAL:O	19:AR:8:THR:C	2.49	0.51
29:B1:672:A:N6	29:B1:791:A:N6	2.58	0.51
1:C1:908:U:C5	1:C1:909:U:C5	2.99	0.51
35:BD:215:ILE:C	35:BD:217:LYS:N	2.62	0.51
1:C1:1305:U:OP2	1:C1:1306:C:N4	2.40	0.51
49:BT:9:SER:C	49:BT:11:THR:H	2.14	0.51
29:D1:2974:U:H2'	29:D1:2975:U:H6	1.74	0.51
5:AD:182:ALA:O	5:AD:184:PHE:N	2.43	0.51
38:BG:233:GLU:CB	38:BG:234:GLU:CB	2.89	0.51
48:DS:25:ASP:C	48:DS:27:ASN:H	2.13	0.51
29:B1:2957:G:H5'	29:B1:2957:G:H8	1.76	0.51
29:B1:2710:C:H3'	29:B1:2710:C:C6	2.46	0.51
15:AN:101:LYS:O	15:AN:103:ILE:N	2.43	0.51
12:AK:12:ALA:HA	12:AK:15:ALA:HB3	1.91	0.51
1:A1:1109:G:N1	1:A1:1110:G:N7	2.59	0.51
1:A1:10:G:N2	1:A1:11:A:H1'	2.26	0.51
1:A1:18:C:H5'	1:A1:1137:A:N6	2.26	0.51
1:A1:392:G:H2'	1:A1:393:C:O4'	2.11	0.51
1:A1:41:A:C2	1:A1:438:A:C5	2.99	0.51
1:A1:44:U:C3'	1:A1:45:U:H5'	2.38	0.51
29:B1:1152:G:O2'	29:B1:1153:A:P	2.69	0.51
29:B1:1217:A:C5'	29:B1:1218:U:OP2	2.57	0.51
29:B1:1513:G:N1	29:B1:1515:A:H1'	2.26	0.51
29:B1:1602:A:C6	29:B1:1603:A:N1	2.79	0.51
29:B1:2152:A:O2'	29:B1:2153:U:H5'	2.10	0.51
29:B1:2289:U:H2'	29:B1:2290:C:H5'	1.93	0.51
29:B1:2297:U:C2	29:B1:2299:A:C6	2.99	0.51
29:B1:2655:U:O4'	29:B1:2656:A:C4	2.64	0.51
29:B1:2841:G:C5	29:B1:2844:C:C4	2.99	0.51
29:B1:1203:A:H2'	29:B1:2855:U:O2'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1896:A:C2	29:B1:3093:C:C5	2.99	0.51
29:B1:30:G:C2	29:B1:55:G:C6	2.99	0.51
29:B1:3113:A:N6	29:B1:3114:A:N1	2.59	0.51
29:B1:3330:A:C4	29:B1:3331:U:C5	2.99	0.51
29:B1:431:U:C2	29:B1:432:G:C8	2.99	0.51
29:B1:547:G:C8	29:B1:548:G:C8	2.99	0.51
29:B1:518:G:H1	29:B1:572:A:H61	1.58	0.51
29:B1:578:A:HO2'	29:B1:579:G:P	2.30	0.51
29:B1:712:G:C6	29:B1:713:U:C4	2.99	0.51
29:B1:746:A:C2'	29:B1:747:A:OP1	2.59	0.51
29:B1:939:U:O2'	29:B1:940:G:H5'	2.10	0.51
29:B1:961:C:HO2'	29:B1:962:A:P	2.34	0.51
31:B3:39:G:H4'	31:B3:40:A:H5''	1.91	0.51
29:B1:2855:U:OP2	41:BJ:6:ALA:HB3	2.10	0.51
1:C1:1096:C:C2	1:C1:1098:U:OP2	2.64	0.51
1:C1:184:C:C4	1:C1:202:A:C2	2.98	0.51
1:C1:195:G:H1'	1:C1:196:G:OP1	2.10	0.51
1:C1:42:G:C8	1:C1:437:A:H3'	2.46	0.51
1:C1:44:U:C5'	1:C1:45:U:O4	2.58	0.51
1:C1:553:G:C6	1:C1:554:C:C4	2.98	0.51
29:D1:1144:U:O2'	29:D1:1145:G:P	2.69	0.51
29:D1:1225:A:O2'	29:D1:1226:G:OP1	2.29	0.51
29:D1:1319:G:O2'	29:D1:1320:C:H5''	2.11	0.51
29:D1:943:U:C2	29:D1:1432:C:H5	2.29	0.51
29:D1:2254:U:H2'	29:D1:2261:G:H1	1.74	0.51
29:D1:2423:U:C2'	29:D1:2424:A:OP2	2.58	0.51
29:D1:2641:U:H5''	29:D1:2642:A:OP1	2.10	0.51
29:D1:2725:U:O4	29:D1:2727:A:N3	2.44	0.51
29:D1:959:C:N4	29:D1:2801:A:H5''	2.24	0.51
29:D1:2808:A:C8	29:D1:2955:U:O3'	2.63	0.51
29:D1:26:A:H2	29:D1:330:G:H21	1.57	0.51
29:D1:331:G:O2'	29:D1:332:C:P	2.69	0.51
29:D1:3321:C:O2'	29:D1:3322:A:H5'	2.11	0.51
29:D1:331:G:C2	29:D1:332:C:C4	2.98	0.51
29:D1:3333:G:N1	29:D1:3370:A:O2'	2.43	0.51
29:D1:3316:A:N6	29:D1:3388:C:N4	2.49	0.51
29:D1:3390:G:C5	29:D1:3391:A:C8	2.98	0.51
74:D1:3477:OHX:N4	74:D1:3588:OHX:N2	2.58	0.51
29:D1:431:U:C2	29:D1:432:G:N7	2.78	0.51
29:D1:595:G:H1	29:D1:609:G:C4'	2.24	0.51
29:D1:596:C:O2	29:D1:597:G:H5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:698:U:O4'	29:D1:699:A:OP1	2.27	0.51
29:D1:717:C:H5	29:D1:721:G:OP2	1.92	0.51
29:D1:863:C:H2'	29:D1:864:G:C5'	2.41	0.51
29:D1:92:G:N7	29:D1:94:G:C2	2.79	0.51
29:D1:943:U:C1'	29:D1:944:C:OP1	2.59	0.51
29:D1:945:C:N3	29:D1:946:U:C5	2.79	0.51
31:D3:53:A:C6	31:D3:54:A:C6	2.98	0.51
31:D3:75:G:P	31:D3:90:U:C5'	2.98	0.51
54:DY:5:PHE:O	54:DY:8:THR:N	2.31	0.51
1:A1:738:G:C2'	1:A1:739:G:C8	2.91	0.51
29:B1:2617:U:C6	29:B1:2620:G:OP1	2.63	0.51
29:B1:2667:A:N6	29:B1:2690:G:H1	1.98	0.51
29:B1:991:G:C4	29:B1:992:A:C8	2.99	0.51
30:B2:104:A:C4	30:B2:105:C:C6	2.98	0.51
30:B2:114:U:H2'	30:B2:115:G:C1'	2.41	0.51
30:B2:13:A:H5'	30:B2:112:G:C1'	2.31	0.51
30:B2:63:A:O2'	30:B2:65:G:C8	2.63	0.51
31:B3:94:C:C4'	31:B3:95:G:OP2	2.53	0.51
1:A1:168:A:C6	1:A1:169:A:C6	2.99	0.51
1:A1:207:U:N3	1:A1:208:U:C4	2.79	0.51
30:D2:60:G:H2'	30:D2:61:G:C8	2.36	0.51
30:D2:12:U:C6	30:D2:70:U:OP1	2.64	0.51
1:A1:329:G:C2'	1:A1:330:G:H8	1.94	0.51
1:A1:795:U:O2	1:A1:795:U:O4'	2.27	0.51
1:C1:1242:A:C2	1:C1:1243:G:C2	2.98	0.51
1:C1:1269:U:O2	1:C1:1269:U:O4'	2.26	0.51
1:C1:1355:C:H2'	1:C1:1356:U:C6	2.45	0.51
1:C1:1431:C:C2	1:C1:1437:U:O4	2.64	0.51
1:C1:1491:U:H2'	1:C1:1492:A:H2'	1.91	0.51
1:C1:1596:C:O4'	1:C1:1596:C:O2	2.27	0.51
1:C1:1599:C:O2	1:C1:1600:A:C2	2.64	0.51
1:A1:1383:G:H2'	1:A1:1384:A:O5'	2.11	0.51
1:A1:1513:G:C2'	1:A1:1514:U:OP1	2.59	0.51
1:A1:1604:U:H3'	1:A1:1605:G:C5'	2.28	0.51
1:A1:1348:A:O5'	15:AN:10:GLU:O	2.28	0.51
1:C1:1052:U:N3	1:C1:1053:G:N7	2.58	0.51
1:C1:1065:A:H2'	1:C1:1066:C:C1'	2.41	0.51
29:D1:1184:A:C2'	29:D1:1185:C:O5'	2.59	0.51
30:B2:91:G:N1	30:B2:92:A:C5	2.78	0.51
30:B2:30:G:C2'	30:B2:31:U:O5'	2.58	0.51
29:D1:334:A:C2'	29:D1:335:G:O5'	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1414:G:N2	29:D1:1415:U:H1'	2.25	0.51
29:D1:1390:A:C5	29:D1:1418:A:C6	2.98	0.51
29:D1:370:U:OP1	74:D1:3625:OHX:N1	2.43	0.51
29:D1:395:A:C5	29:D1:396:A:N6	2.78	0.51
1:A1:158:U:O2'	1:A1:159:U:P	2.69	0.51
29:B1:2515:A:N6	29:B1:2593:A:N7	2.59	0.51
31:B3:28:C:C5'	31:B3:29:U:OP2	2.55	0.51
29:D1:1621:A:H2'	29:D1:1622:U:C5	2.45	0.51
2:CA:178:ALA:HB1	2:CA:182:LEU:CB	2.40	0.51
29:D1:2435:G:C6	29:D1:2593:A:C5	2.98	0.51
29:B1:1101:G:N3	29:B1:1101:G:H2'	2.26	0.51
29:D1:1678:G:N3	29:D1:1679:A:C8	2.78	0.51
1:A1:1122:G:N2	1:A1:1126:G:C5	2.78	0.51
1:C1:1039:A:O4'	1:C1:1081:A:N6	2.44	0.51
74:A1:1916:OHX:N3	74:A1:1975:OHX:N1	2.59	0.51
1:A1:310:C:H6	1:A1:310:C:H5'	1.74	0.51
1:A1:1579:U:H2'	1:A1:1580:C:H6	1.76	0.51
1:C1:1739:C:H2'	1:C1:1740:A:C8	2.46	0.51
29:B1:1706:C:H3'	29:B1:1707:A:H8	1.75	0.51
29:B1:1706:C:C6	29:B1:1707:A:C8	2.99	0.51
29:B1:1695:U:O2'	29:B1:1749:A:N6	2.44	0.51
1:A1:1221:A:C4	1:A1:1222:C:C5	2.98	0.51
29:B1:1025:A:C5'	29:B1:1028:U:H3	2.24	0.51
45:BP:99:LEU:C	45:BP:101:ARG:H	2.10	0.51
34:DC:261:MET:CA	34:DC:263:SER:O	2.58	0.51
43:DN:24:LYS:HA	43:DN:31:LYS:CA	2.40	0.51
13:CL:62:THR:O	13:CL:65:GLU:CB	2.59	0.51
17:CP:44:GLY:O	17:CP:45:GLY:C	2.49	0.51
29:D1:1358:C:H5''	29:D1:1359:C:OP2	2.11	0.51
50:BU:17:LEU:O	50:BU:52:ALA:N	2.44	0.51
1:C1:877:G:H5'	1:C1:936:G:H21	1.75	0.51
38:DG:111:ILE:O	38:DG:113:SER:N	2.44	0.51
32:BA:59:PRO:O	32:BA:60:ARG:CB	2.59	0.51
45:DP:99:LEU:C	45:DP:101:ARG:H	2.10	0.51
10:CI:97:TYR:HA	10:CI:102:PHE:N	2.23	0.51
47:DR:37:ALA:C	47:DR:39:ARG:N	2.64	0.51
29:B1:1700:G:H2'	29:B1:1701:C:C6	2.45	0.51
6:AE:143:ILE:C	6:AE:145:SER:H	2.11	0.51
41:BJ:17:TYR:C	41:BJ:19:LYS:N	2.63	0.51
34:BC:208:VAL:O	34:BC:209:PHE:CB	2.57	0.51
1:C1:430:G:H2'	1:C1:431:C:H6	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:39:GLU:HA	5:AD:40:ILE:CB	2.41	0.51
55:BZ:76:GLU:C	55:BZ:78:GLY:H	2.14	0.51
29:B1:3154:C:O2	29:B1:3154:C:H3'	2.11	0.51
29:D1:1644:C:OP1	29:D1:1821:U:N3	2.44	0.51
1:A1:1087:A:N6	1:A1:1088:A:N6	2.59	0.51
1:A1:1137:A:H2	1:A1:1138:A:C6	2.27	0.51
1:A1:1645:G:C2	1:A1:1757:G:C4	2.98	0.51
1:A1:1645:G:H2'	1:A1:1646:C:H6	1.76	0.51
1:A1:1139:A:OP2	74:A1:1976:OHX:N6	2.43	0.51
1:A1:362:G:O6	1:A1:382:C:N4	2.23	0.51
1:A1:408:C:H1'	1:A1:1731:A:N3	2.25	0.51
1:A1:478:A:C2	1:A1:510:G:N2	2.79	0.51
1:A1:520:A:C4	1:A1:521:A:C8	2.99	0.51
29:B1:1302:A:H1'	29:B1:2887:A:H2	1.72	0.51
29:B1:1797:A:C6	29:B1:1798:A:C6	2.99	0.51
29:B1:1506:A:C1'	29:B1:1848:G:O6	2.59	0.51
29:B1:1888:U:H2'	29:B1:1889:G:O4'	2.10	0.51
29:B1:189:G:C5	29:B1:206:G:C6	2.99	0.51
29:B1:2112:U:H1'	29:B1:2113:A:P	2.50	0.51
29:B1:2279:A:H4'	29:B1:2280:A:C5'	2.40	0.51
29:B1:2661:G:C4	29:B1:2662:G:C8	2.99	0.51
29:B1:278:U:C6	29:B1:279:U:H5	2.29	0.51
29:B1:2992:U:H5''	29:B1:2992:U:H6	1.76	0.51
29:B1:3048:A:N6	29:B1:3090:U:C3'	2.72	0.51
29:B1:3135:U:H3'	29:B1:3136:G:C8	2.45	0.51
29:B1:3310:A:H2'	29:B1:3311:C:H5'	1.93	0.51
29:B1:3334:U:C5'	29:B1:3371:G:N2	2.62	0.51
29:B1:346:C:C5	29:B1:348:A:H5''	2.46	0.51
29:B1:510:G:C2	29:B1:511:G:C4	2.99	0.51
29:B1:525:C:H2'	29:B1:526:C:C6	2.46	0.51
29:B1:521:A:N7	29:B1:571:U:O4	2.44	0.51
29:B1:592:A:H3'	29:B1:592:A:OP2	2.11	0.51
29:B1:650:C:H5'	29:B1:2872:A:P	2.51	0.51
29:B1:744:A:H2'	29:B1:745:C:C6	2.45	0.51
29:B1:760:G:O2'	29:B1:761:A:H8	1.94	0.51
29:B1:891:G:C5	29:B1:892:U:C4	2.99	0.51
29:B1:896:A:N7	29:B1:2134:G:H1'	2.26	0.51
29:B1:952:A:H1'	29:B1:1114:U:H1'	1.93	0.51
29:B1:963:G:C8	29:B1:963:G:C3'	2.94	0.51
1:C1:1075:C:O2'	1:C1:1076:A:H5'	2.11	0.51
1:C1:10:G:C2	1:C1:11:A:N9	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:408:C:H1'	1:C1:1731:A:N3	2.26	0.51
1:C1:173:A:N3	1:C1:174:U:O4'	2.43	0.51
1:C1:57:G:C6	1:C1:91:G:N1	2.79	0.51
1:C1:856:A:H3'	1:C1:857:U:C5'	2.41	0.51
1:C1:95:G:H5''	1:C1:96:G:OP2	2.11	0.51
1:C1:13:C:H5'	3:CB:161:LYS:O	2.11	0.51
29:D1:1494:U:O2'	29:D1:1496:C:N4	2.42	0.51
29:D1:1564:U:H2'	29:D1:1565:G:H8	1.75	0.51
29:D1:1779:C:P	29:D1:1779:C:O4'	2.69	0.51
29:D1:2246:G:N3	29:D1:2247:G:C8	2.78	0.51
29:D1:2254:U:C4	74:D1:3583:OHX:N5	2.79	0.51
29:D1:2281:A:H1'	29:D1:2282:U:OP1	2.11	0.51
29:D1:2308:C:OP1	29:D1:2309:A:C2'	2.58	0.51
29:D1:890:C:O2	29:D1:2324:A:H2	1.94	0.51
29:D1:2324:A:H5''	29:D1:2325:G:P	2.50	0.51
29:D1:2389:C:C2'	29:D1:2390:A:O5'	2.59	0.51
29:D1:2619:G:OP1	29:D1:2619:G:H8	1.93	0.51
29:D1:2655:U:C2	29:D1:2656:A:N1	2.78	0.51
29:D1:2847:A:H62	29:D1:2898:G:N2	2.08	0.51
29:D1:3011:A:N1	34:DC:13:HIS:HA	2.26	0.51
29:D1:3078:U:H4'	29:D1:3079:U:H5'	1.90	0.51
29:D1:3361:G:N7	29:D1:3362:A:C8	2.79	0.51
29:D1:2274:U:OP1	74:D1:3539:OHX:N6	2.43	0.51
29:D1:424:G:O5'	29:D1:424:G:H8	1.94	0.51
29:D1:431:U:O2'	29:D1:432:G:P	2.69	0.51
29:D1:575:G:H2'	29:D1:576:C:C5	2.44	0.51
29:D1:651:G:O2'	29:D1:652:G:H5'	2.11	0.51
29:D1:87:U:H2'	29:D1:87:U:O2	2.10	0.51
31:D3:108:C:C2'	31:D3:109:A:O5'	2.59	0.51
31:D3:70:G:H5'	31:D3:71:A:N7	2.23	0.51
1:A1:714:G:H2'	1:A1:715:U:O4'	2.11	0.51
29:B1:1047:A:N3	29:B1:2633:U:O2'	2.44	0.51
29:B1:2798:C:O5'	29:B1:2799:A:OP1	2.29	0.51
29:B1:955:U:C4	29:B1:956:U:C4	2.99	0.51
30:B2:62:U:H5'	30:B2:63:A:OP2	2.11	0.51
49:BT:28:SER:C	49:BT:30:TYR:H	2.13	0.51
1:A1:185:U:H2'	1:A1:186:C:O4'	2.10	0.51
1:A1:210:A:C3'	1:A1:211:U:H5''	2.41	0.51
1:A1:62:A:C3'	1:A1:62:A:OP2	2.59	0.51
1:A1:78:A:H2	1:A1:78:A:OP1	1.94	0.51
1:C1:1722:A:H5'	1:C1:1723:U:C5	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:244:A:H2'	1:C1:245:U:C6	2.46	0.51
1:C1:249:U:C3'	1:C1:250:C:C5'	2.80	0.51
29:B1:2678:A:O4'	29:B1:2679:A:C2	2.59	0.51
1:A1:112:A:C4'	1:A1:113:U:OP1	2.55	0.51
1:C1:1198:G:N3	1:C1:1198:G:H2'	2.26	0.51
1:C1:1213:G:N2	1:C1:1214:U:H1'	2.26	0.51
1:A1:1164:G:H2'	1:A1:1165:G:H8	1.76	0.51
1:A1:1483:A:C5'	1:A1:1521:G:O2'	2.59	0.51
1:A1:1588:G:H1	1:A1:1608:U:H3	1.58	0.51
1:A1:1584:G:C8	11:AJ:123:ARG:O	2.63	0.51
1:C1:1066:C:C2'	1:C1:1067:C:H5'	2.41	0.51
29:B1:382:U:C5	29:B1:383:G:C8	2.99	0.51
29:B1:3276:G:C2'	29:B1:3277:U:O4'	2.57	0.51
30:B2:48:U:C6	30:B2:49:G:O6	2.64	0.51
29:D1:373:A:C2	29:D1:375:A:C5	2.99	0.51
1:C1:418:G:N2	1:C1:419:G:C5	2.79	0.51
29:D1:70:A:H2	29:D1:71:A:O2'	1.89	0.51
29:B1:3381:U:N3	29:B1:3383:G:C6	2.78	0.51
1:C1:1325:A:H2'	1:C1:1326:A:H8	1.76	0.51
38:BG:37:ASN:O	38:BG:38:LYS:C	2.48	0.51
1:A1:948:G:C6	1:A1:949:C:N4	2.79	0.51
29:D1:3006:A:N7	29:D1:3007:U:C2	2.79	0.51
40:DI:63:LYS:O	40:DI:65:VAL:N	2.44	0.51
29:D1:3274:A:N3	29:D1:3274:A:H2'	2.24	0.51
29:D1:3072:C:H2'	29:D1:3073:A:C5'	2.41	0.51
1:A1:1733:C:C4	1:A1:1734:U:C5	2.99	0.51
29:D1:2584:G:O2'	29:D1:2585:G:H4'	2.10	0.51
29:D1:856:G:C6	29:D1:857:G:N1	2.79	0.51
29:B1:1365:G:OP2	29:B1:1365:G:H8	1.94	0.51
29:B1:2206:G:H2'	29:B1:2207:A:H5'	1.92	0.51
29:B1:2602:G:C2	29:B1:2603:G:C8	2.98	0.51
29:B1:2561:A:N6	29:B1:2579:G:C5	2.77	0.51
45:DP:58:LEU:CB	45:DP:72:HIS:CB	2.88	0.51
29:B1:268:A:N9	29:B1:270:U:O2	2.43	0.51
8:CG:108:ASP:O	8:CG:111:ALA:CB	2.59	0.51
42:DK:80:LEU:C	42:DK:82:ARG:H	2.14	0.51
1:C1:735:C:H2'	1:C1:736:C:C5	2.45	0.51
29:B1:96:G:H2'	29:B1:97:U:O5'	2.10	0.51
29:B1:3165:A:O2'	29:B1:3166:C:H5'	2.11	0.51
35:DD:119:ARG:O	35:DD:121:ALA:N	2.44	0.51
74:B1:3519:OHX:N6	74:B1:3605:OHX:N3	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:246:U:P	29:B1:246:U:H3'	2.50	0.51
41:BJ:37:GLY:HA3	41:BJ:86:HIS:N	2.25	0.51
29:D1:2117:A:H2'	29:D1:2118:C:C6	2.45	0.51
29:B1:2732:G:C6	29:B1:2733:A:C6	2.99	0.51
35:DD:134:LEU:C	35:DD:136:LEU:N	2.64	0.51
40:BI:72:LYS:O	40:BI:73:SER:C	2.48	0.51
40:BI:43:VAL:O	40:BI:56:ALA:O	2.28	0.51
44:BO:143:ARG:C	44:BO:146:ALA:HB2	2.31	0.51
1:A1:463:U:C2	1:A1:464:A:C8	2.99	0.51
2:CA:65:ALA:C	2:CA:67:ILE:N	2.64	0.51
29:B1:1409:G:O2'	29:B1:1410:U:H5'	2.11	0.51
10:CI:80:MET:C	10:CI:82:ASN:N	2.64	0.51
14:CM:17:ALA:HB2	14:CM:59:ALA:HB2	1.93	0.51
36:DE:185:PHE:CB	36:DE:186:GLU:CB	2.88	0.51
41:BJ:205:SER:N	41:BJ:206:LEU:HA	2.26	0.51
4:AC:128:GLU:C	4:AC:130:GLY:H	2.13	0.51
1:A1:1550:A:H2'	1:A1:1551:U:H6	1.75	0.51
46:BQ:74:LYS:O	46:BQ:75:GLU:CB	2.59	0.51
42:DK:34:SER:O	42:DK:35:LYS:C	2.49	0.51
12:CK:53:TYR:O	12:CK:56:HIS:CB	2.59	0.51
36:DE:179:ARG:O	36:DE:180:PHE:C	2.49	0.51
73:DM:197:PHE:O	73:DM:198:PRO:C	2.49	0.51
55:BZ:35:ARG:O	55:BZ:36:GLN:C	2.48	0.51
1:A1:389:G:C4	1:A1:390:G:N7	2.78	0.51
1:A1:402:C:C2	1:A1:403:G:C4'	2.94	0.51
1:A1:40:A:C8	1:A1:41:A:N7	2.79	0.51
1:A1:611:U:H5	1:A1:612:U:C5	2.29	0.51
29:B1:1167:U:C2'	29:B1:1168:U:O5'	2.59	0.51
29:B1:1284:C:N4	29:B1:1285:G:H21	2.09	0.51
29:B1:1284:C:H5	29:B1:1285:G:H21	1.54	0.51
29:B1:192:C:H2'	29:B1:193:C:H6	1.75	0.51
29:B1:18:G:C6	29:B1:19:U:N3	2.79	0.51
29:B1:198:A:N3	29:B1:218:G:O2'	2.44	0.51
29:B1:2299:A:H2'	29:B1:2300:G:O5'	2.11	0.51
29:B1:2425:G:H2'	29:B1:2426:U:C6	2.46	0.51
29:B1:2610:G:H2'	29:B1:2611:U:H6	1.76	0.51
29:B1:2662:G:H3'	29:B1:2663:G:H8	1.76	0.51
29:B1:2407:C:C1'	29:B1:2818:U:H3	2.22	0.51
29:B1:282:G:H4'	29:B1:283:G:O5'	2.09	0.51
29:B1:2994:A:H2'	29:B1:2995:A:O4'	2.10	0.51
29:B1:3012:A:C4	29:B1:3013:U:C5	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3047:U:C2'	29:B1:3048:A:H5''	2.38	0.51
29:B1:3110:C:H2'	29:B1:3111:U:O4'	2.11	0.51
29:B1:3120:C:HO2'	29:B1:3121:U:H6	1.59	0.51
29:B1:3135:U:C6	29:B1:3136:G:C8	2.98	0.51
29:B1:3379:C:O2'	29:B1:3380:U:H5'	2.11	0.51
74:B1:3451:OHX:N6	74:B1:3587:OHX:N2	2.59	0.51
29:B1:371:G:C8	29:B1:371:G:H3'	2.46	0.51
29:B1:423:A:C2	29:B1:424:G:N3	2.79	0.51
29:B1:523:A:C2	29:B1:524:U:C6	2.98	0.51
29:B1:538:G:C2	29:B1:556:U:H5	2.29	0.51
29:B1:594:U:O4	29:B1:595:G:C2	2.63	0.51
29:B1:817:A:H2'	29:B1:920:A:C2	2.46	0.51
29:B1:886:C:H2'	29:B1:887:G:H5'	1.91	0.51
29:B1:88:A:H2	29:B1:281:G:C2	2.28	0.51
29:B1:928:C:H2'	29:B1:929:A:C8	2.46	0.51
29:B1:944:C:O2	29:B1:945:C:C6	2.64	0.51
37:BF:134:ARG:O	37:BF:138:GLN:N	2.44	0.51
38:BG:69:ALA:C	38:BG:71:ALA:H	2.14	0.51
1:C1:615:A:C6	1:C1:1107:G:C6	2.99	0.51
1:C1:1632:C:O2'	1:C1:1633:A:H5''	2.11	0.51
1:C1:23:G:C5	1:C1:24:U:C5	2.99	0.51
1:C1:402:C:C2	1:C1:403:G:O4'	2.64	0.51
1:C1:553:G:N2	1:C1:571:G:N2	2.59	0.51
29:D1:1205:A:C4	29:D1:1206:G:C8	2.98	0.51
29:D1:1459:C:O5'	29:D1:1459:C:H6	1.94	0.51
29:D1:1599:G:N1	29:D1:1600:U:O2	2.44	0.51
29:D1:1662:G:C6	29:D1:1663:C:C4	2.99	0.51
29:D1:1844:C:N3	29:D1:1845:G:N7	2.59	0.51
29:D1:2150:G:H2'	29:D1:2151:C:C5'	2.38	0.51
29:D1:2196:C:O2'	29:D1:2271:A:O4'	2.28	0.51
29:D1:2253:G:C5	29:D1:2254:U:C2	2.99	0.51
29:D1:2255:A:C4'	29:D1:2256:A:OP1	2.58	0.51
29:D1:2328:U:H2'	29:D1:2329:C:C5'	2.28	0.51
29:D1:2904:U:C2	29:D1:2904:U:C3'	2.94	0.51
29:D1:2876:C:C1'	29:D1:2952:G:N2	2.74	0.51
29:D1:304:G:H3'	29:D1:304:G:P	2.50	0.51
29:D1:3126:C:C2	29:D1:3127:A:C8	2.99	0.51
29:D1:3294:A:H2'	29:D1:3295:A:C5'	2.40	0.51
29:D1:422:A:C1'	29:D1:423:A:O5'	2.59	0.51
29:D1:424:G:H2'	29:D1:425:G:OP1	2.11	0.51
29:D1:560:G:C2	29:D1:561:C:C4	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:573:C:H2'	29:D1:574:U:H5	1.75	0.51
29:D1:595:G:N1	29:D1:609:G:O4'	2.43	0.51
29:D1:717:C:H5	29:D1:721:G:P	2.32	0.51
29:D1:736:A:C8	29:D1:737:G:C8	2.99	0.51
31:D3:48:A:C5	31:D3:51:G:C8	2.99	0.51
31:D3:97:A:O2'	31:D3:98:U:H5'	2.11	0.51
38:DG:51:TYR:C	38:DG:53:LYS:H	2.14	0.51
29:D1:2111:G:H21	51:DV:49:ILE:HA	1.72	0.51
29:D1:943:U:H2'	54:DY:9:ARG:O	2.11	0.51
1:A1:646:C:H3'	1:A1:647:G:C5'	2.39	0.51
29:B1:2640:A:H5''	29:B1:2641:U:OP2	2.11	0.51
30:B2:13:A:C5'	30:B2:112:G:H1'	2.30	0.51
1:A1:60:U:H5''	1:A1:454:U:H5'	1.93	0.51
1:C1:339:C:C2	1:C1:340:U:C6	2.99	0.51
1:C1:1156:C:O2'	1:C1:1157:A:H5'	2.11	0.51
1:C1:1233:G:H2'	1:C1:1234:A:O4'	2.10	0.51
1:C1:1477:G:C2'	1:C1:1478:G:H5'	2.40	0.51
1:A1:1209:C:H2'	1:A1:1210:C:C6	2.42	0.51
1:A1:1239:U:H2'	1:A1:1240:U:C5	2.46	0.51
1:A1:1569:A:N3	1:A1:1570:A:C8	2.79	0.51
1:A1:1485:C:H42	1:A1:1592:A:C4'	2.23	0.51
29:B1:1463:U:C2	29:B1:1464:G:C8	2.99	0.51
29:B1:1466:G:C6	29:B1:1511:U:C6	2.99	0.51
46:BQ:11:PRO:O	46:BQ:12:ALA:CB	2.59	0.51
29:B1:3210:A:H2'	29:B1:3211:C:C6	2.45	0.51
29:D1:3187:A:C2	29:D1:3188:G:N9	2.79	0.51
29:B1:2520:A:C2	29:B1:2521:U:O2	2.64	0.51
29:D1:1390:A:C8	29:D1:1418:A:N7	2.79	0.51
29:D1:1420:C:H2'	29:D1:1421:G:H8	1.76	0.51
29:D1:203:G:H2'	29:D1:204:A:O4'	2.09	0.51
29:D1:397:A:C6	29:D1:400:G:N1	2.78	0.51
1:C1:886:U:H5''	1:C1:887:A:OP2	2.11	0.51
1:C1:947:U:H2'	1:C1:948:G:C8	2.46	0.51
36:BE:102:GLY:O	36:BE:105:ILE:O	2.28	0.51
29:D1:1242:G:P	29:D1:1242:G:H8	2.34	0.51
29:D1:1623:G:N3	29:D1:1624:G:H1'	2.25	0.51
1:C1:1416:G:C4	1:C1:1417:A:C8	2.99	0.51
29:B1:1087:G:C2	29:B1:1088:U:C5	2.99	0.51
1:A1:1400:A:N1	1:A1:1401:A:C2	2.79	0.51
29:D1:1076:C:N3	29:D1:1077:U:O4	2.43	0.51
29:D1:1686:U:H1'	29:D1:1688:U:OP1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:901:G:H3'	1:A1:902:G:N7	2.25	0.51
29:B1:331:G:C6	29:B1:332:C:N4	2.78	0.51
1:A1:1662:G:C2	1:A1:1663:G:C5	2.98	0.51
30:D2:95:A:C2'	30:D2:96:U:O5'	2.59	0.51
29:B1:2583:C:C2'	29:B1:2584:G:C8	2.85	0.51
29:B1:251:G:H4'	29:B1:252:U:OP1	2.10	0.51
29:D1:3:U:H2'	29:D1:4:U:H6	1.75	0.51
1:A1:310:C:H2'	1:A1:311:U:C5'	2.39	0.51
29:B1:3357:U:H5'	29:B1:3358:U:OP2	2.10	0.51
4:AC:158:ILE:O	4:AC:160:SER:N	2.40	0.51
29:D1:1350:A:OP2	29:D1:1350:A:O3'	2.28	0.51
29:B1:1638:A:H2	29:B1:1736:G:N3	2.08	0.51
29:B1:1922:A:N7	29:B1:1923:C:C5	2.78	0.51
6:CE:72:GLU:C	6:CE:75:ALA:HB3	2.31	0.51
1:C1:1663:G:C4	1:C1:1664:C:C6	2.99	0.51
29:B1:1350:A:OP2	29:B1:1350:A:O3'	2.29	0.51
29:D1:1024:G:C5	29:D1:1025:A:N7	2.78	0.51
54:BY:127:ALA:C	54:BY:129:PHE:N	2.64	0.51
1:C1:778:G:N2	1:C1:783:G:C6	2.78	0.51
29:D1:3180:A:C8	45:DP:114:LYS:HA	2.45	0.51
48:DS:151:ARG:O	48:DS:154:ALA:HB3	2.11	0.51
29:B1:102:C:C4'	29:B1:103:G:OP1	2.58	0.51
29:D1:1818:U:H2'	29:D1:1819:U:N1	2.26	0.51
1:C1:791:A:C4	1:C1:792:U:C5	2.98	0.51
47:BR:18:ALA:O	47:BR:19:PRO:O	2.29	0.51
34:DC:197:GLU:O	34:DC:198:HIS:C	2.49	0.51
29:B1:271:C:O2'	29:B1:272:G:C8	2.56	0.51
29:B1:292:U:H5''	29:B1:293:C:OP2	2.11	0.51
29:B1:269:G:N1	29:B1:294:U:H5	2.06	0.51
29:D1:2181:C:C2'	29:D1:2182:A:O5'	2.58	0.51
1:A1:1395:G:H2'	1:A1:1396:U:C5'	2.37	0.51
29:D1:1766:G:C2	29:D1:1767:C:C6	2.99	0.51
16:AO:17:ALA:O	16:AO:20:THR:N	2.37	0.51
10:CI:116:LEU:O	10:CI:118:GLU:N	2.42	0.51
49:BT:58:GLN:O	49:BT:60:LYS:N	2.44	0.51
41:DJ:164:LYS:O	41:DJ:165:ILE:C	2.48	0.51
3:CB:155:ALA:O	3:CB:168:ARG:HA	2.11	0.51
29:D1:2759:U:H5''	29:D1:2760:C:OP1	2.11	0.51
5:CD:182:ALA:O	5:CD:184:PHE:N	2.43	0.51
29:D1:1774:C:H2'	29:D1:1774:C:O2	2.11	0.51
34:BC:216:ASP:HA	34:BC:277:SER:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:103:A:H4'	1:A1:104:A:O5'	2.11	0.51
1:A1:1111:G:C2'	1:A1:1112:G:H5'	2.41	0.51
1:A1:123:G:C5	1:A1:124:A:C8	2.99	0.51
1:A1:41:A:H2'	1:A1:438:A:H62	1.75	0.51
1:A1:477:A:H2	1:A1:512:A:N1	2.08	0.51
1:A1:492:A:N3	1:A1:494:U:C6	2.79	0.51
1:A1:866:G:N3	1:A1:867:G:C8	2.79	0.51
1:A1:960:U:H2'	1:A1:961:U:C6	2.46	0.51
29:B1:1390:A:O4'	29:B1:1418:A:N6	2.44	0.51
29:B1:1454:A:C5'	29:B1:1878:G:C6	2.90	0.51
29:B1:1495:U:O2'	29:B1:1514:G:C4'	2.59	0.51
29:B1:1684:U:H3'	29:B1:1684:U:C6	2.45	0.51
29:B1:2417:U:O4	29:B1:2804:A:N1	2.44	0.51
29:B1:1902:G:OP2	29:B1:2919:A:P	2.68	0.51
29:B1:2963:C:H2'	29:B1:2964:G:C5'	2.40	0.51
29:B1:1895:A:O2'	29:B1:3053:G:H4'	2.11	0.51
29:B1:3088:G:H5''	29:B1:3089:C:OP2	2.10	0.51
29:B1:3157:U:H4'	29:B1:3158:G:O4'	2.11	0.51
29:B1:3328:G:O2'	29:B1:3329:U:O4'	2.29	0.51
29:B1:3377:G:N9	74:B1:3450:OHX:N2	2.58	0.51
29:B1:378:A:C4	29:B1:378:A:C3'	2.94	0.51
29:B1:825:U:H2'	29:B1:826:G:H5''	1.92	0.51
29:B1:887:G:C6	29:B1:888:A:C5	2.99	0.51
29:B1:932:U:H4'	29:B1:933:A:O5'	2.10	0.51
29:B1:954:U:OP1	29:B1:954:U:C4'	2.58	0.51
31:B3:148:G:O2'	31:B3:149:A:P	2.68	0.51
31:B3:35:C:H2'	31:B3:36:G:H8	1.77	0.51
31:B3:3:A:H3'	31:B3:3:A:H8	1.75	0.51
29:B1:525:C:H5''	43:BN:71:ALA:HB2	1.91	0.51
1:C1:1138:A:N6	1:C1:1139:A:N6	2.59	0.51
1:C1:15:U:H1'	1:C1:619:A:C2	2.45	0.51
1:C1:269:G:N1	1:C1:270:C:C4	2.79	0.51
1:C1:438:A:O5'	1:C1:438:A:C8	2.64	0.51
1:C1:483:A:C8	1:C1:483:A:OP2	2.64	0.51
1:C1:60:U:H2'	1:C1:61:A:H5'	1.91	0.51
1:C1:620:A:N7	1:C1:621:A:C6	2.78	0.51
29:D1:1220:U:C3'	29:D1:1220:U:C6	2.92	0.51
29:D1:1480:G:N1	29:D1:1871:U:OP2	2.44	0.51
29:D1:1525:G:C8	29:D1:1829:G:C5	2.99	0.51
29:D1:1782:U:H3'	29:D1:1782:U:OP2	2.11	0.51
29:D1:1799:A:C2	29:D1:1800:A:C4	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2294:U:H3'	29:D1:2295:A:H5''	1.93	0.51
29:D1:2717:U:C4	29:D1:2740:A:C6	2.99	0.51
29:D1:2897:A:C2	29:D1:2905:U:O2	2.63	0.51
29:D1:2994:A:H2'	29:D1:2995:A:O4'	2.11	0.51
29:D1:3060:C:H2'	29:D1:3061:G:O5'	2.11	0.51
29:D1:3361:G:H2'	29:D1:3362:A:C5'	2.38	0.51
29:D1:407:A:O5'	29:D1:407:A:H8	1.92	0.51
29:D1:49:A:O2'	29:D1:50:U:OP1	2.25	0.51
29:D1:583:G:C6	29:D1:584:G:C5	2.99	0.51
29:D1:715:A:O2'	29:D1:716:A:H5'	2.11	0.51
29:D1:769:G:H1'	29:D1:770:G:O5'	2.10	0.51
35:DD:20:LEU:O	35:DD:21:PRO:CB	2.58	0.51
40:DI:72:LYS:O	40:DI:73:SER:O	2.29	0.51
1:C1:842:C:O2'	1:C1:843:U:H5'	2.11	0.51
1:C1:649:U:C4	1:C1:685:A:N1	2.79	0.51
29:B1:2639:G:C6	29:B1:2640:A:C5	2.99	0.51
29:B1:957:C:C2	29:B1:958:C:C6	2.98	0.51
30:B2:102:A:H2'	30:B2:103:A:H8	1.76	0.51
31:B3:65:A:C6	31:B3:66:A:C5	3.00	0.51
1:A1:130:C:C2	1:A1:177:U:OP1	2.64	0.51
1:A1:178:U:O2	1:A1:178:U:H2'	2.11	0.51
30:D2:111:U:O3'	30:D2:113:C:P	2.69	0.51
30:D2:13:A:H5'	30:D2:112:G:C1'	2.25	0.51
1:A1:1721:A:O5'	1:A1:1721:A:C8	2.64	0.51
1:A1:339:C:H2'	1:A1:340:U:C6	2.45	0.51
1:A1:749:U:OP1	16:AO:82:LYS:CB	2.58	0.51
1:C1:1198:G:OP2	1:C1:1199:G:N7	2.44	0.51
1:C1:1242:A:H5''	1:C1:1243:G:OP2	2.11	0.51
1:C1:1382:A:C2	1:C1:1383:G:C5	2.99	0.51
1:C1:1594:G:C6	1:C1:1595:U:C2	2.98	0.51
1:A1:1172:G:C5	1:A1:1173:C:C4	2.99	0.51
1:A1:1365:C:C4	1:A1:1366:U:C6	2.98	0.51
1:A1:1373:C:O2	1:A1:1373:C:H2'	2.10	0.51
1:A1:1453:G:H2'	1:A1:1454:G:C8	2.46	0.51
1:A1:1584:G:N3	1:A1:1584:G:H2'	2.26	0.51
29:B1:3216:G:O2'	29:B1:3217:C:OP2	2.18	0.51
29:D1:618:C:O2	29:D1:619:A:C8	2.63	0.51
29:D1:3198:U:O2	29:D1:3199:G:C5	2.63	0.51
31:B3:131:A:C2	31:B3:132:G:N7	2.79	0.51
29:B1:2771:U:C3'	29:B1:2772:C:C5'	2.85	0.51
29:B1:2435:G:O2'	29:B1:2436:U:P	2.69	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1429:G:H8	29:B1:1429:G:O5'	1.91	0.51
29:B1:3221:C:C4	29:B1:3222:U:H5	2.30	0.51
1:A1:883:C:C2'	1:A1:883:C:O2	2.59	0.51
1:A1:1650:U:C3'	1:A1:1651:A:C8	2.84	0.51
29:D1:2130:G:C6	29:D1:2323:G:C6	2.98	0.51
29:D1:1948:G:C2	29:D1:1949:G:C8	2.99	0.51
1:A1:1410:A:N7	1:A1:1411:A:C5	2.79	0.51
29:D1:1072:G:C4	29:D1:1073:U:C5	2.99	0.51
29:D1:1079:A:N9	36:DE:141:PRO:CB	2.74	0.51
29:D1:1084:A:H3'	29:D1:1085:A:H8	1.76	0.51
36:BE:282:ARG:O	36:BE:283:ALA:HB3	2.11	0.51
29:D1:2501:U:H1'	29:D1:2502:A:O5'	2.11	0.51
29:B1:2881:C:C2'	29:B1:2882:U:O5'	2.59	0.51
29:B1:1001:G:H8	29:B1:1041:U:O3'	1.94	0.51
29:D1:1863:G:N2	29:D1:1865:A:H2'	2.26	0.51
36:BE:44:TYR:O	49:BT:69:LYS:CB	2.58	0.51
1:A1:353:A:C5	1:A1:354:C:C6	2.99	0.51
29:D1:1714:A:C6	29:D1:1728:G:N1	2.79	0.51
29:B1:2861:U:H2'	29:B1:2862:U:C6	2.41	0.51
36:BE:225:GLY:N	36:BE:233:ALA:HB3	2.25	0.51
29:B1:1357:G:C3'	29:B1:1358:C:H6	2.24	0.51
29:D1:1001:G:C8	29:D1:1041:U:H5'	2.46	0.51
17:AP:86:PHE:O	17:AP:88:PRO:N	2.44	0.51
1:C1:718:U:H3'	1:C1:720:G:C2	2.46	0.51
29:B1:2901:G:H8	29:B1:2901:G:O5'	1.94	0.51
29:B1:604:G:H2'	29:B1:605:U:C6	2.45	0.51
34:BC:195:ALA:O	34:BC:196:ARG:C	2.47	0.51
21:CT:37:SER:C	21:CT:39:ASP:H	2.13	0.51
29:D1:171:G:N3	29:D1:172:G:C8	2.79	0.51
38:DG:224:ILE:C	38:DG:226:GLY:N	2.64	0.51
38:DG:224:ILE:O	38:DG:226:GLY:N	2.44	0.51
29:B1:2722:U:H2'	29:B1:2723:U:H6	1.75	0.51
29:D1:666:A:O2'	29:D1:667:C:OP1	2.24	0.51
4:CC:144:ALA:O	4:CC:145:ALA:CB	2.59	0.51
29:D1:1868:G:O5'	29:D1:1868:G:H8	1.94	0.51
42:DK:48:SER:CB	42:DK:66:ALA:HB3	2.41	0.51
38:BG:223:PHE:O	38:BG:224:ILE:O	2.28	0.51
29:D1:2692:A:C6	29:D1:2693:C:C4	2.99	0.51
53:BX:24:SER:C	53:BX:26:GLN:H	2.14	0.51
4:AC:108:LYS:O	4:AC:109:LEU:C	2.49	0.51
41:DJ:33:ILE:O	41:DJ:34:TYR:CB	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3082:C:C2'	29:B1:3083:G:O5'	2.59	0.51
48:DS:39:ASN:O	48:DS:40:ALA:C	2.49	0.51
36:BE:251:PRO:CB	36:BE:254:LYS:HA	2.41	0.51
21:AT:194:GLY:O	21:AT:195:HIS:O	2.29	0.51
21:AT:33:LEU:O	21:AT:44:SER:HA	2.11	0.51
2:AA:211:GLU:O	2:AA:215:ALA:HB2	2.11	0.51
11:AJ:131:GLY:HA3	11:AJ:138:PHE:H	1.76	0.51
29:B1:1575:A:H2'	29:B1:1576:G:O4'	2.11	0.51
21:AT:227:ALA:O	21:AT:228:LYS:C	2.50	0.51
2:CA:203:PHE:O	2:CA:205:ARG:N	2.44	0.51
46:DQ:70:THR:O	46:DQ:71:ALA:C	2.49	0.51
20:AS:19:ARG:O	20:AS:20:GLN:O	2.28	0.51
17:AP:114:LYS:CB	17:AP:115:GLY:HA2	2.39	0.51
29:D1:1761:C:O2'	29:D1:1762:C:H5''	2.11	0.51
1:A1:1026:A:C2	1:A1:1792:G:N3	2.79	0.50
1:A1:1671:A:C4	1:A1:1731:A:C2	2.99	0.50
1:A1:38:C:H2'	1:A1:39:A:H5''	1.92	0.50
1:A1:528:U:H4'	1:A1:529:A:C5'	2.41	0.50
1:A1:29:U:C2	1:A1:597:G:O6	2.63	0.50
1:A1:601:A:C5	1:A1:602:U:C4	3.00	0.50
1:A1:757:A:C4	1:A1:758:U:C5	2.98	0.50
1:A1:868:G:H2'	1:A1:869:A:H5'	1.91	0.50
1:A1:963:A:O2'	1:A1:964:U:O5'	2.29	0.50
29:B1:1110:U:C2	29:B1:1111:U:C5	2.99	0.50
29:B1:1403:C:C5'	29:B1:1404:G:OP2	2.59	0.50
29:B1:1449:A:H4'	29:B1:2983:C:O2	2.11	0.50
29:B1:1560:G:C6	29:B1:1579:C:C2	3.00	0.50
29:B1:1514:G:N7	29:B1:1841:A:C4	2.79	0.50
29:B1:1909:A:N6	29:B1:1910:A:C2	2.79	0.50
29:B1:2114:C:H5''	29:B1:2116:G:N7	2.26	0.50
29:B1:2147:A:O5'	29:B1:2147:A:H8	1.94	0.50
29:B1:2654:C:H5'	29:B1:2657:A:C6	2.46	0.50
29:B1:2800:G:H5''	29:B1:2801:A:OP1	2.11	0.50
29:B1:3128:G:H5''	29:B1:3129:A:OP2	2.10	0.50
29:B1:3149:G:C2'	29:B1:3150:A:H5'	2.40	0.50
29:B1:325:A:H3'	29:B1:327:A:OP2	2.11	0.50
29:B1:3322:A:C6	29:B1:3323:A:N6	2.79	0.50
29:B1:405:U:C4	29:B1:406:G:C4	2.99	0.50
29:B1:501:A:C2	29:B1:613:G:N1	2.78	0.50
29:B1:510:G:H2'	29:B1:511:G:O5'	2.10	0.50
29:B1:610:G:C5'	29:B1:611:A:OP2	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:707:U:O2'	29:B1:752:C:O2	2.26	0.50
29:B1:856:G:C6	29:B1:857:G:N2	2.79	0.50
29:B1:861:C:OP2	29:B1:862:U:OP2	2.29	0.50
29:B1:863:C:C2'	29:B1:864:G:H5'	2.41	0.50
29:B1:900:G:H2'	29:B1:901:G:C8	2.46	0.50
29:B1:941:G:H2'	29:B1:942:U:O4'	2.12	0.50
29:B1:945:C:C2	29:B1:946:U:C6	2.98	0.50
29:B1:963:G:C8	29:B1:963:G:C4'	2.94	0.50
31:B3:4:C:O2'	31:B3:5:U:H5'	2.11	0.50
1:C1:1075:C:N3	1:C1:1076:A:N1	2.60	0.50
1:C1:1632:C:C2'	1:C1:1633:A:H5''	2.40	0.50
74:C1:1924:OHX:N4	74:C1:1964:OHX:N2	2.59	0.50
1:C1:468:A:H2'	74:C1:1991:OHX:N6	2.26	0.50
1:C1:394:C:C3'	1:C1:395:U:H5'	2.41	0.50
1:C1:528:U:C5	74:C1:1939:OHX:N2	2.79	0.50
1:C1:70:C:H3'	1:C1:71:A:C8	2.46	0.50
1:C1:866:G:N3	1:C1:867:G:C8	2.79	0.50
1:C1:874:C:O5'	1:C1:874:C:H6	1.94	0.50
1:C1:994:G:H2'	1:C1:995:A:H8	1.76	0.50
29:D1:1144:U:C6	29:D1:1144:U:C5'	2.94	0.50
29:D1:1156:C:H2'	29:D1:1157:G:H5''	1.93	0.50
29:D1:1289:G:C2	29:D1:1290:A:C8	2.98	0.50
29:D1:1340:G:C2	29:D1:1341:U:C4	2.99	0.50
29:D1:1546:A:N6	29:D1:1547:G:N1	2.59	0.50
29:D1:1884:A:C5	29:D1:1885:U:C4	2.99	0.50
29:D1:2255:A:N1	29:D1:2258:U:H5''	2.27	0.50
29:D1:2270:A:O2'	29:D1:2271:A:H5'	2.10	0.50
29:D1:2344:U:O2	29:D1:2344:U:H2'	2.10	0.50
29:D1:2628:A:N9	29:D1:2798:C:N4	2.59	0.50
29:D1:268:A:N9	29:D1:270:U:O2	2.44	0.50
29:D1:2762:A:H3'	29:D1:2763:U:C5	2.46	0.50
29:D1:2761:G:N1	29:D1:2795:U:H3'	2.23	0.50
29:D1:3020:U:C2'	29:D1:3021:A:OP1	2.58	0.50
29:D1:3102:G:C8	29:D1:3102:G:C5'	2.88	0.50
29:D1:3118:C:C2	29:D1:3119:U:C6	2.99	0.50
29:D1:3323:A:C2	29:D1:3324:C:C6	2.99	0.50
29:D1:3393:U:H2'	29:D1:3394:U:O4'	2.11	0.50
29:D1:3377:G:O4'	74:D1:3452:OHX:N2	2.44	0.50
29:D1:347:G:N1	29:D1:348:A:C6	2.79	0.50
29:D1:572:A:C5	29:D1:573:C:C6	2.99	0.50
29:D1:512:U:C1'	29:D1:579:G:N2	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:771:A:N1	29:D1:772:U:C4	2.79	0.50
29:D1:82:C:C2'	29:D1:83:U:O5'	2.56	0.50
38:DG:68:ASP:O	38:DG:71:ALA:CB	2.57	0.50
1:A1:705:U:O4	1:A1:734:A:C2	2.64	0.50
30:B2:9:C:H3'	30:B2:10:C:C4'	2.41	0.50
30:B2:65:G:N3	30:B2:65:G:H2'	2.26	0.50
30:B2:65:G:C2'	30:B2:66:A:O5'	2.59	0.50
31:B3:54:A:H2'	31:B3:55:U:O5'	2.11	0.50
1:A1:197:A:HO2'	1:A1:198:A:H8	1.58	0.50
1:C1:325:G:O2'	1:C1:326:G:H5'	2.11	0.50
1:A1:1689:A:N6	1:A1:1716:C:C2	2.79	0.50
1:C1:1227:A:H8	1:C1:1229:G:OP2	1.94	0.50
1:C1:1484:G:H21	1:C1:1606:C:C1'	2.13	0.50
1:C1:1508:U:O2	1:C1:1508:U:H2'	2.11	0.50
1:A1:1542:G:C8	1:A1:1542:G:OP2	2.51	0.50
1:A1:1203:A:C2	1:A1:1555:A:C2	2.99	0.50
6:CE:81:VAL:O	6:CE:82:ARG:O	2.29	0.50
29:B1:1511:U:H3'	29:B1:1512:U:H6	1.76	0.50
29:B1:3170:A:H2'	29:B1:3171:U:O5'	2.10	0.50
29:B1:3202:G:N3	29:B1:3203:U:C2	2.79	0.50
29:D1:3197:G:N3	29:D1:3197:G:H3'	2.26	0.50
30:B2:35:C:H5'	30:B2:35:C:H6	1.76	0.50
29:D1:191:U:O2	29:D1:192:C:C6	2.64	0.50
29:D1:3260:G:C6	29:D1:3261:C:O4'	2.64	0.50
29:D1:2520:A:C2	29:D1:2521:U:O2	2.64	0.50
29:D1:2771:U:C3'	29:D1:2772:C:C5'	2.85	0.50
29:D1:3357:U:H5'	29:D1:3358:U:OP2	2.10	0.50
29:D1:1063:G:O2'	29:D1:1064:A:OP2	2.28	0.50
31:B3:28:C:C2'	31:B3:28:C:O2	2.59	0.50
1:A1:1281:G:C5	1:A1:1282:U:C5	2.99	0.50
2:CA:172:LEU:O	2:CA:176:LEU:CB	2.58	0.50
1:A1:1332:C:O5'	1:A1:1332:C:H6	1.93	0.50
1:A1:1392:U:C6	1:A1:1392:U:C5'	2.94	0.50
1:C1:914:G:H3'	74:C1:1927:OHX:N6	2.26	0.50
36:DE:43:LYS:N	49:DT:69:LYS:C	2.64	0.50
29:D1:2565:U:C2	29:D1:2566:C:C5	2.98	0.50
43:BN:33:ALA:CB	43:BN:48:GLY:N	2.67	0.50
29:D1:1217:A:C5'	29:D1:1218:U:OP2	2.60	0.50
1:C1:374:U:C4	1:C1:375:U:C4	2.99	0.50
45:DP:172:ARG:O	45:DP:173:ALA:C	2.49	0.50
29:B1:1183:C:C3'	29:B1:1184:A:H5''	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CE:68:LYS:O	6:CE:69:ARG:C	2.47	0.50
1:C1:1693:A:N6	1:C1:1708:U:H3	2.09	0.50
14:AM:112:GLY:O	14:AM:113:ILE:CB	2.59	0.50
1:A1:1693:A:N6	1:A1:1708:U:H3	2.08	0.50
20:CS:42:CYS:O	20:CS:45:GLU:N	2.42	0.50
1:C1:719:U:H1'	1:C1:720:G:P	2.51	0.50
34:DC:7:GLU:O	34:DC:8:ALA:HB3	2.11	0.50
29:B1:733:G:H21	29:B1:734:C:H2'	1.74	0.50
29:D1:173:G:O6	29:D1:245:U:O2	2.29	0.50
38:DG:222:HIS:CB	38:DG:228:SER:N	2.74	0.50
29:B1:2722:U:H2'	29:B1:2723:U:C6	2.47	0.50
1:C1:776:G:C6	1:C1:785:U:N3	2.78	0.50
1:C1:736:C:H2'	1:C1:737:A:C8	2.41	0.50
1:C1:739:G:OP2	1:C1:739:G:H8	1.94	0.50
7:CF:125:VAL:HA	7:CF:138:ASN:O	2.12	0.50
34:DC:142:ALA:C	34:DC:144:ILE:H	2.12	0.50
29:B1:729:C:C4	29:B1:730:C:C4	2.99	0.50
32:BA:54:LYS:CA	32:BA:55:LEU:CB	2.89	0.50
40:BI:155:SER:O	40:BI:158:ALA:HB3	2.11	0.50
35:BD:180:LYS:O	35:BD:182:LEU:N	2.44	0.50
47:DR:23:ASN:O	47:DR:24:VAL:C	2.49	0.50
5:AD:212:LYS:C	5:AD:214:LYS:N	2.63	0.50
15:AN:45:ALA:HB1	15:AN:49:ASN:CB	2.41	0.50
2:CA:50:VAL:O	2:CA:53:THR:CB	2.59	0.50
13:AL:33:THR:C	13:AL:35:ILE:N	2.64	0.50
2:CA:75:ALA:HB1	2:CA:122:ILE:O	2.11	0.50
73:DM:79:PHE:O	73:DM:80:VAL:C	2.48	0.50
8:CG:91:LEU:O	8:CG:95:ALA:CB	2.59	0.50
1:A1:1025:A:O2'	1:A1:1773:C:O2'	2.13	0.50
1:A1:28:A:C2	1:A1:29:U:C2	2.99	0.50
1:A1:365:G:C4	1:A1:377:G:N1	2.80	0.50
1:A1:366:A:O5'	1:A1:366:A:H8	1.95	0.50
1:A1:428:A:C2	1:A1:440:U:O2	2.64	0.50
1:A1:445:A:H61	1:A1:461:G:N2	2.09	0.50
1:A1:516:G:N3	1:A1:516:G:H2'	2.25	0.50
1:A1:549:G:C2	1:A1:550:A:C8	2.99	0.50
1:A1:986:G:O2'	1:A1:987:G:C8	2.63	0.50
29:B1:114:A:N3	29:B1:267:G:C2	2.79	0.50
29:B1:1150:A:OP1	29:B1:1151:U:O4	2.29	0.50
29:B1:1164:G:C5	29:B1:1165:A:N7	2.79	0.50
29:B1:1214:U:C2'	29:B1:1215:U:H5'	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:220:G:C6	29:B1:1389:G:N2	2.80	0.50
29:B1:1406:A:C2	29:B1:1407:A:C4	2.99	0.50
29:B1:1420:C:OP1	31:B3:20:U:H5''	2.11	0.50
29:B1:1445:U:C4	29:B1:1446:A:N7	2.79	0.50
29:B1:1455:U:OP1	29:B1:3078:U:N3	2.44	0.50
29:B1:1503:A:C5'	29:B1:1503:A:C8	2.88	0.50
29:B1:1517:G:C6	29:B1:1518:U:C4	2.99	0.50
29:B1:1843:C:C2	29:B1:1844:C:C5	3.00	0.50
29:B1:1875:G:H2'	29:B1:1876:U:C5'	2.24	0.50
29:B1:199:A:C5	29:B1:219:A:N6	2.78	0.50
29:B1:2247:G:N3	29:B1:2247:G:H2'	2.27	0.50
29:B1:2612:U:H2'	29:B1:2613:U:O2	2.11	0.50
29:B1:2837:A:H2'	29:B1:2845:A:C2	2.46	0.50
29:B1:2948:C:C2	29:B1:2949:U:C5	2.99	0.50
29:B1:1685:C:H5	29:B1:3069:G:H22	1.41	0.50
29:B1:361:A:C2'	29:B1:362:U:O4'	2.59	0.50
29:B1:393:U:O2	29:B1:394:G:O4'	2.30	0.50
29:B1:535:G:N1	29:B1:559:A:H5'	2.26	0.50
29:B1:608:A:H8	29:B1:608:A:H3'	1.71	0.50
29:B1:715:A:C3'	54:BY:115:LYS:CB	2.89	0.50
29:B1:929:A:C6	29:B1:930:U:C4	2.99	0.50
31:B3:113:U:O2'	31:B3:114:G:P	2.68	0.50
31:B3:142:C:N3	31:B3:143:U:C4	2.80	0.50
1:C1:1001:A:N7	1:C1:1002:G:C5	2.79	0.50
1:C1:471:A:O2'	1:C1:472:U:H5'	2.11	0.50
1:C1:514:G:C4	1:C1:515:A:C8	3.00	0.50
1:C1:986:G:O2'	1:C1:987:G:C8	2.62	0.50
1:C1:989:U:N3	1:C1:990:C:C4	2.79	0.50
29:D1:1104:G:H2'	29:D1:1105:A:O5'	2.11	0.50
29:D1:1304:A:H2	29:D1:2938:G:N3	2.09	0.50
29:D1:1366:A:C2	29:D1:1367:G:C5	3.00	0.50
29:D1:1523:U:H5''	29:D1:1834:U:H5	1.76	0.50
29:D1:1609:C:OP2	29:D1:1609:C:H6	1.94	0.50
29:D1:1847:A:C2	29:D1:1849:C:N1	2.79	0.50
29:D1:1878:G:C3'	29:D1:1878:G:C8	2.94	0.50
29:D1:1900:A:O4'	29:D1:1901:A:C2	2.64	0.50
29:D1:2137:U:C2	29:D1:2141:U:H5	2.29	0.50
29:D1:2278:C:N4	29:D1:2305:G:C8	2.79	0.50
29:D1:2308:C:H3'	29:D1:2309:A:H5''	1.93	0.50
29:D1:2395:G:C2'	29:D1:2396:G:H5'	2.37	0.50
29:D1:25:U:H3	29:D1:331:G:H8	1.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:267:G:C8	29:D1:267:G:OP2	2.65	0.50
29:D1:2749:G:C6	29:D1:2750:U:C4	3.00	0.50
29:D1:2696:A:N1	29:D1:2758:A:C5	2.79	0.50
29:D1:2821:C:H2'	29:D1:2822:U:H5'	1.93	0.50
29:D1:2837:A:C8	29:D1:2845:A:N1	2.79	0.50
29:D1:2895:G:H2'	29:D1:2896:A:H8	1.76	0.50
29:D1:295:A:H2'	29:D1:296:A:O4'	2.12	0.50
29:D1:2980:U:N3	29:D1:2981:U:H5	2.09	0.50
29:D1:2912:G:O6	29:D1:3130:A:C5	2.64	0.50
29:D1:3366:G:H2'	29:D1:3367:C:C6	2.47	0.50
29:D1:39:A:C5'	29:D1:40:A:OP2	2.57	0.50
29:D1:575:G:C8	29:D1:575:G:C5'	2.84	0.50
29:D1:596:C:H5'	29:D1:597:G:OP1	2.11	0.50
29:D1:648:C:C5	29:D1:2374:C:O2'	2.48	0.50
29:D1:733:G:H3'	29:D1:733:G:N3	2.27	0.50
29:D1:811:U:C2	29:D1:812:G:C8	2.99	0.50
29:D1:844:G:C2	29:D1:850:U:C2	2.99	0.50
1:C1:217:A:N3	1:C1:218:A:H5'	2.26	0.50
1:C1:219:A:C6	1:C1:843:U:H1'	2.44	0.50
29:B1:2650:U:H1'	29:B1:2758:A:C2	2.46	0.50
31:B3:75:G:P	31:B3:90:U:H5'	2.51	0.50
41:BJ:170:LYS:CB	41:BJ:171:TRP:C	2.80	0.50
41:BJ:170:LYS:CB	41:BJ:172:GLY:N	2.74	0.50
1:A1:200:A:C2	1:A1:201:G:C4	3.00	0.50
30:D2:66:A:OP2	30:D2:66:A:C8	2.64	0.50
30:D2:78:U:C2	30:D2:79:A:C8	2.99	0.50
1:C1:321:C:N4	1:C1:341:A:OP2	2.45	0.50
1:C1:110:U:O2'	1:C1:797:G:H1'	2.12	0.50
1:A1:1719:A:C2'	1:A1:1720:G:C5	2.92	0.50
1:C1:1232:U:C2'	1:C1:1233:G:H5'	2.41	0.50
1:C1:1275:A:C8	1:C1:1438:G:N2	2.79	0.50
1:C1:1472:C:H1'	1:C1:1473:U:OP2	2.12	0.50
1:A1:1166:A:C6	1:A1:1167:G:C8	3.00	0.50
1:A1:1179:G:N2	1:A1:1461:C:C4	2.80	0.50
1:A1:1512:G:C6	1:A1:1513:G:C6	2.99	0.50
1:A1:1521:G:O6	74:A1:1943:OHX:N2	2.44	0.50
29:B1:3210:A:C8	29:B1:3211:C:C5	2.96	0.50
29:B1:3230:G:C6	29:B1:3231:U:C4	2.98	0.50
29:B1:3277:U:C3'	29:B1:3277:U:C6	2.95	0.50
29:B1:3279:A:N7	29:B1:3280:U:O4	2.44	0.50
29:B1:1246:G:C5	29:B1:1247:U:H1'	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2431:C:C2	29:B1:2432:A:C8	2.99	0.50
17:AP:109:ARG:H	17:AP:110:LYS:CA	2.08	0.50
29:D1:1627:U:H5'	29:D1:1628:C:P	2.52	0.50
1:C1:1330:G:C4	1:C1:1331:A:N7	2.79	0.50
1:C1:1338:C:H2'	1:C1:1339:C:O4'	2.12	0.50
1:C1:1407:U:C6	1:C1:1408:G:C8	2.99	0.50
29:B1:1077:U:O2'	29:B1:1078:U:C6	2.64	0.50
29:D1:3273:A:C8	29:D1:3275:U:C5	2.99	0.50
29:D1:2129:U:C2'	29:D1:2130:G:C8	2.88	0.50
29:D1:2132:C:H6	29:D1:2132:C:C5'	2.18	0.50
29:B1:1731:A:C5	29:B1:1732:U:C4	2.99	0.50
30:B2:117:A:C2'	30:B2:118:A:H5'	2.41	0.50
29:B1:2881:C:H2'	29:B1:2882:U:H6	1.75	0.50
1:A1:982:U:O4	1:A1:983:A:N6	2.44	0.50
36:DE:281:GLU:O	36:DE:282:ARG:C	2.49	0.50
29:B1:2105:G:H8	29:B1:2105:G:C5'	2.24	0.50
29:D1:2834:G:C2	29:D1:2835:U:C5	2.99	0.50
29:B1:2131:A:C8	29:B1:2131:A:H3'	2.46	0.50
29:D1:1008:U:H5''	29:D1:1008:U:C6	2.46	0.50
43:DN:23:ILE:O	43:DN:24:LYS:CB	2.60	0.50
29:B1:2337:C:H2'	29:B1:2338:C:H6	1.77	0.50
1:C1:880:C:H2'	1:C1:881:A:H8	1.76	0.50
17:CP:49:ALA:O	17:CP:103:LEU:O	2.29	0.50
36:DE:253:PHE:N	36:DE:254:LYS:HA	2.25	0.50
3:AB:118:ALA:HB2	3:AB:124:ALA:CB	2.40	0.50
14:AM:28:LEU:O	14:AM:30:VAL:N	2.45	0.50
29:B1:246:U:H3'	29:B1:247:C:C5'	2.41	0.50
29:B1:255:A:H2'	29:B1:256:G:H8	1.73	0.50
45:BP:187:GLU:O	45:BP:188:SER:C	2.49	0.50
36:DE:188:GLU:CB	36:DE:189:GLU:CA	2.90	0.50
13:CL:44:ASN:O	13:CL:48:LYS:CB	2.59	0.50
50:DU:27:ASP:O	50:DU:29:SER:N	2.42	0.50
2:CA:54:TRP:O	2:CA:57:LEU:N	2.45	0.50
21:CT:135:THR:C	21:CT:137:LYS:N	2.64	0.50
1:A1:1225:U:C5	1:A1:1226:A:C5	3.00	0.50
33:BB:206:PRO:C	33:BB:207:VAL:O	2.49	0.50
39:DH:126:SER:O	39:DH:128:LYS:N	2.35	0.50
45:DP:156:LEU:O	45:DP:157:GLU:C	2.49	0.50
46:DQ:70:THR:O	46:DQ:71:ALA:O	2.29	0.50
44:BO:134:LEU:O	44:BO:135:VAL:CB	2.58	0.50
16:CO:94:LEU:O	16:CO:95:PRO:CB	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CP:73:ARG:HA	17:CP:84:THR:HA	1.94	0.50
48:BS:86:GLU:O	48:BS:89:LEU:O	2.29	0.50
73:DM:3:GLY:O	73:DM:5:ARG:N	2.39	0.50
29:D1:1757:A:C6	29:D1:1769:G:C6	2.99	0.50
1:A1:1056:U:H2'	1:A1:1056:U:O2	2.11	0.50
1:A1:1107:G:C6	1:A1:1108:G:O6	2.64	0.50
1:A1:1640:C:H1'	1:A1:1763:A:N1	2.27	0.50
1:A1:1645:G:C2	1:A1:1757:G:C2	3.00	0.50
1:A1:1767:G:OP1	1:A1:1770:U:H4'	2.10	0.50
1:A1:446:A:C5	1:A1:447:U:H5	2.28	0.50
1:A1:478:A:C2	1:A1:479:C:C2	2.99	0.50
1:A1:48:G:C6	1:A1:432:G:C2	2.99	0.50
29:B1:1131:G:C2	29:B1:2373:A:C5	3.00	0.50
29:B1:113:C:H2'	29:B1:113:C:O2	2.12	0.50
29:B1:1201:C:O2	29:B1:1201:C:H2'	2.12	0.50
29:B1:1213:G:C8	29:B1:1213:G:C5'	2.86	0.50
29:B1:1445:U:C5	29:B1:1446:A:C5	2.99	0.50
29:B1:15:C:O2	29:B1:15:C:O4'	2.27	0.50
29:B1:1799:A:H2	29:B1:1800:A:C2	2.29	0.50
29:B1:1887:A:N7	29:B1:2348:A:H2	2.08	0.50
29:B1:2146:C:C2'	29:B1:2147:A:H5''	2.40	0.50
29:B1:2369:G:C5	29:B1:2370:G:C6	2.99	0.50
29:B1:2609:A:C2	29:B1:2610:G:N7	2.79	0.50
29:B1:263:C:OP1	29:B1:264:G:OP1	2.30	0.50
29:B1:2919:A:C2'	29:B1:2920:U:H5''	2.42	0.50
29:B1:309:U:C5	29:B1:310:U:C5	3.00	0.50
29:B1:3298:C:H2'	29:B1:3299:A:C8	2.46	0.50
29:B1:3390:G:C5	29:B1:3391:A:C8	2.99	0.50
29:B1:518:G:H3'	29:B1:519:A:H3'	1.94	0.50
29:B1:531:G:C2'	29:B1:532:A:H8	2.16	0.50
29:B1:533:A:C2	29:B1:534:U:O4	2.64	0.50
29:B1:723:U:C5'	29:B1:723:U:H6	2.25	0.50
29:B1:746:A:C5'	29:B1:746:A:C8	2.95	0.50
29:B1:92:G:OP2	29:B1:93:C:H5''	2.11	0.50
29:B1:40:A:C6	29:B1:937:G:C2	2.99	0.50
31:B3:106:C:H6	31:B3:106:C:O5'	1.93	0.50
37:BF:149:ILE:H	37:BF:151:LYS:H	1.59	0.50
37:BF:157:GLN:C	37:BF:159:LEU:N	2.65	0.50
1:C1:1008:G:N1	1:C1:1009:U:C2	2.79	0.50
1:C1:1131:A:H3'	1:C1:1132:A:C8	2.46	0.50
1:C1:139:C:O4'	1:C1:141:U:H5''	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:10:G:C8	1:C1:1633:A:C4	2.99	0.50
1:C1:1778:G:N1	1:C1:1779:U:C5	2.79	0.50
1:C1:22:A:N1	1:C1:604:A:C6	2.79	0.50
1:C1:386:G:C2'	1:C1:387:A:O5'	2.59	0.50
1:C1:406:U:H3'	1:C1:406:U:OP2	2.11	0.50
1:C1:814:A:C2'	1:C1:816:G:H21	2.24	0.50
1:C1:96:G:C6	1:C1:97:C:C4	3.00	0.50
1:C1:971:A:C8	1:C1:972:G:C8	3.00	0.50
29:D1:1129:A:N6	29:D1:1130:A:H61	2.10	0.50
29:D1:1206:G:H2'	29:D1:1207:G:H5'	1.92	0.50
29:D1:1310:G:C2'	29:D1:1311:G:O5'	2.59	0.50
29:D1:1371:G:H5''	29:D1:1371:G:C8	2.46	0.50
29:D1:1498:A:C6	29:D1:1499:C:C4	3.00	0.50
29:D1:1780:G:O2'	29:D1:1781:C:H6	1.93	0.50
29:D1:2247:G:H5''	29:D1:2248:C:OP2	2.11	0.50
29:D1:2341:A:H2'	29:D1:2342:U:C6	2.46	0.50
29:D1:2666:C:C6	29:D1:2666:C:O5'	2.64	0.50
29:D1:2703:A:C4'	29:D1:2704:A:H5'	2.41	0.50
29:D1:2728:G:N2	29:D1:2729:U:C5	2.79	0.50
29:D1:2728:G:N2	29:D1:2729:U:C6	2.79	0.50
29:D1:2896:A:C8	29:D1:2896:A:C5'	2.95	0.50
29:D1:2896:A:C3'	29:D1:2897:A:H5''	2.41	0.50
29:D1:3037:U:C2	29:D1:3038:U:C5	3.00	0.50
29:D1:3060:C:H2'	29:D1:3061:G:H8	1.77	0.50
29:D1:3360:C:C2'	29:D1:3360:C:O2	2.54	0.50
29:D1:342:A:N6	29:D1:368:G:N3	2.59	0.50
29:D1:44:U:C5	29:D1:45:A:C8	2.99	0.50
29:D1:543:C:H2'	29:D1:543:C:O2	2.11	0.50
29:D1:582:G:C6	29:D1:583:G:N7	2.79	0.50
29:D1:720:A:C8	29:D1:720:A:P	3.03	0.50
29:D1:779:G:H2'	29:D1:780:A:O4'	2.12	0.50
29:D1:939:U:H6	29:D1:939:U:H5'	1.75	0.50
29:D1:993:G:N2	29:D1:2638:C:OP2	2.43	0.50
31:D3:106:C:H4'	31:D3:107:G:C5'	2.41	0.50
31:D3:140:G:H5''	31:D3:141:C:OP2	2.11	0.50
34:DC:186:GLY:O	34:DC:187:SER:O	2.29	0.50
29:D1:1140:G:OP1	38:DG:94:LYS:HA	2.11	0.50
1:A1:704:C:HO2'	1:A1:705:U:H6	1.60	0.50
16:CO:80:ASN:O	16:CO:123:GLY:O	2.30	0.50
29:B1:2725:U:O4	29:B1:2727:A:C2	2.64	0.50
31:B3:88:A:C8	31:B3:89:A:C6	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:185:U:C2	1:A1:201:G:N2	2.79	0.50
30:D2:112:G:P	74:D2:207:OHX:N6	2.84	0.50
30:D2:65:G:N2	30:D2:66:A:C4	2.80	0.50
30:D2:68:C:O2'	30:D2:69:C:O5'	2.30	0.50
1:C1:1720:G:N9	1:C1:1721:A:C8	2.80	0.50
45:BP:128:ARG:O	45:BP:129:LEU:O	2.28	0.50
1:A1:330:G:H2'	1:A1:331:A:C8	2.45	0.50
1:C1:1243:G:N7	1:C1:1244:A:N6	2.59	0.50
1:C1:1349:G:H3'	1:C1:1349:G:P	2.52	0.50
1:C1:1370:U:H2'	1:C1:1371:A:O5'	2.11	0.50
1:C1:1383:G:O6	1:C1:1384:A:N6	2.45	0.50
1:A1:1425:A:H2'	1:A1:1426:C:H5'	1.92	0.50
1:A1:1209:C:C4	1:A1:1455:G:N2	2.78	0.50
1:A1:1169:G:N2	1:A1:1577:A:C5	2.80	0.50
1:A1:1583:A:H1'	1:A1:1585:U:N1	2.26	0.50
1:A1:1591:C:O2	1:A1:1591:C:C2'	2.54	0.50
30:B2:88:G:H2'	30:B2:89:G:C8	2.44	0.50
29:D1:3219:G:C8	29:D1:3257:C:C5'	2.77	0.50
1:A1:641:G:C2	1:A1:642:G:C5	2.99	0.50
29:D1:1229:G:C2	29:D1:1230:G:C4	2.99	0.50
29:D1:1246:G:N3	29:D1:1264:G:O2'	2.39	0.50
29:D1:1254:C:C2	29:D1:1263:A:N1	2.79	0.50
29:B1:2591:A:C2	29:B1:2592:G:O4'	2.64	0.50
29:D1:3353:G:C2'	29:D1:3353:G:N3	2.73	0.50
1:A1:1281:G:H4'	15:AN:75:GLY:HA2	1.93	0.50
1:C1:1403:C:OP1	1:C1:1414:U:OP1	2.29	0.50
29:B1:1065:A:O2'	29:B1:1066:G:C8	2.51	0.50
29:B1:1081:U:O2	29:B1:1081:U:H2'	2.10	0.50
29:D1:3006:A:H8	29:D1:3007:U:N1	2.09	0.50
29:B1:124:U:H6	29:B1:124:U:O5'	1.95	0.50
29:D1:2105:G:C5'	29:D1:2105:G:H8	2.24	0.50
29:D1:1084:A:C5	29:D1:1085:A:C6	2.99	0.50
29:D1:1687:U:C2'	29:D1:1688:U:H4'	2.42	0.50
36:DE:97:ALA:O	36:DE:101:THR:N	2.45	0.50
29:B1:25:U:N3	29:B1:26:A:C5	2.79	0.50
29:D1:1919:G:C2'	29:D1:1933:A:H61	2.24	0.50
29:D1:1714:A:H2'	29:D1:1715:A:OP1	2.11	0.50
1:C1:1581:C:H2'	1:C1:1582:U:H5'	1.94	0.50
29:B1:1702:U:O4	29:B1:1703:U:H6	1.95	0.50
29:B1:1352:A:C3'	29:B1:1353:U:H4'	2.41	0.50
29:D1:856:G:C6	29:D1:857:G:N2	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CD:204:GLY:C	5:CD:206:SER:N	2.64	0.50
29:B1:1542:G:N3	29:B1:1543:G:C8	2.80	0.50
44:DO:79:ALA:HA	44:DO:80:THR:O	2.12	0.50
47:BR:43:PRO:C	47:BR:45:ASN:H	2.14	0.50
29:B1:2576:G:C4	29:B1:2577:C:C5	3.00	0.50
1:A1:235:G:H2'	1:A1:236:A:H8	1.75	0.50
1:C1:1693:A:H61	1:C1:1708:U:H3	1.60	0.50
45:DP:56:ASP:C	45:DP:60:LYS:N	2.65	0.50
3:AB:122:ALA:O	3:AB:123:GLY:C	2.49	0.50
29:B1:172:G:N2	29:B1:173:G:C4	2.80	0.50
29:B1:171:G:C2'	29:B1:172:G:O5'	2.59	0.50
29:D1:244:G:H2'	29:D1:245:U:C5'	2.40	0.50
5:CD:134:VAL:O	5:CD:136:ALA:N	2.44	0.50
34:DC:86:VAL:O	34:DC:88:GLY:O	2.29	0.50
8:CG:49:GLN:CA	8:CG:50:ILE:CB	2.90	0.50
33:DB:102:LEU:C	33:DB:104:LEU:N	2.64	0.50
35:BD:123:ALA:O	35:BD:125:ALA:N	2.44	0.50
52:BW:133:LEU:O	52:BW:136:ALA:HB3	2.12	0.50
43:DN:28:SER:O	43:DN:29:ALA:CB	2.58	0.50
36:DE:227:LEU:HA	36:DE:229:ASP:N	2.25	0.50
73:DM:196:VAL:O	73:DM:197:PHE:C	2.49	0.50
4:AC:136:VAL:CB	4:AC:186:VAL:HA	2.41	0.50
17:AP:95:PHE:O	17:AP:97:ASP:N	2.44	0.50
16:CO:74:VAL:CB	16:CO:128:PHE:O	2.59	0.50
44:BO:16:SER:O	44:BO:18:VAL:N	2.43	0.50
1:A1:1211:A:C5	1:A1:1212:G:N7	2.80	0.50
72:DL:26:ALA:C	72:DL:28:LEU:H	2.14	0.50
73:DM:9:ALA:HA	73:DM:12:PHE:CB	2.41	0.50
1:A1:994:G:C6	1:A1:1011:G:N2	2.79	0.50
1:A1:1030:A:N6	1:A1:1792:G:N7	2.59	0.50
1:A1:1032:G:C2	1:A1:1033:C:C2	2.99	0.50
1:A1:14:C:C5'	3:AB:163:GLY:HA2	2.42	0.50
1:A1:1763:A:H2'	1:A1:1764:C:H5''	1.93	0.50
1:A1:1772:C:O2	1:A1:1772:C:C2'	2.59	0.50
1:A1:1793:G:H4'	1:A1:1793:G:OP1	2.12	0.50
1:A1:397:A:N6	1:A1:398:G:C2	2.79	0.50
1:A1:492:A:N3	1:A1:494:U:H6	2.08	0.50
1:A1:871:G:C2'	1:A1:872:G:H8	2.25	0.50
1:A1:627:C:C2	1:A1:973:A:C2	2.99	0.50
29:B1:954:U:H5	29:B1:1115:G:HO2'	1.57	0.50
29:B1:1189:C:C4'	29:B1:1192:C:C5	2.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1143:A:C1'	29:B1:1368:U:C5	2.94	0.50
29:B1:1393:A:N7	29:B1:1418:A:C5	2.80	0.50
29:B1:159:A:C2'	29:B1:160:G:C8	2.93	0.50
29:B1:1653:G:H2'	29:B1:1654:A:C5'	2.28	0.50
29:B1:226:C:H4'	53:BX:29:VAL:O	2.11	0.50
29:B1:2280:A:HO2'	29:B1:2281:A:P	2.34	0.50
29:B1:2297:U:N3	29:B1:2299:A:C6	2.79	0.50
29:B1:264:G:C2	29:B1:265:A:C5	2.99	0.50
29:B1:2714:G:N9	29:B1:2716:U:C5	2.79	0.50
29:B1:2920:U:H5'	29:B1:2920:U:H6	1.76	0.50
29:B1:2947:G:H2'	29:B1:2948:C:H5	1.76	0.50
29:B1:3034:C:C2'	29:B1:3035:A:H5'	2.41	0.50
29:B1:1199:C:N3	74:B1:3587:OHX:N5	2.60	0.50
29:B1:359:U:C2	29:B1:920:A:C6	2.98	0.50
29:B1:423:A:H8	29:B1:423:A:O5'	1.94	0.50
29:B1:43:A:C6	29:B1:2802:A:C2	2.97	0.50
29:B1:547:G:H8	29:B1:548:G:N7	2.10	0.50
33:BB:44:ILE:HA	33:BB:60:LYS:HA	1.93	0.50
37:BF:31:ARG:O	37:BF:32:ALA:O	2.29	0.50
1:C1:1030:A:N6	1:C1:1792:G:N7	2.60	0.50
1:C1:200:A:C2	1:C1:201:G:C4	2.99	0.50
1:C1:271:A:C2	1:C1:285:G:C6	2.99	0.50
1:C1:452:A:H2'	1:C1:453:U:O5'	2.11	0.50
1:C1:463:U:H2'	1:C1:464:A:H8	1.76	0.50
1:C1:542:A:H2	1:C1:544:A:H3'	1.76	0.50
1:C1:601:A:C6	1:C1:602:U:C4	3.00	0.50
1:C1:960:U:H2'	1:C1:961:U:H6	1.76	0.50
29:D1:112:U:O2'	29:D1:113:C:P	2.70	0.50
29:D1:1174:G:C2'	29:D1:1175:C:H5'	2.42	0.50
29:D1:1212:A:H3'	29:D1:1213:G:H5''	1.93	0.50
29:D1:15:C:OP1	29:D1:16:A:OP1	2.29	0.50
29:D1:1910:A:N6	29:D1:1911:A:N1	2.60	0.50
29:D1:2112:U:O2	29:D1:2113:A:C2	2.64	0.50
29:D1:2301:U:H2'	29:D1:2302:G:C8	2.46	0.50
29:D1:2376:G:C2	29:D1:2377:G:C2	2.99	0.50
29:D1:2741:C:C3'	37:DF:19:LYS:HA	76.12	0.50
29:D1:2836:C:H5	29:D1:2853:A:C2	2.28	0.50
29:D1:2903:A:C5	29:D1:2904:U:C5	3.00	0.50
29:D1:292:U:H2'	29:D1:292:U:O2	2.10	0.50
29:D1:293:C:H2'	29:D1:294:U:O4'	2.12	0.50
29:D1:3097:C:H3'	29:D1:3097:C:C6	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3317:U:H3	34:DC:123:TYR:CA	2.21	0.50
29:D1:3320:A:C4	29:D1:3321:C:C4	2.99	0.50
29:D1:3323:A:C5	29:D1:3324:C:C5	3.00	0.50
29:D1:3333:G:H22	29:D1:3370:A:C4'	2.25	0.50
29:D1:3327:G:N1	29:D1:3379:C:C4	2.79	0.50
29:D1:3392:U:C2	29:D1:3393:U:N3	2.79	0.50
29:D1:428:A:C2'	29:D1:429:U:O5'	2.59	0.50
29:D1:47:C:N4	29:D1:48:A:C6	2.80	0.50
29:D1:581:U:O2	29:D1:581:U:H2'	2.10	0.50
29:D1:609:G:N7	29:D1:610:G:C6	2.80	0.50
29:D1:639:G:C2'	29:D1:640:U:H5'	2.42	0.50
29:D1:697:A:N6	29:D1:699:A:C2	2.79	0.50
29:D1:747:A:C2'	29:D1:748:U:OP1	2.59	0.50
29:D1:958:C:P	29:D1:2799:A:H2'	2.52	0.50
29:D1:977:C:O2'	29:D1:978:G:P	2.70	0.50
31:D3:80:A:C8	31:D3:80:A:OP2	2.64	0.50
34:DC:257:PRO:CB	34:DC:259:HIS:N	2.75	0.50
35:DD:39:PHE:O	35:DD:40:THR:C	2.49	0.50
37:DF:159:LEU:O	37:DF:161:ALA:N	2.43	0.50
54:DY:20:GLY:O	54:DY:22:ILE:N	2.45	0.50
1:A1:699:U:H2'	1:A1:700:C:C6	2.46	0.50
1:C1:809:A:C6	1:C1:810:G:O6	2.64	0.50
29:B1:967:A:H3'	29:B1:968:G:C8	2.47	0.50
29:B1:999:G:H5''	30:B2:104:A:H1'	1.93	0.50
1:A1:449:C:H2'	1:A1:450:U:C6	2.46	0.50
1:C1:302:U:C2'	1:C1:303:U:H5'	2.41	0.50
1:C1:1165:G:C6	1:C1:1166:A:C5	3.00	0.50
1:C1:1425:A:C2'	1:C1:1426:C:H5'	2.42	0.50
1:C1:1438:G:H5'	1:C1:1438:G:H8	1.76	0.50
1:C1:1515:A:H3'	1:C1:1516:A:H5''	1.93	0.50
1:C1:1590:G:N3	1:C1:1591:C:C5	2.79	0.50
1:C1:1596:C:O2'	1:C1:1597:A:H3'	2.11	0.50
1:A1:1192:C:H3'	1:A1:1193:A:H2'	1.93	0.50
1:A1:1384:A:C4	1:A1:1385:G:C8	3.00	0.50
1:A1:1431:C:H3'	1:A1:1432:U:H5'	1.90	0.50
1:A1:1498:G:C2	1:A1:1499:G:N7	2.79	0.50
29:D1:1324:U:C6	29:D1:1324:U:C4'	2.94	0.50
29:D1:436:A:O5'	29:D1:436:A:H8	1.94	0.50
29:D1:3202:G:N3	29:D1:3203:U:C2	2.80	0.50
29:B1:3030:G:O2'	29:B1:3031:G:O4'	2.27	0.50
29:D1:3281:U:N3	29:D1:3282:U:O4	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:34:C:O2'	30:D2:35:C:H5''	2.10	0.50
30:D2:48:U:H2'	30:D2:49:G:OP2	2.11	0.50
29:B1:2513:U:C6	29:B1:2592:G:N2	2.74	0.50
1:C1:1330:G:C5	1:C1:1331:A:N7	2.80	0.50
1:C1:1393:C:H2'	1:C1:1394:G:H8	1.74	0.50
29:B1:1066:G:H2'	29:B1:1067:U:C1'	2.41	0.50
1:A1:1340:U:C2	1:A1:1342:C:C5	3.00	0.50
1:A1:1404:C:H2'	1:A1:1405:G:H8	1.76	0.50
20:CS:38:ILE:N	74:CS:101:OHX:N5	2.60	0.50
30:B2:119:U:H5'	30:B2:120:C:OP2	2.12	0.50
29:D1:1011:A:N6	29:D1:1039:U:H3	1.85	0.50
29:D1:1351:U:H2'	29:D1:1352:A:C4	2.46	0.50
29:D1:2834:G:C2	29:D1:2835:U:C6	3.00	0.50
29:D1:1695:U:O2'	29:D1:1749:A:N6	2.43	0.50
29:B1:2603:G:H2'	29:B1:2604:U:O4'	2.12	0.50
29:D1:2879:C:C5	29:D1:2880:U:C4	3.00	0.50
29:B1:1358:C:H2'	29:B1:1359:C:C6	2.45	0.50
46:BQ:128:ARG:HA	46:BQ:137:ASN:O	2.12	0.50
29:B1:2545:C:C2	29:B1:2546:C:C6	2.99	0.50
11:CJ:54:LEU:O	11:CJ:56:GLY:N	2.44	0.50
1:A1:809:A:C2	1:A1:810:G:C2	2.99	0.50
29:D1:790:U:N3	29:D1:791:A:N7	2.59	0.50
1:C1:734:A:C6	1:C1:735:C:N3	2.79	0.50
29:D1:667:C:H2'	29:D1:667:C:O2	2.12	0.50
45:DP:94:ARG:O	45:DP:97:ALA:HB3	2.11	0.50
29:B1:178:U:H1'	29:B1:241:G:C6	2.46	0.50
44:DO:148:TYR:C	44:DO:150:TRP:H	2.14	0.50
33:DB:18:SER:O	33:DB:20:THR:N	2.42	0.50
32:DA:67:ILE:HA	32:DA:112:ALA:HB2	1.92	0.50
49:BT:63:VAL:O	49:BT:76:ILE:HA	2.11	0.50
29:B1:2209:U:H6	29:B1:2209:U:H3'	1.76	0.50
54:DY:74:ASN:C	54:DY:76:ASP:H	2.15	0.50
8:AG:70:LYS:O	8:AG:71:ILE:C	2.49	0.50
16:CO:114:GLU:HA	16:CO:117:ARG:CB	2.42	0.50
44:DO:96:ARG:O	44:DO:97:SER:CB	2.58	0.50
54:DY:42:ARG:O	54:DY:43:ILE:O	2.30	0.50
38:BG:148:VAL:O	38:BG:150:LYS:N	2.44	0.50
42:DK:30:LEU:O	42:DK:32:ARG:N	2.44	0.50
29:D1:2760:C:C4'	29:D1:2760:C:OP1	2.60	0.50
36:BE:82:GLU:C	36:BE:84:PRO:N	2.65	0.50
31:B3:136:G:OP1	52:BW:52:PRO:CB	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BN:55:ARG:O	43:BN:56:GLN:CB	2.59	0.50
14:CM:20:SER:C	14:CM:22:LEU:H	2.15	0.50
53:DX:91:ASN:O	53:DX:92:GLY:C	2.50	0.50
55:DZ:43:ILE:O	55:DZ:89:VAL:HA	2.11	0.50
1:C1:1788:G:H8	1:C1:1788:G:OP2	1.93	0.50
1:A1:502:U:H2'	1:A1:503:G:C8	2.46	0.50
10:CI:11:VAL:C	10:CI:13:LYS:H	2.14	0.50
53:BX:112:ASP:O	53:BX:114:ASP:N	2.45	0.50
1:A1:1131:A:H3'	1:A1:1132:A:C8	2.46	0.50
1:A1:572:C:N4	1:A1:573:C:N4	2.58	0.50
16:AO:75:ILE:O	16:AO:76:SER:O	2.30	0.50
29:B1:1112:A:H3'	29:B1:1113:G:H8	1.76	0.50
29:B1:1144:U:O2'	29:B1:1145:G:P	2.67	0.50
29:B1:1172:G:H2'	29:B1:1173:U:O5'	2.11	0.50
29:B1:1367:G:HO2'	29:B1:1368:U:P	2.35	0.50
29:B1:1658:G:C5	29:B1:1796:G:O6	2.64	0.50
29:B1:186:U:C5'	29:B1:187:A:OP2	2.53	0.50
29:B1:2749:G:C5	29:B1:2750:U:C4	2.99	0.50
29:B1:2804:A:O2'	29:B1:2805:G:O4'	2.27	0.50
29:B1:2827:U:C2'	29:B1:2827:U:O2	2.60	0.50
29:B1:281:G:O6	29:B1:282:G:O6	2.29	0.50
29:B1:2808:A:C8	29:B1:2955:U:H4'	2.46	0.50
29:B1:2980:U:C2	29:B1:2981:U:C5	3.00	0.50
29:B1:3152:U:H5'	29:B1:3294:A:H4'	1.92	0.50
29:B1:1886:A:O4'	29:B1:3307:A:H5'	2.11	0.50
29:B1:3393:U:H2'	29:B1:3394:U:C6	2.46	0.50
29:B1:518:G:H5''	29:B1:518:G:C8	2.46	0.50
29:B1:55:G:O2'	29:B1:56:G:P	2.68	0.50
29:B1:513:G:C2	29:B1:577:C:N3	2.70	0.50
29:B1:5:G:N2	31:B3:155:A:C4	2.78	0.50
29:B1:655:C:H2'	29:B1:656:A:C8	2.46	0.50
29:B1:759:U:C2	29:B1:773:G:C2	3.00	0.50
29:B1:781:G:C6	29:B1:782:U:C5	2.99	0.50
31:B3:113:U:O2	31:B3:114:G:C8	2.65	0.50
31:B3:3:A:H2'	31:B3:4:C:C5'	2.41	0.50
29:B1:416:A:N6	31:B3:7:U:H3	2.08	0.50
44:BO:49:ARG:HA	44:BO:53:TYR:H	1.76	0.50
54:BY:28:HIS:C	54:BY:30:GLY:N	2.65	0.50
1:C1:105:A:N1	74:C1:1916:OHX:N6	2.59	0.50
1:C1:1757:G:C6	1:C1:1758:U:C5	2.99	0.50
1:C1:1139:A:OP2	74:C1:1953:OHX:N1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:197:A:HO2'	1:C1:198:A:H8	1.58	0.50
1:C1:381:C:H2'	1:C1:381:C:O2	2.12	0.50
1:C1:50:C:H2'	1:C1:424:C:H41	1.77	0.50
1:C1:544:A:H8	1:C1:544:A:OP2	1.94	0.50
1:C1:623:A:HO2'	1:C1:624:G:H5''	1.75	0.50
1:C1:635:A:C5	1:C1:863:A:C8	3.00	0.50
1:C1:758:U:H3'	1:C1:759:U:C6	2.46	0.50
1:C1:871:G:C2'	1:C1:872:G:H8	2.25	0.50
29:D1:1148:G:O2'	29:D1:1171:G:O4'	2.29	0.50
29:D1:1177:G:O5'	29:D1:1177:G:C8	2.65	0.50
29:D1:1379:G:H2'	29:D1:1379:G:N3	2.27	0.50
29:D1:1847:A:C2	29:D1:1849:C:C6	2.99	0.50
29:D1:2143:A:N7	29:D1:2145:A:C6	2.80	0.50
29:D1:2278:C:N3	29:D1:2307:G:C2	2.79	0.50
29:D1:2352:A:C6	29:D1:2353:G:C6	3.00	0.50
29:D1:2356:A:C2	29:D1:2357:A:N9	2.79	0.50
29:D1:2425:G:H2'	29:D1:2426:U:C6	2.45	0.50
29:D1:2696:A:N7	29:D1:2697:A:C6	2.80	0.50
29:D1:2805:G:H2'	29:D1:2806:U:C6	2.47	0.50
29:D1:939:U:O4'	29:D1:2814:G:H5'	2.11	0.50
29:D1:2864:A:C5	29:D1:2865:U:C5	2.99	0.50
29:D1:3065:G:C2'	29:D1:3066:U:O5'	2.59	0.50
29:D1:3101:G:C3'	29:D1:3102:G:H5''	2.42	0.50
29:D1:3305:A:H1'	29:D1:3311:C:O2	2.11	0.50
29:D1:3328:G:N1	29:D1:3375:A:N7	2.60	0.50
29:D1:3333:G:N1	29:D1:3370:A:C4'	2.70	0.50
29:D1:3372:A:C5	29:D1:3373:U:C4	2.99	0.50
29:D1:559:A:H2'	29:D1:560:G:H5''	1.93	0.50
29:D1:573:C:H2'	29:D1:574:U:H5'	1.93	0.50
29:D1:722:G:O2'	29:D1:723:U:P	2.70	0.50
29:D1:747:A:O5'	29:D1:747:A:C8	2.65	0.50
29:D1:40:A:N7	29:D1:937:G:C6	2.79	0.50
31:D3:79:A:H3'	31:D3:80:A:H8	1.75	0.50
37:DF:151:LYS:O	37:DF:152:THR:C	2.49	0.50
40:DI:69:ARG:C	40:DI:71:VAL:H	2.15	0.50
1:C1:828:U:C4	1:C1:829:A:N6	2.80	0.50
1:C1:748:U:H4'	16:CO:123:GLY:HA2	1.94	0.50
29:B1:2618:G:H21	29:B1:2618:G:P	2.35	0.50
29:B1:2627:C:OP2	29:B1:2627:C:H4'	2.11	0.50
29:B1:2762:A:H2'	29:B1:2763:U:C6	2.46	0.50
30:B2:65:G:H2'	30:B2:66:A:O5'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:208:U:H2'	1:A1:209:U:C6	2.46	0.50
1:A1:206:A:C4	1:A1:262:U:C4	2.99	0.50
30:D2:104:A:C4	30:D2:105:C:C6	2.99	0.50
1:C1:337:G:C8	1:C1:337:G:O5'	2.64	0.50
29:D1:2677:G:N2	29:D1:2679:A:O4'	2.44	0.50
1:C1:1250:U:C2	1:C1:1251:U:N3	2.79	0.50
1:C1:1256:A:OP2	1:C1:1257:U:H5'	2.11	0.50
1:C1:1466:G:H2'	1:C1:1467:C:H6	1.75	0.50
1:C1:1480:G:C2	1:C1:1528:U:C2	2.99	0.50
1:C1:1558:U:C6	1:C1:1558:U:C3'	2.95	0.50
1:C1:1571:C:H3'	1:C1:1572:G:C5'	2.41	0.50
1:A1:1242:A:C2	1:A1:1243:G:C2	2.99	0.50
1:A1:1557:U:H2'	1:A1:1558:U:H5'	1.92	0.50
1:C1:1056:U:H2'	1:C1:1056:U:O2	2.10	0.50
29:B1:380:U:H2'	29:B1:381:U:H6	1.73	0.50
29:B1:384:A:C8	29:B1:385:A:C8	2.99	0.50
29:B1:385:A:C2'	29:B1:386:A:O5'	2.60	0.50
29:D1:624:G:N2	29:D1:625:G:C8	2.79	0.50
29:B1:3191:G:C6	29:B1:3192:U:N3	2.79	0.50
29:B1:3199:G:H3'	29:B1:3200:G:C8	2.41	0.50
29:D1:3202:G:OP2	29:D1:3202:G:C3'	2.42	0.50
31:D3:28:C:C5'	31:D3:29:U:OP2	2.58	0.50
29:D1:221:A:C4	29:D1:224:C:C4	3.00	0.50
29:D1:232:G:C6	29:D1:233:C:C4	2.99	0.50
29:B1:1246:G:H1'	29:B1:1264:G:N7	2.27	0.50
29:D1:3175:U:O5'	29:D1:3175:U:O2	2.30	0.50
29:D1:3226:A:C2'	29:D1:3227:A:H5'	2.41	0.50
29:D1:3381:U:C4	29:D1:3383:G:C6	3.00	0.50
1:C1:883:C:C2'	1:C1:883:C:O2	2.59	0.50
30:D2:35:C:H2'	30:D2:36:C:O4'	2.10	0.50
29:D1:1232:C:C2	29:D1:1261:G:N1	2.79	0.50
29:D1:3348:G:C6	29:D1:3349:C:C2	3.00	0.50
1:C1:698:U:O2'	1:C1:699:U:C6	2.64	0.50
29:D1:3007:U:H2'	29:D1:3008:A:O4'	2.12	0.50
34:BC:81:THR:O	34:BC:83:PRO:N	2.44	0.50
34:BC:83:PRO:CB	34:BC:204:ALA:CB	2.88	0.50
1:A1:1308:G:C4	1:A1:1309:C:C5	3.00	0.50
29:D1:1081:U:H2'	29:D1:1082:U:OP1	2.10	0.50
29:B1:1715:A:N7	29:B1:1716:U:C6	2.79	0.50
29:B1:822:G:N2	29:B1:823:C:H1'	2.27	0.50
29:B1:331:G:O2'	29:B1:332:C:H5''	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1664:C:H5''	1:A1:1665:U:OP2	2.11	0.50
1:C1:1282:U:N3	1:C1:1283:U:C5	2.79	0.50
29:B1:3352:U:H2'	29:B1:3354:U:C4'	2.35	0.50
29:B1:2119:A:C5	29:B1:2120:A:H2	2.29	0.50
1:A1:772:G:C5	1:A1:773:C:N4	2.79	0.50
1:A1:791:A:C4	1:A1:792:U:C5	2.99	0.50
17:CP:131:SER:CB	17:CP:133:LEU:HA	2.42	0.50
1:C1:237:C:HO2'	1:C1:238:U:P	2.35	0.50
34:BC:60:LEU:C	34:BC:62:ARG:H	2.08	0.50
2:AA:11:PRO:O	2:AA:13:ASP:N	2.42	0.50
34:DC:157:VAL:O	34:DC:158:VAL:CB	2.58	0.50
1:A1:697:C:H3'	1:A1:698:U:H5'	1.93	0.50
17:AP:61:SER:CB	17:AP:67:ALA:H	2.24	0.50
29:D1:601:U:O2	29:D1:601:U:H2'	2.10	0.50
29:B1:1915:A:O2'	29:B1:1916:U:H5'	2.11	0.50
29:D1:1357:G:C6	29:D1:1358:C:C4	3.00	0.50
34:DC:87:VAL:C	34:DC:88:GLY:O	2.46	0.50
72:DL:41:LYS:CB	72:DL:70:ALA:HA	2.42	0.50
3:CB:210:THR:O	3:CB:211:LEU:C	2.49	0.50
1:A1:1622:G:C5	1:A1:1623:C:C5	3.00	0.50
9:CH:49:LYS:O	9:CH:51:ASP:N	2.45	0.50
13:AL:48:LYS:C	13:AL:50:ALA:N	2.65	0.50
10:AI:86:VAL:CB	10:AI:87:PRO:CA	2.90	0.50
45:DP:133:ARG:O	45:DP:134:LYS:CB	2.59	0.50
29:D1:1571:A:C5	29:D1:1572:U:H1'	2.45	0.50
52:DW:87:SER:O	52:DW:89:LYS:N	2.44	0.50
34:DC:272:TYR:O	34:DC:273:HIS:C	2.49	0.50
49:BT:35:LYS:C	49:BT:37:GLY:H	2.14	0.50
5:CD:212:LYS:O	5:CD:215:ASP:N	2.44	0.50
29:D1:2722:U:H2'	29:D1:2723:U:C6	2.46	0.50
74:B1:3576:OHX:N1	74:B1:3607:OHX:N4	2.60	0.50
55:BZ:50:VAL:O	55:BZ:53:LYS:CB	2.60	0.50
35:BD:175:HIS:O	35:BD:176:SER:C	2.49	0.50
21:AT:302:PHE:O	21:AT:303:ALA:HB2	2.12	0.50
48:BS:95:TRP:O	48:BS:96:ILE:C	2.49	0.50
1:A1:679:U:C4	1:A1:680:U:C4	2.99	0.50
35:BD:203:ARG:O	35:BD:204:GLY:O	2.29	0.50
1:A1:1001:A:N7	1:A1:1002:G:C5	2.80	0.50
1:A1:1297:G:N2	1:A1:1301:U:N1	2.60	0.50
1:A1:93:A:N7	1:A1:398:G:H2'	2.25	0.50
1:A1:492:A:N1	1:A1:496:G:C2	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1174:G:N3	29:B1:1175:C:C5	2.78	0.50
29:B1:1198:C:H6	29:B1:1198:C:OP2	1.95	0.50
29:B1:1317:A:C8	29:B1:1317:A:H5'	2.45	0.50
29:B1:1453:A:C1'	29:B1:1850:A:N1	2.75	0.50
29:B1:1609:C:O2'	29:B1:1610:G:P	2.69	0.50
29:B1:1658:G:N9	29:B1:1796:G:N7	2.60	0.50
29:B1:1678:G:H4'	29:B1:1756:C:H4'	1.92	0.50
29:B1:1878:G:C8	29:B1:1878:G:C3'	2.94	0.50
29:B1:1887:A:OP2	74:B1:3442:OHX:N1	2.45	0.50
29:B1:189:G:C6	29:B1:206:G:C5	2.99	0.50
29:B1:2133:U:H2'	29:B1:2134:G:O4'	2.11	0.50
29:B1:212:G:C6	29:B1:222:A:C5	2.99	0.50
29:B1:2311:G:O5'	29:B1:2311:G:H8	1.94	0.50
29:B1:2841:G:N1	29:B1:2844:C:N3	2.59	0.50
29:B1:3057:U:C2'	29:B1:3058:U:H4'	2.42	0.50
29:B1:3072:C:C5	29:B1:3073:A:C4	3.00	0.50
29:B1:3077:A:N6	29:B1:3080:G:C4	2.80	0.50
29:B1:3150:A:C3'	29:B1:3151:U:C5'	2.83	0.50
29:B1:3328:G:HO2'	29:B1:3329:U:C4'	2.25	0.50
29:B1:412:G:H2'	29:B1:413:U:C6	2.47	0.50
29:B1:413:U:N3	29:B1:414:U:C4	2.79	0.50
29:B1:532:A:C3'	29:B1:533:A:C8	2.92	0.50
29:B1:588:G:H4'	29:B1:589:A:C5	2.43	0.50
29:B1:588:G:N1	29:B1:612:U:C5	2.80	0.50
29:B1:28:C:O2'	29:B1:61:A:N3	2.44	0.50
29:B1:673:U:C2'	29:B1:674:G:C5'	2.87	0.50
29:B1:687:U:H2'	29:B1:688:G:O5'	2.12	0.50
29:B1:877:C:C3'	29:B1:877:C:C6	2.95	0.50
31:B3:40:A:O2'	31:B3:41:A:OP1	2.29	0.50
35:BD:6:VAL:CB	35:BD:20:LEU:N	2.75	0.50
35:BD:53:SER:O	35:BD:55:LYS:N	2.45	0.50
37:BF:151:LYS:O	37:BF:152:THR:C	2.48	0.50
44:BO:54:LYS:O	44:BO:56:LYS:N	2.45	0.50
1:C1:104:A:C5'	1:C1:105:A:OP2	2.57	0.50
1:C1:1073:G:O6	1:C1:1074:G:O6	2.28	0.50
1:C1:1097:U:H2'	1:C1:1098:U:H5'	1.89	0.50
1:C1:1150:G:O4'	1:C1:1765:A:O2'	2.21	0.50
1:C1:1153:G:C8	1:C1:1153:G:OP2	2.60	0.50
1:C1:141:U:O4'	1:C1:141:U:O2	2.30	0.50
1:C1:20:G:C3'	1:C1:21:U:H5'	2.41	0.50
1:C1:357:G:C6	1:C1:358:U:C4	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:603:U:H2'	1:C1:604:A:C8	2.46	0.50
3:CB:160:GLY:O	3:CB:161:LYS:CB	2.59	0.50
29:D1:1312:C:H5'	29:D1:1313:G:OP2	2.10	0.50
29:D1:1556:C:N3	29:D1:2169:G:N7	2.60	0.50
29:D1:1794:G:C6	33:DB:185:ALA:HB1	2.45	0.50
29:D1:2370:G:C5	29:D1:2371:G:C8	3.00	0.50
29:D1:2383:C:C4	29:D1:2384:A:C5	2.99	0.50
29:D1:2614:G:C6	29:D1:2615:G:C5	2.99	0.50
29:D1:2847:A:H3'	29:D1:2848:G:C8	2.33	0.50
29:D1:2931:C:C2'	29:D1:2932:U:H5'	2.42	0.50
29:D1:3078:U:C4'	29:D1:3079:U:O5'	2.50	0.50
29:D1:3133:C:C2'	29:D1:3134:A:O5'	2.60	0.50
29:D1:891:G:OP1	74:D1:3428:OHX:N2	2.45	0.50
29:D1:359:U:H1'	29:D1:817:A:N1	2.27	0.50
29:D1:424:G:H3'	29:D1:424:G:C8	2.46	0.50
29:D1:523:A:C5	29:D1:524:U:C6	3.00	0.50
29:D1:564:G:C2'	29:D1:565:U:C6	2.94	0.50
29:D1:694:C:H5''	29:D1:695:C:OP2	2.11	0.50
29:D1:817:A:H4'	29:D1:818:C:OP2	2.11	0.50
31:D3:149:A:H2'	31:D3:150:G:C8	2.46	0.50
31:D3:25:G:C6	31:D3:26:U:C4	3.00	0.50
1:C1:837:G:O6	74:C1:1928:OHX:N5	2.45	0.50
1:C1:838:G:C2	1:C1:839:U:C6	3.00	0.50
1:A1:684:A:H5'	1:A1:685:A:OP2	2.12	0.50
29:B1:993:G:C6	29:B1:2637:A:C6	3.00	0.50
31:B3:60:U:C4	31:B3:98:U:H4'	2.46	0.50
1:A1:150:U:H4'	1:A1:151:G:OP2	2.11	0.50
1:A1:169:A:C4	1:A1:171:A:C5	3.00	0.50
1:A1:89:G:N3	1:A1:90:C:C6	2.80	0.50
30:D2:111:U:O3'	30:D2:112:G:H4'	2.11	0.50
30:D2:75:G:OP2	74:D2:201:OHX:N4	2.45	0.50
1:C1:1686:C:C4	1:C1:1687:U:C4	3.00	0.50
29:B1:2674:A:OP1	42:BK:106:ILE:O	2.29	0.50
1:A1:340:U:C3'	1:A1:341:A:H8	2.22	0.50
1:C1:1499:G:H2'	1:C1:1500:C:C6	2.44	0.50
1:C1:1483:A:C1'	1:C1:1524:A:H62	2.22	0.50
1:A1:1241:G:O3'	1:A1:1242:A:C8	2.62	0.50
1:A1:1491:U:H5''	1:A1:1492:A:H5''	1.94	0.50
1:A1:1612:U:C3'	1:A1:1613:U:H5''	2.42	0.50
11:AJ:83:GLN:O	11:AJ:84:ALA:C	2.49	0.50
29:B1:437:G:C6	29:B1:438:A:N1	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3209:A:C4	29:D1:3210:A:C5	2.99	0.50
29:B1:3284:G:H2'	29:B1:3285:C:C6	2.47	0.50
29:B1:2754:G:C3'	29:B1:2755:C:C5'	2.73	0.50
29:B1:3184:A:C5'	29:B1:3184:A:H8	2.16	0.50
29:D1:3203:U:H2'	29:D1:3204:C:C5	2.46	0.50
29:B1:2520:A:C5	29:B1:2521:U:O4	2.64	0.50
29:B1:2522:G:C6	29:B1:2587:U:C5	2.99	0.50
1:C1:413:U:O2'	1:C1:414:C:H5'	2.11	0.50
1:A1:638:U:H3'	1:A1:639:U:C5'	2.34	0.50
29:B1:2213:A:C2'	29:B1:2214:A:C8	2.81	0.50
9:CH:6:GLN:O	9:CH:7:ALA:HB3	2.11	0.50
9:CH:17:ALA:N	9:CH:80:HIS:O	2.40	0.50
4:AC:14:ASP:O	4:AC:16:VAL:O	2.30	0.50
31:B3:24:G:H2'	31:B3:25:G:O5'	2.12	0.50
1:A1:1282:U:C2	1:A1:1283:U:C6	3.00	0.50
29:B1:1097:G:OP1	29:B1:1098:A:OP1	2.30	0.50
29:D1:2513:U:HO2'	29:D1:2514:U:P	2.33	0.50
29:D1:2105:G:C4	29:D1:2106:A:C8	2.99	0.50
36:DE:141:PRO:HA	36:DE:143:LYS:H	1.76	0.50
30:B2:2:G:C2	30:B2:3:U:C6	2.99	0.50
29:B1:25:U:C4	29:B1:331:G:C8	3.00	0.50
1:A1:891:A:C6	1:A1:922:G:O6	2.64	0.50
1:C1:1284:C:O2	1:C1:1286:U:N3	2.45	0.50
29:B1:3348:G:C6	29:B1:3349:C:O2	2.65	0.50
29:D1:1728:G:H5''	29:D1:1729:A:H3'	1.92	0.50
29:D1:2833:A:C2	29:D1:2834:G:C8	3.00	0.50
29:B1:1933:A:N7	29:B1:1934:G:C8	2.79	0.50
29:D1:858:A:H3'	29:D1:859:G:C8	2.46	0.50
41:DJ:59:GLN:HA	41:DJ:127:ALA:O	2.11	0.50
32:BA:155:ILE:HA	32:BA:156:LYS:C	2.32	0.50
29:B1:2128:C:N4	29:B1:2129:U:C4	2.80	0.50
34:BC:62:ARG:C	34:BC:64:GLY:N	2.64	0.50
1:C1:121:U:H5'	1:C1:121:U:H6	1.77	0.50
29:D1:1492:G:H3'	29:D1:1493:G:C2	2.47	0.50
1:C1:723:G:C5	1:C1:724:C:C4	2.99	0.50
13:AL:76:PRO:C	13:AL:78:HIS:H	2.14	0.50
29:B1:666:A:C6	29:B1:667:C:C4	3.00	0.50
29:B1:294:U:C2'	29:B1:295:A:H5''	2.42	0.50
29:B1:299:G:C6	29:B1:300:G:C5	2.99	0.50
29:D1:2177:G:O2'	29:D1:2178:A:P	2.70	0.50
14:CM:58:ALA:C	14:CM:60:SER:N	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2530:G:H8	29:D1:2530:G:OP2	1.94	0.50
29:D1:171:G:C2'	29:D1:172:G:O5'	2.59	0.50
47:BR:125:ASP:O	47:BR:128:ALA:HB3	2.11	0.50
7:CF:129:ARG:O	7:CF:130:PRO:C	2.49	0.50
74:A1:1929:OHX:N5	74:A1:1979:OHX:N4	2.60	0.50
10:AI:17:TYR:CB	10:AI:18:ARG:CA	2.90	0.50
7:AF:125:VAL:HA	7:AF:138:ASN:O	2.11	0.50
6:CE:54:ARG:O	6:CE:58:ASP:CB	2.59	0.50
45:BP:93:ALA:O	45:BP:94:ARG:C	2.48	0.50
6:CE:130:THR:O	6:CE:131:GLN:C	2.50	0.50
40:BI:85:GLY:O	40:BI:187:ILE:N	2.44	0.50
14:CM:17:ALA:C	14:CM:19:ALA:H	2.15	0.50
14:AM:20:SER:C	14:AM:22:LEU:H	2.14	0.50
1:A1:1422:A:O2'	1:A1:1423:U:H5'	2.11	0.50
29:B1:180:C:O2'	29:B1:181:U:H5'	2.11	0.50
53:BX:89:LYS:C	53:BX:91:ASN:H	2.14	0.50
34:DC:327:CYS:O	34:DC:328:ILE:C	2.50	0.50
4:CC:162:GLN:O	4:CC:165:ASN:C	2.50	0.50
55:DZ:76:GLU:C	55:DZ:78:GLY:N	2.64	0.50
15:AN:119:ALA:HB1	15:AN:120:SER:HA	1.94	0.50
29:D1:2400:G:C1'	29:D1:2401:A:OP1	2.60	0.50
40:BI:20:ILE:HA	40:BI:25:VAL:HA	1.94	0.50
1:A1:1075:C:N3	1:A1:1076:A:N1	2.60	0.50
1:A1:1673:G:O2'	1:A1:1674:C:H5'	2.12	0.50
1:A1:1790:A:C2'	1:A1:1791:A:H5''	2.41	0.50
1:A1:387:A:C2	1:A1:426:G:OP2	2.64	0.50
1:A1:814:A:N1	1:A1:858:G:C2	2.80	0.50
1:A1:964:U:H4'	1:A1:965:U:O5'	2.12	0.50
1:A1:974:A:C2	1:A1:975:C:C2	3.00	0.50
29:B1:1119:C:N3	29:B1:1120:A:N7	2.59	0.50
29:B1:1303:A:C8	29:B1:1304:A:N1	2.80	0.50
29:B1:1393:A:C2'	29:B1:1394:A:H5''	2.42	0.50
29:B1:1444:G:H8	29:B1:1444:G:O5'	1.94	0.50
29:B1:1674:G:C6	29:B1:1675:G:C5	3.00	0.50
29:B1:1771:C:C4	29:B1:1772:U:C5	2.99	0.50
29:B1:1779:C:O4'	29:B1:1779:C:P	2.68	0.50
29:B1:1779:C:OP2	29:B1:1780:G:C8	2.65	0.50
29:B1:196:G:N1	29:B1:199:A:OP2	2.45	0.50
29:B1:2149:A:H62	29:B1:2187:G:N2	2.09	0.50
29:B1:221:A:C4	29:B1:224:C:C4	2.99	0.50
29:B1:2308:C:OP1	29:B1:2309:A:H2'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2717:U:H6	29:B1:2717:U:C5'	2.25	0.50
29:B1:279:U:O2	29:B1:286:U:N3	2.44	0.50
29:B1:2833:A:C2'	29:B1:2834:G:H5'	2.34	0.50
29:B1:2836:C:C5	29:B1:2853:A:C2	2.99	0.50
29:B1:2922:G:H2'	29:B1:2923:U:O4'	2.12	0.50
29:B1:2876:C:C1'	29:B1:2952:G:N2	2.75	0.50
29:B1:3327:G:C6	29:B1:3328:G:C5	3.00	0.50
29:B1:3333:G:H1	29:B1:3370:A:C1'	2.25	0.50
29:B1:34:A:H2'	29:B1:35:A:C1'	2.42	0.50
29:B1:727:G:C8	29:B1:743:C:N4	2.80	0.50
29:B1:926:A:H2'	29:B1:927:C:C6	2.47	0.50
29:B1:3317:U:N3	34:BC:123:TYR:HA	2.23	0.50
29:B1:577:C:O2	37:BF:149:ILE:HA	2.11	0.50
37:BF:156:LYS:O	37:BF:160:SER:N	2.44	0.50
38:BG:51:TYR:C	38:BG:53:LYS:N	2.64	0.50
1:C1:143:G:N2	1:C1:144:U:O2	2.45	0.50
1:C1:23:G:C6	1:C1:24:U:C4	3.00	0.50
1:C1:287:G:O6	1:C1:288:A:N6	2.44	0.50
1:C1:407:A:C6	1:C1:408:C:C4	2.99	0.50
1:C1:78:A:OP1	1:C1:78:A:H2	1.95	0.50
1:C1:991:G:N2	1:C1:1014:G:O6	2.45	0.50
29:D1:1105:A:C2	29:D1:1106:G:C4	3.00	0.50
29:D1:1153:A:C8	29:D1:1154:A:C5	3.00	0.50
29:D1:1202:A:C2'	29:D1:1203:A:OP2	2.58	0.50
29:D1:1188:U:H3	29:D1:1317:A:H62	1.60	0.50
29:D1:1317:A:N7	29:D1:1319:G:C5	2.79	0.50
29:D1:120:G:N2	29:D1:150:A:C8	2.79	0.50
29:D1:1502:C:C4	29:D1:1515:A:C2	3.00	0.50
29:D1:1498:A:H5'	29:D1:1602:A:H1'	1.92	0.50
29:D1:1656:A:C2	29:D1:1798:A:OP2	2.64	0.50
29:D1:2254:U:OP2	29:D1:2254:U:C5	2.64	0.50
29:D1:2279:A:C2	29:D1:2283:G:C2	2.99	0.50
29:D1:2333:C:H5''	29:D1:2334:U:OP2	2.12	0.50
29:D1:2743:A:C3'	29:D1:2744:U:C6	2.91	0.50
29:D1:2761:G:H4'	29:D1:2762:A:OP1	2.12	0.50
29:D1:43:A:C6	29:D1:2802:A:C2	2.97	0.50
29:D1:2804:A:C2	29:D1:2805:G:C8	3.00	0.50
29:D1:2814:G:H2'	29:D1:2815:G:C8	2.47	0.50
29:D1:3102:G:O2'	29:D1:3103:A:P	2.69	0.50
29:D1:324:A:H5''	29:D1:325:A:OP2	2.11	0.50
29:D1:3322:A:C6	29:D1:3323:A:N6	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3328:G:O2'	29:D1:3329:U:C4'	2.59	0.50
29:D1:561:C:H2'	29:D1:562:C:C6	2.47	0.50
29:D1:712:G:H2'	29:D1:713:U:H6	1.77	0.50
29:D1:99:A:H1'	29:D1:281:G:C6	2.47	0.50
31:D3:40:A:N6	31:D3:104:A:C4	2.80	0.50
34:DC:132:LYS:C	34:DC:134:SER:N	2.65	0.50
1:A1:700:C:H42	1:A1:738:G:H1	1.60	0.50
30:B2:64:A:H1'	30:B2:65:G:O5'	2.10	0.50
31:B3:69:U:C4	31:B3:70:G:C8	3.00	0.50
1:A1:209:U:N3	1:A1:210:A:N7	2.60	0.50
1:A1:213:A:N6	1:A1:214:G:C2	2.80	0.50
1:A1:329:G:C2	1:A1:330:G:C5	3.00	0.50
1:A1:331:A:H5''	1:A1:332:U:OP2	2.11	0.50
1:C1:1192:C:H5''	11:CJ:142:TYR:CB	2.42	0.50
1:C1:1268:G:H1'	1:C1:1448:G:H5''	1.92	0.50
1:C1:1583:A:O2'	1:C1:1584:G:C5'	2.55	0.50
1:C1:1597:A:C5	1:C1:1598:U:C4	2.99	0.50
1:A1:1250:U:C2	1:A1:1251:U:C4	2.99	0.50
1:A1:1565:C:H5''	1:A1:1566:U:OP2	2.12	0.50
30:B2:91:G:O6	30:B2:92:A:N6	2.44	0.50
46:BQ:10:ASN:N	46:BQ:12:ALA:H	2.10	0.50
29:B1:3217:C:C5'	29:B1:3276:G:H22	2.24	0.50
43:BN:95:ALA:C	43:BN:97:SER:H	2.15	0.50
29:D1:3203:U:H2'	29:D1:3204:C:C2	2.47	0.50
29:B1:3019:U:H2'	29:B1:3019:U:O2	2.12	0.50
29:D1:3225:C:C5	74:D1:3489:OHX:N6	2.80	0.50
29:B1:2768:U:H2'	29:B1:2769:A:C8	2.44	0.50
29:D1:2522:G:H1'	29:D1:2523:A:OP2	2.11	0.50
29:B1:333:G:H2'	29:B1:334:A:C8	2.46	0.50
29:B1:342:A:C2	29:B1:349:A:N7	2.80	0.50
29:B1:368:G:C6	29:B1:369:A:N7	2.79	0.50
29:D1:3314:A:H5''	34:DC:118:PHE:C	2.32	0.50
1:C1:1391:A:N3	1:C1:1392:U:C5	2.80	0.50
1:C1:698:U:H3	1:C1:740:A:N6	2.09	0.50
29:B1:1076:C:N3	29:B1:1077:U:O4	2.45	0.50
39:BH:185:ARG:C	39:BH:187:GLY:N	2.63	0.50
29:B1:1729:A:OP2	55:BZ:27:TYR:CB	2.60	0.50
36:BE:281:GLU:O	36:BE:282:ARG:C	2.49	0.50
29:D1:2582:C:C5'	29:D1:2583:C:OP2	2.57	0.50
29:D1:1730:G:O6	55:DZ:29:SER:N	2.44	0.50
29:B1:1336:U:H2'	29:B1:1337:A:H8	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:835:G:N3	29:D1:857:G:C2	2.80	0.50
29:B1:3271:G:C3'	29:B1:3271:G:C4	2.93	0.50
29:D1:2603:G:H2'	29:D1:2604:U:O4'	2.12	0.50
29:D1:365:A:C2	29:D1:366:A:N3	2.79	0.50
1:C1:789:A:C5	1:C1:790:U:C5	2.99	0.50
1:A1:1693:A:H61	1:A1:1708:U:H3	1.59	0.50
29:B1:1644:C:N4	74:B1:3505:OHX:N4	2.60	0.50
29:D1:2664:C:H2'	29:D1:2664:C:O2	2.12	0.50
29:B1:2487:U:H4'	29:B1:2488:A:OP2	2.08	0.50
29:D1:2572:C:C4	29:D1:2573:G:C6	2.99	0.50
74:D1:3471:OHX:N3	74:D1:3607:OHX:N3	2.60	0.50
34:BC:76:VAL:HA	34:BC:325:LYS:CA	2.41	0.50
1:C1:1359:C:H3'	1:C1:1360:A:C8	2.46	0.50
48:BS:127:SER:C	48:BS:129:GLY:N	2.64	0.50
29:D1:246:U:OP2	29:D1:247:C:H5''	2.12	0.50
32:DA:53:LEU:CB	32:DA:54:LYS:HA	2.42	0.50
1:A1:575:C:C5'	1:A1:576:G:OP2	2.59	0.50
29:D1:1700:G:O2'	29:D1:1701:C:H5'	2.12	0.50
1:C1:1287:A:C2	1:C1:1288:G:H1'	2.46	0.50
15:CN:32:LYS:C	15:CN:34:LEU:H	2.13	0.50
38:DG:145:ARG:O	38:DG:146:GLN:C	2.50	0.50
38:DG:148:VAL:O	38:DG:152:GLY:N	2.45	0.50
38:DG:193:PRO:C	38:DG:195:PHE:N	2.63	0.50
50:DU:121:GLU:C	50:DU:123:ALA:N	2.59	0.50
46:BQ:108:ASP:O	46:BQ:110:THR:N	2.45	0.50
55:DZ:32:LYS:O	55:DZ:33:SER:C	2.48	0.50
34:BC:29:VAL:O	34:BC:31:ALA:N	2.45	0.50
2:AA:210:VAL:O	2:AA:212:GLN:N	2.45	0.50
15:AN:31:VAL:O	15:AN:35:GLU:N	2.44	0.50
49:DT:103:GLN:O	49:DT:106:LEU:N	2.44	0.50
49:BT:98:HIS:O	49:BT:99:SER:CB	2.59	0.50
53:BX:49:PRO:O	53:BX:50:ILE:C	2.50	0.50
29:D1:1575:A:H2'	29:D1:1576:G:O4'	2.11	0.50
4:AC:162:GLN:O	4:AC:165:ASN:C	2.50	0.50
1:A1:106:U:C5	1:A1:107:C:C4	3.00	0.50
1:A1:1075:C:O2'	1:A1:1076:A:H5'	2.11	0.50
1:A1:1138:A:N1	1:A1:1139:A:C6	2.80	0.50
1:A1:1146:G:H2'	1:A1:1147:A:O5'	2.12	0.50
1:A1:1654:G:N2	1:A1:1745:G:C4	2.79	0.50
1:A1:20:G:H4'	1:A1:571:G:N1	2.26	0.50
1:A1:439:U:C4	1:A1:465:G:C2	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:542:A:H2'	1:A1:544:A:H5''	1.93	0.50
1:A1:586:G:C5	1:A1:587:C:C4	2.99	0.50
1:A1:756:A:H2'	1:A1:757:A:H8	1.76	0.50
1:A1:758:U:H3'	1:A1:759:U:H6	1.76	0.50
1:A1:993:A:C2'	1:A1:994:G:H5'	2.42	0.50
29:B1:1161:G:C6	29:B1:1162:U:C4	3.00	0.50
29:B1:1209:G:H2'	29:B1:1210:U:O4'	2.12	0.50
29:B1:1317:A:N7	29:B1:1319:G:C5	2.80	0.50
29:B1:1441:G:C3'	29:B1:1442:U:H5''	2.36	0.50
29:B1:121:A:H4'	29:B1:150:A:N3	2.27	0.50
29:B1:1903:U:C2	29:B1:1905:G:C5'	2.93	0.50
29:B1:212:G:C5	29:B1:222:A:N7	2.80	0.50
29:B1:636:C:C6	29:B1:2378:C:O4'	2.65	0.50
29:B1:2773:C:O2'	29:B1:2774:C:H5'	2.11	0.50
29:B1:282:G:N3	29:B1:286:U:H5'	2.27	0.50
29:B1:3003:G:C2	29:B1:3004:C:C4	2.99	0.50
29:B1:3333:G:N3	29:B1:3371:G:N9	2.60	0.50
29:B1:3333:G:N2	29:B1:3370:A:O3'	2.40	0.50
74:B1:3492:OHX:N1	54:BY:20:GLY:N	2.60	0.50
29:B1:359:U:H2'	29:B1:360:G:O4'	2.12	0.50
29:B1:396:A:O2'	29:B1:397:A:P	2.69	0.50
29:B1:398:A:N3	29:B1:1416:C:OP1	2.45	0.50
29:B1:596:C:H5	29:B1:609:G:H5'	1.76	0.50
29:B1:597:G:N3	29:B1:598:A:H1'	2.26	0.50
29:B1:606:C:C4	29:B1:607:A:C5	3.00	0.50
29:B1:63:A:H2'	29:B1:64:G:H8	1.71	0.50
29:B1:703:G:C6	29:B1:704:U:C4	2.99	0.50
29:B1:710:A:O2'	29:B1:711:A:C5'	2.60	0.50
31:B3:116:G:C2	31:B3:117:C:C6	3.00	0.50
44:BO:83:LYS:H	44:BO:85:THR:CA	2.24	0.50
1:C1:756:A:C6	1:C1:757:A:C5	3.00	0.50
1:C1:871:G:O2'	1:C1:872:G:O4'	2.30	0.50
29:D1:1127:G:H22	29:D1:1132:C:N4	2.10	0.50
29:D1:1145:G:N7	29:D1:1146:C:C5	2.80	0.50
29:D1:1198:C:OP2	29:D1:1200:A:N7	2.44	0.50
29:D1:1471:U:O4'	48:DS:3:ASN:HA	2.12	0.50
29:D1:121:A:H4'	29:D1:150:A:N3	2.26	0.50
29:D1:1583:A:H2'	29:D1:1584:U:O4'	2.12	0.50
29:D1:161:G:H2'	29:D1:162:G:C8	2.45	0.50
29:D1:1662:G:C4	29:D1:1663:C:C5	2.99	0.50
29:D1:1878:G:H3'	29:D1:1879:A:H5'	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1942:U:H1'	29:D1:3342:A:C2	2.47	0.50
29:D1:2133:U:C2'	29:D1:2134:G:H5'	2.41	0.50
29:D1:2152:A:O4'	29:D1:2243:A:C2	2.64	0.50
29:D1:2369:G:C6	29:D1:2370:G:C6	3.00	0.50
29:D1:2414:G:HO2'	29:D1:2415:C:P	2.35	0.50
29:D1:268:A:O2'	29:D1:269:G:OP2	2.26	0.50
29:D1:2804:A:O2'	29:D1:2805:G:O4'	2.26	0.50
29:D1:2812:C:C2	29:D1:2813:A:N7	2.80	0.50
29:D1:2841:G:C5	29:D1:2844:C:N4	2.80	0.50
29:D1:3034:C:H6	29:D1:3034:C:H3'	1.75	0.50
29:D1:3121:U:H4'	29:D1:3122:A:C5'	2.41	0.50
29:D1:536:U:P	29:D1:536:U:C6	2.93	0.50
29:D1:638:C:H2'	29:D1:639:G:C8	2.46	0.50
31:D3:148:G:O2'	31:D3:149:A:P	2.70	0.50
46:DQ:125:GLN:CB	46:DQ:141:SER:H	2.25	0.50
1:C1:837:G:H2'	1:C1:838:G:H8	1.75	0.50
1:C1:644:C:N4	1:C1:691:C:N4	2.58	0.50
1:A1:647:G:C6	1:A1:687:G:N1	2.80	0.50
29:B1:2616:C:H2'	29:B1:2617:U:C5'	2.31	0.50
29:B1:2630:C:C2	29:B1:2631:U:C5	3.00	0.50
30:B2:66:A:P	30:B2:66:A:H3'	2.51	0.50
30:B2:98:C:H3'	30:B2:99:G:C5'	2.38	0.50
31:B3:65:A:O2'	31:B3:66:A:H5'	2.12	0.50
31:B3:80:A:H2'	31:B3:81:U:N3	2.27	0.50
1:A1:269:G:C6	1:A1:270:C:N4	2.79	0.50
30:D2:111:U:O2'	30:D2:112:G:OP1	2.29	0.50
30:D2:66:A:H3'	30:D2:66:A:P	2.52	0.50
30:D2:12:U:C2	30:D2:70:U:P	3.05	0.50
29:D1:2676:A:H2'	29:D1:2677:G:OP1	2.11	0.50
29:B1:2677:G:C2'	29:B1:2678:A:O5'	2.60	0.50
1:A1:335:U:H5'	1:A1:336:G:OP2	2.11	0.50
1:C1:1164:G:H2'	1:C1:1165:G:C8	2.47	0.50
1:C1:1431:C:C5'	1:C1:1432:U:H5'	2.42	0.50
1:C1:1267:G:H21	1:C1:1448:G:H5''	1.74	0.50
1:C1:1591:C:O2	1:C1:1591:C:C2'	2.56	0.50
1:A1:1232:U:C2'	1:A1:1233:G:H5'	2.42	0.50
1:A1:1431:C:C5'	1:A1:1432:U:H5'	2.42	0.50
1:A1:1432:U:OP2	1:A1:1432:U:H4'	2.12	0.50
1:A1:1558:U:C6	1:A1:1558:U:C3'	2.95	0.50
1:A1:1558:U:N1	1:A1:1559:A:H2	2.09	0.50
1:A1:1592:A:HO2'	1:A1:1593:A:H5'	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1598:U:C4	1:A1:1599:C:H5	2.29	0.50
29:B1:1196:C:C5	29:B1:1197:A:N6	2.43	0.50
29:B1:3196:U:C6	29:B1:3197:G:N2	2.80	0.50
29:D1:221:A:C4	29:D1:224:C:C5	3.00	0.50
29:B1:1237:G:C8	29:B1:1238:C:H1'	2.47	0.50
1:C1:948:G:H2'	1:C1:949:C:H6	1.76	0.50
1:C1:157:A:C2'	1:C1:158:U:H5'	2.40	0.50
29:D1:1258:U:O2	29:D1:1258:U:C2'	2.58	0.50
29:B1:2514:U:HO2'	29:B1:2515:A:H8	1.60	0.50
4:CC:94:ARG:O	4:CC:95:GLY:C	2.50	0.50
21:CT:9:LEU:HA	21:CT:313:TRP:CA	2.25	0.50
29:B1:333:G:H2'	29:B1:334:A:H8	1.76	0.50
29:B1:847:A:C2'	29:B1:848:A:H8	2.22	0.50
1:C1:1389:C:N4	1:C1:1391:A:H1'	2.27	0.50
1:C1:1392:U:O2'	1:C1:1393:C:H5'	2.12	0.50
29:D1:2092:A:OP2	29:D1:2093:A:H8	1.95	0.50
29:D1:1079:A:H8	29:D1:1079:A:OP1	1.94	0.50
29:D1:1678:G:C4	29:D1:1679:A:C8	3.00	0.50
1:C1:1039:A:O2'	1:C1:1040:G:O5'	2.29	0.50
29:D1:2736:A:O3'	49:DT:72:VAL:CB	2.60	0.50
1:A1:1660:A:C5	1:A1:1661:U:C5	3.00	0.50
29:B1:2541:U:O2	29:B1:2541:U:C2'	2.58	0.50
5:CD:196:GLU:O	5:CD:197:GLU:CB	2.59	0.50
29:D1:2890:A:C6	29:D1:2891:U:C4	3.00	0.50
54:DY:138:ILE:C	54:DY:143:GLY:HA3	2.32	0.50
45:BP:53:LYS:O	45:BP:56:ASP:N	2.30	0.50
46:DQ:28:ASN:C	46:DQ:30:ARG:H	2.15	0.50
21:AT:181:TRP:CB	21:AT:188:ILE:HA	2.42	0.50
29:B1:665:A:N6	29:B1:666:A:N6	2.60	0.50
29:B1:1725:C:C2	29:B1:1726:C:C5	3.00	0.50
29:D1:2469:G:H2'	29:D1:2470:C:C5	2.47	0.50
74:D1:3442:OHX:N5	74:D1:3592:OHX:N5	2.59	0.50
29:B1:733:G:HO2'	29:B1:734:C:H5	1.58	0.50
46:DQ:47:TYR:O	46:DQ:50:GLN:N	2.45	0.50
1:C1:738:G:C2	1:C1:739:G:C5	3.00	0.50
42:DK:139:THR:C	42:DK:141:ARG:N	2.63	0.50
74:A1:1929:OHX:N3	74:A1:1979:OHX:N6	2.59	0.50
1:A1:766:U:C5	1:A1:769:A:OP2	2.64	0.50
1:C1:905:A:C2	1:C1:906:A:H1'	2.47	0.50
29:B1:1386:A:C8	35:BD:180:LYS:HA	2.46	0.50
1:A1:906:A:OP2	9:AH:50:ALA:C	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CI:73:PRO:O	10:CI:74:ALA:CB	2.59	0.50
29:D1:2787:G:C4	29:D1:2788:C:C5	3.00	0.50
29:B1:1699:A:H2'	29:B1:1700:G:H8	1.75	0.50
29:B1:1571:A:C5	29:B1:1572:U:H1'	2.46	0.50
49:DT:115:LYS:C	49:DT:117:ALA:H	2.13	0.50
35:BD:253:ALA:O	35:BD:254:ALA:O	2.29	0.50
14:AM:17:ALA:C	14:AM:19:ALA:N	2.63	0.50
29:D1:2719:U:C5	29:D1:2720:G:C5	3.00	0.50
39:BH:105:LYS:N	39:BH:108:ARG:CB	2.74	0.50
12:AK:27:ASP:C	12:AK:29:GLN:H	2.15	0.50
48:DS:37:SER:O	48:DS:39:ASN:N	2.45	0.50
29:D1:633:C:H2'	29:D1:634:C:O4'	2.12	0.50
1:C1:430:G:O2'	1:C1:431:C:H5'	2.12	0.50
52:DW:105:VAL:O	52:DW:106:ASP:CB	2.59	0.50
34:DC:95:THR:CB	34:DC:97:ARG:H	2.25	0.50
12:CK:42:GLN:CB	12:CK:47:ARG:HA	2.42	0.50
36:BE:179:ARG:O	36:BE:180:PHE:C	2.47	0.50
21:AT:138:GLY:O	21:AT:139:GLN:C	2.50	0.50
45:BP:37:ARG:O	45:BP:39:GLU:N	2.45	0.50
41:DJ:121:LYS:O	41:DJ:122:PRO:C	2.50	0.50
29:D1:1936:A:C6	29:D1:1937:U:C4	3.00	0.50
1:A1:1050:G:N3	1:A1:1051:G:H1'	2.26	0.50
1:A1:11:A:H2'	1:A1:12:U:O4'	2.12	0.50
1:A1:619:A:P	1:A1:620:A:OP2	2.70	0.50
1:A1:812:A:C5	1:A1:858:G:N7	2.80	0.50
29:B1:1204:A:H5''	29:B1:1205:A:OP2	2.11	0.50
29:B1:1205:A:C6	29:B1:1206:G:C5	2.99	0.50
29:B1:1609:C:H6	29:B1:1609:C:OP2	1.95	0.50
29:B1:220:G:H8	29:B1:220:G:H5''	1.76	0.50
29:B1:90:C:OP1	29:B1:283:G:H1'	2.11	0.50
29:B1:2847:A:N3	29:B1:2848:G:C8	2.80	0.50
29:B1:2864:A:C6	29:B1:2865:U:C4	2.99	0.50
29:B1:2847:A:H62	29:B1:2898:G:N2	2.09	0.50
29:B1:2988:C:H2'	29:B1:2988:C:O2	2.11	0.50
29:B1:3046:A:C2'	29:B1:3047:U:H5'	2.42	0.50
29:B1:3086:A:H2'	29:B1:3087:A:C8	2.46	0.50
29:B1:3111:U:H2'	29:B1:3112:G:C5'	2.39	0.50
29:B1:3322:A:OP2	29:B1:3323:A:OP2	2.30	0.50
29:B1:3340:G:H2'	29:B1:3341:U:O5'	2.11	0.50
29:B1:565:U:OP2	29:B1:565:U:C5	2.65	0.50
29:B1:60:A:H2'	29:B1:61:A:C5'	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:656:A:H5'	29:B1:657:A:P	2.52	0.50
29:B1:681:U:O2	29:B1:682:U:C6	2.65	0.50
29:B1:784:A:H2'	29:B1:785:G:N7	2.25	0.50
31:B3:4:C:H2'	31:B3:5:U:H5'	1.94	0.50
33:BB:182:ALA:C	33:BB:185:ALA:H	2.15	0.50
1:C1:100:A:N1	1:C1:101:U:C4	2.80	0.50
1:C1:1109:G:N1	1:C1:1110:G:N7	2.59	0.50
1:C1:1137:A:C2	1:C1:1138:A:C5	2.99	0.50
1:C1:289:U:C2	1:C1:290:G:C8	3.00	0.50
1:C1:357:G:C4	1:C1:358:U:C6	2.98	0.50
1:C1:361:C:C4	1:C1:384:G:C2	2.99	0.50
1:C1:439:U:C1'	1:C1:440:U:OP1	2.58	0.50
1:C1:452:A:C2'	1:C1:453:U:C5'	2.81	0.50
1:C1:47:A:N1	1:C1:100:A:C5	2.80	0.50
1:C1:863:A:C4	1:C1:865:A:C8	3.00	0.50
1:C1:635:A:C4	1:C1:863:A:N7	2.80	0.50
1:C1:87:C:C2'	1:C1:87:C:O2	2.59	0.50
1:C1:89:G:C6	1:C1:90:C:C4	3.00	0.50
29:D1:1156:C:C3'	29:D1:1157:G:C5'	2.80	0.50
29:D1:1294:A:H8	29:D1:1294:A:C5'	2.17	0.50
29:D1:1313:G:C4	29:D1:1314:C:C6	3.00	0.50
29:D1:1587:A:C4	29:D1:1590:G:C5	3.00	0.50
29:D1:158:G:O6	29:D1:159:A:N3	2.44	0.50
29:D1:2196:C:C2	29:D1:2242:A:N6	2.80	0.50
29:D1:2278:C:O2'	29:D1:2279:A:H5''	2.12	0.50
29:D1:2390:A:H2'	29:D1:2391:G:O4'	2.11	0.50
29:D1:2666:C:O2	29:D1:2666:C:H2'	2.11	0.50
29:D1:294:U:O2'	29:D1:295:A:H5''	2.12	0.50
29:D1:2997:G:N3	29:D1:2997:G:O2'	2.45	0.50
29:D1:3034:C:C5	29:D1:3035:A:N7	2.80	0.50
29:D1:3045:G:C8	29:D1:3045:G:C3'	2.95	0.50
29:D1:3306:U:H2'	29:D1:3308:C:OP2	2.12	0.50
29:D1:3337:G:C6	29:D1:3338:C:C4	3.00	0.50
29:D1:380:U:H2'	29:D1:381:U:H6	1.76	0.50
29:D1:532:A:C2	29:D1:533:A:C4	3.00	0.50
29:D1:588:G:C4	29:D1:612:U:H5	2.29	0.50
29:D1:423:A:C6	29:D1:637:C:OP1	2.64	0.50
29:D1:66:A:N6	29:D1:68:C:C2	2.80	0.50
29:D1:760:G:N3	29:D1:760:G:C2'	2.73	0.50
29:D1:895:A:C2	29:D1:897:U:C5	3.00	0.50
31:D3:97:A:C6	31:D3:98:U:N3	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:845:G:N7	74:A1:1932:OHX:N5	2.59	0.50
1:C1:224:C:N3	1:C1:838:G:N2	2.60	0.50
1:C1:826:U:O2	1:C1:847:A:N1	2.45	0.50
1:C1:838:G:C6	1:C1:839:U:N3	2.80	0.50
1:C1:651:G:C5	74:C1:1970:OHX:N3	2.80	0.50
1:A1:648:G:N1	1:A1:649:U:C4	2.79	0.50
29:B1:2628:A:N9	29:B1:2798:C:N4	2.60	0.50
29:B1:2628:A:C4	29:B1:2798:C:N4	2.80	0.50
30:B2:82:G:C4	30:B2:99:G:C2	3.00	0.50
31:B3:49:G:C2'	31:B3:50:C:O5'	2.59	0.50
1:A1:172:C:C4	1:A1:173:A:C8	3.00	0.50
1:A1:190:C:H42	1:A1:192:U:H3	1.60	0.50
1:A1:287:G:H2'	1:A1:288:A:H5'	1.94	0.50
1:C1:108:A:C2'	1:C1:109:G:C8	2.92	0.50
1:C1:1722:A:C4'	1:C1:1722:A:OP1	2.58	0.50
29:B1:2673:A:C2	29:B1:2676:A:C8	3.00	0.50
1:C1:1494:C:H2'	1:C1:1495:C:H6	1.77	0.50
1:C1:1564:U:H2'	1:C1:1565:C:H6	1.69	0.50
1:C1:1348:A:H5''	15:CN:11:GLU:HA	1.94	0.50
1:A1:1481:C:H6	1:A1:1482:C:C2	2.29	0.50
1:A1:1507:G:H2'	1:A1:1508:U:O4'	2.12	0.50
1:A1:1590:G:H2'	1:A1:1591:C:H5	1.68	0.50
1:A1:1242:A:O4'	10:AI:78:THR:HA	2.12	0.50
30:B2:33:U:H5	36:BE:206:GLN:O	1.95	0.50
31:D3:29:U:H2'	31:D3:30:C:C6	2.40	0.50
29:B1:3024:A:H3'	29:B1:3025:C:H6	1.77	0.50
29:D1:1413:G:C2	29:D1:1414:G:C8	2.99	0.50
29:D1:3215:A:P	29:D1:3218:A:C5'	2.97	0.50
29:B1:1593:A:C2'	29:B1:1594:A:H8	2.18	0.50
1:C1:417:A:H4'	1:C1:418:G:O4'	2.12	0.50
4:AC:66:ILE:O	4:AC:67:ASN:C	2.48	0.50
29:D1:3349:C:H2'	29:D1:3350:C:N1	2.27	0.50
29:D1:987:U:H2'	29:D1:988:U:C5	2.46	0.50
29:D1:3242:G:N2	29:D1:3244:A:C8	2.63	0.50
1:A1:1280:C:O2'	15:AN:70:THR:CB	2.60	0.50
29:D1:2511:A:H2'	29:D1:2512:C:C5'	2.41	0.50
29:B1:2555:G:C1'	29:B1:2556:C:P	3.00	0.50
1:A1:1410:A:N7	1:A1:1411:A:C4	2.80	0.50
29:D1:3074:G:H2'	29:D1:3075:G:H8	1.77	0.50
29:B1:1714:A:H2'	29:B1:1715:A:OP1	2.12	0.50
36:BE:257:GLU:CA	36:BE:258:LYS:CB	2.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:310:C:N4	1:A1:357:G:C6	2.80	0.50
29:D1:2576:G:C5	29:D1:2577:C:C5	3.00	0.50
52:DW:69:SER:O	52:DW:72:ALA:N	2.43	0.50
29:B1:366:A:H8	29:B1:366:A:O5'	1.95	0.50
29:B1:1384:U:O2'	29:B1:1385:C:P	2.70	0.50
1:C1:726:C:H6	1:C1:726:C:O5'	1.95	0.50
29:B1:1180:A:C6	29:B1:1182:A:C5	2.99	0.50
29:B1:2561:A:OP1	29:B1:2561:A:H8	1.94	0.50
13:CL:75:ASN:HA	13:CL:78:HIS:CB	2.42	0.50
1:A1:583:C:C2	1:A1:584:C:C6	3.00	0.50
29:B1:1472:U:H2'	29:B1:1473:G:H8	1.77	0.50
29:B1:2469:G:H2'	29:B1:2470:C:C5	2.47	0.50
37:BF:122:PHE:O	37:BF:126:GLN:CB	2.60	0.50
29:B1:3050:U:C4	29:B1:3051:U:C4	3.00	0.50
1:C1:931:C:H2'	1:C1:932:U:OP1	2.12	0.50
29:B1:173:G:N7	74:B1:3489:OHX:N5	2.60	0.50
1:C1:734:A:C8	1:C1:735:C:C5	3.00	0.50
29:D1:3049:A:C2	34:DC:75:ALA:CB	2.93	0.50
47:BR:23:ASN:O	47:BR:26:LEU:N	2.44	0.50
13:AL:121:ALA:HB3	13:AL:124:GLY:CA	2.41	0.50
1:A1:933:A:N6	1:A1:935:U:O2	2.45	0.50
8:AG:129:TYR:C	8:AG:131:THR:N	2.61	0.50
39:DH:223:ALA:C	39:DH:225:LYS:N	2.65	0.50
29:D1:629:U:C3'	29:D1:630:A:H8	2.25	0.50
1:C1:665:U:H2'	1:C1:666:U:C5'	2.42	0.50
46:BQ:52:LEU:H	46:BQ:54:HIS:N	2.10	0.50
5:AD:212:LYS:O	5:AD:214:LYS:N	2.44	0.50
34:BC:127:LYS:CB	34:BC:128:LYS:HA	2.42	0.50
29:D1:2175:U:H3'	29:D1:2176:U:H5'	1.94	0.50
29:D1:180:C:H2'	29:D1:181:U:H6	1.75	0.50
21:CT:84:SER:C	21:CT:86:ASP:H	2.14	0.50
1:A1:631:G:C2'	1:A1:632:U:H5'	2.41	0.50
30:B2:52:G:C2	30:B2:53:U:C2	2.99	0.50
52:BW:83:VAL:O	52:BW:84:PHE:O	2.29	0.50
34:BC:24:SER:O	34:BC:26:ARG:O	2.29	0.50
36:DE:82:GLU:C	36:DE:84:PRO:N	2.64	0.50
2:CA:58:VAL:O	2:CA:61:ALA:HB3	2.12	0.50
14:AM:63:ARG:C	14:AM:65:ILE:H	2.15	0.50
29:D1:1803:C:C6	29:D1:1803:C:OP2	2.65	0.50
32:DA:6:SER:C	32:DA:8:GLN:H	2.15	0.50
50:DU:53:SER:O	50:DU:55:GLY:N	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CT:138:GLY:O	21:CT:139:GLN:C	2.50	0.50
1:A1:1119:G:O2'	1:A1:1120:U:H5'	2.12	0.49
1:A1:1644:C:OP2	1:A1:1644:C:C6	2.64	0.49
1:A1:1727:G:C2	1:A1:1728:A:C5	3.00	0.49
1:A1:29:U:H2'	1:A1:30:G:C8	2.44	0.49
1:A1:361:C:O2'	1:A1:362:G:H5'	2.12	0.49
1:A1:477:A:H2'	1:A1:478:A:H8	1.76	0.49
1:A1:486:G:H2'	1:A1:487:G:C4'	2.42	0.49
1:A1:553:G:N2	1:A1:571:G:N2	2.60	0.49
29:B1:1151:U:H5''	29:B1:1152:G:OP2	2.12	0.49
29:B1:1213:G:C2'	29:B1:1214:U:O5'	2.59	0.49
29:B1:1302:A:O2'	29:B1:2887:A:H2	1.94	0.49
29:B1:1604:G:H2'	29:B1:1605:A:O4'	2.12	0.49
29:B1:161:G:H2'	29:B1:162:G:C8	2.39	0.49
29:B1:1691:U:O2'	29:B1:1692:U:O5'	2.19	0.49
29:B1:1794:G:O3'	29:B1:1796:G:N2	2.43	0.49
29:B1:1895:A:C6	29:B1:2335:G:N7	2.80	0.49
29:B1:2249:G:N9	29:B1:2272:G:C8	2.79	0.49
29:B1:2356:A:N3	29:B1:2356:A:H2'	2.27	0.49
29:B1:421:G:O2'	29:B1:2365:C:OP2	2.20	0.49
29:B1:2380:U:C2	29:B1:2381:G:C8	3.00	0.49
29:B1:3012:A:C2	29:B1:3043:C:C2	3.00	0.49
29:B1:3039:C:O2	29:B1:3040:A:C8	2.65	0.49
29:B1:3065:G:C2'	29:B1:3066:U:O5'	2.60	0.49
29:B1:324:A:H5''	29:B1:325:A:OP2	2.11	0.49
29:B1:3321:C:O2'	29:B1:3322:A:H5'	2.12	0.49
29:B1:3333:G:H22	29:B1:3370:A:C4'	2.25	0.49
29:B1:3344:A:C5	29:B1:3361:G:O6	2.65	0.49
29:B1:3390:G:C2	29:B1:3391:A:N3	2.80	0.49
29:B1:373:A:N1	29:B1:375:A:C5	2.80	0.49
29:B1:715:A:O2'	29:B1:716:A:C5'	2.60	0.49
29:B1:952:A:C2'	29:B1:953:G:C5'	2.84	0.49
37:BF:30:LEU:CB	37:BF:31:ARG:HA	2.42	0.49
1:C1:63:G:O2'	1:C1:169:A:O3'	2.30	0.49
1:C1:269:G:N1	1:C1:287:G:C2	2.79	0.49
1:C1:290:G:H2'	1:C1:291:G:N7	2.27	0.49
1:C1:32:U:O2'	1:C1:33:U:H5'	2.12	0.49
1:C1:555:A:C1'	1:C1:556:A:OP1	2.60	0.49
1:C1:623:A:H3'	1:C1:623:A:P	2.52	0.49
1:C1:625:C:H2'	1:C1:626:U:C6	2.47	0.49
1:C1:939:A:H5''	1:C1:940:A:OP2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:989:U:C2	1:C1:990:C:C5	3.00	0.49
29:D1:1337:A:C6	29:D1:1338:C:C5	2.99	0.49
29:D1:1448:U:HO2'	29:D1:1449:A:H5'	1.75	0.49
29:D1:1909:A:N6	29:D1:1910:A:C2	2.80	0.49
29:D1:2107:A:C5	29:D1:2108:C:C5	3.00	0.49
29:D1:2136:C:O2	29:D1:2136:C:H2'	2.11	0.49
29:D1:2276:G:C6	29:D1:2277:C:C5	3.00	0.49
29:D1:2276:G:H2'	29:D1:2277:C:H5'	1.92	0.49
29:D1:2279:A:N1	29:D1:2283:G:N2	2.60	0.49
29:D1:2144:A:N1	29:D1:2281:A:C4	2.80	0.49
29:D1:2419:A:C5	29:D1:2804:A:C5	2.99	0.49
29:D1:2820:A:C5'	29:D1:2821:C:OP2	2.60	0.49
29:D1:2894:C:H2'	29:D1:2895:G:H8	1.77	0.49
29:D1:3038:U:O2'	29:D1:3039:C:O4'	2.28	0.49
29:D1:3078:U:C1'	29:D1:3079:U:OP2	2.58	0.49
29:D1:3151:U:H3'	29:D1:3151:U:OP2	2.12	0.49
29:D1:3161:C:O2	29:D1:3161:C:C2'	2.60	0.49
29:D1:3303:G:C2	29:D1:3305:A:C4	3.00	0.49
29:D1:3323:A:O2'	29:D1:3324:C:H5'	2.11	0.49
29:D1:499:G:C2'	29:D1:500:C:O5'	2.57	0.49
29:D1:516:A:O5'	29:D1:517:G:OP1	2.30	0.49
29:D1:60:A:N7	29:D1:61:A:N7	2.60	0.49
29:D1:647:A:H4'	29:D1:648:C:OP1	2.12	0.49
29:D1:784:A:H2'	29:D1:785:G:N7	2.24	0.49
29:D1:847:A:H2'	29:D1:848:A:H8	1.71	0.49
29:D1:992:A:N1	29:D1:993:G:C8	2.79	0.49
31:D3:14:C:C6	31:D3:15:G:N7	2.80	0.49
31:D3:26:U:O5'	31:D3:26:U:H6	1.95	0.49
31:D3:57:C:O2'	31:D3:58:G:H5'	2.12	0.49
1:A1:708:C:O4'	1:A1:731:C:N3	2.45	0.49
1:A1:829:A:H1'	1:A1:830:U:C5'	2.41	0.49
1:C1:845:G:N7	74:C1:1917:OHX:N4	2.60	0.49
1:C1:224:C:N4	1:C1:838:G:H1	2.08	0.49
1:C1:646:C:H3'	1:C1:647:G:C5'	2.38	0.49
29:B1:2730:G:H2'	29:B1:2731:U:O5'	2.12	0.49
31:B3:70:G:N7	31:B3:71:A:N1	2.60	0.49
31:B3:75:G:OP2	31:B3:76:C:P	2.70	0.49
31:B3:90:U:O2'	31:B3:91:C:H5'	2.12	0.49
1:A1:268:C:N4	1:A1:288:A:C2	2.79	0.49
5:AD:112:ARG:O	5:AD:113:ILE:C	2.50	0.49
30:D2:18:C:C4	30:D2:19:C:C5	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:247:A:H3'	1:C1:247:A:C8	2.47	0.49
1:C1:114:C:N4	1:C1:250:C:O4'	2.34	0.49
1:C1:1371:A:H2'	1:C1:1371:A:N3	2.26	0.49
1:A1:1174:C:H2'	1:A1:1175:U:H6	1.66	0.49
1:A1:1199:G:C4	1:A1:1200:G:O4'	2.65	0.49
1:A1:1203:A:N1	1:A1:1556:A:C4	2.80	0.49
1:A1:1267:G:O2'	1:A1:1268:G:H5'	2.12	0.49
1:A1:1346:A:C5	1:A1:1347:U:H1'	2.46	0.49
1:A1:1476:C:H2'	1:A1:1477:G:C8	2.47	0.49
1:A1:1521:G:C6	74:A1:1943:OHX:N2	2.80	0.49
30:B2:88:G:C6	30:B2:89:G:N7	2.79	0.49
29:B1:389:A:H2'	29:B1:390:G:O4'	2.12	0.49
37:BF:43:LEU:H	37:BF:84:VAL:CA	2.25	0.49
29:B1:3194:C:C3'	29:B1:3194:C:C6	2.95	0.49
29:D1:3200:G:OP2	29:D1:3200:G:H8	1.93	0.49
30:B2:38:U:C2'	30:B2:40:C:H5''	2.42	0.49
29:D1:195:U:O2	29:D1:196:G:H1'	2.10	0.49
29:D1:216:G:C6	29:D1:217:U:N3	2.80	0.49
29:D1:197:G:H21	29:D1:218:G:H21	1.59	0.49
29:D1:3260:G:N1	29:D1:3261:C:H4'	2.25	0.49
30:D2:38:U:H2'	30:D2:40:C:C5'	2.41	0.49
29:D1:1234:G:C5'	29:D1:1235:U:OP2	2.60	0.49
29:D1:3348:G:H2'	29:D1:3349:C:O4'	2.12	0.49
31:B3:30:C:O2	31:B3:31:G:C8	2.65	0.49
1:A1:1285:U:O2	1:A1:1286:U:H5	1.94	0.49
1:C1:1402:G:N3	1:C1:1403:C:C6	2.80	0.49
34:DC:92:TYR:O	34:DC:93:VAL:CB	2.60	0.49
29:D1:3141:A:N3	29:D1:3144:G:P	2.85	0.49
29:D1:2215:A:C4	29:D1:2216:G:C8	2.99	0.49
29:B1:1627:U:H5'	29:B1:1628:C:P	2.51	0.49
29:B1:1634:G:N1	29:B1:1640:G:C6	2.80	0.49
1:C1:1754:A:H1'	1:C1:1755:A:N3	2.27	0.49
29:D1:1085:A:H2'	29:D1:1086:C:C6	2.47	0.49
43:DN:76:ALA:O	43:DN:78:THR:N	2.44	0.49
1:C1:488:G:O2'	1:C1:489:C:C6	2.64	0.49
1:A1:1580:C:C4'	1:A1:1581:C:OP1	2.55	0.49
9:CH:64:ALA:CA	9:CH:68:ALA:H	2.16	0.49
1:C1:1122:G:N2	1:C1:1126:G:C5	2.80	0.49
42:DK:27:GLY:CA	42:DK:29:ARG:H	2.19	0.49
29:B1:2207:A:C8	29:B1:2237:C:C2	3.00	0.49
34:BC:105:VAL:C	34:BC:107:ALA:N	2.62	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1536:G:C6	29:B1:1586:G:N2	2.80	0.49
29:B1:1537:A:C5	29:B1:1538:G:C8	3.00	0.49
29:B1:2581:U:H6	29:B1:2581:U:OP2	1.94	0.49
1:C1:1694:A:C4'	1:C1:1695:G:OP1	2.60	0.49
29:D1:802:C:H2'	29:D1:803:C:C6	2.47	0.49
1:C1:717:C:C1'	1:C1:718:U:P	3.00	0.49
29:D1:603:A:C8	29:D1:603:A:O5'	2.65	0.49
29:D1:2157:G:N7	33:DB:151:PRO:CB	2.74	0.49
1:C1:804:A:C4	1:C1:805:U:C5	3.00	0.49
29:B1:2572:C:C4	29:B1:2573:G:C6	2.99	0.49
1:C1:876:G:H2'	1:C1:936:G:N2	2.27	0.49
29:D1:1724:U:O2'	29:D1:1725:C:P	2.69	0.49
1:A1:743:U:HO2'	1:A1:744:U:C5'	2.25	0.49
42:DK:85:LYS:O	42:DK:88:GLU:N	2.45	0.49
1:C1:564:G:N2	1:C1:577:G:OP1	2.45	0.49
4:AC:117:ARG:O	4:AC:118:ALA:C	2.51	0.49
29:D1:629:U:H2'	29:D1:630:A:C8	2.47	0.49
29:B1:1700:G:O2'	29:B1:1701:C:H5'	2.11	0.49
47:BR:150:VAL:CB	47:BR:151:ARG:CA	2.90	0.49
33:DB:59:ALA:HA	33:DB:74:GLU:HA	1.94	0.49
29:D1:1672:U:O2	29:D1:1672:U:H2'	2.12	0.49
29:D1:1530:U:O2	29:D1:1530:U:C2'	2.60	0.49
2:CA:48:ILE:O	2:CA:50:VAL:N	2.45	0.49
2:AA:67:ILE:C	2:AA:69:ASN:H	2.15	0.49
35:BD:209:TYR:HA	35:BD:249:ILE:O	2.12	0.49
30:B2:19:C:H2'	30:B2:20:A:C8	2.47	0.49
48:BS:120:TYR:O	48:BS:123:LEU:CB	2.60	0.49
29:B1:1397:C:N4	29:B1:1398:U:O4	2.45	0.49
42:BK:90:GLN:CB	42:BK:169:ALA:HB3	2.42	0.49
55:BZ:32:LYS:O	55:BZ:33:SER:C	2.50	0.49
6:CE:175:ARG:C	6:CE:177:ALA:H	2.15	0.49
1:A1:1087:A:HO2'	1:A1:1142:A:HO2'	1.56	0.49
1:A1:1728:A:C6	1:A1:1729:C:C4	3.00	0.49
1:A1:24:U:HO2'	1:A1:25:C:H6	1.56	0.49
1:A1:379:U:P	1:A1:379:U:O3'	2.70	0.49
1:A1:8:U:O2'	74:A1:1976:OHX:N1	2.45	0.49
1:A1:96:G:N1	1:A1:97:C:C4	2.80	0.49
29:B1:1144:U:O5'	29:B1:1144:U:C6	2.61	0.49
29:B1:1454:A:C2	29:B1:1484:U:O4	2.65	0.49
29:B1:1489:A:H5''	29:B1:1490:A:OP2	2.12	0.49
29:B1:1500:G:C6	29:B1:1517:G:C6	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2252:A:N3	29:B1:2253:G:C8	2.80	0.49
29:B1:2259:A:H5''	29:B1:2260:U:C5	2.47	0.49
29:B1:2714:G:C2	29:B1:2751:G:N1	2.80	0.49
29:B1:309:U:C4	29:B1:2780:A:N1	2.80	0.49
29:B1:2876:C:C2'	29:B1:2877:G:H5'	2.43	0.49
29:B1:3343:G:H2'	29:B1:3344:A:C8	2.47	0.49
29:B1:375:A:C2'	29:B1:376:G:OP1	2.60	0.49
29:B1:506:U:H2'	29:B1:507:U:C6	2.46	0.49
29:B1:578:A:O2'	29:B1:579:G:P	2.70	0.49
29:B1:642:U:H5''	29:B1:643:U:OP2	2.11	0.49
29:B1:658:G:C2	29:B1:1438:U:C2	3.00	0.49
29:B1:692:A:H2'	29:B1:693:A:O4'	2.12	0.49
29:B1:715:A:O2'	29:B1:716:A:P	2.70	0.49
29:B1:760:G:N2	29:B1:761:A:C8	2.77	0.49
29:B1:865:U:C5	29:B1:866:A:C8	3.01	0.49
1:C1:209:U:O2	1:C1:209:U:H2'	2.13	0.49
1:C1:528:U:H4'	1:C1:529:A:C5'	2.42	0.49
1:C1:618:U:H6	1:C1:618:U:O5'	1.96	0.49
1:C1:62:A:H4'	1:C1:63:G:OP2	2.11	0.49
29:D1:1148:G:N2	29:D1:1156:C:C2	2.81	0.49
29:D1:1153:A:C8	29:D1:1154:A:C4	3.00	0.49
29:D1:1196:C:N3	30:D2:86:U:C4	2.79	0.49
29:D1:1289:G:C2	29:D1:1290:A:C5	3.00	0.49
29:D1:1303:A:C8	29:D1:1304:A:N1	2.80	0.49
29:D1:1507:G:O4'	29:D1:1507:G:OP2	2.30	0.49
29:D1:1836:C:O2'	29:D1:1837:U:H5'	2.13	0.49
29:D1:1909:A:N6	29:D1:1910:A:C6	2.80	0.49
29:D1:1939:G:OP1	48:DS:78:TYR:N	2.45	0.49
29:D1:2280:A:C6	29:D1:2282:U:C5	3.00	0.49
29:D1:2289:U:C2'	29:D1:2290:C:C5'	2.89	0.49
29:D1:2385:G:C4'	29:D1:2386:A:OP1	2.37	0.49
29:D1:258:G:N3	29:D1:259:C:C6	2.80	0.49
29:D1:2631:U:H2'	29:D1:2632:G:H8	1.77	0.49
29:D1:2717:U:O4	29:D1:2740:A:N6	2.45	0.49
74:D1:3543:OHX:N5	38:DG:217:PRO:CA	2.74	0.49
29:D1:412:G:H2'	29:D1:413:U:H6	1.77	0.49
29:D1:523:A:C6	29:D1:524:U:C5	3.00	0.49
29:D1:699:A:C8	29:D1:699:A:C3'	2.96	0.49
29:D1:714:G:O2'	29:D1:751:A:O2'	2.17	0.49
29:D1:68:C:C4	29:D1:76:G:N2	2.80	0.49
29:D1:776:U:C6	29:D1:777:U:C1'	2.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:359:U:H4'	29:D1:817:A:N6	2.27	0.49
29:D1:952:A:H3'	29:D1:952:A:C8	2.46	0.49
29:D1:964:G:OP2	29:D1:1115:G:O6	2.31	0.49
31:D3:5:U:C4	31:D3:6:U:C4	3.00	0.49
37:DF:143:LYS:O	37:DF:146:ILE:CB	2.60	0.49
49:DT:80:VAL:O	49:DT:81:GLY:O	2.30	0.49
29:D1:40:A:C8	54:DY:30:GLY:O	2.65	0.49
1:A1:706:A:C5	1:A1:707:A:C6	3.00	0.49
1:C1:218:A:O2'	1:C1:219:A:H8	1.96	0.49
1:A1:647:G:N1	1:A1:687:G:C6	2.81	0.49
29:B1:993:G:N7	29:B1:2637:A:C2	2.80	0.49
30:B2:11:A:C5'	30:B2:13:A:H2'	2.42	0.49
30:B2:80:G:H2'	30:B2:81:U:H6	1.77	0.49
31:B3:72:A:HO2'	31:B3:73:U:P	2.34	0.49
1:A1:151:G:H22	1:A1:163:G:N2	2.10	0.49
1:A1:198:A:O2'	1:A1:199:G:O5'	2.30	0.49
1:A1:71:A:H2	1:A1:72:A:H62	1.53	0.49
30:D2:73:C:N4	30:D2:74:C:N4	2.54	0.49
30:D2:9:C:H3'	30:D2:10:C:C4'	2.42	0.49
1:C1:1196:A:O2'	1:C1:1197:C:OP2	2.18	0.49
1:C1:1347:U:O3'	1:C1:1348:A:N7	2.45	0.49
1:C1:1536:G:C5	1:C1:1538:U:O2	2.65	0.49
1:A1:1213:G:N2	1:A1:1214:U:H1'	2.27	0.49
1:A1:1493:A:C2'	1:A1:1493:A:N3	2.73	0.49
29:D1:3207:U:H3'	29:D1:3208:G:H5'	1.93	0.49
6:CE:79:ARG:O	6:CE:81:VAL:CB	2.60	0.49
29:B1:3284:G:C4	29:B1:3285:C:C5	3.00	0.49
29:D1:1187:C:O5'	29:D1:1187:C:H6	1.95	0.49
30:D2:23:A:C2'	30:D2:24:A:H8	2.23	0.49
29:D1:405:U:H5	29:D1:406:G:N7	2.07	0.49
30:B2:41:G:C5'	30:B2:42:A:OP2	2.54	0.49
29:D1:1390:A:O4'	29:D1:1418:A:N6	2.45	0.49
29:D1:396:A:C2	29:D1:399:A:C4	3.00	0.49
29:D1:376:G:C5	29:D1:401:U:N3	2.81	0.49
29:B1:1265:U:H2'	29:B1:1266:G:O4'	2.12	0.49
29:B1:1278:A:C8	29:B1:1279:C:C5	3.00	0.49
29:D1:3282:U:O2'	29:D1:3283:U:C5	2.62	0.49
30:D2:43:U:H2'	30:D2:44:C:C5'	2.41	0.49
36:BE:103:LEU:HA	36:BE:107:ARG:CB	2.41	0.49
9:CH:21:ALA:H	9:CH:85:ALA:CB	2.21	0.49
1:C1:701:U:H2'	1:C1:702:G:C1'	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1079:A:N1	29:B1:1080:A:C6	2.79	0.49
1:A1:1751:C:H2'	1:A1:1752:U:C6	2.47	0.49
29:D1:2515:A:H3'	29:D1:2516:U:C5	2.45	0.49
29:D1:2105:G:H2'	29:D1:2106:A:O4'	2.13	0.49
1:C1:180:A:C4	1:C1:181:A:N3	2.81	0.49
29:D1:1078:U:C4	29:D1:1082:U:C4	3.00	0.49
29:B1:1731:A:N7	29:B1:1732:U:C4	2.80	0.49
21:AT:169:ILE:O	21:AT:180:ALA:HA	2.12	0.49
1:A1:357:G:C6	1:A1:358:U:C4	3.00	0.49
29:D1:2581:U:O5'	74:D1:3567:OHX:N5	2.45	0.49
29:D1:1728:G:O2'	55:DZ:86:ARG:C	2.50	0.49
29:B1:1932:A:H2'	29:B1:1933:A:O4'	2.12	0.49
54:BY:130:VAL:O	54:BY:134:ALA:HB3	2.12	0.49
29:B1:1018:G:C2	74:B1:3529:OHX:N2	2.80	0.49
29:B1:2910:A:H2'	29:B1:2911:A:OP2	2.12	0.49
29:D1:1753:G:N3	29:D1:1754:G:C8	2.80	0.49
29:B1:2603:G:H5''	29:B1:2604:U:OP2	2.12	0.49
29:D1:1009:A:O3'	29:D1:1010:G:O4'	2.30	0.49
53:DX:34:PRO:HA	53:DX:47:ALA:CB	2.42	0.49
13:CL:79:TYR:O	13:CL:80:LYS:CB	2.59	0.49
1:A1:745:U:H2'	1:A1:745:U:O2	2.10	0.49
29:D1:2966:G:C6	29:D1:2967:A:C6	3.00	0.49
1:A1:568:G:C2	1:A1:569:C:C6	3.00	0.49
29:D1:2468:A:H2	29:D1:2469:G:N3	2.10	0.49
10:CI:33:PHE:O	10:CI:35:LYS:N	2.38	0.49
29:B1:2504:U:C4	29:B1:2505:U:C4	3.00	0.49
13:CL:114:GLU:C	13:CL:116:LEU:N	2.65	0.49
49:DT:14:MET:C	49:DT:16:GLN:N	2.64	0.49
2:CA:91:ALA:C	2:CA:93:THR:H	2.15	0.49
1:C1:906:A:OP2	9:CH:51:ASP:HA	2.12	0.49
13:AL:46:VAL:C	13:AL:48:LYS:H	2.14	0.49
45:DP:37:ARG:CA	45:DP:107:GLY:HA2	2.42	0.49
1:A1:575:C:H3'	1:A1:576:G:H8	1.78	0.49
54:DY:147:LEU:O	54:DY:148:ILE:CB	2.60	0.49
34:DC:221:THR:O	34:DC:272:TYR:HA	2.12	0.49
3:AB:62:PRO:CA	3:AB:63:VAL:CB	2.90	0.49
29:B1:1860:G:N7	74:B1:3595:OHX:N1	2.60	0.49
2:AA:79:ARG:O	2:AA:82:GLY:N	2.45	0.49
41:BJ:35:ASP:O	41:BJ:36:LEU:C	2.50	0.49
50:DU:87:ARG:O	50:DU:90:GLY:N	2.44	0.49
4:CC:168:ILE:HA	4:CC:188:ILE:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CH:83:ILE:O	9:CH:117:ASP:HA	2.12	0.49
1:C1:1546:G:N2	10:CI:16:SER:HA	2.26	0.49
34:DC:268:GLY:O	34:DC:269:GLN:CB	2.59	0.49
34:DC:269:GLN:O	34:DC:270:ARG:O	2.30	0.49
55:BZ:17:VAL:O	55:BZ:20:SER:O	2.30	0.49
3:AB:152:HIS:C	3:AB:154:LEU:H	2.15	0.49
1:C1:679:U:C4	1:C1:680:U:C4	3.00	0.49
1:A1:1052:U:N3	1:A1:1053:G:N7	2.60	0.49
1:A1:1112:G:C8	1:A1:1113:A:C8	3.00	0.49
1:A1:1148:C:C2	1:A1:1149:G:O6	2.65	0.49
1:A1:1637:C:OP2	1:A1:1637:C:C4'	2.60	0.49
1:A1:1633:A:OP2	1:A1:1639:C:H5'	2.12	0.49
1:A1:529:A:HO2'	1:A1:530:C:P	2.35	0.49
1:A1:555:A:H2	1:A1:556:A:N1	2.08	0.49
1:A1:559:C:H2'	1:A1:560:U:H6	1.77	0.49
1:A1:605:A:C8	1:A1:606:A:C2	3.01	0.49
1:A1:607:G:H4'	1:A1:608:U:C5'	2.42	0.49
1:A1:954:G:N7	1:A1:955:A:N7	2.60	0.49
29:B1:1296:C:O2'	29:B1:1297:C:OP1	2.29	0.49
29:B1:1393:A:H8	29:B1:1418:A:C5	2.30	0.49
29:B1:1489:A:OP2	29:B1:1838:G:N2	2.45	0.49
29:B1:1506:A:HO2'	29:B1:1507:G:H5'	1.71	0.49
29:B1:160:G:H3'	29:B1:160:G:OP2	2.12	0.49
29:B1:1685:C:H2'	29:B1:1687:U:C5	2.47	0.49
29:B1:2185:G:N3	29:B1:2185:G:H2'	2.27	0.49
29:B1:2344:U:H2'	29:B1:2344:U:O2	2.11	0.49
29:B1:2360:C:H5''	29:B1:2361:A:OP2	2.12	0.49
29:B1:2405:C:C2	29:B1:2820:A:N1	2.81	0.49
29:B1:2609:A:H2'	29:B1:2610:G:H8	1.78	0.49
29:B1:924:G:N7	29:B1:2809:C:H1'	2.27	0.49
29:B1:2393:G:H2'	29:B1:2947:G:H5''	1.93	0.49
29:B1:3078:U:C1'	29:B1:3079:U:OP2	2.57	0.49
29:B1:3301:U:C2'	29:B1:3302:U:C5	2.95	0.49
29:B1:3342:A:H3'	29:B1:3343:G:O4'	2.13	0.49
29:B1:359:U:C4	29:B1:360:G:C6	3.00	0.49
29:B1:375:A:H2'	29:B1:376:G:OP1	2.10	0.49
29:B1:40:A:H3'	29:B1:41:G:C5'	2.43	0.49
29:B1:499:G:H2'	29:B1:500:C:O5'	2.12	0.49
29:B1:547:G:H2'	29:B1:548:G:H5'	1.93	0.49
29:B1:590:G:O2'	29:B1:591:G:OP2	2.29	0.49
29:B1:595:G:N1	29:B1:609:G:H4'	2.22	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:62:A:C4	29:B1:63:A:C8	3.00	0.49
29:B1:740:G:H2'	29:B1:740:G:N3	2.26	0.49
29:B1:752:C:O2'	29:B1:753:C:H6	1.95	0.49
29:B1:780:A:N6	29:B1:781:G:C6	2.80	0.49
29:B1:885:U:C2'	29:B1:885:U:O2	2.60	0.49
29:B1:902:G:O6	74:B1:3490:OHX:N5	2.45	0.49
29:B1:808:A:N6	29:B1:934:G:C5	2.80	0.49
29:B1:949:C:HO2'	29:B1:950:G:H5'	1.77	0.49
31:B3:19:C:C4	31:B3:20:U:C4	2.99	0.49
43:BN:76:ALA:O	43:BN:79:ALA:N	2.45	0.49
44:BO:85:THR:CB	44:BO:87:GLN:N	2.75	0.49
1:C1:1003:A:C8	1:C1:1005:A:C4	2.99	0.49
1:C1:1073:G:O6	1:C1:1074:G:N1	2.43	0.49
1:C1:1097:U:O2	1:C1:1097:U:O2'	2.23	0.49
1:C1:1120:U:O2	1:C1:1121:C:C6	2.65	0.49
1:C1:178:U:H2'	1:C1:178:U:O2	2.13	0.49
1:C1:1797:A:C2	1:C1:1799:U:O4	2.64	0.49
1:C1:18:C:H2'	1:C1:19:A:H8	1.75	0.49
1:C1:203:U:C4'	1:C1:204:G:OP1	2.59	0.49
1:C1:392:G:H2'	1:C1:393:C:O4'	2.12	0.49
1:C1:547:U:O2'	1:C1:596:C:O2	2.26	0.49
1:C1:553:G:C5	1:C1:554:C:N3	2.81	0.49
1:C1:14:C:C5'	3:CB:163:GLY:HA2	2.41	0.49
29:D1:1167:U:C2'	29:D1:1168:U:O5'	2.60	0.49
29:D1:1174:G:C2	29:D1:1175:C:C4	3.00	0.49
29:D1:1289:G:O2'	29:D1:1290:A:P	2.70	0.49
29:D1:1169:A:C2	29:D1:1330:A:C6	3.00	0.49
29:D1:13:A:C2	29:D1:15:C:H3'	2.48	0.49
29:D1:2169:G:O6	74:D1:3492:OHX:N5	2.45	0.49
29:D1:2252:A:C4	29:D1:2253:G:N7	2.80	0.49
29:D1:2301:U:O2'	29:D1:2302:G:H5'	2.12	0.49
29:D1:23:A:N3	29:D1:23:A:C2'	2.74	0.49
29:D1:2414:G:N2	29:D1:2415:C:H1'	2.28	0.49
29:D1:258:G:O2'	29:D1:259:C:P	2.70	0.49
29:D1:2607:G:C6	29:D1:2608:G:N7	2.81	0.49
29:D1:2699:G:C5'	29:D1:2699:G:C8	2.88	0.49
29:D1:2730:G:C4	29:D1:2731:U:C6	3.01	0.49
29:D1:2749:G:C5	29:D1:2750:U:C5	3.00	0.49
29:D1:99:A:H1'	29:D1:281:G:O6	2.13	0.49
29:D1:2828:G:C2'	29:D1:2829:U:O5'	2.60	0.49
29:D1:2865:U:O2'	29:D1:2866:U:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3057:U:O2'	29:D1:3059:G:H8	1.95	0.49
29:D1:3322:A:C6	29:D1:3323:A:C6	3.00	0.49
29:D1:361:A:C2'	29:D1:362:U:O4'	2.60	0.49
29:D1:49:A:N6	29:D1:279:U:O2'	2.45	0.49
29:D1:533:A:N3	29:D1:534:U:C4	2.81	0.49
29:D1:797:U:H2'	29:D1:798:G:H8	1.77	0.49
31:D3:48:A:C5	31:D3:51:G:N7	2.80	0.49
31:D3:53:A:C4	31:D3:54:A:N7	2.81	0.49
31:D3:5:U:C5	31:D3:6:U:C4	3.01	0.49
34:DC:50:LYS:O	34:DC:332:ARG:HA	2.12	0.49
1:A1:701:U:O4	1:A1:702:G:C2	2.64	0.49
29:B1:955:U:H2'	29:B1:956:U:C5	2.45	0.49
30:B2:13:A:N3	30:B2:13:A:H2'	2.26	0.49
31:B3:49:G:C2	31:B3:50:C:C6	3.00	0.49
31:B3:78:G:C6	31:B3:79:A:C6	3.00	0.49
31:B3:79:A:C3'	31:B3:80:A:H8	2.26	0.49
34:BC:44:THR:O	34:BC:45:SER:CB	2.59	0.49
1:A1:269:G:N1	1:A1:287:G:C2	2.80	0.49
1:C1:1683:C:OP2	1:C1:1684:U:OP2	2.31	0.49
1:C1:332:U:O2	1:C1:332:U:H2'	2.12	0.49
29:B1:2673:A:N6	29:B1:2681:U:H3	2.07	0.49
1:A1:1713:G:N2	1:A1:1714:A:N9	2.59	0.49
1:C1:1377:U:O2	1:C1:1378:U:C4'	2.60	0.49
1:C1:1384:A:H2'	1:C1:1385:G:H8	1.76	0.49
1:C1:1573:A:H4'	1:C1:1574:G:OP2	2.12	0.49
15:CN:12:GLN:CB	15:CN:14:GLN:O	2.60	0.49
1:A1:1180:C:C2	1:A1:1181:U:C6	3.00	0.49
1:A1:1378:U:C2	1:A1:1379:C:O4'	2.64	0.49
1:A1:1424:A:H2'	1:A1:1425:A:O4'	2.12	0.49
1:A1:1590:G:C2	1:A1:1591:C:C4	3.00	0.49
1:A1:1608:U:C2'	1:A1:1609:U:H5''	2.41	0.49
29:B1:383:G:C2	29:B1:387:A:C6	3.00	0.49
29:B1:383:G:N2	29:B1:386:A:OP2	2.46	0.49
29:B1:382:U:O3'	29:B1:384:A:OP2	2.31	0.49
29:B1:383:G:C5'	29:B1:385:A:OP2	2.60	0.49
30:D2:27:A:C6	30:D2:54:U:O4	2.65	0.49
30:B2:34:C:O2'	30:B2:35:C:H5''	2.11	0.49
29:D1:1269:U:N3	29:D1:1271:A:N6	2.56	0.49
73:DM:33:VAL:O	73:DM:34:SER:C	2.50	0.49
29:D1:3351:U:O4'	29:D1:3351:U:O2	2.30	0.49
1:C1:1339:C:O2'	1:C1:1340:U:C5'	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1402:G:C4	1:C1:1403:C:C6	3.00	0.49
29:B1:1065:A:H1'	29:B1:1093:A:N6	2.17	0.49
1:A1:887:A:C4	1:A1:888:U:C5	3.01	0.49
29:D1:2512:C:O2'	29:D1:2592:G:N2	2.45	0.49
34:BC:48:GLY:O	34:BC:49:TYR:CB	2.60	0.49
1:A1:1398:U:O2'	1:A1:1399:C:O5'	2.30	0.49
29:D1:1084:A:N7	29:D1:1085:A:N6	2.61	0.49
29:D1:1685:C:C5	29:D1:1687:U:C4	3.00	0.49
29:D1:1690:C:C4	29:D1:1691:U:C4	3.01	0.49
34:BC:93:VAL:O	34:BC:94:GLU:O	2.29	0.49
29:B1:1718:G:C2'	29:B1:1719:G:H5'	2.43	0.49
29:B1:624:G:N2	29:B1:625:G:N9	2.60	0.49
35:DD:149:PRO:O	35:DD:150:LEU:CB	2.59	0.49
29:D1:3270:U:H4'	29:D1:3271:G:O5'	2.12	0.49
49:BT:68:THR:O	49:BT:70:SER:N	2.45	0.49
29:B1:3353:G:C2'	29:B1:3353:G:N3	2.75	0.49
5:AD:163:SER:O	5:AD:165:LEU:N	2.44	0.49
54:DY:111:LYS:CA	54:DY:128:ARG:CB	2.84	0.49
29:D1:140:C:C2	29:D1:141:C:C5	3.00	0.49
29:B1:1334:U:H5'	38:BG:207:LEU:O	2.12	0.49
1:C1:719:U:C2'	1:C1:719:U:O2	2.60	0.49
1:C1:723:G:C5	1:C1:724:C:N3	2.80	0.49
34:DC:191:LYS:O	34:DC:192:VAL:C	2.48	0.49
37:BF:126:GLN:O	37:BF:128:LYS:N	2.41	0.49
29:D1:103:G:O2'	29:D1:104:G:H5'	2.12	0.49
34:DC:106:TRP:O	34:DC:107:ALA:C	2.50	0.49
1:C1:567:A:C6	1:C1:568:G:C4	3.00	0.49
1:C1:568:G:C4'	17:CP:90:ASP:HA	2.42	0.49
1:C1:574:G:C6	1:C1:575:C:C5	3.01	0.49
51:BV:41:LYS:C	51:BV:43:ARG:N	2.63	0.49
45:DP:93:ALA:O	45:DP:94:ARG:O	2.30	0.49
46:BQ:52:LEU:O	46:BQ:53:ASP:C	2.51	0.49
8:CG:142:GLU:C	8:CG:144:ALA:N	2.66	0.49
5:AD:136:ALA:C	5:AD:138:THR:H	2.15	0.49
38:BG:138:TYR:O	38:BG:233:GLU:O	2.31	0.49
29:B1:134:U:P	29:B1:134:U:H6	2.35	0.49
21:CT:236:ALA:O	21:CT:237:GLN:CB	2.60	0.49
55:DZ:76:GLU:C	55:DZ:78:GLY:H	2.14	0.49
41:DJ:98:ARG:CB	41:DJ:120:GLY:HA3	2.42	0.49
52:DW:50:ALA:O	52:DW:51:VAL:CB	2.59	0.49
13:CL:17:LEU:O	13:CL:21:ASN:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CQ:80:LEU:C	18:CQ:82:HIS:H	2.16	0.49
35:DD:103:THR:O	35:DD:104:LYS:CB	2.60	0.49
1:A1:1002:G:C6	1:A1:1003:A:N1	2.81	0.49
1:A1:1146:G:H8	1:A1:1635:A:N3	2.10	0.49
1:A1:1653:C:C4	1:A1:1654:G:C5	3.00	0.49
1:A1:297:U:H2'	1:A1:298:C:H5'	1.94	0.49
1:A1:39:A:N7	1:A1:467:G:N1	2.57	0.49
1:A1:402:C:N3	1:A1:403:G:O4'	2.45	0.49
1:A1:55:A:N7	1:A1:426:G:C6	2.80	0.49
1:A1:618:U:H6	1:A1:618:U:O5'	1.95	0.49
29:B1:1119:C:O2	29:B1:1119:C:H2'	2.11	0.49
29:B1:1302:A:C4	29:B1:2887:A:C6	3.00	0.49
29:B1:13:A:H2	29:B1:15:C:C2'	2.25	0.49
29:B1:1435:A:C8	29:B1:1437:C:N1	2.81	0.49
29:B1:1678:G:C2	29:B1:1679:A:C5	3.00	0.49
29:B1:1679:A:C2	29:B1:1680:G:C8	3.00	0.49
29:B1:1780:G:C2	29:B1:1781:C:C5	3.00	0.49
29:B1:1783:U:C2	29:B1:1784:G:C8	3.00	0.49
29:B1:1894:U:C2	29:B1:1895:A:C8	3.01	0.49
29:B1:2135:U:C2	29:B1:2136:C:C5	3.00	0.49
29:B1:1895:A:N1	29:B1:2341:A:C6	2.80	0.49
29:B1:2375:G:N2	29:B1:2377:G:C8	2.81	0.49
29:B1:2378:C:O2	29:B1:2378:C:C2'	2.60	0.49
29:B1:421:G:O6	29:B1:2383:C:O2	2.29	0.49
29:B1:257:U:C2	29:B1:258:G:N7	2.80	0.49
29:B1:2904:U:C2	29:B1:2904:U:C3'	2.95	0.49
29:B1:3087:A:H2'	29:B1:3088:G:H8	1.73	0.49
29:B1:1942:U:C1'	29:B1:3342:A:C2	2.95	0.49
29:B1:3364:C:C2'	29:B1:3365:U:H5'	2.42	0.49
29:B1:549:U:O4	74:B1:3513:OHX:N1	2.45	0.49
29:B1:43:A:OP1	29:B1:43:A:C4'	2.61	0.49
29:B1:552:G:C6	29:B1:553:U:C4	3.00	0.49
29:B1:521:A:C8	29:B1:572:A:C6	3.00	0.49
29:B1:61:A:C6	29:B1:62:A:C4	3.00	0.49
29:B1:676:G:H5'	29:B1:679:U:OP1	2.12	0.49
29:B1:701:G:O2'	29:B1:702:C:H5'	2.11	0.49
29:B1:752:C:O2'	29:B1:753:C:C6	2.66	0.49
29:B1:88:A:H3'	29:B1:88:A:C8	2.48	0.49
29:B1:945:C:N3	29:B1:946:U:C5	2.80	0.49
31:B3:14:C:C5	31:B3:15:G:N7	2.80	0.49
1:C1:1000:C:C6	1:C1:1002:G:OP2	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1142:A:H8	1:C1:1142:A:C5'	2.26	0.49
1:C1:288:A:N3	1:C1:289:U:C5	2.72	0.49
1:C1:555:A:H2	1:C1:556:A:N1	2.10	0.49
1:C1:618:U:O2'	1:C1:619:A:H5''	2.12	0.49
1:C1:72:A:C2	1:C1:73:U:C6	3.00	0.49
1:C1:87:C:H3'	1:C1:88:U:C5'	2.31	0.49
29:D1:1193:A:H8	29:D1:1194:G:C2	2.24	0.49
29:D1:1225:A:O2'	29:D1:1226:G:P	2.70	0.49
29:D1:13:A:H2'	29:D1:13:A:N3	2.26	0.49
29:D1:1596:C:H2'	29:D1:1597:C:H6	1.72	0.49
29:D1:1833:G:N3	29:D1:1834:U:O2	2.46	0.49
29:D1:1884:A:N3	29:D1:1885:U:O2	2.45	0.49
29:D1:2197:C:H4'	29:D1:2198:A:C8	2.48	0.49
29:D1:2200:U:C2	29:D1:2201:G:C8	3.00	0.49
29:D1:2247:G:C6	29:D1:2248:C:C4	3.00	0.49
29:D1:2356:A:H2'	29:D1:2356:A:N3	2.27	0.49
29:D1:2376:G:O2'	29:D1:2377:G:H5'	2.13	0.49
29:D1:2369:G:N2	29:D1:2379:U:C2	2.80	0.49
29:D1:2386:A:N7	29:D1:2994:A:C6	2.81	0.49
29:D1:263:C:OP1	29:D1:264:G:OP1	2.29	0.49
29:D1:2731:U:H2'	29:D1:2731:U:O2	2.12	0.49
29:D1:2945:G:O4'	29:D1:2945:G:N3	2.45	0.49
29:D1:2994:A:H2'	29:D1:2995:A:C8	2.46	0.49
29:D1:3030:G:C2'	29:D1:3031:G:O4'	2.60	0.49
29:D1:3079:U:H3'	29:D1:3080:G:H5''	1.94	0.49
29:D1:331:G:C2'	29:D1:332:C:H5''	2.43	0.49
29:D1:3341:U:O3'	29:D1:3343:G:N2	2.44	0.49
29:D1:3377:G:O2'	29:D1:3378:C:P	2.68	0.49
29:D1:3388:C:O5'	29:D1:3388:C:H6	1.95	0.49
29:D1:380:U:C4	29:D1:381:U:O4	2.65	0.49
29:D1:425:G:C6	29:D1:635:G:C6	3.00	0.49
29:D1:503:C:O2'	29:D1:504:A:H5'	2.12	0.49
29:D1:682:U:O5'	29:D1:683:U:OP2	2.30	0.49
29:D1:716:A:C8	29:D1:717:C:O4'	2.65	0.49
29:D1:774:G:C2'	29:D1:775:A:C5'	2.84	0.49
29:D1:848:A:C2	29:D1:849:C:H1'	2.47	0.49
29:D1:877:C:H2'	29:D1:878:G:C5'	2.42	0.49
29:D1:912:G:H21	29:D1:915:A:H62	1.59	0.49
29:D1:934:G:C4	29:D1:935:U:C6	3.01	0.49
31:D3:39:G:H4'	31:D3:40:A:H5''	1.94	0.49
31:D3:68:G:C5	31:D3:69:U:C5	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DB:183:GLY:C	33:DB:185:ALA:N	2.61	0.49
1:A1:737:A:N3	1:A1:738:G:C5	2.80	0.49
1:C1:228:G:C6	1:C1:229:U:N3	2.79	0.49
1:C1:848:C:N3	1:C1:849:C:C4	2.80	0.49
31:B3:53:A:C6	31:B3:54:A:C6	3.00	0.49
31:B3:67:U:H6	31:B3:67:U:OP2	1.95	0.49
31:B3:70:G:N7	31:B3:71:A:C6	2.79	0.49
31:B3:77:A:H4'	31:B3:78:G:OP1	2.11	0.49
1:A1:169:A:C5	1:A1:171:A:N6	2.81	0.49
1:A1:257:A:C2'	1:A1:258:C:C5'	2.87	0.49
29:D1:998:A:O2'	29:D1:999:G:H5'	2.12	0.49
30:D2:11:A:O3'	30:D2:68:C:H4'	2.11	0.49
1:C1:337:G:C5'	1:C1:338:C:C5	2.95	0.49
1:C1:341:A:C5	1:C1:342:C:C5	3.00	0.49
29:B1:2674:A:H1'	42:BK:108:GLU:CB	2.42	0.49
29:B1:2679:A:O4'	29:B1:2679:A:OP2	2.30	0.49
1:A1:753:A:C6	1:A1:754:A:N6	2.80	0.49
1:C1:1242:A:H4'	10:CI:78:THR:CA	2.40	0.49
1:C1:1241:G:N3	1:C1:1243:G:H8	2.09	0.49
1:C1:1586:A:C6	1:C1:1611:A:N3	2.81	0.49
1:C1:1517:U:O2	15:CN:16:GLN:C	2.51	0.49
1:A1:1455:G:C6	1:A1:1456:C:N3	2.80	0.49
1:A1:1575:G:C6	1:A1:1576:A:C5	3.01	0.49
1:A1:1591:C:C2'	1:A1:1592:A:H8	2.19	0.49
1:C1:1062:A:C2	1:C1:1063:U:H1'	2.47	0.49
4:CC:74:GLN:O	4:CC:75:LYS:C	2.50	0.49
29:B1:385:A:N3	29:B1:386:A:N7	2.60	0.49
29:B1:3228:C:C6	29:B1:3229:G:N7	2.79	0.49
29:D1:625:G:C2'	29:D1:626:U:O5'	2.59	0.49
29:B1:3189:G:C4	29:B1:3190:C:C6	3.00	0.49
30:D2:26:C:O2'	30:D2:27:A:O4'	2.30	0.49
29:D1:334:A:O2'	29:D1:335:G:O5'	2.29	0.49
29:D1:213:A:N3	29:D1:214:G:H1'	2.28	0.49
29:D1:392:G:N7	74:D1:3523:OHX:N1	2.60	0.49
29:B1:1264:G:N2	29:B1:1265:U:C5	2.80	0.49
29:D1:3171:U:C1'	29:D1:3172:A:OP2	2.55	0.49
29:B1:1526:U:O2'	29:B1:1595:U:H5'	2.13	0.49
30:D2:30:G:C2'	30:D2:31:U:O5'	2.60	0.49
30:D2:41:G:N3	30:D2:41:G:C2'	2.72	0.49
29:D1:69:C:C4	29:D1:70:A:H8	2.29	0.49
29:B1:1643:A:H5''	29:B1:1822:C:H5''	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AH:13:VAL:N	9:AH:14:PHE:CB	2.75	0.49
1:C1:1129:U:H3'	1:C1:1130:G:H8	1.76	0.49
29:D1:1919:G:N2	29:D1:1920:U:O2	2.46	0.49
29:D1:1927:G:N3	29:D1:1927:G:C3'	2.71	0.49
1:A1:359:A:N3	1:A1:359:A:OP1	2.45	0.49
9:CH:97:GLY:HA2	9:CH:100:ALA:HB3	1.94	0.49
29:B1:1340:G:C2	29:B1:1341:U:C4	3.01	0.49
11:AJ:91:ALA:H	11:AJ:97:VAL:CB	2.26	0.49
29:B1:1023:C:H3'	29:B1:1024:G:H5''	1.95	0.49
29:B1:2206:G:N2	29:B1:2207:A:C8	2.81	0.49
29:D1:1019:G:O6	29:D1:1033:U:O4	2.30	0.49
29:B1:840:C:O2'	29:B1:841:A:H5'	2.12	0.49
34:BC:62:ARG:C	34:BC:64:GLY:H	2.15	0.49
29:B1:1535:A:H5''	29:B1:1536:G:OP2	2.12	0.49
29:D1:2337:C:HO2'	29:D1:2338:C:H5'	1.78	0.49
48:BS:66:HIS:C	48:BS:68:GLN:N	2.66	0.49
1:A1:746:A:C6	1:A1:806:A:N1	2.81	0.49
11:CJ:48:VAL:C	11:CJ:50:GLU:H	2.15	0.49
29:D1:1724:U:H2'	29:D1:1725:C:H6	1.75	0.49
29:D1:668:G:H2'	29:D1:669:U:O4'	2.12	0.49
4:CC:174:HIS:O	4:CC:175:VAL:CB	2.61	0.49
41:DJ:155:ALA:O	41:DJ:158:LYS:O	2.29	0.49
8:AG:129:TYR:C	8:AG:132:VAL:H	2.13	0.49
7:CF:85:VAL:O	7:CF:86:ILE:O	2.30	0.49
21:AT:118:LYS:O	21:AT:119:ALA:HB2	2.13	0.49
34:BC:272:TYR:O	34:BC:273:HIS:C	2.50	0.49
45:BP:92:THR:O	45:BP:95:GLY:N	2.45	0.49
40:BI:73:SER:O	40:BI:74:LEU:C	2.50	0.49
29:D1:2471:U:H4'	32:DA:23:THR:N	2.27	0.49
44:DO:143:ARG:C	44:DO:146:ALA:HB2	2.33	0.49
29:B1:2413:A:O2'	29:B1:2414:G:H5'	2.13	0.49
33:DB:111:THR:HA	33:DB:134:VAL:HA	1.94	0.49
10:CI:86:VAL:CB	10:CI:87:PRO:CA	2.89	0.49
9:AH:39:ILE:O	9:AH:40:ALA:CB	2.59	0.49
29:D1:1760:A:C6	29:D1:1766:G:C5	3.00	0.49
33:BB:200:ARG:C	33:BB:202:VAL:H	2.14	0.49
11:CJ:108:ALA:C	11:CJ:110:THR:H	2.16	0.49
17:CP:95:PHE:O	17:CP:96:VAL:C	2.51	0.49
1:A1:1276:U:H5'	4:AC:147:ALA:HB2	1.93	0.49
39:DH:100:GLU:C	39:DH:102:ALA:N	2.64	0.49
39:DH:232:HIS:O	39:DH:233:TRP:CB	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BH:158:ASP:CA	39:BH:159:PRO:C	2.80	0.49
55:DZ:76:GLU:O	55:DZ:78:GLY:N	2.45	0.49
45:DP:24:ALA:HA	45:DP:27:LEU:CB	2.43	0.49
17:AP:118:PRO:O	17:AP:120:VAL:N	2.45	0.49
36:DE:289:LYS:C	36:DE:291:ALA:N	2.63	0.49
46:DQ:105:LYS:O	46:DQ:107:LEU:N	2.45	0.49
44:BO:100:ALA:O	44:BO:103:GLU:N	2.46	0.49
40:BI:135:GLU:O	40:BI:145:VAL:O	2.30	0.49
1:A1:100:A:N1	1:A1:101:U:C4	2.81	0.49
1:A1:100:A:H2'	1:A1:101:U:O4'	2.12	0.49
1:A1:1043:A:H2'	1:A1:1044:U:C6	2.47	0.49
1:A1:1092:A:N9	1:A1:1094:G:C8	2.79	0.49
1:A1:1636:C:N4	1:A1:1638:G:N2	2.60	0.49
1:A1:1747:G:H2'	1:A1:1748:G:H8	1.78	0.49
1:A1:635:A:C4	1:A1:863:A:N7	2.81	0.49
1:A1:865:A:N1	1:A1:965:U:O4	2.46	0.49
29:B1:1194:G:C4	29:B1:1309:U:C2	3.01	0.49
29:B1:1376:C:H5'	29:B1:1407:A:C6	2.48	0.49
29:B1:1515:A:C4	29:B1:1516:C:C5	3.00	0.49
29:B1:1587:A:C2	29:B1:1590:G:N9	2.81	0.49
29:B1:1847:A:C2	29:B1:1849:C:C2	3.01	0.49
29:B1:1908:A:C6	29:B1:1909:A:C6	3.01	0.49
29:B1:22:G:N3	29:B1:23:A:C8	2.79	0.49
29:B1:2374:C:C4	29:B1:2941:A:C4	3.00	0.49
29:B1:3137:C:H3'	29:B1:3138:U:H6	1.77	0.49
29:B1:3367:C:H2'	29:B1:3368:U:H5''	1.91	0.49
29:B1:543:C:H2'	29:B1:543:C:O2	2.12	0.49
29:B1:556:U:C5	29:B1:557:A:H2	2.30	0.49
29:B1:687:U:O2'	29:B1:688:G:H5'	2.12	0.49
29:B1:717:C:C5	29:B1:721:G:OP1	2.66	0.49
29:B1:721:G:C3'	29:B1:721:G:N3	2.72	0.49
29:B1:865:U:O4	29:B1:866:A:C5	2.64	0.49
38:BG:47:ARG:O	38:BG:49:ALA:C	2.51	0.49
47:BR:142:GLY:O	47:BR:143:PRO:CB	2.60	0.49
1:C1:624:G:C4	1:C1:1027:A:C2	3.01	0.49
1:C1:103:A:C5	1:C1:360:A:N1	2.80	0.49
1:C1:123:G:C6	1:C1:124:A:C5	3.01	0.49
1:C1:382:C:O2	1:C1:382:C:H2'	2.12	0.49
1:C1:388:G:N3	1:C1:389:G:C8	2.80	0.49
1:C1:559:C:H2'	1:C1:560:U:H6	1.78	0.49
1:C1:55:A:C5	1:C1:426:G:C6	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:613:G:H4'	1:C1:614:C:O5'	2.13	0.49
1:C1:64:U:H5'	1:C1:65:A:P	2.52	0.49
1:C1:629:U:O2	1:C1:971:A:C4	2.65	0.49
1:C1:975:C:H2'	1:C1:976:G:C8	2.45	0.49
29:D1:109:A:H1'	29:D1:110:G:H1'	1.94	0.49
29:D1:1300:G:O6	29:D1:1301:A:N6	2.46	0.49
29:D1:1168:U:O4	29:D1:1330:A:N7	2.45	0.49
29:D1:13:A:C2	29:D1:15:C:H2'	2.47	0.49
29:D1:1451:C:O2	29:D1:1451:C:H2'	2.11	0.49
29:D1:384:A:O4'	29:D1:1465:A:C8	2.65	0.49
29:D1:1489:A:H3'	29:D1:1490:A:H8	1.76	0.49
29:D1:1799:A:O2'	29:D1:1800:A:H5'	2.12	0.49
29:D1:1887:A:H4'	34:DC:227:GLU:HA	1.92	0.49
29:D1:2254:U:O2'	29:D1:2255:A:P	2.70	0.49
29:D1:2308:C:OP1	29:D1:2309:A:H2'	2.13	0.49
29:D1:2325:G:N3	29:D1:2326:A:C8	2.80	0.49
29:D1:2622:C:H2'	29:D1:2623:G:O4'	2.12	0.49
29:D1:2630:C:C4	29:D1:2649:A:N1	2.80	0.49
29:D1:2727:A:N1	29:D1:2729:U:H5	2.10	0.49
29:D1:3011:A:H1'	29:D1:3012:A:C4'	2.42	0.49
29:D1:3129:A:H2'	29:D1:3129:A:N3	2.26	0.49
29:D1:3150:A:C3'	29:D1:3151:U:C5'	2.84	0.49
29:D1:965:A:OP1	74:D1:3568:OHX:N3	2.45	0.49
29:D1:414:U:C2'	29:D1:415:G:H5'	2.43	0.49
29:D1:502:U:O2'	29:D1:503:C:H5'	2.12	0.49
29:D1:534:U:H5	29:D1:534:U:OP2	1.91	0.49
29:D1:543:C:C2'	29:D1:544:C:H5'	2.42	0.49
29:D1:580:C:H5''	29:D1:581:U:OP2	2.12	0.49
29:D1:764:U:OP2	29:D1:764:U:H6	1.94	0.49
29:D1:776:U:O5'	29:D1:777:U:H5''	2.12	0.49
29:D1:818:C:C2'	29:D1:819:U:H5'	2.41	0.49
29:D1:910:G:H3'	29:D1:911:C:H6	1.77	0.49
31:D3:14:C:C5	31:D3:15:G:N7	2.80	0.49
38:DG:49:ALA:O	38:DG:50:ALA:C	2.51	0.49
40:DI:69:ARG:O	40:DI:70:THR:C	2.50	0.49
48:DS:59:SER:O	48:DS:61:SER:N	2.38	0.49
1:A1:709:C:H2'	1:A1:710:U:O4'	2.11	0.49
1:C1:839:U:O2	1:C1:839:U:O4'	2.30	0.49
1:A1:203:U:C4'	1:A1:204:G:OP1	2.60	0.49
1:A1:63:G:C8	1:A1:63:G:OP1	2.66	0.49
30:D2:11:A:H8	30:D2:13:A:C2'	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:79:A:C2	30:D2:80:G:N9	2.80	0.49
30:D2:9:C:OP2	30:D2:9:C:H6	1.94	0.49
1:C1:1676:U:H2'	1:C1:1677:C:C6	2.48	0.49
1:C1:1720:G:C4	1:C1:1721:A:N9	2.81	0.49
45:DP:128:ARG:O	45:DP:129:LEU:O	2.31	0.49
1:A1:1689:A:N6	1:A1:1715:G:C2	2.81	0.49
1:A1:327:U:N3	1:A1:328:A:N7	2.61	0.49
1:C1:1230:A:OP1	1:C1:1256:A:H5'	2.13	0.49
1:C1:1348:A:C8	1:C1:1349:G:H5'	2.48	0.49
1:C1:1351:G:C6	1:C1:1352:G:C5	3.00	0.49
1:C1:1429:G:C5	1:C1:1430:U:C5	3.00	0.49
1:C1:1532:U:H2'	1:C1:1533:C:H6	1.78	0.49
1:C1:1561:U:H2'	1:C1:1562:G:H8	1.77	0.49
1:C1:1585:U:N3	1:C1:1611:A:C2	2.80	0.49
1:A1:1204:A:C5	1:A1:1205:C:N3	2.80	0.49
1:A1:1227:A:C8	1:A1:1229:G:OP2	2.66	0.49
1:A1:1378:U:H3'	1:A1:1379:C:C4'	2.42	0.49
1:A1:1584:G:H3'	1:A1:1584:G:N3	2.28	0.49
1:A1:1584:G:N1	11:AJ:125:GLU:N	2.61	0.49
1:A1:1620:C:H2'	1:A1:1620:C:O2	2.12	0.49
1:C1:1051:G:H2'	1:C1:1052:U:C2	2.48	0.49
30:B2:87:G:C2	30:B2:95:A:C6	3.00	0.49
29:B1:1461:A:C6	29:B1:1462:A:C5	3.00	0.49
31:D3:16:G:O6	74:D3:202:OHX:N5	2.46	0.49
30:B2:30:G:C5	30:B2:31:U:C2	3.00	0.49
29:D1:187:A:C1'	29:D1:211:A:N6	2.69	0.49
29:D1:396:A:O2'	29:D1:397:A:P	2.71	0.49
30:B2:26:C:HO2'	30:B2:27:A:C4'	2.25	0.49
30:D2:48:U:C6	30:D2:49:G:C6	3.01	0.49
1:C1:415:C:O2	1:C1:419:G:C2	2.65	0.49
1:C1:416:A:H5'	1:C1:417:A:N7	2.28	0.49
20:AS:49:ASP:N	20:AS:50:ILE:CA	2.41	0.49
29:B1:338:A:H3'	29:B1:339:C:C5'	2.43	0.49
1:A1:1285:U:C2	1:A1:1286:U:H5	2.30	0.49
1:C1:1328:G:OP2	1:C1:1330:G:O6	2.30	0.49
29:B1:3262:U:C2	29:B1:3263:G:C8	3.01	0.49
1:A1:948:G:H2'	1:A1:949:C:H6	1.75	0.49
1:A1:947:U:H2'	1:A1:948:G:O4'	2.12	0.49
29:D1:2594:C:H2'	29:D1:2595:A:H8	1.76	0.49
29:D1:125:C:N4	74:D1:3447:OHX:N3	2.58	0.49
21:CT:169:ILE:O	21:CT:180:ALA:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1292:G:C4	1:A1:1293:U:C5	3.00	0.49
1:A1:1580:C:H2'	1:A1:1581:C:H6	1.71	0.49
1:A1:778:G:N2	1:A1:783:G:C4	2.80	0.49
5:AD:166:ARG:O	5:AD:168:VAL:N	2.45	0.49
29:D1:836:A:C1'	29:D1:858:A:C2	2.91	0.49
29:B1:3268:A:H1'	29:B1:3269:U:OP1	2.11	0.49
34:BC:159:ARG:HA	34:BC:181:ILE:O	2.12	0.49
29:B1:603:A:O5'	29:B1:603:A:C8	2.66	0.49
5:AD:64:VAL:CA	5:AD:89:ILE:HA	2.40	0.49
3:CB:126:ARG:C	3:CB:128:GLY:N	2.65	0.49
29:D1:1358:C:H2'	29:D1:1359:C:H6	1.77	0.49
29:D1:2554:A:C2	33:DB:85:GLY:O	2.65	0.49
29:D1:1400:G:C2	29:D1:1401:A:C8	3.01	0.49
35:BD:84:ARG:C	35:BD:86:GLY:H	2.14	0.49
43:DN:82:SER:O	43:DN:83:LYS:C	2.49	0.49
38:BG:224:ILE:O	38:BG:226:GLY:N	2.46	0.49
5:AD:133:VAL:O	5:AD:136:ALA:HB3	2.13	0.49
38:BG:199:ASN:C	38:BG:201:PHE:N	2.65	0.49
29:B1:2976:A:O5'	29:B1:2976:A:H8	1.96	0.49
29:D1:2400:G:O2'	29:D1:2401:A:H5''	2.13	0.49
45:BP:106:GLU:C	45:BP:107:GLY:O	2.48	0.49
38:DG:22:THR:C	38:DG:24:GLU:H	2.15	0.49
39:BH:123:GLN:HA	39:BH:126:SER:CB	2.42	0.49
35:BD:207:VAL:O	35:BD:225:VAL:HA	2.13	0.49
29:B1:2175:U:H4'	29:B1:2176:U:OP2	2.12	0.49
4:CC:121:GLY:O	4:CC:124:ARG:N	2.45	0.49
6:AE:90:LYS:HA	6:AE:91:LYS:CB	2.42	0.49
1:A1:1136:U:H2'	1:A1:1137:A:H5'	1.94	0.49
1:A1:1146:G:C6	1:A1:1147:A:C5	3.01	0.49
1:A1:43:A:H4'	1:A1:99:C:P	2.53	0.49
1:A1:520:A:C5	1:A1:521:A:N7	2.80	0.49
1:A1:555:A:H4'	1:A1:556:A:OP2	2.09	0.49
29:B1:1110:U:H2'	29:B1:1110:U:O2	2.12	0.49
29:B1:1109:U:H3'	29:B1:1110:U:H6	1.78	0.49
29:B1:1117:G:H2'	29:B1:1118:C:H6	1.76	0.49
29:B1:1285:G:C2'	29:B1:1286:A:O5'	2.59	0.49
29:B1:1366:A:C2	29:B1:1367:G:C5	3.00	0.49
29:B1:1394:A:C3'	29:B1:1394:A:C8	2.96	0.49
29:B1:1678:G:C4'	29:B1:1756:C:H4'	2.43	0.49
29:B1:2198:A:O2'	29:B1:2199:G:H5'	2.13	0.49
29:B1:2255:A:N1	29:B1:2258:U:H5''	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2311:G:H2'	29:B1:2312:A:O5'	2.13	0.49
29:B1:2856:G:C2	29:B1:2857:C:C4	3.00	0.49
29:B1:2357:A:C2	29:B1:2983:C:H5	2.31	0.49
29:B1:3044:G:C6	29:B1:3098:G:C6	3.01	0.49
29:B1:311:C:C4	29:B1:312:C:C4	3.00	0.49
29:B1:3142:A:O2'	29:B1:3143:C:OP1	2.21	0.49
29:B1:327:A:C8	29:B1:327:A:H5'	2.48	0.49
29:B1:346:C:H5	29:B1:348:A:H5''	1.77	0.49
29:B1:40:A:C3'	29:B1:41:G:C5'	2.91	0.49
29:B1:656:A:C6	29:B1:1440:G:N1	2.80	0.49
29:B1:88:A:O5'	29:B1:88:A:H8	1.95	0.49
31:B3:9:A:H5'	31:B3:10:A:OP2	2.13	0.49
34:BC:132:LYS:C	34:BC:134:SER:N	2.65	0.49
43:BN:73:PRO:O	43:BN:74:ARG:C	2.51	0.49
1:C1:102:U:O4	1:C1:360:A:C2'	2.54	0.49
1:C1:1086:A:H5'	3:CB:164:SER:CB	2.42	0.49
1:C1:1148:C:C2	1:C1:1149:G:O6	2.65	0.49
1:C1:1729:C:H3'	1:C1:1730:A:H8	1.77	0.49
1:C1:192:U:N3	1:C1:195:G:O6	2.44	0.49
1:C1:198:A:O2'	1:C1:199:G:C8	2.53	0.49
1:C1:272:U:H1'	1:C1:273:G:OP1	2.11	0.49
1:C1:607:G:H4'	1:C1:608:U:H5'	1.94	0.49
1:C1:614:C:C4	1:C1:615:A:N7	2.81	0.49
29:D1:114:A:C2	29:D1:267:G:C4	3.00	0.49
29:D1:1198:C:H2'	29:D1:1200:A:C8	2.48	0.49
29:D1:1378:U:H2'	29:D1:1378:U:O2	2.12	0.49
29:D1:1511:U:H3'	29:D1:1512:U:H6	1.78	0.49
29:D1:159:A:C2'	29:D1:160:G:H5'	2.43	0.49
29:D1:1514:G:C8	29:D1:1841:A:C2	3.00	0.49
29:D1:1911:A:O4'	29:D1:2333:C:O2'	2.23	0.49
29:D1:20:A:C4'	29:D1:21:G:OP1	2.59	0.49
29:D1:2223:A:O2'	29:D1:2224:A:O5'	2.30	0.49
29:D1:2243:A:N1	29:D1:2313:A:C5	2.80	0.49
29:D1:2255:A:C2	29:D1:2260:U:O4	2.66	0.49
29:D1:2276:G:N7	29:D1:2277:C:C5	2.81	0.49
29:D1:2333:C:H2'	29:D1:2334:U:O4'	2.13	0.49
29:D1:2626:A:N7	29:D1:2644:C:H5'	2.28	0.49
29:D1:2876:C:H2'	29:D1:2877:G:H5'	1.95	0.49
29:D1:3012:A:C4	29:D1:3013:U:C5	3.01	0.49
29:D1:3019:U:H2'	29:D1:3019:U:O2	2.11	0.49
29:D1:3046:A:C5	29:D1:3047:U:C4	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3047:U:C2'	29:D1:3048:A:H5''	2.42	0.49
29:D1:304:G:O2'	54:DY:61:PHE:CB	2.61	0.49
29:D1:3056:U:N3	29:D1:3056:U:OP1	2.44	0.49
29:D1:1896:A:C2	29:D1:3093:C:C5	3.01	0.49
29:D1:3105:U:C6	29:D1:3106:A:N7	2.81	0.49
29:D1:3308:C:H5	29:D1:3309:G:C4	2.20	0.49
29:D1:3331:U:H2'	29:D1:3332:U:H5'	1.95	0.49
29:D1:3343:G:C5	29:D1:3344:A:N6	2.81	0.49
29:D1:535:G:OP2	74:D1:3456:OHX:N6	2.46	0.49
29:D1:383:G:C2	29:D1:387:A:C6	3.00	0.49
29:D1:389:A:H5'	46:DQ:17:ALA:HA	1.95	0.49
29:D1:528:U:O2	29:D1:529:A:C8	2.66	0.49
29:D1:547:G:C2'	29:D1:548:G:H5'	2.43	0.49
29:D1:571:U:H2'	29:D1:571:U:O2	2.11	0.49
29:D1:643:U:O5'	29:D1:643:U:H6	1.96	0.49
29:D1:64:G:H1'	29:D1:77:A:C2	2.47	0.49
29:D1:743:C:C3'	29:D1:743:C:C6	2.96	0.49
29:D1:778:U:H2'	29:D1:779:G:H5'	1.95	0.49
29:D1:812:G:C4	29:D1:813:G:C8	3.00	0.49
29:D1:830:A:C4	29:D1:865:U:O2	2.66	0.49
29:D1:89:A:N6	29:D1:98:G:C2	2.81	0.49
31:D3:106:C:H1'	31:D3:107:G:OP2	2.13	0.49
31:D3:10:A:C2	31:D3:11:C:C6	3.01	0.49
31:D3:53:A:N6	31:D3:54:A:C6	2.81	0.49
33:DB:221:LYS:O	33:DB:222:ALA:HB2	2.13	0.49
35:DD:75:PRO:O	35:DD:88:GLY:HA2	2.12	0.49
38:DG:69:ALA:C	38:DG:71:ALA:N	2.66	0.49
1:A1:837:G:H2'	1:A1:838:G:C8	2.47	0.49
1:A1:838:G:C6	1:A1:839:U:C4	3.00	0.49
1:C1:227:U:O2'	1:C1:228:G:OP2	2.22	0.49
1:A1:651:G:C2	1:A1:684:A:N7	2.81	0.49
29:B1:2625:C:O2	29:B1:2627:C:C5	2.66	0.49
31:B3:92:A:C2'	31:B3:92:A:N3	2.73	0.49
1:A1:141:U:O2	1:A1:141:U:O4'	2.30	0.49
1:C1:1724:U:O4	74:C1:1944:OHX:N4	2.45	0.49
1:C1:302:U:C4	1:C1:303:U:O2	2.64	0.49
1:C1:335:U:C5'	1:C1:336:G:OP2	2.61	0.49
1:A1:244:A:H2'	1:A1:245:U:C6	2.47	0.49
1:A1:796:A:C2'	1:A1:797:G:H5'	2.43	0.49
1:C1:1170:G:N3	1:C1:1170:G:H2'	2.28	0.49
1:C1:1522:U:HO2'	1:C1:1523:G:P	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1524:A:H2'	1:C1:1525:A:H8	1.60	0.49
1:C1:1540:G:H2'	1:C1:1541:G:H8	1.77	0.49
1:C1:1589:C:H2'	1:C1:1590:G:O4'	2.12	0.49
1:A1:1268:G:H1'	1:A1:1448:G:H5''	1.95	0.49
11:AJ:10:PHE:N	11:AJ:18:ALA:O	2.46	0.49
29:B1:3218:A:C3'	29:B1:3220:G:OP2	2.61	0.49
1:C1:160:C:HO2'	1:C1:161:U:P	2.36	0.49
30:D2:23:A:N7	30:D2:24:A:N7	2.60	0.49
29:B1:1237:G:H5''	29:B1:1238:C:H6	1.78	0.49
29:B1:1282:G:O2'	29:B1:1283:C:H5'	2.11	0.49
29:D1:3260:G:C2'	29:D1:3260:G:N3	2.74	0.49
29:D1:3381:U:N3	29:D1:3383:G:C6	2.80	0.49
30:B2:55:A:O2'	30:B2:56:A:O4'	2.31	0.49
29:B1:2771:U:H2'	29:B1:2772:C:O4'	2.13	0.49
1:A1:1219:A:C5'	1:A1:1220:C:C5	2.84	0.49
36:BE:107:ARG:O	36:BE:110:LEU:O	2.30	0.49
29:D1:1235:U:H4'	29:D1:1236:G:OP1	2.11	0.49
29:B1:337:G:H21	35:BD:50:TYR:CB	2.25	0.49
29:B1:847:A:C4	29:B1:848:A:N7	2.81	0.49
1:C1:1421:A:H2'	1:C1:1421:A:N3	2.26	0.49
29:B1:1066:G:H2'	29:B1:1067:U:C6	2.48	0.49
29:B1:1084:A:C6	29:B1:1085:A:C6	3.01	0.49
1:A1:1648:A:H2'	1:A1:1649:G:O4'	2.12	0.49
29:D1:2104:A:C2'	29:D1:2105:G:H5''	2.43	0.49
1:A1:1316:G:HO2'	1:A1:1401:A:HO2'	1.60	0.49
1:A1:1419:G:C2'	1:A1:1420:C:O5'	2.61	0.49
1:A1:1420:C:H3'	1:A1:1420:C:C6	2.47	0.49
1:C1:1091:A:OP2	1:C1:1091:A:H8	1.95	0.49
1:C1:915:A:C8	1:C1:915:A:OP2	2.62	0.49
1:C1:919:A:H2'	1:C1:920:U:C6	2.48	0.49
29:D1:1013:G:H3'	29:D1:1014:U:O3'	2.11	0.49
29:D1:2735:U:O2'	29:D1:2736:A:H5'	2.11	0.49
1:A1:1737:G:C6	1:A1:1738:U:C4	3.01	0.49
29:D1:1928:G:N7	29:D1:1929:G:N7	2.60	0.49
36:BE:43:LYS:HA	49:BT:70:SER:H	1.77	0.49
29:D1:1715:A:C8	29:D1:1716:U:H5''	2.47	0.49
29:B1:1931:U:C2	29:B1:2121:G:N3	2.80	0.49
1:A1:783:G:C2'	1:A1:784:C:O5'	2.61	0.49
1:C1:1665:U:O2	1:C1:1665:U:H2'	2.12	0.49
5:CD:117:THR:CB	5:CD:191:ALA:HB1	2.43	0.49
1:A1:773:C:O2	1:A1:774:A:C8	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BE:236:LEU:O	36:BE:237:GLU:C	2.51	0.49
29:D1:3180:A:N1	45:DP:166:GLU:CB	2.75	0.49
29:B1:1542:G:C2	29:B1:1543:G:C5	3.00	0.49
13:AL:79:TYR:O	13:AL:80:LYS:CB	2.59	0.49
29:D1:1047:A:C2'	29:D1:1048:A:H5'	2.43	0.49
29:D1:2155:G:H2'	29:D1:2156:C:H6	1.73	0.49
14:CM:58:ALA:H	14:CM:60:SER:H	1.61	0.49
29:D1:2555:G:C1'	29:D1:2556:C:P	3.00	0.49
1:C1:706:A:N6	1:C1:732:G:N3	2.60	0.49
1:C1:569:C:C2'	1:C1:570:A:O5'	2.61	0.49
1:C1:563:U:C5'	1:C1:564:G:OP2	2.60	0.49
29:B1:1868:G:C6	29:B1:1869:C:C4	3.00	0.49
44:DO:146:ALA:C	44:DO:148:TYR:N	2.65	0.49
29:B1:1765:U:O5'	29:B1:1765:U:H6	1.95	0.49
40:BI:170:LYS:O	40:BI:172:ILE:N	2.45	0.49
41:DJ:56:GLU:O	41:DJ:57:LEU:C	2.50	0.49
29:D1:2722:U:H2'	29:D1:2723:U:H6	1.77	0.49
29:B1:242:C:H2'	29:B1:243:G:O5'	2.12	0.49
29:B1:167:U:H2'	29:B1:168:U:H6	1.78	0.49
34:DC:319:ASN:O	34:DC:320:ASP:CB	2.60	0.49
14:AM:118:PRO:O	14:AM:119:LYS:O	2.30	0.49
29:B1:1360:C:O2	29:B1:1360:C:H2'	2.12	0.49
52:DW:129:ASP:O	52:DW:130:TYR:C	2.51	0.49
46:DQ:108:ASP:O	46:DQ:110:THR:N	2.46	0.49
29:D1:1381:A:C2	29:D1:1426:C:C2	3.01	0.49
29:D1:1573:G:H3'	29:D1:1574:C:H6	1.78	0.49
1:A1:1035:G:C2'	1:A1:1036:A:O4'	2.59	0.49
1:A1:1631:A:C6	1:A1:1632:C:C2	3.01	0.49
1:A1:1776:A:C6	1:A1:1786:G:O6	2.65	0.49
1:A1:22:A:N1	1:A1:604:A:C6	2.81	0.49
1:A1:555:A:OP2	1:A1:555:A:C3'	2.55	0.49
1:A1:862:A:N9	1:A1:963:A:N6	2.59	0.49
29:B1:1119:C:C3'	29:B1:1120:A:H8	2.26	0.49
29:B1:1480:G:N3	29:B1:1480:G:H2'	2.28	0.49
29:B1:1523:U:H5''	29:B1:1834:U:H5	1.77	0.49
29:B1:1561:G:O2'	29:B1:1562:C:H5'	2.13	0.49
29:B1:1658:G:N1	29:B1:1796:G:O6	2.45	0.49
29:B1:1851:G:C6	29:B1:1852:G:N7	2.81	0.49
29:B1:1895:A:C2	29:B1:2335:G:O6	2.66	0.49
29:B1:1943:C:C5'	29:B1:3344:A:H5'	2.42	0.49
29:B1:22:G:H2'	29:B1:23:A:H8	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2340:U:C2'	29:B1:2341:A:H5'	2.43	0.49
29:B1:2426:U:H2'	29:B1:2427:U:C6	2.48	0.49
29:B1:2851:A:H5''	29:B1:2851:A:C8	2.47	0.49
29:B1:2403:G:O4'	29:B1:2872:A:N7	2.46	0.49
29:B1:3069:G:C6	29:B1:3070:A:N7	2.80	0.49
29:B1:3152:U:H4'	29:B1:3294:A:O4'	2.13	0.49
29:B1:3157:U:H3	29:B1:3293:U:C1'	2.25	0.49
29:B1:3366:G:C2	29:B1:3367:C:C4	3.01	0.49
29:B1:413:U:O5'	29:B1:413:U:H6	1.96	0.49
29:B1:431:U:H5'	29:B1:431:U:H6	1.77	0.49
29:B1:504:A:H2'	29:B1:505:G:C5'	2.42	0.49
29:B1:516:A:O5'	29:B1:517:G:OP1	2.29	0.49
29:B1:592:A:C4	29:B1:593:C:N1	2.80	0.49
29:B1:637:C:C6	29:B1:638:C:C5	3.01	0.49
29:B1:727:G:H4'	29:B1:727:G:OP1	2.13	0.49
29:B1:739:G:C4	29:B1:740:G:N7	2.81	0.49
29:B1:774:G:C2'	29:B1:775:A:C5'	2.85	0.49
29:B1:780:A:C2	29:B1:781:G:C4	3.00	0.49
29:B1:877:C:C6	29:B1:877:C:H3'	2.47	0.49
31:B3:115:C:H2'	31:B3:116:G:O5'	2.12	0.49
31:B3:1:A:N1	31:B3:2:A:C4	2.80	0.49
35:BD:10:SER:HA	35:BD:17:ALA:N	2.25	0.49
35:BD:9:HIS:O	35:BD:17:ALA:CB	2.61	0.49
35:BD:8:VAL:O	35:BD:17:ALA:HB3	2.13	0.49
1:C1:1008:G:H5'	1:C1:1009:U:OP2	2.11	0.49
1:C1:1030:A:C3'	1:C1:1031:U:H5'	2.38	0.49
1:C1:1112:G:N2	1:C1:1134:C:N3	2.60	0.49
1:C1:1139:A:H2'	1:C1:1140:G:O4'	2.13	0.49
1:C1:1644:C:OP2	1:C1:1644:C:H3'	2.13	0.49
1:C1:201:G:O2'	1:C1:202:A:H5'	2.13	0.49
1:C1:521:A:H5'	1:C1:522:U:OP1	2.12	0.49
1:C1:15:U:O4'	1:C1:619:A:C2	2.66	0.49
1:C1:874:C:H2'	1:C1:875:G:C8	2.48	0.49
1:C1:57:G:C5	1:C1:91:G:C2	3.01	0.49
1:C1:960:U:C2'	1:C1:961:U:H5'	2.42	0.49
1:C1:993:A:H2'	1:C1:994:G:C5'	2.42	0.49
29:D1:1109:U:H3'	29:D1:1110:U:H6	1.77	0.49
29:D1:953:G:N7	29:D1:1117:G:C8	2.80	0.49
29:D1:1130:A:C8	29:D1:1130:A:C5'	2.95	0.49
29:D1:1166:G:C3'	29:D1:1167:U:H5''	2.41	0.49
29:D1:384:A:N3	29:D1:1465:A:C6	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1509:A:C6	29:D1:1510:G:C2	3.00	0.49
29:D1:1595:U:OP1	29:D1:1595:U:H4'	2.10	0.49
29:D1:2111:G:H22	51:DV:50:ALA:N	2.10	0.49
29:D1:2185:G:C4	29:D1:2186:U:C5	3.00	0.49
29:D1:20:A:O2'	29:D1:21:G:C5'	2.60	0.49
29:D1:2279:A:C4'	29:D1:2280:A:H5'	2.40	0.49
29:D1:2299:A:H2'	29:D1:2300:G:O5'	2.13	0.49
29:D1:1881:A:C6	29:D1:2352:A:N6	2.80	0.49
29:D1:1447:G:O2'	29:D1:2355:G:N1	2.45	0.49
29:D1:1448:U:OP2	29:D1:2355:G:N2	2.44	0.49
29:D1:2609:A:C4	29:D1:2610:G:C8	3.01	0.49
29:D1:2821:C:C6	29:D1:2821:C:H3'	2.48	0.49
29:D1:271:C:C5	29:D1:295:A:N7	2.80	0.49
29:D1:3032:A:N6	29:D1:3033:A:N1	2.60	0.49
29:D1:3086:A:H2'	29:D1:3087:A:C8	2.47	0.49
29:D1:382:U:C6	29:D1:383:G:O4'	2.66	0.49
29:D1:525:C:O2'	29:D1:526:C:H5'	2.13	0.49
29:D1:564:G:H3'	29:D1:565:U:H6	1.67	0.49
29:D1:812:G:H2'	29:D1:813:G:H8	1.78	0.49
29:D1:943:U:C1'	29:D1:1432:C:C6	2.96	0.49
29:D1:8:C:C2	29:D1:9:U:C5	2.99	0.49
31:D3:14:C:H5''	31:D3:15:G:OP2	2.12	0.49
31:D3:40:A:O2'	31:D3:41:A:P	2.70	0.49
1:C1:832:U:C3'	1:C1:833:U:H5''	2.41	0.49
1:A1:659:C:OP2	1:A1:659:C:H3'	2.13	0.49
1:C1:747:C:H2'	1:C1:748:U:H6	1.76	0.49
29:B1:1056:U:C4	29:B1:1057:A:C5	3.00	0.49
29:B1:2761:G:C2	29:B1:2795:U:C6	3.00	0.49
30:B2:11:A:H8	30:B2:13:A:C2'	2.24	0.49
30:B2:75:G:P	74:B2:201:OHX:N2	2.86	0.49
30:B2:71:G:C2	30:B2:108:A:C2	3.00	0.49
31:B3:53:A:N6	31:B3:54:A:C6	2.81	0.49
31:B3:79:A:H2'	31:B3:80:A:O4'	2.13	0.49
1:A1:148:A:N6	1:A1:167:U:C2	2.80	0.49
30:D2:62:U:H3'	30:D2:63:A:H8	1.76	0.49
30:D2:68:C:O2'	30:D2:69:C:H4'	2.13	0.49
1:C1:111:U:H2'	1:C1:111:U:O2	2.12	0.49
1:C1:1691:A:N7	1:C1:1692:G:C4	2.80	0.49
1:A1:1678:A:C2	1:A1:1725:U:N3	2.63	0.49
1:C1:1165:G:C6	1:C1:1166:A:C6	3.00	0.49
1:C1:1466:G:C5	1:C1:1467:C:C5	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1479:A:C3'	1:C1:1480:G:H5''	2.43	0.49
1:C1:1497:U:O4	1:C1:1511:U:C2	2.66	0.49
1:A1:1428:G:O5'	1:A1:1429:G:OP2	2.31	0.49
1:A1:1455:G:C2	1:A1:1456:C:O2	2.65	0.49
1:A1:1492:A:H1'	1:A1:1493:A:O5'	2.12	0.49
1:A1:1536:G:C4	1:A1:1538:U:O2	2.65	0.49
1:A1:1540:G:H2'	1:A1:1541:G:H5'	1.94	0.49
1:A1:1571:C:C3'	1:A1:1572:G:H5''	2.41	0.49
29:B1:617:G:H2'	29:B1:618:C:O5'	2.12	0.49
1:C1:1062:A:H2'	1:C1:1063:U:O4'	2.13	0.49
29:D1:3198:U:O2	29:D1:3199:G:N7	2.46	0.49
74:D1:3597:OHX:N6	43:DN:92:GLU:O	2.45	0.49
30:D2:54:U:H4'	30:D2:55:A:O5'	2.12	0.49
30:B2:38:U:O2'	30:B2:40:C:C5'	2.59	0.49
30:B2:37:G:C2	30:B2:45:A:N1	2.80	0.49
29:D1:189:G:N3	29:D1:191:U:O4	2.46	0.49
30:B2:27:A:C6	30:B2:54:U:O4	2.66	0.49
30:D2:43:U:C2	30:D2:44:C:C6	3.00	0.49
29:D1:1257:C:C4	29:D1:1258:U:C4	3.00	0.49
29:D1:1260:A:H1'	29:D1:1280:C:C1'	2.42	0.49
72:DL:94:LYS:O	72:DL:96:LYS:N	2.41	0.49
29:D1:1623:G:H3'	29:D1:1624:G:C8	2.45	0.49
29:B1:2173:U:C6	29:B1:2174:G:C8	3.00	0.49
1:C1:1308:G:C4	1:C1:1309:C:C5	3.01	0.49
2:CA:8:ASP:C	2:CA:10:THR:H	2.16	0.49
29:D1:3144:G:OP1	29:D1:3145:C:OP2	2.31	0.49
29:D1:2204:C:C2'	29:D1:2205:U:H5''	2.42	0.49
29:D1:2210:G:C6	29:D1:2236:G:N2	2.81	0.49
1:C1:1750:A:C4	1:C1:1751:C:C6	3.00	0.49
29:D1:2131:A:C3'	29:D1:2131:A:C8	2.96	0.49
1:A1:1418:G:N7	74:A1:1902:OHX:N5	2.61	0.49
29:D1:5:G:O6	29:D1:6:A:C6	2.66	0.49
29:B1:2105:G:C5'	29:B1:2105:G:C8	2.96	0.49
29:D1:1352:A:C3'	29:D1:1353:U:H4'	2.41	0.49
29:D1:1714:A:C6	29:D1:1728:G:C6	3.00	0.49
29:D1:836:A:H2'	29:D1:836:A:N3	2.26	0.49
1:A1:787:G:H3'	1:A1:788:A:C8	2.48	0.49
29:B1:1421:G:N2	29:B1:1422:G:C4	2.80	0.49
1:C1:1435:G:H4'	1:C1:1436:A:H5'	1.95	0.49
29:D1:2890:A:C5	29:D1:2891:U:C4	3.00	0.49
29:B1:661:G:C6	29:B1:802:C:C5	2.99	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2561:A:C8	29:B1:2561:A:OP1	2.66	0.49
1:A1:133:U:H4'	1:A1:134:U:OP2	2.13	0.49
1:C1:719:U:H1'	1:C1:720:G:O5'	2.12	0.49
29:D1:2554:A:H2	33:DB:85:GLY:C	2.15	0.49
1:A1:809:A:C6	1:A1:810:G:C6	3.01	0.49
1:A1:1305:U:H3'	1:A1:1306:C:O2	2.12	0.49
6:CE:106:GLU:O	6:CE:108:ARG:N	2.45	0.49
29:B1:2732:G:C5	29:B1:2733:A:C5	3.00	0.49
47:DR:110:ALA:O	47:DR:113:LYS:N	2.45	0.49
9:CH:52:ARG:CB	9:CH:53:ASP:HA	2.41	0.49
6:AE:130:THR:O	6:AE:131:GLN:C	2.50	0.49
74:B1:3544:OHX:N6	74:B1:3617:OHX:N3	2.61	0.49
6:AE:106:GLU:O	6:AE:108:ARG:N	2.45	0.49
15:AN:28:SER:O	15:AN:87:HIS:O	2.30	0.49
51:DV:18:GLY:HA3	51:DV:32:GLN:HA	1.92	0.49
15:AN:97:VAL:C	15:AN:99:ILE:N	2.65	0.49
39:BH:109:LEU:O	39:BH:110:THR:CB	2.60	0.49
40:BI:104:VAL:CB	40:BI:105:GLU:HA	2.42	0.49
21:CT:27:ALA:HB2	21:CT:296:ALA:CB	2.43	0.49
8:CG:91:LEU:O	8:CG:95:ALA:HB3	2.12	0.49
1:A1:1211:A:C6	1:A1:1212:G:N7	2.81	0.49
53:BX:89:LYS:C	53:BX:91:ASN:N	2.66	0.49
8:CG:77:SER:C	8:CG:79:GLY:N	2.66	0.49
41:DJ:42:THR:C	41:DJ:44:ASP:H	2.16	0.49
37:BF:52:VAL:O	37:BF:66:SER:CB	2.60	0.49
29:D1:1397:C:N4	29:D1:1398:U:O4	2.46	0.49
36:BE:216:GLU:C	36:BE:219:PHE:H	2.15	0.49
1:A1:1066:C:C2	1:A1:1067:C:C6	3.01	0.49
1:A1:1144:U:C1'	1:A1:1300:A:C2	2.96	0.49
1:A1:1633:A:C1'	1:A1:1634:C:OP2	2.60	0.49
1:A1:475:A:C2	1:A1:476:U:O2	2.66	0.49
1:A1:624:G:C5	1:A1:625:C:C5	3.00	0.49
1:A1:856:A:H3'	1:A1:857:U:C5'	2.41	0.49
1:A1:978:A:C8	1:A1:978:A:OP2	2.66	0.49
29:B1:1120:A:C5'	29:B1:1121:U:OP2	2.51	0.49
29:B1:1133:A:O2'	29:B1:1134:G:H5'	2.13	0.49
29:B1:1178:G:N7	29:B1:1179:A:C4	2.81	0.49
29:B1:1198:C:OP2	29:B1:1198:C:H2'	2.12	0.49
29:B1:1224:C:N4	29:B1:1286:A:C4	2.81	0.49
29:B1:1331:U:C4'	29:B1:1332:A:OP2	2.50	0.49
29:B1:1366:A:C2'	29:B1:1367:G:H5'	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1379:G:H5''	29:B1:1380:G:OP2	2.13	0.49
29:B1:1520:G:N2	29:B1:1521:G:C4	2.80	0.49
29:B1:1608:C:N3	29:B1:1609:C:C5	2.80	0.49
29:B1:159:A:C2'	29:B1:160:G:H5'	2.42	0.49
29:B1:2143:A:O2'	29:B1:2144:A:H5'	2.12	0.49
29:B1:2155:G:C6	29:B1:2156:C:N4	2.81	0.49
29:B1:2167:A:C3'	29:B1:2168:A:C8	2.93	0.49
29:B1:2182:A:N3	29:B1:2183:A:C8	2.81	0.49
29:B1:2249:G:H2'	29:B1:2250:G:H1'	1.92	0.49
29:B1:2369:G:C6	29:B1:2370:G:N1	2.81	0.49
29:B1:2423:U:C2'	29:B1:2424:A:OP2	2.61	0.49
29:B1:2948:C:O2'	29:B1:2949:U:O4'	2.25	0.49
29:B1:3012:A:C5	29:B1:3013:U:H5	2.30	0.49
29:B1:3054:U:H6	29:B1:3054:U:OP2	1.95	0.49
29:B1:3294:A:C5	29:B1:3295:A:C8	3.00	0.49
29:B1:3321:C:N1	29:B1:3322:A:C8	2.81	0.49
29:B1:3392:U:C2	29:B1:3393:U:N3	2.79	0.49
29:B1:3394:U:O2'	29:B1:3395:G:H8	1.95	0.49
29:B1:363:G:H2'	29:B1:364:G:C5'	2.20	0.49
29:B1:543:C:C2'	29:B1:544:C:H5'	2.43	0.49
29:B1:560:G:C8	29:B1:560:G:H5''	2.47	0.49
29:B1:561:C:H2'	29:B1:562:C:C6	2.48	0.49
29:B1:60:A:N7	29:B1:61:A:C8	2.81	0.49
29:B1:824:C:H2'	29:B1:825:U:H6	1.68	0.49
29:B1:934:G:C4	29:B1:935:U:C6	3.00	0.49
31:B3:104:A:C8	31:B3:105:A:C8	3.00	0.49
29:B1:21:G:N2	31:B3:37:A:C8	2.81	0.49
29:B1:3010:U:O4'	34:BC:15:GLY:CA	2.61	0.49
35:BD:16:THR:CB	35:BD:17:ALA:CA	2.87	0.49
38:BG:40:LYS:O	38:BG:43:ILE:CB	2.61	0.49
1:C1:1075:C:N4	1:C1:1076:A:H61	2.11	0.49
1:C1:1672:G:C2	1:C1:1673:G:C6	3.01	0.49
1:C1:1673:G:N7	1:C1:1674:C:C5	2.81	0.49
1:C1:1778:G:C6	1:C1:1779:U:C5	3.01	0.49
1:C1:257:A:C6	1:C1:258:C:C5	3.00	0.49
1:C1:292:U:O5'	1:C1:292:U:C6	2.60	0.49
29:D1:1145:G:N2	29:D1:1160:C:O4'	2.46	0.49
29:D1:1303:A:C8	29:D1:1304:A:C4	2.93	0.49
29:D1:1313:G:C5	29:D1:1314:C:C5	3.00	0.49
29:D1:1330:A:O2'	29:D1:1331:U:H2'	2.12	0.49
29:D1:1505:C:H4'	29:D1:1505:C:OP1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2199:G:C4	29:D1:2200:U:C5	3.00	0.49
29:D1:2260:U:C2'	29:D1:2261:G:C8	2.95	0.49
29:D1:283:G:C4	29:D1:285:A:N7	2.80	0.49
29:D1:3097:C:O2'	29:D1:3098:G:O5'	2.31	0.49
29:D1:3121:U:C2	29:D1:3122:A:N7	2.81	0.49
29:D1:3331:U:H6	29:D1:3331:U:C5'	2.25	0.49
29:D1:384:A:C8	29:D1:385:A:C8	3.01	0.49
29:D1:38:U:H2'	29:D1:39:A:O4'	2.12	0.49
29:D1:60:A:C5	29:D1:61:A:C8	3.01	0.49
29:D1:648:C:C6	29:D1:2374:C:O2'	2.62	0.49
29:D1:738:A:C2	29:D1:739:G:C5	3.01	0.49
29:D1:752:C:HO2'	29:D1:753:C:H6	1.58	0.49
29:D1:949:C:O2'	29:D1:950:G:H5'	2.13	0.49
29:D1:957:C:C2	29:D1:958:C:C6	3.01	0.49
31:D3:56:G:H2'	31:D3:57:C:C6	2.47	0.49
54:DY:21:ARG:O	54:DY:22:ILE:CB	2.60	0.49
1:C1:223:U:O2	1:C1:838:G:N2	2.24	0.49
1:C1:690:G:N1	1:C1:691:C:C4	2.81	0.49
29:B1:2642:A:C2	29:B1:2643:A:C6	3.01	0.49
30:B2:79:A:C1'	30:B2:102:A:N6	2.75	0.49
31:B3:53:A:C4	31:B3:54:A:N7	2.80	0.49
31:B3:57:C:O2'	31:B3:58:G:H5'	2.12	0.49
1:A1:166:C:C4	1:A1:167:U:C4	3.01	0.49
1:C1:1689:A:N6	1:C1:1715:G:C2	2.80	0.49
1:C1:1720:G:C2'	1:C1:1721:A:C5'	2.88	0.49
1:C1:304:U:O2	1:C1:304:U:C2'	2.57	0.49
1:C1:326:G:H2'	1:C1:327:U:H6	1.78	0.49
1:A1:1682:U:C2	1:A1:1683:C:C5	3.01	0.49
1:A1:1720:G:H2'	1:A1:1721:A:H5'	1.93	0.49
1:A1:243:G:C6	1:A1:250:C:N3	2.81	0.49
1:C1:1172:G:C5	1:C1:1173:C:C5	3.01	0.49
1:A1:1256:A:OP2	1:A1:1257:U:H5'	2.13	0.49
1:A1:1353:U:H3	1:A1:1371:A:H61	1.60	0.49
29:B1:382:U:C3'	29:B1:383:G:C4'	2.88	0.49
30:D2:56:A:O2'	42:DK:136:ALA:HB2	2.13	0.49
29:D1:406:G:C1'	31:D3:16:G:H22	2.15	0.49
29:B1:3030:G:C2'	29:B1:3031:G:O5'	2.61	0.49
29:D1:198:A:H1'	29:D1:218:G:C4	2.47	0.49
29:B1:1260:A:C6	29:B1:1279:C:O2	2.65	0.49
29:B1:1276:U:N3	74:B1:3563:OHX:N4	2.61	0.49
29:D1:3277:U:C6	29:D1:3277:U:OP2	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1615:C:C2	29:B1:1616:U:C5	3.00	0.49
1:A1:690:G:N1	1:A1:691:C:C4	2.81	0.49
29:D1:3355:U:O2'	29:D1:3356:G:O4'	2.30	0.49
29:B1:349:A:N3	31:B3:24:G:C1'	2.76	0.49
29:D1:1626:U:H2'	29:D1:1627:U:O4'	2.12	0.49
2:CA:173:ILE:C	2:CA:175:TYR:N	2.66	0.49
29:D1:3142:A:H1'	29:D1:3144:G:N7	2.28	0.49
29:B1:2352:A:H2'	29:B1:2353:G:H8	1.77	0.49
29:D1:1080:A:OP2	29:D1:1080:A:H8	1.95	0.49
1:A1:1123:C:C5	1:A1:1124:A:C4	3.00	0.49
1:C1:492:A:N1	1:C1:496:G:C2	2.81	0.49
29:D1:1035:G:C5	29:D1:1036:A:N7	2.80	0.49
1:A1:1663:G:C4	1:A1:1664:C:C6	3.00	0.49
29:B1:2881:C:O2	29:B1:2882:U:C5	2.65	0.49
29:B1:2501:U:H1'	29:B1:2502:A:O5'	2.12	0.49
30:D2:5:G:H2'	30:D2:6:C:H5"	1.93	0.49
49:BT:50:LYS:C	49:BT:52:MET:N	2.66	0.49
1:A1:356:G:C2	1:A1:357:G:C8	3.00	0.49
29:D1:251:G:H4'	29:D1:252:U:OP1	2.09	0.49
45:BP:99:LEU:C	45:BP:101:ARG:N	2.64	0.49
2:AA:6:THR:C	2:AA:8:ASP:H	2.16	0.49
43:DN:9:ALA:HB1	43:DN:21:VAL:CB	2.43	0.49
1:C1:789:A:N3	1:C1:789:A:H2'	2.28	0.49
46:DQ:25:SER:O	46:DQ:26:PHE:C	2.50	0.49
29:D1:290:G:H2'	29:D1:291:C:C6	2.48	0.49
4:AC:97:SER:O	4:AC:99:VAL:N	2.45	0.49
29:D1:2963:C:H2'	29:D1:2964:G:H5'	1.93	0.49
29:B1:293:C:H2'	29:B1:294:U:O4'	2.12	0.49
29:B1:296:A:C6	29:B1:297:G:N1	2.80	0.49
38:DG:219:LYS:HA	38:DG:227:GLY:O	2.12	0.49
46:DQ:44:ALA:C	46:DQ:46:LYS:N	2.65	0.49
29:D1:789:A:H2'	29:D1:790:U:H6	1.76	0.49
1:C1:738:G:O6	74:C1:1918:OHX:N1	2.46	0.49
15:AN:102:ARG:C	15:AN:104:THR:N	2.60	0.49
38:DG:205:PHE:O	38:DG:206:LYS:CB	2.60	0.49
29:B1:1003:A:C2	29:B1:1004:U:C1'	2.95	0.49
29:D1:629:U:H3'	29:D1:630:A:C8	2.42	0.49
40:BI:157:ASN:O	40:BI:160:ASP:N	2.46	0.49
13:CL:48:LYS:C	13:CL:50:ALA:N	2.66	0.49
47:BR:145:ASN:CA	47:BR:146:SER:CB	2.90	0.49
39:DH:103:ALA:C	39:DH:105:LYS:H	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2400:G:HO2'	29:D1:2401:A:C5'	2.25	0.49
29:D1:2188:A:OP1	29:D1:2189:U:OP2	2.30	0.49
6:AE:24:LEU:O	6:AE:27:GLU:N	2.46	0.49
6:CE:117:GLY:O	6:CE:118:LEU:C	2.51	0.49
34:BC:310:GLY:O	34:BC:311:PHE:C	2.50	0.49
34:BC:237:LYS:O	34:BC:239:PRO:N	2.46	0.49
1:A1:1011:G:OP2	74:A1:1958:OHX:N6	2.46	0.49
1:A1:1051:G:H2'	1:A1:1052:U:C2	2.48	0.49
1:A1:1065:A:H3'	1:A1:1066:C:H6	1.77	0.49
1:A1:1150:G:H2'	1:A1:1151:A:O5'	2.13	0.49
1:A1:1631:A:C4	1:A1:1632:C:C1'	2.96	0.49
1:A1:23:G:O2'	1:A1:368:U:OP1	2.29	0.49
1:A1:479:C:O3'	1:A1:480:G:O4'	2.31	0.49
1:A1:555:A:C1'	1:A1:556:A:OP1	2.61	0.49
1:A1:558:U:C4	1:A1:559:C:N4	2.80	0.49
1:A1:956:C:N4	1:A1:957:G:O6	2.46	0.49
1:A1:965:U:O2'	1:A1:966:A:OP1	2.17	0.49
29:B1:1131:G:N3	29:B1:2373:A:N1	2.59	0.49
29:B1:13:A:H2	29:B1:15:C:H2'	1.78	0.49
29:B1:2177:G:O2'	29:B1:2178:A:P	2.71	0.49
29:B1:2253:G:C4	29:B1:2254:U:C6	3.01	0.49
29:B1:2294:U:H3'	29:B1:2295:A:H5''	1.94	0.49
29:B1:2317:A:C2	29:B1:2318:U:C2	3.01	0.49
29:B1:2383:C:C5	29:B1:2384:A:N7	2.81	0.49
29:B1:2750:U:HO2'	29:B1:2751:G:H5'	1.78	0.49
29:B1:2917:G:N2	29:B1:2918:G:C4	2.81	0.49
29:B1:309:U:C5	29:B1:310:U:C4	3.01	0.49
29:B1:3147:G:C6	29:B1:3148:U:C4	3.00	0.49
29:B1:391:A:H5''	29:B1:391:A:H8	1.78	0.49
29:B1:51:A:H2'	29:B1:52:A:H5'	1.94	0.49
29:B1:534:U:H5	29:B1:534:U:OP2	1.96	0.49
29:B1:53:G:C5	29:B1:54:C:C5	3.00	0.49
29:B1:583:G:N1	29:B1:584:G:C5	2.80	0.49
29:B1:594:U:N3	29:B1:595:G:C6	2.81	0.49
29:B1:642:U:H3'	29:B1:644:G:OP2	2.12	0.49
29:B1:691:A:C3'	29:B1:692:A:H5'	2.42	0.49
29:B1:769:G:H1'	29:B1:770:G:O5'	2.13	0.49
29:B1:779:G:C5	29:B1:780:A:N7	2.81	0.49
38:BG:41:ARG:C	38:BG:43:ILE:N	2.63	0.49
1:C1:1146:G:H2'	1:C1:1147:A:O5'	2.13	0.49
1:C1:1632:C:O2	1:C1:1633:A:C8	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1762:A:OP1	1:C1:1763:A:OP2	2.31	0.49
1:C1:384:G:O6	74:C1:1999:OHX:N5	2.45	0.49
1:C1:389:G:C4	1:C1:390:G:C8	3.01	0.49
1:C1:469:C:H5''	1:C1:470:A:OP2	2.13	0.49
1:C1:51:A:C6	1:C1:52:U:C2	3.01	0.49
1:C1:555:A:P	1:C1:555:A:H2'	2.53	0.49
1:C1:605:A:C8	1:C1:606:A:C2	3.01	0.49
1:C1:63:G:C6	1:C1:88:U:C2	3.01	0.49
1:C1:865:A:H2'	1:C1:866:G:C8	2.48	0.49
1:C1:938:G:C8	1:C1:938:G:H3'	2.48	0.49
1:C1:971:A:C8	1:C1:972:G:N7	2.81	0.49
1:C1:14:C:C5'	3:CB:164:SER:H	2.25	0.49
29:D1:1304:A:N3	29:D1:2939:G:H1'	2.27	0.49
29:D1:1169:A:C2	29:D1:1330:A:C5	3.00	0.49
29:D1:156:G:C8	29:D1:157:A:N3	2.81	0.49
29:D1:1787:A:C6	29:D1:1788:C:C5	3.01	0.49
29:D1:2271:A:C2'	29:D1:2272:G:C5'	2.71	0.49
29:D1:2296:A:C2	29:D1:2919:A:C1'	2.96	0.49
29:D1:281:G:N3	29:D1:282:G:N7	2.61	0.49
29:D1:2866:U:H1'	29:D1:2867:C:H5	1.78	0.49
29:D1:2924:U:C4	29:D1:2925:C:O2	2.66	0.49
29:D1:3157:U:H4'	29:D1:3158:G:O4'	2.12	0.49
29:D1:363:G:H2'	29:D1:364:G:C5'	2.27	0.49
29:D1:40:A:C3'	29:D1:41:G:C5'	2.90	0.49
29:D1:693:A:C2'	29:D1:694:C:H6	2.24	0.49
31:D3:19:C:N4	31:D3:20:U:O4	2.46	0.49
33:DB:47:GLN:HA	33:DB:58:LEU:CB	2.42	0.49
37:DF:41:ILE:N	37:DF:85:ILE:CA	2.36	0.49
1:A1:225:A:O2'	1:A1:226:A:P	2.71	0.49
1:A1:648:G:O2'	1:A1:649:U:O5'	2.30	0.49
31:B3:65:A:C4	31:B3:66:A:N7	2.81	0.49
1:A1:125:U:C4'	1:A1:126:A:OP1	2.60	0.49
1:A1:170:U:H5'	1:A1:267:U:H1'	1.95	0.49
1:A1:175:G:N2	1:A1:266:A:OP1	2.45	0.49
1:A1:264:G:C3'	1:A1:265:A:C5'	2.80	0.49
1:A1:269:G:C6	1:A1:270:C:C4	3.01	0.49
30:D2:104:A:C5	30:D2:105:C:C5	3.01	0.49
1:C1:248:U:O4'	1:C1:248:U:O2	2.30	0.49
1:C1:795:U:C6	1:C1:796:A:C8	3.01	0.49
1:C1:110:U:H4'	1:C1:797:G:H21	1.76	0.49
1:A1:327:U:C2	1:A1:328:A:C8	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1172:G:H2'	1:C1:1173:C:C6	2.48	0.49
1:C1:1363:U:C2'	1:C1:1364:G:C8	2.96	0.49
1:C1:1567:U:H5'	1:C1:1567:U:H6	1.78	0.49
15:CN:15:GLN:O	15:CN:17:GLN:HA	2.12	0.49
1:A1:1355:C:H2'	1:A1:1356:U:C6	2.48	0.49
1:A1:1472:C:O2'	5:AD:188:LYS:HA	2.13	0.49
1:A1:1530:C:C2	1:A1:1531:G:C8	3.01	0.49
29:B1:3172:A:C1'	29:B1:3173:G:C8	2.83	0.49
29:D1:3190:C:O2	29:D1:3190:C:C2'	2.61	0.49
29:B1:3238:G:O6	29:B1:3250:U:C4	2.65	0.49
30:B2:30:G:C6	30:B2:31:U:N3	2.80	0.49
29:B1:3024:A:H2'	29:B1:3025:C:C6	2.48	0.49
29:D1:1388:U:H2'	29:D1:1389:G:C8	2.48	0.49
29:D1:199:A:N1	29:D1:219:A:C6	2.81	0.49
29:D1:392:G:N1	29:D1:393:U:C5	2.81	0.49
35:DD:162:THR:O	35:DD:166:VAL:N	2.45	0.49
31:B3:124:G:C5'	31:B3:125:U:OP2	2.60	0.49
30:D2:41:G:N1	30:D2:43:U:C5	2.81	0.49
1:A1:691:C:O2'	1:A1:692:C:P	2.70	0.49
29:D1:1257:C:C4	29:D1:1261:G:N2	2.81	0.49
29:B1:339:C:H2'	29:B1:340:C:C5'	2.42	0.49
31:B3:26:U:N3	31:B3:27:U:C4	2.81	0.49
29:D1:1625:A:C6	29:D1:1626:U:C2	3.01	0.49
1:C1:698:U:C5	1:C1:741:C:N4	2.81	0.49
29:B1:1078:U:H5'	29:B1:1079:A:OP2	2.13	0.49
29:D1:2433:U:H5''	29:D1:2434:U:OP2	2.13	0.49
36:DE:272:TYR:CB	36:DE:275:THR:HA	2.42	0.49
29:B1:1623:G:H3'	29:B1:1624:G:C8	2.46	0.49
29:D1:2105:G:H2'	29:D1:2106:A:C8	2.47	0.49
1:A1:1388:A:N6	1:A1:1411:A:N7	2.61	0.49
1:A1:1389:C:O2	1:A1:1389:C:H3'	2.13	0.49
1:A1:1407:U:C5	1:A1:1408:G:C8	3.01	0.49
20:CS:38:ILE:CB	74:CS:101:OHX:N3	2.76	0.49
29:B1:138:U:C2	29:B1:139:G:C8	3.01	0.49
29:B1:331:G:C2'	29:B1:332:C:H5''	2.43	0.49
1:C1:1130:G:OP2	74:C1:1994:OHX:N1	2.46	0.49
1:A1:1733:C:N4	1:A1:1734:U:O4	2.46	0.49
29:B1:2883:U:O2'	29:B1:2884:C:O5'	2.28	0.49
29:B1:1013:G:H4'	29:B1:1014:U:OP1	2.12	0.49
1:A1:982:U:H2'	1:A1:983:A:H8	1.77	0.49
30:D2:2:G:C4	30:D2:3:U:C5	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1353:U:H5	29:D1:1355:A:H62	1.59	0.49
29:B1:1928:G:N7	29:B1:1929:G:N7	2.60	0.49
29:B1:1919:G:C2'	29:B1:1933:A:H61	2.25	0.49
36:BE:48:LYS:O	36:BE:49:TYR:CB	2.59	0.49
5:CD:108:LEU:O	5:CD:109:LYS:CB	2.59	0.49
29:B1:2205:U:C2'	29:B1:2206:G:H5'	2.37	0.49
40:BI:111:PHE:CA	40:BI:112:ILE:C	2.75	0.49
29:B1:1536:G:H2'	29:B1:1536:G:N3	2.27	0.49
18:AQ:43:ASP:HA	18:AQ:46:LYS:CB	2.42	0.49
18:AQ:41:ILE:HA	18:AQ:44:GLN:CB	2.43	0.49
1:A1:280:U:H3'	1:A1:281:G:C8	2.37	0.49
1:A1:280:U:C3'	1:A1:281:G:H8	2.21	0.49
29:B1:1819:U:C4	29:B1:1820:U:O4	2.66	0.49
29:D1:2331:C:H2'	29:D1:2332:A:O4'	2.12	0.49
29:D1:1047:A:N1	29:D1:1048:A:C2	2.81	0.49
1:C1:929:A:N6	1:C1:930:A:C2	2.81	0.49
36:DE:118:THR:C	36:DE:120:LYS:N	2.65	0.49
29:D1:1724:U:C2'	29:D1:1725:C:O4'	2.61	0.49
34:DC:103:THR:O	34:DC:104:THR:C	2.52	0.49
29:B1:1720:U:C3'	29:B1:1720:U:C6	2.95	0.49
29:B1:2188:A:OP1	29:B1:2189:U:OP2	2.31	0.49
20:CS:26:SER:O	20:CS:28:THR:N	2.45	0.49
49:BT:9:SER:O	49:BT:11:THR:N	2.45	0.49
38:DG:192:GLY:O	38:DG:193:PRO:CB	2.59	0.49
17:AP:76:LEU:O	17:AP:77:ILE:C	2.51	0.49
1:A1:1211:A:C4	1:A1:1212:G:C8	3.01	0.49
53:DX:91:ASN:O	53:DX:93:ALA:N	2.46	0.49
29:D1:1936:A:C5	29:D1:1937:U:C5	3.00	0.49
17:AP:136:TRP:HA	17:AP:137:LYS:O	2.13	0.49
29:D1:2559:U:O2	29:D1:2559:U:H2'	2.12	0.49
45:DP:9:ILE:HA	45:DP:117:ARG:O	2.12	0.49
46:DQ:103:GLU:O	46:DQ:106:GLY:HA2	2.12	0.49
29:D1:3154:C:H3'	29:D1:3154:C:O2	2.13	0.49
38:BG:187:GLU:O	38:BG:189:ILE:N	2.46	0.49
33:BB:95:SER:O	33:BB:96:LEU:CB	2.60	0.49
29:D1:1669:C:C4	29:D1:1670:C:C5	3.00	0.49
29:D1:2320:A:H5''	29:D1:2321:A:OP2	2.13	0.49
21:AT:94:VAL:O	21:AT:95:ALA:HB2	2.12	0.49
16:AO:88:LYS:C	16:AO:90:THR:H	2.16	0.49
1:A1:106:U:C4	1:A1:107:C:N3	2.80	0.49
1:A1:1086:A:C8	1:A1:1087:A:N7	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1138:A:C4	1:A1:1139:A:N7	2.81	0.49
1:A1:27:U:H2'	1:A1:28:A:H8	1.77	0.49
1:A1:55:A:HO2'	1:A1:403:G:H1	1.59	0.49
1:A1:606:A:C6	1:A1:608:U:O4	2.66	0.49
1:A1:812:A:N6	1:A1:859:A:C8	2.81	0.49
1:A1:863:A:C4	1:A1:865:A:C8	3.00	0.49
1:A1:863:A:C8	1:A1:865:A:N7	2.81	0.49
1:A1:97:C:C4	1:A1:98:U:C5	3.00	0.49
1:A1:996:U:O2	1:A1:996:U:C2'	2.57	0.49
29:B1:1110:U:H5''	29:B1:1111:U:OP2	2.13	0.49
29:B1:1193:A:H5''	29:B1:1194:G:OP2	2.13	0.49
29:B1:1292:C:C2'	29:B1:1292:C:O2	2.59	0.49
29:B1:1428:A:C2	29:B1:1430:U:C6	3.01	0.49
29:B1:1561:G:C6	29:B1:1562:C:C4	3.01	0.49
29:B1:1525:G:C8	29:B1:1829:G:C4	3.01	0.49
29:B1:212:G:C4	29:B1:222:A:C8	3.01	0.49
29:B1:913:A:H1'	29:B1:2147:A:O4'	2.13	0.49
29:B1:2276:G:N7	29:B1:2277:C:C5	2.80	0.49
29:B1:890:C:O2	29:B1:2324:A:H2	1.95	0.49
29:B1:2607:G:C2	29:B1:2608:G:C4	3.00	0.49
29:B1:2980:U:O2	29:B1:2981:U:C6	2.65	0.49
29:B1:3337:G:C6	29:B1:3338:C:C4	3.01	0.49
29:B1:39:A:C5'	29:B1:40:A:H4'	2.41	0.49
29:B1:415:G:N3	29:B1:416:A:C8	2.81	0.49
29:B1:611:A:C3'	29:B1:612:U:C5'	2.84	0.49
29:B1:588:G:C4	29:B1:612:U:H5	2.30	0.49
29:B1:645:A:N7	29:B1:649:A:C5	2.80	0.49
29:B1:977:C:O2'	29:B1:978:G:OP2	2.30	0.49
31:B3:1:A:N1	31:B3:2:A:C5	2.81	0.49
1:C1:1045:C:C2'	1:C1:1045:C:O2	2.34	0.49
1:C1:1116:A:C5	1:C1:1131:A:N7	2.81	0.49
1:C1:170:U:H3'	1:C1:171:A:C5'	2.43	0.49
1:C1:266:A:O3'	1:C1:267:U:O4'	2.30	0.49
1:C1:316:A:C6	1:C1:317:C:C5	3.01	0.49
1:C1:610:G:N2	1:C1:614:C:C4	2.81	0.49
1:C1:93:A:N6	1:C1:398:G:C6	2.80	0.49
29:D1:1128:U:O2	29:D1:1129:A:H1'	2.13	0.49
29:D1:1144:U:H6	29:D1:1144:U:C5'	2.24	0.49
29:D1:1366:A:H2'	29:D1:1367:G:H8	1.74	0.49
29:D1:1479:U:OP2	29:D1:1480:G:N2	2.45	0.49
29:D1:53:G:N2	29:D1:1546:A:C2	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2111:G:N2	51:DV:49:ILE:CA	2.65	0.49
29:D1:2270:A:H2'	29:D1:2271:A:H8	1.74	0.49
29:D1:2316:G:N3	29:D1:2317:A:C8	2.81	0.49
29:D1:421:G:C2	29:D1:2365:C:N1	2.80	0.49
29:D1:2987:A:C4	29:D1:2988:C:C6	3.00	0.49
29:D1:3160:U:N3	29:D1:3161:C:C5	2.80	0.49
29:D1:3344:A:N6	29:D1:3362:A:C2	2.81	0.49
29:D1:3366:G:C2	29:D1:3367:C:C4	3.01	0.49
29:D1:359:U:H2'	29:D1:360:G:O4'	2.13	0.49
29:D1:691:A:C3'	29:D1:692:A:H5'	2.43	0.49
29:D1:331:G:N1	31:D3:33:A:C2	2.81	0.49
31:D3:2:A:C2'	31:D3:3:A:H5'	2.42	0.49
35:DD:10:SER:HA	35:DD:17:ALA:N	2.26	0.49
1:A1:220:A:N6	1:A1:221:A:H62	2.11	0.49
1:C1:653:C:C2	1:C1:662:U:H1'	2.48	0.49
1:C1:647:G:C6	1:C1:687:G:N1	2.81	0.49
29:B1:2615:G:C4	29:B1:2616:C:C5	3.01	0.49
29:B1:2728:G:C2	29:B1:2729:U:C5	3.01	0.49
30:B2:107:C:H2'	30:B2:108:A:O4'	2.13	0.49
30:B2:78:U:C2	30:B2:79:A:H8	2.31	0.49
1:A1:198:A:O2'	1:A1:199:G:C8	2.52	0.49
1:A1:61:A:H4'	1:A1:62:A:C3'	2.42	0.49
30:D2:60:G:N1	30:D2:61:G:C5	2.81	0.49
30:D2:67:G:C2	30:D2:68:C:N1	2.80	0.49
30:D2:75:G:H21	30:D2:105:C:H41	1.59	0.49
1:A1:1675:C:O2'	1:A1:1678:A:H8	1.96	0.49
1:A1:1683:C:C6	1:A1:1719:A:N6	2.81	0.49
1:A1:321:C:C2'	1:A1:322:G:H8	2.26	0.49
1:A1:753:A:H2'	1:A1:754:A:C8	2.48	0.49
1:C1:1454:G:C3'	1:C1:1455:G:H5'	2.42	0.49
1:C1:1477:G:C2'	1:C1:1478:G:H5''	2.43	0.49
1:C1:1585:U:H5	1:C1:1610:G:N2	2.09	0.49
1:A1:1176:G:C6	1:A1:1177:C:N4	2.81	0.49
1:A1:1185:U:H1'	1:A1:1186:U:OP2	2.13	0.49
1:A1:1186:U:O2'	1:A1:1187:U:H5'	2.12	0.49
1:A1:1227:A:H3'	1:A1:1229:G:OP2	2.13	0.49
1:A1:1371:A:N3	1:A1:1371:A:H2'	2.26	0.49
1:A1:1483:A:H5''	1:A1:1521:G:O2'	2.13	0.49
1:A1:1483:A:C1'	1:A1:1524:A:H62	2.22	0.49
1:A1:1526:A:C8	1:A1:1526:A:O5'	2.66	0.49
1:A1:1541:G:C6	1:A1:1542:G:O6	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CE:77:ILE:C	6:CE:79:ARG:N	2.66	0.49
29:B1:3280:U:O2	29:B1:3281:U:C5	2.66	0.49
1:C1:160:C:O2'	1:C1:161:U:O5'	2.22	0.49
29:D1:3203:U:C2'	29:D1:3204:C:C6	2.92	0.49
29:B1:2522:G:N3	29:B1:2522:G:O2'	2.45	0.49
29:B1:2522:G:O6	29:B1:2587:U:C4	2.66	0.49
29:D1:1393:A:C2	29:D1:1394:A:N9	2.80	0.49
29:D1:393:U:N3	29:D1:394:G:N7	2.61	0.49
29:D1:3174:A:H1'	29:D1:3175:U:C5'	2.36	0.49
29:D1:3214:U:O2'	29:D1:3218:A:OP2	2.26	0.49
29:D1:3384:U:C4	29:D1:3385:U:C4	3.01	0.49
29:B1:3226:A:H8	29:B1:3226:A:O5'	1.96	0.49
29:D1:3141:A:N3	29:D1:3143:C:O3'	2.46	0.49
29:D1:1948:G:H1'	29:D1:2100:A:N6	2.28	0.49
29:D1:1076:C:H3'	29:D1:1077:U:C6	2.48	0.49
29:D1:1678:G:H5''	29:D1:1756:C:O3'	2.12	0.49
29:D1:3073:A:C6	29:D1:3074:G:C5	3.01	0.49
29:B1:1731:A:N6	29:B1:1732:U:N3	2.61	0.49
29:B1:25:U:H2'	29:B1:26:A:H8	1.76	0.49
30:D2:95:A:C2	30:D2:96:U:C4	3.01	0.49
29:B1:2582:C:H3'	29:B1:2583:C:H6	1.76	0.49
29:D1:6:A:C6	29:D1:7:C:C5	3.01	0.49
29:B1:1945:A:H2'	29:B1:1946:A:H8	1.78	0.49
12:AK:46:LEU:C	12:AK:48:ASN:H	2.16	0.49
29:D1:1638:A:C2	29:D1:1736:G:N2	2.80	0.49
29:B1:1352:A:C8	29:B1:1353:U:O4'	2.66	0.49
29:D1:1025:A:C5'	29:D1:1028:U:H3	2.25	0.49
29:B1:142:C:H2'	29:B1:143:G:C8	2.47	0.49
37:DF:117:LYS:O	37:DF:118:GLU:O	2.31	0.49
42:BK:85:LYS:O	42:BK:88:GLU:N	2.45	0.49
1:C1:242:U:O2	1:C1:242:U:H3'	2.13	0.49
29:B1:3180:A:C8	45:BP:114:LYS:HA	2.47	0.49
10:CI:25:LEU:O	10:CI:28:MET:CB	2.61	0.49
29:B1:1543:G:OP1	44:BO:35:VAL:N	2.43	0.49
29:B1:1651:U:H2'	29:B1:1652:G:C8	2.48	0.49
29:B1:600:G:C6	74:B1:3620:OHX:N1	2.81	0.49
29:B1:292:U:H2'	29:B1:292:U:O2	2.11	0.49
20:AS:38:ILE:O	20:AS:41:GLN:N	2.46	0.49
1:A1:1318:G:N2	1:A1:1319:A:N3	2.61	0.49
29:B1:246:U:OP1	29:B1:247:C:H5''	2.13	0.49
4:CC:114:ALA:O	4:CC:118:ALA:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BA:53:LEU:CB	32:BA:54:LYS:CA	2.91	0.49
45:DP:92:THR:O	45:DP:93:ALA:C	2.49	0.49
29:B1:495:G:H2'	29:B1:496:C:H5'	1.95	0.49
29:B1:1700:G:C6	29:B1:1701:C:C4	3.01	0.49
54:BY:90:TYR:O	54:BY:91:LEU:CB	2.61	0.49
3:CB:147:ASN:C	3:CB:149:GLY:H	2.15	0.49
5:CD:57:SER:O	5:CD:59:VAL:N	2.45	0.49
16:AO:39:GLN:O	16:AO:41:MET:N	2.46	0.49
36:BE:53:VAL:HA	36:BE:62:CYS:HA	1.95	0.49
73:DM:60:ARG:C	73:DM:62:ALA:N	2.67	0.49
73:DM:60:ARG:O	73:DM:62:ALA:N	2.45	0.49
50:DU:127:PRO:O	50:DU:130:ALA:CB	2.61	0.49
38:BG:199:ASN:C	38:BG:201:PHE:H	2.15	0.49
55:BZ:9:SER:O	55:BZ:13:LYS:N	2.46	0.49
40:DI:166:ARG:O	40:DI:167:VAL:CB	2.60	0.49
36:DE:204:VAL:O	36:DE:207:TYR:N	2.44	0.49
12:AK:66:VAL:O	12:AK:67:ARG:C	2.50	0.49
3:AB:208:GLU:O	3:AB:212:LYS:CB	2.61	0.49
3:CB:45:VAL:O	3:CB:46:LYS:CB	2.61	0.49
16:AO:4:SER:O	16:AO:5:SER:CB	2.61	0.49
16:CO:23:ARG:O	16:CO:24:GLN:O	2.31	0.49
34:DC:289:ASP:H	34:DC:290:ASP:CB	2.26	0.49
11:CJ:131:GLY:HA3	11:CJ:138:PHE:H	1.77	0.49
50:BU:65:GLY:O	50:BU:67:PRO:N	2.46	0.49
16:AO:74:VAL:CB	16:AO:128:PHE:O	2.61	0.49
1:A1:1054:U:H2'	1:A1:1055:U:C6	2.48	0.48
1:A1:18:C:H2'	1:A1:19:A:O4'	2.13	0.48
1:A1:26:A:C2	1:A1:600:U:N3	2.70	0.48
1:A1:377:G:O2'	1:A1:378:A:P	2.71	0.48
1:A1:611:U:C5	1:A1:612:U:C5	3.01	0.48
29:B1:964:G:OP2	29:B1:1115:G:O6	2.30	0.48
29:B1:1132:C:C2'	29:B1:1133:A:O5'	2.61	0.48
29:B1:1428:A:C4	29:B1:1430:U:C5	3.01	0.48
29:B1:1444:G:H2'	29:B1:1445:U:C5'	2.42	0.48
29:B1:1450:G:N3	29:B1:1451:C:C5	2.81	0.48
29:B1:1451:C:O2	29:B1:1451:C:C2'	2.60	0.48
29:B1:1532:C:C2	29:B1:1591:G:C2	3.01	0.48
29:B1:1787:A:C6	29:B1:1788:C:C5	3.01	0.48
29:B1:224:C:H2'	29:B1:225:C:O5'	2.13	0.48
29:B1:2264:U:H6	29:B1:2264:U:O5'	1.96	0.48
29:B1:420:G:C5	29:B1:2384:A:C2	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3072:C:O2'	29:B1:3073:A:H5'	2.12	0.48
29:B1:3090:U:HO2'	29:B1:3091:A:P	2.31	0.48
29:B1:2892:A:O4'	29:B1:3130:A:C8	2.66	0.48
29:B1:314:U:C2	29:B1:315:C:C5	3.02	0.48
29:B1:3315:G:OP1	29:B1:3316:A:OP1	2.31	0.48
29:B1:373:A:C2	29:B1:375:A:N7	2.81	0.48
29:B1:397:A:C4	29:B1:399:A:N7	2.81	0.48
29:B1:526:C:C2	29:B1:527:A:C8	3.01	0.48
29:B1:576:C:HO2'	29:B1:577:C:P	2.36	0.48
29:B1:643:U:H2'	29:B1:644:G:O4'	2.13	0.48
29:B1:771:A:H61	29:B1:772:U:H3	1.60	0.48
29:B1:829:U:C4'	29:B1:866:A:C2	2.86	0.48
29:B1:874:U:C2'	29:B1:875:G:OP2	2.60	0.48
29:B1:9:U:C4	29:B1:10:C:H5	2.31	0.48
29:B1:407:A:N1	31:B3:17:A:C1'	2.75	0.48
33:BB:172:GLY:O	33:BB:173:GLY:C	2.50	0.48
43:BN:76:ALA:C	43:BN:78:THR:H	2.17	0.48
1:C1:623:A:N1	1:C1:1105:C:C4'	2.76	0.48
1:C1:123:G:N1	1:C1:295:A:C6	2.81	0.48
1:C1:129:U:O2'	1:C1:130:C:OP1	2.28	0.48
1:C1:130:C:H3'	1:C1:131:C:H4'	1.95	0.48
1:C1:15:U:C2	1:C1:16:G:C8	3.01	0.48
1:C1:1778:G:C6	1:C1:1779:U:O4	2.66	0.48
1:C1:523:G:H2'	1:C1:524:U:N3	2.28	0.48
1:C1:974:A:C2	1:C1:975:C:C2	3.01	0.48
29:D1:1197:A:O2'	29:D1:1198:C:O5'	2.31	0.48
29:D1:1303:A:C8	29:D1:1304:A:C2	3.00	0.48
29:D1:1367:G:O5'	29:D1:1367:G:H8	1.96	0.48
29:D1:1481:A:H1'	29:D1:1858:A:C2	2.48	0.48
29:D1:1795:U:O4'	29:D1:1796:G:C2	2.66	0.48
29:D1:1858:A:H2'	29:D1:1859:A:OP1	2.12	0.48
29:D1:2110:G:O6	29:D1:2113:A:N6	2.46	0.48
29:D1:2147:A:O5'	29:D1:2147:A:H8	1.96	0.48
29:D1:2249:G:C1'	29:D1:2272:G:C8	2.96	0.48
29:D1:2295:A:H62	29:D1:2296:A:H61	1.60	0.48
29:D1:2606:G:O2'	29:D1:2607:G:OP2	2.27	0.48
29:D1:279:U:C2	29:D1:286:U:N3	2.76	0.48
29:D1:2841:G:C5	29:D1:2844:C:C4	3.01	0.48
29:D1:2858:U:C2'	29:D1:2859:U:C5	2.96	0.48
29:D1:2876:C:H2'	29:D1:2877:G:C5'	2.43	0.48
29:D1:3013:U:C6	29:D1:3013:U:H5'	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3103:A:C2	29:D1:3132:C:C2	3.01	0.48
29:D1:3298:C:C2	29:D1:3299:A:N7	2.81	0.48
29:D1:783:A:N6	74:D1:3537:OHX:N3	2.54	0.48
29:D1:383:G:N2	29:D1:386:A:OP2	2.45	0.48
29:D1:573:C:H2'	29:D1:574:U:H6	1.72	0.48
29:D1:725:G:N1	29:D1:744:A:N6	2.61	0.48
29:D1:722:G:N1	29:D1:749:C:C5	2.78	0.48
29:D1:759:U:OP1	74:D1:3514:OHX:N2	2.46	0.48
29:D1:808:A:C5	29:D1:809:G:C8	3.01	0.48
29:D1:946:U:H2'	29:D1:947:G:H5'	1.94	0.48
29:D1:952:A:C3'	29:D1:952:A:C8	2.95	0.48
30:D2:98:C:H3'	30:D2:99:G:C5'	2.32	0.48
31:D3:101:U:C2'	31:D3:102:U:O5'	2.60	0.48
31:D3:50:C:O2'	31:D3:51:G:O5'	2.26	0.48
1:A1:229:U:H2'	1:A1:230:C:C6	2.48	0.48
1:A1:732:G:H2'	1:A1:732:G:N3	2.28	0.48
1:A1:847:A:C2'	1:A1:848:C:H5''	2.41	0.48
1:C1:659:C:H3'	1:C1:659:C:OP2	2.12	0.48
1:C1:745:U:H2'	1:C1:745:U:O2	2.11	0.48
29:B1:2689:A:C4	29:B1:2702:A:H2	2.29	0.48
29:B1:993:G:H21	29:B1:2637:A:C3'	2.09	0.48
30:B2:13:A:N3	30:B2:13:A:C2'	2.67	0.48
30:B2:98:C:C5'	30:B2:99:G:OP2	2.59	0.48
31:B3:81:U:C4	31:B3:82:U:O4'	2.66	0.48
1:A1:283:U:C3'	1:A1:284:G:C4'	2.91	0.48
1:A1:72:A:N3	1:A1:72:A:H2'	2.28	0.48
30:D2:11:A:O5'	30:D2:13:A:C4	2.66	0.48
30:D2:66:A:C4	30:D2:67:G:H8	2.31	0.48
29:B1:2684:C:OP1	29:B1:2684:C:H4'	2.12	0.48
1:A1:114:C:H42	1:A1:250:C:H4'	1.77	0.48
1:A1:1720:G:C5	1:A1:1721:A:C5	3.00	0.48
1:A1:252:U:HO2'	1:A1:253:A:C5'	2.25	0.48
1:C1:1235:C:H2'	1:C1:1236:A:C8	2.39	0.48
1:C1:1346:A:C5	1:C1:1347:U:H1'	2.48	0.48
1:C1:1374:C:C5	1:C1:1375:A:N6	2.80	0.48
1:C1:1377:U:C3'	1:C1:1378:U:H4'	2.43	0.48
1:C1:1381:U:O2'	15:CN:59:PRO:CA	2.61	0.48
1:C1:1453:G:C4	1:C1:1454:G:C8	3.01	0.48
1:C1:1454:G:N2	1:C1:1455:G:C1'	2.76	0.48
1:C1:1486:G:C6	1:C1:1487:A:C6	3.01	0.48
1:C1:1498:G:C2	1:C1:1499:G:N7	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1554:U:C4	1:C1:1555:A:C8	3.01	0.48
1:C1:1583:A:H1'	1:C1:1585:U:C2	2.47	0.48
1:C1:1588:G:H5''	1:C1:1589:C:OP2	2.12	0.48
1:C1:1600:A:C8	1:C1:1602:C:C5	3.01	0.48
11:CJ:10:PHE:N	11:CJ:19:VAL:HA	2.28	0.48
1:C1:1458:G:OP1	13:CL:138:THR:O	2.31	0.48
1:A1:1183:A:C6	1:A1:1184:A:C6	3.01	0.48
1:A1:1363:U:C2'	1:A1:1364:G:C8	2.96	0.48
1:A1:1363:U:H3'	1:A1:1364:G:H8	1.78	0.48
1:C1:1050:G:N3	1:C1:1051:G:H1'	2.28	0.48
6:AE:79:ARG:O	6:AE:81:VAL:CB	2.60	0.48
29:B1:2687:G:C4	29:B1:2687:G:H3'	2.43	0.48
30:D2:55:A:O2'	30:D2:56:A:O4'	2.31	0.48
29:B1:3240:C:H5	74:B1:3469:OHX:N6	2.10	0.48
29:D1:396:A:O2'	29:D1:397:A:C5'	2.61	0.48
29:D1:401:U:H3'	29:D1:402:A:C5'	2.43	0.48
29:B1:1256:G:N3	29:B1:1256:G:H2'	2.27	0.48
15:CN:68:ARG:HA	15:CN:79:TRP:CA	2.09	0.48
29:B1:1594:A:H1'	29:B1:1615:C:C1'	2.43	0.48
29:B1:2771:U:O2'	29:B1:2772:C:OP1	2.29	0.48
30:D2:41:G:C5'	30:D2:42:A:OP2	2.53	0.48
29:D1:2771:U:H2'	29:D1:2772:C:O4'	2.13	0.48
29:D1:1274:A:C2	29:D1:1275:C:C6	3.01	0.48
29:B1:2590:A:C6	29:B1:2591:A:C8	3.00	0.48
29:B1:3225:C:N3	29:B1:3261:C:N3	2.60	0.48
1:A1:1649:G:N7	74:A1:1969:OHX:N3	2.61	0.48
29:D1:126:U:N3	29:D1:127:G:C5	2.81	0.48
29:D1:1677:G:C4	29:D1:1678:G:C8	3.01	0.48
29:D1:3072:C:C6	29:D1:3073:A:C8	3.00	0.48
29:D1:2582:C:O2	29:D1:2582:C:C2'	2.60	0.48
29:B1:3353:G:O6	29:B1:3356:G:C5	2.66	0.48
29:B1:1913:A:C2	29:B1:2120:A:C8	3.01	0.48
29:B1:1912:U:C1'	29:B1:1913:A:OP1	2.61	0.48
29:B1:1351:U:H2'	29:B1:1352:A:C4	2.48	0.48
42:BK:34:SER:O	42:BK:35:LYS:C	2.51	0.48
6:AE:73:GLY:C	6:AE:75:ALA:H	2.14	0.48
43:BN:61:GLY:O	43:BN:62:GLN:CB	2.61	0.48
43:DN:10:SER:H	43:DN:11:ASN:CA	2.22	0.48
29:B1:1644:C:OP1	29:B1:1821:U:N3	2.45	0.48
29:B1:601:U:H2'	29:B1:601:U:O2	2.13	0.48
29:D1:2965:U:O2'	29:D1:2966:G:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DP:58:LEU:HA	45:DP:61:ALA:CB	2.41	0.48
1:C1:804:A:C5	1:C1:805:U:C4	3.01	0.48
1:C1:929:A:N7	1:C1:930:A:N7	2.61	0.48
51:DV:41:LYS:C	51:DV:43:ARG:N	2.59	0.48
1:C1:583:C:C2	1:C1:584:C:C6	3.01	0.48
1:A1:931:C:C2'	1:A1:932:U:OP1	2.61	0.48
45:BP:63:ALA:HB2	45:BP:69:GLY:CA	2.41	0.48
43:BN:107:GLU:O	43:BN:109:ARG:N	2.46	0.48
17:CP:58:GLY:CA	17:CP:70:LYS:HA	2.43	0.48
33:BB:109:GLU:O	33:BB:110:GLY:O	2.31	0.48
29:B1:177:U:C2	29:B1:178:U:C6	3.01	0.48
36:DE:40:HIS:N	36:DE:41:LYS:CB	2.76	0.48
29:B1:789:A:C4	29:B1:790:U:C5	3.01	0.48
49:DT:100:LYS:C	49:DT:102:ARG:N	2.67	0.48
1:C1:1395:G:C2'	1:C1:1396:U:H5'	2.43	0.48
8:AG:69:ASN:O	8:AG:70:LYS:C	2.51	0.48
47:BR:36:LEU:O	47:BR:37:ALA:O	2.31	0.48
14:CM:17:ALA:O	14:CM:19:ALA:N	2.45	0.48
29:B1:1757:A:O2'	29:B1:1758:G:H5'	2.13	0.48
39:DH:105:LYS:N	39:DH:108:ARG:CB	2.76	0.48
29:B1:1766:G:C2	29:B1:1767:C:C6	3.01	0.48
41:BJ:205:SER:CB	41:BJ:206:LEU:HA	2.43	0.48
36:DE:227:LEU:CA	36:DE:228:ALA:HB3	2.42	0.48
29:B1:1710:C:H5''	29:B1:1710:C:H6	1.78	0.48
46:BQ:70:THR:O	46:BQ:71:ALA:C	2.51	0.48
21:CT:173:GLY:C	21:CT:175:ASP:H	2.15	0.48
7:CF:80:MET:O	7:CF:81:HIS:C	2.50	0.48
50:BU:30:GLY:O	50:BU:32:ARG:N	2.46	0.48
29:B1:1735:G:H2'	29:B1:1735:G:N3	2.28	0.48
36:BE:67:SER:O	36:BE:68:THR:CB	2.61	0.48
4:AC:156:PHE:O	4:AC:157:LEU:CB	2.60	0.48
1:A1:1119:G:C4	1:A1:1120:U:C5	3.01	0.48
1:A1:1147:A:C5	1:A1:1148:C:C5	3.01	0.48
1:A1:404:G:C4	1:A1:405:C:C5	3.01	0.48
1:A1:401:A:C2	1:A1:404:G:N7	2.80	0.48
1:A1:814:A:C8	1:A1:816:G:N3	2.81	0.48
1:A1:973:A:C2	1:A1:974:A:N7	2.82	0.48
1:A1:977:A:N6	1:A1:1025:A:C4	2.81	0.48
29:B1:952:A:C2	29:B1:1114:U:H4'	2.49	0.48
29:B1:1144:U:C5'	29:B1:1144:U:C6	2.96	0.48
29:B1:1220:U:C5	29:B1:1286:A:N7	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1289:G:O2'	29:B1:1290:A:P	2.70	0.48
29:B1:1143:A:C8	29:B1:1368:U:N3	2.80	0.48
29:B1:1451:C:O2	29:B1:1451:C:H2'	2.12	0.48
29:B1:1500:G:H2'	29:B1:1501:U:H6	1.77	0.48
29:B1:2148:U:H3'	29:B1:2187:G:H22	1.78	0.48
29:B1:214:G:H2'	29:B1:215:G:C8	2.48	0.48
29:B1:198:A:C1'	29:B1:218:G:N3	2.72	0.48
29:B1:2280:A:O2'	29:B1:2281:A:O5'	2.26	0.48
29:B1:2390:A:H5'	29:B1:3307:A:H2	1.78	0.48
29:B1:2416:U:N3	29:B1:2417:U:O4	2.46	0.48
29:B1:2964:G:C5	29:B1:2966:G:OP2	2.66	0.48
29:B1:3000:A:N3	29:B1:3001:C:C5	2.81	0.48
29:B1:3111:U:OP2	74:B1:3434:OHX:N1	2.46	0.48
29:B1:3140:G:H8	29:B1:3140:G:C5'	2.12	0.48
29:B1:3327:G:N2	29:B1:3379:C:N1	2.61	0.48
29:B1:3371:G:O6	29:B1:3372:A:N1	2.46	0.48
29:B1:3377:G:C1'	74:B1:3450:OHX:N2	2.76	0.48
29:B1:533:A:C6	29:B1:555:U:C6	3.01	0.48
29:B1:552:G:C2	29:B1:553:U:C2	3.01	0.48
29:B1:776:U:C6	29:B1:777:U:O4'	2.66	0.48
31:B3:105:A:C4'	31:B3:106:C:C5	2.91	0.48
31:B3:8:C:C4	31:B3:9:A:N7	2.81	0.48
29:B1:40:A:C5	54:BY:30:GLY:HA2	2.48	0.48
1:C1:618:U:H5''	1:C1:1030:A:N1	2.28	0.48
1:C1:1046:G:C6	1:C1:1073:G:C2	3.01	0.48
1:C1:190:C:H42	1:C1:192:U:H3	1.60	0.48
1:C1:356:G:OP2	74:C1:1924:OHX:N3	2.46	0.48
1:C1:556:A:C5'	1:C1:558:U:OP2	2.53	0.48
1:C1:586:G:C5	1:C1:587:C:C4	3.01	0.48
1:C1:814:A:C4	1:C1:816:G:C2	3.01	0.48
1:C1:96:G:N1	1:C1:97:C:C4	2.81	0.48
1:C1:973:A:H4'	29:D1:848:A:C4	2.47	0.48
29:D1:1609:C:HO2'	29:D1:1610:G:P	2.36	0.48
29:D1:160:G:C2'	29:D1:161:G:O5'	2.62	0.48
29:D1:160:G:H3'	29:D1:160:G:OP2	2.13	0.48
29:D1:1525:G:H1'	29:D1:1829:G:C2	2.47	0.48
29:D1:1453:A:O4'	29:D1:1850:A:N1	2.45	0.48
29:D1:22:G:C4	29:D1:23:A:H8	2.27	0.48
29:D1:2308:C:N4	29:D1:2309:A:C6	2.81	0.48
29:D1:2407:C:H1'	29:D1:2818:U:O2	2.12	0.48
29:D1:2743:A:C6	29:D1:2744:U:C4	3.00	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:26:A:H3'	29:D1:27:C:H6	1.78	0.48
29:D1:2824:G:H2'	29:D1:2825:C:C6	2.48	0.48
29:D1:3055:U:O3'	29:D1:3056:U:C5	2.66	0.48
29:D1:3326:G:C4	29:D1:3327:G:C8	3.01	0.48
29:D1:3373:U:C4	29:D1:3374:U:H5	2.30	0.48
29:D1:3009:G:O6	74:D1:3434:OHX:N4	2.46	0.48
29:D1:40:A:H3'	29:D1:41:G:C5'	2.42	0.48
29:D1:532:A:C3'	29:D1:533:A:C8	2.95	0.48
29:D1:533:A:H2'	29:D1:534:U:C6	2.48	0.48
29:D1:533:A:O2'	29:D1:534:U:N1	2.44	0.48
29:D1:610:G:C5'	29:D1:611:A:OP2	2.59	0.48
29:D1:681:U:O2'	29:D1:682:U:P	2.71	0.48
29:D1:867:G:H1	29:D1:892:U:H3	1.60	0.48
29:D1:895:A:C8	29:D1:897:U:H1'	2.49	0.48
29:D1:957:C:O3'	29:D1:2799:A:H8	1.96	0.48
30:D2:82:G:C6	30:D2:99:G:C6	3.01	0.48
31:D3:56:G:N3	31:D3:57:C:C6	2.81	0.48
31:D3:8:C:C2'	31:D3:9:A:H8	2.18	0.48
1:A1:734:A:H3'	1:A1:735:C:H2'	1.94	0.48
1:A1:737:A:H1'	1:A1:738:G:C8	2.49	0.48
1:C1:830:U:H3'	1:C1:830:U:OP1	2.12	0.48
1:A1:649:U:O4	1:A1:685:A:C6	2.66	0.48
1:C1:752:A:H8	1:C1:752:A:O5'	1.97	0.48
31:B3:78:G:O5'	31:B3:78:G:H8	1.96	0.48
31:B3:74:U:H4'	31:B3:89:A:C4	2.48	0.48
1:A1:145:A:N6	1:A1:146:U:C4	2.81	0.48
1:A1:168:A:C3'	1:A1:169:A:C8	2.94	0.48
1:A1:71:A:C2	1:A1:72:A:N7	2.79	0.48
30:D2:77:G:N2	30:D2:101:G:H2'	2.28	0.48
1:C1:1686:C:C4	1:C1:1687:U:O4	2.66	0.48
1:C1:342:C:O2	1:C1:342:C:C2'	2.60	0.48
1:C1:1378:U:C2	1:C1:1379:C:O4'	2.66	0.48
1:C1:1378:U:P	1:C1:1379:C:OP2	2.72	0.48
1:C1:1484:G:H22	1:C1:1605:G:N2	2.11	0.48
1:C1:1511:U:H2'	1:C1:1512:G:H8	1.78	0.48
1:C1:1538:U:C5	1:C1:1540:G:C8	3.01	0.48
1:A1:1367:G:O6	74:A1:1935:OHX:N6	2.46	0.48
1:A1:1499:G:H2'	1:A1:1500:C:C6	2.45	0.48
1:A1:1598:U:C4	1:A1:1599:C:C5	3.00	0.48
1:A1:1608:U:H2'	1:A1:1609:U:C6	2.48	0.48
29:D1:3176:G:O6	29:D1:3212:C:N3	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:88:G:N3	30:B2:89:G:C8	2.81	0.48
29:D1:2684:C:H4'	29:D1:2684:C:OP1	2.13	0.48
1:C1:160:C:O2'	1:C1:161:U:P	2.70	0.48
29:B1:3191:G:N1	29:B1:3202:G:C2	2.81	0.48
29:D1:3202:G:C2	29:D1:3203:U:O2	2.66	0.48
29:B1:3027:A:C5	29:B1:3028:G:C5	3.01	0.48
29:D1:1393:A:N7	29:D1:1418:A:C5	2.81	0.48
29:D1:211:A:H5'	29:D1:229:G:H1'	1.94	0.48
29:D1:3384:U:H2'	29:D1:3385:U:H6	1.75	0.48
29:B1:2513:U:H5	29:B1:2591:A:N6	2.11	0.48
29:B1:2594:C:C6	29:B1:2595:A:N7	2.81	0.48
1:C1:1389:C:H3'	1:C1:1389:C:O2	2.13	0.48
1:C1:1420:C:C6	1:C1:1420:C:C3'	2.97	0.48
29:D1:2432:A:H2'	29:D1:2432:A:N3	2.28	0.48
46:BQ:83:TRP:O	46:BQ:85:ALA:N	2.46	0.48
46:BQ:85:ALA:O	46:BQ:86:LYS:C	2.49	0.48
29:D1:1953:G:C5	29:D1:2093:A:C5	3.01	0.48
29:D1:1077:U:HO2'	29:D1:1078:U:H6	1.60	0.48
9:AH:21:ALA:H	9:AH:85:ALA:HB2	1.75	0.48
29:D1:1682:U:H5'	29:D1:1683:A:OP2	2.13	0.48
29:D1:2504:U:C4	29:D1:2505:U:C4	3.02	0.48
29:B1:2585:G:C8	31:B3:151:C:C2	3.01	0.48
30:D2:116:C:H2'	30:D2:117:A:C8	2.48	0.48
29:B1:3356:G:H2'	29:B1:3357:U:O4'	2.13	0.48
29:D1:249:U:O2	29:D1:249:U:H5''	2.13	0.48
29:B1:1704:A:N6	29:B1:1739:U:O4	2.44	0.48
47:DR:125:ASP:O	47:DR:126:GLN:C	2.52	0.48
29:B1:1024:G:C2'	29:B1:1025:A:H5'	2.42	0.48
29:B1:2128:C:C4	29:B1:2129:U:C4	3.01	0.48
1:C1:1263:G:C5	1:C1:1264:G:C8	3.01	0.48
3:AB:188:LEU:O	3:AB:191:ALA:N	2.46	0.48
20:AS:41:GLN:N	74:AS:101:OHX:N3	2.58	0.48
29:B1:2476:C:H2'	29:B1:2477:G:O4'	2.13	0.48
29:D1:2476:C:H2'	29:D1:2477:G:O4'	2.13	0.48
3:CB:118:ALA:HB2	3:CB:124:ALA:CB	2.40	0.48
34:BC:145:GLU:O	34:BC:149:ALA:N	2.46	0.48
46:DQ:128:ARG:HA	46:DQ:137:ASN:O	2.13	0.48
29:D1:104:G:C6	29:D1:105:C:C5	3.01	0.48
1:C1:1622:G:C5	1:C1:1623:C:C5	3.01	0.48
1:A1:951:A:H2'	1:A1:952:A:O4'	2.13	0.48
42:DK:156:LYS:C	42:DK:158:ASP:H	2.16	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BY:147:LEU:O	54:BY:148:ILE:CB	2.61	0.48
44:BO:20:ARG:C	44:BO:22:LEU:H	2.16	0.48
29:D1:2732:G:C5	29:D1:2733:A:N7	2.81	0.48
52:DW:87:SER:O	52:DW:90:ALA:N	2.45	0.48
5:CD:57:SER:C	5:CD:59:VAL:N	2.66	0.48
53:BX:24:SER:C	53:BX:26:GLN:N	2.67	0.48
5:CD:212:LYS:C	5:CD:214:LYS:N	2.64	0.48
14:CM:15:ILE:O	14:CM:19:ALA:N	2.47	0.48
4:AC:192:PRO:O	4:AC:193:ALA:HB3	2.13	0.48
29:B1:994:G:O2'	29:B1:1053:A:N6	2.36	0.48
16:AO:88:LYS:O	16:AO:91:ALA:N	2.45	0.48
44:DO:126:THR:O	44:DO:127:TYR:CB	2.61	0.48
1:C1:631:G:C2'	1:C1:632:U:H5'	2.43	0.48
45:DP:74:ARG:O	45:DP:75:ALA:O	2.31	0.48
21:AT:219:GLU:CB	21:AT:235:SER:HA	2.44	0.48
40:DI:51:GLN:CB	40:DI:52:LEU:HA	2.43	0.48
29:B1:1573:G:H3'	29:B1:1574:C:H6	1.77	0.48
29:B1:1573:G:H3'	29:B1:1574:C:C6	2.48	0.48
55:BZ:10:ILE:C	55:BZ:12:GLN:H	2.15	0.48
29:B1:1708:C:OP2	29:B1:1708:C:H6	1.96	0.48
34:BC:319:ASN:O	34:BC:320:ASP:CB	2.61	0.48
29:B1:95:A:H5''	54:BY:34:MET:O	2.13	0.48
50:BU:24:ASN:O	50:BU:99:ALA:CB	2.60	0.48
1:A1:100:A:C6	1:A1:101:U:C4	3.02	0.48
1:A1:1112:G:C8	1:A1:1113:A:N7	2.81	0.48
1:A1:23:G:H2'	1:A1:24:U:O4'	2.13	0.48
1:A1:313:U:C5	1:A1:1118:G:C6	3.01	0.48
1:A1:103:A:C5	1:A1:360:A:C2	3.02	0.48
1:A1:426:G:H21	1:A1:459:G:H2'	1.78	0.48
1:A1:610:G:N2	1:A1:614:C:C4	2.81	0.48
1:A1:96:G:C6	1:A1:97:C:C4	3.01	0.48
29:B1:1109:U:C2	29:B1:1110:U:C6	3.02	0.48
29:B1:1131:G:C4	29:B1:2373:A:N1	2.80	0.48
29:B1:1205:A:C5	29:B1:1206:G:C8	3.01	0.48
29:B1:1204:A:N6	29:B1:1300:G:H21	2.09	0.48
29:B1:1389:G:N3	29:B1:1418:A:H2	2.11	0.48
29:B1:1507:G:N3	29:B1:1507:G:O2'	2.43	0.48
29:B1:1656:A:C2	29:B1:1798:A:OP 2	2.67	0.48
29:B1:2186:U:H2'	29:B1:2187:G:C8	2.48	0.48
29:B1:2222:A:O5'	29:B1:2222:A:H8	1.95	0.48
29:B1:2254:U:O2'	29:B1:2255:A:P	2.71	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2804:A:O2'	29:B1:2805:G:C5'	2.61	0.48
29:B1:2932:U:N1	29:B1:2935:U:H5	2.12	0.48
29:B1:2386:A:N6	29:B1:2993:G:O2'	2.44	0.48
29:B1:31:C:H2'	29:B1:32:U:O4'	2.13	0.48
29:B1:3326:G:C6	29:B1:3327:G:N7	2.81	0.48
29:B1:3368:U:H3'	29:B1:3369:G:C5'	2.43	0.48
29:B1:3372:A:C6	29:B1:3373:U:C4	3.02	0.48
29:B1:347:G:N2	29:B1:353:G:N9	2.61	0.48
29:B1:529:A:H2'	29:B1:530:G:C8	2.48	0.48
29:B1:545:U:O2'	29:B1:546:C:C6	2.63	0.48
29:B1:568:G:H2'	29:B1:569:A:O4'	2.13	0.48
29:B1:593:C:H2'	29:B1:594:U:C5'	2.43	0.48
29:B1:717:C:H5	29:B1:721:G:OP2	1.96	0.48
29:B1:80:G:C6	29:B1:106:A:C6	3.01	0.48
29:B1:867:G:C6	29:B1:868:C:C4	3.01	0.48
44:BO:83:LYS:H	44:BO:84:PRO:C	2.15	0.48
1:C1:1001:A:C5	1:C1:1002:G:C5	3.00	0.48
1:C1:1002:G:C4	1:C1:1003:A:C2	3.01	0.48
1:C1:1032:G:C6	1:C1:1104:U:C4	3.01	0.48
1:C1:105:A:C2	74:C1:1916:OHX:N6	2.81	0.48
1:C1:1112:G:N7	1:C1:1113:A:N7	2.61	0.48
1:C1:168:A:C3'	1:C1:169:A:H8	2.27	0.48
1:C1:269:G:C2	1:C1:287:G:C2	3.01	0.48
1:C1:363:G:C6	1:C1:382:C:N4	2.82	0.48
1:C1:395:U:O4	1:C1:396:G:C6	2.67	0.48
1:C1:55:A:N1	1:C1:403:G:C4	2.81	0.48
1:C1:34:G:C6	1:C1:475:A:C6	3.01	0.48
1:C1:973:A:O2'	29:D1:847:A:H2	1.96	0.48
29:D1:1056:U:C3'	29:D1:1056:U:C6	2.97	0.48
29:D1:1172:G:N3	29:D1:1179:A:C2	2.81	0.48
29:D1:1174:G:N3	29:D1:1175:C:C5	2.81	0.48
29:D1:1604:G:H2'	29:D1:1605:A:H5''	1.95	0.48
29:D1:1907:C:C2'	29:D1:1908:A:H5'	2.41	0.48
29:D1:2190:U:C4	29:D1:2191:U:C4	3.01	0.48
29:D1:2280:A:HO2'	29:D1:2281:A:P	2.34	0.48
29:D1:2312:A:H1'	29:D1:2316:G:O4'	2.12	0.48
29:D1:420:G:C2	29:D1:2384:A:N3	2.80	0.48
29:D1:2410:U:O2	29:D1:2410:U:H2'	2.12	0.48
29:D1:2649:A:C6	29:D1:2650:U:C5	3.02	0.48
29:D1:2654:C:H5'	29:D1:2657:A:N6	2.28	0.48
29:D1:2775:U:O2'	29:D1:2776:C:OP2	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2814:G:N2	29:D1:2815:G:C4	2.81	0.48
29:D1:2993:G:C2'	29:D1:2993:G:N3	2.74	0.48
29:D1:313:A:H2'	29:D1:314:U:H6	1.79	0.48
29:D1:3298:C:C4	29:D1:3299:A:N7	2.81	0.48
29:D1:3390:G:N1	29:D1:3391:A:C4	2.81	0.48
29:D1:382:U:C4	29:D1:383:G:C8	3.00	0.48
29:D1:47:C:C4	29:D1:48:A:C5	3.01	0.48
29:D1:519:A:N6	37:DF:30:LEU:C	2.67	0.48
29:D1:526:C:C2	29:D1:527:A:C8	3.01	0.48
29:D1:545:U:H2'	29:D1:546:C:C4	2.48	0.48
29:D1:501:A:H2	29:D1:612:U:O2	1.96	0.48
29:D1:657:A:O2'	29:D1:658:G:H5'	2.14	0.48
29:D1:695:C:H2'	29:D1:695:C:O2	2.13	0.48
29:D1:809:G:N3	29:D1:810:A:C8	2.81	0.48
33:DB:184:ARG:C	33:DB:186:PHE:N	2.65	0.48
33:DB:200:ARG:O	33:DB:203:ALA:N	2.47	0.48
1:C1:690:G:C2'	1:C1:691:C:C5'	2.91	0.48
1:C1:753:A:C6	1:C1:754:A:N6	2.81	0.48
1:C1:749:U:N3	1:C1:801:G:C6	2.81	0.48
29:B1:2725:U:C5	29:B1:2727:A:O2'	2.50	0.48
29:B1:2730:G:C2	29:B1:2731:U:C6	3.01	0.48
30:B2:84:A:C6	30:B2:97:A:C6	3.01	0.48
31:B3:72:A:O2'	31:B3:73:U:P	2.71	0.48
31:B3:74:U:C4	31:B3:77:A:OP1	2.66	0.48
49:BT:28:SER:O	49:BT:30:TYR:N	2.46	0.48
1:A1:454:U:O2'	1:A1:455:C:O5'	2.30	0.48
30:D2:59:U:C2	30:D2:60:G:C8	3.01	0.48
30:D2:63:A:C2	30:D2:65:G:C5	3.01	0.48
42:DK:61:ARG:O	42:DK:63:GLU:N	2.46	0.48
1:C1:1530:C:C2	1:C1:1531:G:C8	3.02	0.48
1:C1:1611:A:H2'	1:C1:1612:U:C5'	2.43	0.48
1:A1:1348:A:OP1	15:AN:12:GLN:O	2.30	0.48
1:A1:1270:G:H1'	1:A1:1447:C:O2	2.13	0.48
1:A1:1560:U:C5	1:A1:1560:U:OP2	2.66	0.48
10:AI:11:VAL:C	10:AI:13:LYS:H	2.16	0.48
29:D1:1323:G:C3'	29:D1:1324:U:C5'	2.83	0.48
29:D1:3184:A:C5	29:D1:3185:U:N3	2.82	0.48
29:D1:3205:G:H22	43:DN:89:ALA:HB1	1.78	0.48
30:D2:26:C:H2'	30:D2:27:A:H8	1.77	0.48
31:D3:29:U:N3	31:D3:30:C:H5	2.11	0.48
29:D1:3217:C:O2	29:D1:3217:C:C2'	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:417:A:H4'	1:C1:418:G:O5'	2.13	0.48
29:D1:73:C:OP2	29:D1:73:C:H3'	2.13	0.48
29:D1:1277:C:O2'	29:D1:1278:A:OP2	2.30	0.48
72:DL:131:GLU:O	72:DL:132:ILE:C	2.52	0.48
29:B1:340:C:C4	31:B3:25:G:C2	3.01	0.48
34:DC:118:PHE:CB	34:DC:119:TYR:O	2.61	0.48
1:C1:1308:G:C6	1:C1:1309:C:C4	3.01	0.48
1:A1:1650:U:O2	1:A1:1650:U:H2'	2.12	0.48
29:B1:1633:C:N4	29:B1:1634:G:C6	2.81	0.48
1:A1:1388:A:C5	1:A1:1412:G:C6	3.01	0.48
29:D1:1686:U:H1'	29:D1:1688:U:P	2.53	0.48
29:D1:1035:G:C5	29:D1:1036:A:C8	3.01	0.48
1:A1:1664:C:O2	1:A1:1664:C:H2'	2.12	0.48
29:B1:2582:C:OP2	29:B1:2582:C:C6	2.65	0.48
1:C1:1283:U:H5''	1:C1:1284:C:O5'	2.13	0.48
29:D1:1219:C:H2'	29:D1:1219:C:O2	2.14	0.48
29:D1:1640:G:C4'	29:D1:1641:U:OP2	2.62	0.48
1:C1:1262:U:H2'	1:C1:1263:G:H8	1.78	0.48
17:AP:127:VAL:CA	17:AP:128:SER:C	2.81	0.48
13:CL:96:LYS:CB	13:CL:97:ASP:CA	2.87	0.48
29:B1:2581:U:OP2	29:B1:2581:U:C6	2.66	0.48
17:AP:44:GLY:O	17:AP:45:GLY:C	2.52	0.48
29:B1:1644:C:N3	74:B1:3505:OHX:N4	2.61	0.48
29:D1:2929:C:C3'	29:D1:2929:C:C6	2.97	0.48
14:CM:26:GLY:C	14:CM:28:LEU:H	2.15	0.48
29:B1:269:G:C2	29:B1:294:U:C6	3.01	0.48
29:D1:2157:G:N1	29:D1:2178:A:OP2	2.46	0.48
1:C1:933:A:N6	1:C1:935:U:O2	2.46	0.48
1:C1:1786:G:C5	1:C1:1787:C:N4	2.81	0.48
1:A1:931:C:H2'	1:A1:932:U:OP1	2.12	0.48
29:D1:630:A:H5'	29:D1:631:U:OP2	2.13	0.48
16:CO:39:GLN:O	16:CO:41:MET:N	2.46	0.48
10:AI:68:PRO:HA	10:AI:69:GLU:C	2.32	0.48
35:DD:192:GLY:O	35:DD:193:LYS:C	2.51	0.48
38:BG:161:VAL:O	38:BG:165:ASP:CB	2.61	0.48
29:B1:2117:A:N3	29:B1:2117:A:H2'	2.28	0.48
5:CD:59:VAL:O	5:CD:60:ASP:CB	2.62	0.48
14:AM:17:ALA:HB2	14:AM:59:ALA:HB2	1.94	0.48
35:DD:215:ILE:C	35:DD:217:LYS:N	2.63	0.48
32:DA:16:LEU:O	32:DA:18:LYS:N	2.72	0.48
39:BH:102:ALA:O	39:BH:105:LYS:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BH:108:ARG:O	39:BH:110:THR:N	2.46	0.48
29:B1:3082:C:H2'	29:B1:3083:G:O5'	2.13	0.48
29:D1:1673:G:C6	29:D1:1775:G:C6	3.01	0.48
45:DP:23:VAL:O	45:DP:27:LEU:N	2.37	0.48
39:BH:126:SER:O	39:BH:128:LYS:N	2.38	0.48
11:CJ:131:GLY:HA3	11:CJ:138:PHE:N	2.28	0.48
34:BC:111:SER:HA	34:BC:112:ASP:C	2.34	0.48
34:BC:289:ASP:H	34:BC:290:ASP:CB	2.27	0.48
2:AA:91:ALA:C	2:AA:93:THR:H	2.17	0.48
55:DZ:68:TYR:O	55:DZ:69:TYR:C	2.51	0.48
4:AC:121:GLY:O	4:AC:124:ARG:N	2.47	0.48
29:D1:175:C:H2'	29:D1:175:C:O2	2.13	0.48
48:BS:141:HIS:O	48:BS:145:ALA:HB3	2.13	0.48
29:B1:2439:A:N6	29:B1:2440:G:C6	2.82	0.48
1:A1:968:U:H5''	1:A1:1033:C:O2'	2.14	0.48
1:A1:1101:G:H8	1:A1:1101:G:P	2.37	0.48
1:A1:1777:G:C6	1:A1:1778:G:C5	3.02	0.48
1:A1:544:A:C8	1:A1:544:A:P	3.07	0.48
1:A1:991:G:O6	74:A1:1958:OHX:N2	2.46	0.48
29:B1:1119:C:C2	29:B1:1120:A:N7	2.80	0.48
29:B1:149:U:O2'	29:B1:150:A:OP1	2.29	0.48
29:B1:1566:A:H2'	29:B1:1567:U:C5	2.48	0.48
29:B1:159:A:C4	29:B1:160:G:N7	2.81	0.48
29:B1:1661:G:C6	29:B1:1662:G:C6	3.02	0.48
29:B1:1675:G:C2	29:B1:1773:C:C4	3.02	0.48
29:B1:1686:U:H1'	29:B1:1688:U:P	2.54	0.48
29:B1:1890:U:C4	29:B1:1891:A:N7	2.82	0.48
29:B1:199:A:C2	29:B1:201:A:C8	3.00	0.48
29:B1:2264:U:O2'	29:B1:2265:C:H5'	2.13	0.48
29:B1:2279:A:C8	29:B1:2288:G:C5	3.01	0.48
29:B1:1899:G:N3	29:B1:2334:U:C5	2.81	0.48
29:B1:2360:C:OP2	29:B1:2360:C:C6	2.67	0.48
29:B1:279:U:C2	29:B1:286:U:N3	2.81	0.48
29:B1:1302:A:N3	29:B1:2887:A:C4	2.82	0.48
29:B1:2929:C:C3'	29:B1:2929:C:C6	2.97	0.48
29:B1:2390:A:C4	29:B1:2990:G:N2	2.82	0.48
29:B1:3036:G:C2'	29:B1:3037:U:O5'	2.61	0.48
29:B1:3069:G:N1	29:B1:3070:A:C5	2.82	0.48
29:B1:3075:G:O2'	29:B1:3076:C:H5'	2.13	0.48
29:B1:30:G:C5	29:B1:55:G:O6	2.66	0.48
29:B1:310:U:H5'	29:B1:311:C:OP2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:313:A:H2'	29:B1:314:U:H6	1.76	0.48
29:B1:318:A:C8	29:B1:318:A:OP2	2.64	0.48
29:B1:3315:G:H4'	29:B1:3319:U:H4'	1.96	0.48
29:B1:591:G:C2'	29:B1:592:A:C5'	2.70	0.48
29:B1:644:G:H5''	29:B1:645:A:OP2	2.14	0.48
29:B1:980:A:C2'	29:B1:981:U:O4'	2.61	0.48
29:B1:5:G:O6	31:B3:154:C:N3	2.46	0.48
35:BD:101:ALA:C	35:BD:102:PRO:O	2.51	0.48
1:C1:1032:G:C6	1:C1:1104:U:O4	2.66	0.48
1:C1:1140:G:N3	1:C1:1141:G:C8	2.81	0.48
1:C1:1151:A:OP1	1:C1:1766:A:H2	1.96	0.48
1:C1:117:U:H2'	1:C1:118:U:O4'	2.14	0.48
1:C1:27:U:O2	1:C1:28:A:C8	2.66	0.48
1:C1:539:G:N3	1:C1:543:C:C4	2.81	0.48
1:C1:599:A:H5''	1:C1:600:U:OP2	2.13	0.48
1:C1:71:A:H1'	1:C1:72:A:OP1	2.13	0.48
1:C1:93:A:OP2	1:C1:403:G:OP1	2.31	0.48
3:CB:161:LYS:CB	3:CB:209:ASN:HA	2.43	0.48
29:D1:1210:U:O2'	29:D1:1211:U:H5'	2.14	0.48
29:D1:1313:G:C2	29:D1:1314:C:C6	3.02	0.48
29:D1:1367:G:O2'	29:D1:1368:U:P	2.71	0.48
29:D1:1587:A:C2	29:D1:1590:G:N9	2.82	0.48
29:D1:1615:C:C2	29:D1:1616:U:C5	3.02	0.48
29:D1:1506:A:H1'	29:D1:1848:G:O6	2.13	0.48
29:D1:1480:G:O2'	29:D1:1871:U:O4	2.22	0.48
29:D1:1907:C:C6	29:D1:1907:C:H3'	2.46	0.48
29:D1:2114:C:C4'	29:D1:2116:G:C4	2.95	0.48
29:D1:2328:U:C2	29:D1:2329:C:C6	3.01	0.48
29:D1:2348:A:OP2	29:D1:2349:U:H5	1.96	0.48
29:D1:2702:A:C4'	29:D1:2704:A:C8	2.97	0.48
29:D1:2809:C:O2'	29:D1:2810:C:OP1	2.27	0.48
29:D1:3010:U:C2'	29:D1:3011:A:H5'	2.43	0.48
29:D1:3055:U:C2	29:D1:3085:G:C2	3.01	0.48
29:D1:3123:A:C8	29:D1:3124:G:C8	3.02	0.48
29:D1:3152:U:H5'	29:D1:3294:A:H4'	1.96	0.48
29:D1:3390:G:C5	29:D1:3391:A:N7	2.81	0.48
29:D1:342:A:C2	29:D1:349:A:H8	2.29	0.48
29:D1:416:A:C2	29:D1:417:A:C4	3.02	0.48
29:D1:568:G:H2'	29:D1:569:A:O4'	2.13	0.48
29:D1:569:A:C6	29:D1:570:A:C5	3.01	0.48
29:D1:637:C:N3	29:D1:638:C:N4	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:681:U:C1'	29:D1:682:U:H5'	2.38	0.48
29:D1:883:A:C6	29:D1:921:A:C5	3.02	0.48
29:D1:980:A:C2'	29:D1:981:U:O4'	2.62	0.48
31:D3:24:G:H2'	31:D3:25:G:O4'	2.13	0.48
31:D3:56:G:C2	31:D3:57:C:N1	2.81	0.48
29:D1:3010:U:O4'	34:DC:15:GLY:CA	2.60	0.48
1:C1:825:U:C5	1:C1:826:U:C2	3.02	0.48
29:B1:2702:A:O4'	29:B1:2704:A:C5	2.67	0.48
29:B1:967:A:H3'	29:B1:968:G:H8	1.78	0.48
30:B2:11:A:C2	36:BE:16:PHE:CA	2.67	0.48
1:A1:174:U:O2	1:A1:175:G:H1'	2.14	0.48
1:A1:199:G:C5	1:A1:200:A:N7	2.81	0.48
30:D2:60:G:C2	30:D2:61:G:C8	3.01	0.48
30:D2:73:C:C4	30:D2:74:C:C5	3.01	0.48
29:B1:2672:G:C8	29:B1:2672:G:H3'	2.47	0.48
1:A1:1684:U:H3'	1:A1:1685:G:H5'	1.95	0.48
1:C1:1274:C:O2'	1:C1:1275:A:P	2.70	0.48
1:C1:1364:G:C5	1:C1:1365:C:C6	3.02	0.48
1:C1:1437:U:H2'	1:C1:1438:G:H5'	1.95	0.48
1:C1:1587:A:N3	1:C1:1587:A:H2'	2.27	0.48
1:C1:1607:G:C4	1:C1:1608:U:C5	3.01	0.48
1:A1:1160:A:H2'	1:A1:1161:C:C5	2.47	0.48
1:A1:1192:C:C4	1:A1:1193:A:C5	3.02	0.48
1:A1:1348:A:C8	1:A1:1349:G:H5'	2.49	0.48
1:A1:1504:G:H2'	1:A1:1505:A:O4'	2.12	0.48
1:A1:1600:A:H2'	1:A1:1602:C:H41	1.78	0.48
29:B1:379:C:O2'	29:B1:380:U:O5'	2.30	0.48
29:D1:618:C:N3	29:D1:619:A:N7	2.62	0.48
29:D1:3237:U:H2'	29:D1:3238:G:N7	2.29	0.48
29:D1:232:G:C4	29:D1:233:C:C6	3.01	0.48
29:D1:3262:U:H3'	29:D1:3262:U:P	2.52	0.48
29:D1:3217:C:C5'	29:D1:3276:G:H22	2.24	0.48
29:B1:340:C:C5'	29:B1:340:C:H6	2.26	0.48
31:B3:25:G:N1	31:B3:26:U:C2	2.82	0.48
29:B1:337:G:H1	31:B3:26:U:H3	1.61	0.48
29:D1:1643:A:C5'	29:D1:1822:C:H5''	2.43	0.48
29:B1:3222:U:H2'	29:B1:3223:A:O4'	2.14	0.48
29:D1:3073:A:C2'	29:D1:3074:G:O5'	2.61	0.48
1:C1:1783:C:N4	1:C1:1784:C:N4	2.61	0.48
29:B1:26:A:H2	29:B1:330:G:N2	2.11	0.48
29:B1:1946:A:H2'	29:B1:1947:G:C8	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BD:149:PRO:O	35:BD:150:LEU:CB	2.61	0.48
1:A1:310:C:C5'	1:A1:310:C:H6	2.26	0.48
29:B1:3352:U:O2	29:B1:3352:U:H2'	2.11	0.48
1:C1:1664:C:O2	1:C1:1665:U:H1'	2.13	0.48
29:B1:1742:U:H2'	29:B1:1743:G:C8	2.47	0.48
37:DF:86:ALA:CB	37:DF:87:THR:HA	2.26	0.48
29:B1:366:A:N6	29:B1:367:A:N3	2.62	0.48
17:AP:131:SER:CB	17:AP:133:LEU:HA	2.44	0.48
1:A1:1784:C:C2	1:A1:1785:U:C5	3.01	0.48
1:C1:1297:G:N2	1:C1:1300:A:OP2	2.46	0.48
37:BF:115:GLU:O	37:BF:116:LYS:C	2.52	0.48
29:D1:2881:C:O2	29:D1:2882:U:C5	2.66	0.48
29:B1:1583:A:C2'	29:B1:1584:U:O5'	2.61	0.48
1:C1:717:C:H1'	1:C1:718:U:OP1	2.13	0.48
5:AD:63:GLN:CB	5:AD:92:ARG:HA	2.43	0.48
29:D1:2416:U:O4	74:D1:3608:OHX:N5	2.46	0.48
29:D1:1357:G:C2'	29:D1:1358:C:H6	2.27	0.48
45:DP:192:LYS:C	45:DP:194:LEU:N	2.66	0.48
14:CM:62:ALA:C	14:CM:64:HIS:N	2.64	0.48
29:B1:245:U:C4	74:B1:3489:OHX:N4	2.81	0.48
1:A1:1084:A:HO2'	1:A1:1085:G:H5'	1.79	0.48
46:DQ:52:LEU:N	46:DQ:54:HIS:H	2.11	0.48
29:D1:787:G:H2'	29:D1:788:C:C6	2.48	0.48
29:D1:1004:U:N3	29:D1:1005:G:C5	2.81	0.48
33:DB:231:SER:H	33:DB:233:GLN:H	1.60	0.48
73:DM:46:ARG:CA	73:DM:49:ALA:HB2	2.39	0.48
29:D1:2733:A:H2'	29:D1:2734:A:H8	1.78	0.48
52:DW:80:ASN:HA	52:DW:132:ALA:HB2	1.95	0.48
44:BO:143:ARG:O	44:BO:146:ALA:HB2	2.12	0.48
38:BG:222:HIS:CB	38:BG:228:SER:N	2.76	0.48
12:AK:23:LYS:CB	12:AK:64:GLY:O	2.62	0.48
16:AO:39:GLN:O	16:AO:40:VAL:C	2.50	0.48
40:DI:117:PHE:O	40:DI:119:GLY:N	2.46	0.48
3:CB:185:LYS:O	3:CB:187:LEU:N	2.46	0.48
74:D1:3465:OHX:N3	74:D1:3585:OHX:N5	2.60	0.48
40:BI:185:GLY:O	40:BI:187:ILE:N	2.46	0.48
44:DO:108:ARG:C	44:DO:110:ALA:N	2.66	0.48
10:AI:116:LEU:C	10:AI:118:GLU:H	2.16	0.48
21:CT:27:ALA:HB2	21:CT:296:ALA:HB1	1.95	0.48
55:BZ:76:GLU:C	55:BZ:78:GLY:N	2.66	0.48
50:DU:121:GLU:C	50:DU:123:ALA:H	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:11:GLY:O	45:BP:13:GLY:O	2.29	0.48
1:A1:1025:A:N7	1:A1:1027:A:C4	2.81	0.48
1:A1:1073:G:N1	1:A1:1074:G:C2	2.82	0.48
1:A1:106:U:N3	1:A1:107:C:C2	2.81	0.48
1:A1:1116:A:C6	1:A1:1117:U:N3	2.81	0.48
1:A1:380:U:O2'	1:A1:381:C:O5'	2.30	0.48
1:A1:486:G:O6	1:A1:487:G:C5	2.66	0.48
1:A1:869:A:C5	1:A1:870:C:C5	3.01	0.48
29:B1:152:U:HO2'	29:B1:153:U:H5'	1.77	0.48
29:B1:157:A:C2'	29:B1:158:G:N7	2.76	0.48
29:B1:1686:U:H1'	29:B1:1688:U:OP1	2.13	0.48
29:B1:1685:C:O2'	29:B1:1687:U:OP2	2.29	0.48
29:B1:1835:A:C5	29:B1:1836:C:C4	3.02	0.48
29:B1:1556:C:N4	29:B1:2169:G:C8	2.75	0.48
29:B1:2248:C:C4'	29:B1:2271:A:C2	2.96	0.48
29:B1:2393:G:O2'	29:B1:2394:G:OP2	2.28	0.48
29:B1:2423:U:O2'	29:B1:2424:A:O4'	2.24	0.48
29:B1:259:C:H2'	29:B1:260:C:H6	1.79	0.48
29:B1:2782:U:H6	29:B1:2782:U:H5''	1.79	0.48
29:B1:2826:U:N3	29:B1:2827:U:C5	2.81	0.48
29:B1:3091:A:O2'	29:B1:3092:C:OP2	2.31	0.48
29:B1:2385:G:C6	29:B1:3142:A:C2	3.02	0.48
29:B1:3341:U:H3'	29:B1:3343:G:H1	1.77	0.48
29:B1:643:U:C3'	29:B1:643:U:C6	2.97	0.48
29:B1:807:A:H3'	29:B1:808:A:C5'	2.39	0.48
29:B1:519:A:H62	37:BF:30:LEU:C	2.16	0.48
44:BO:49:ARG:CA	44:BO:53:TYR:CB	2.91	0.48
1:C1:1032:G:C2	1:C1:1033:C:C2	3.02	0.48
1:C1:1727:G:C2	1:C1:1728:A:C5	3.02	0.48
1:C1:1758:U:C2	1:C1:1759:C:C5	3.01	0.48
1:C1:1793:G:C4	1:C1:1794:A:C8	3.02	0.48
1:C1:257:A:C2'	1:C1:258:C:C5'	2.89	0.48
1:C1:389:G:C5	1:C1:390:G:C6	3.00	0.48
1:C1:407:A:C6	1:C1:408:C:N4	2.82	0.48
1:C1:988:A:C2	1:C1:989:U:C1'	2.96	0.48
29:D1:1054:A:H5''	29:D1:2637:A:N6	2.28	0.48
29:D1:1110:U:C2	29:D1:1111:U:C5	3.02	0.48
29:D1:1131:G:N3	29:D1:2373:A:N1	2.60	0.48
29:D1:1224:C:N4	29:D1:1285:G:N1	2.62	0.48
29:D1:13:A:H2	29:D1:15:C:C2'	2.26	0.48
29:D1:1407:A:H5'	29:D1:1408:G:OP2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:122:A:C4'	29:D1:150:A:HO2'	2.26	0.48
29:D1:159:A:C2'	29:D1:160:G:C8	2.95	0.48
29:D1:1896:A:C4	29:D1:3093:C:C5	3.01	0.48
29:D1:2143:A:C8	29:D1:2143:A:C3'	2.96	0.48
29:D1:2300:G:C2	29:D1:2301:U:N1	2.81	0.48
29:D1:2346:C:O2'	29:D1:2347:U:H5'	2.13	0.48
29:D1:2380:U:N3	29:D1:2381:G:N7	2.62	0.48
29:D1:2394:G:C2'	29:D1:2395:G:H5'	2.42	0.48
29:D1:2413:A:C2	29:D1:2414:G:C5	3.01	0.48
29:D1:2612:U:H2'	29:D1:2612:U:O2	2.14	0.48
29:D1:2631:U:N3	29:D1:2648:G:C2	2.82	0.48
29:D1:264:G:N7	29:D1:265:A:N6	2.60	0.48
29:D1:2714:G:N9	29:D1:2716:U:C5	2.82	0.48
29:D1:90:C:H1'	29:D1:281:G:H4'	1.95	0.48
29:D1:2887:A:H5'	29:D1:2887:A:N3	2.28	0.48
29:D1:2987:A:C6	29:D1:2988:C:C4	3.01	0.48
29:D1:3000:A:C2'	29:D1:3001:C:H6	2.23	0.48
29:D1:109:A:C2	29:D1:323:A:C5	3.01	0.48
29:D1:3294:A:N6	29:D1:3295:A:C6	2.81	0.48
29:D1:3302:U:O2'	29:D1:3303:G:C4'	2.61	0.48
29:D1:518:G:P	29:D1:520:U:C5	3.07	0.48
29:D1:655:C:H2'	29:D1:656:A:C8	2.48	0.48
29:D1:762:U:O2	29:D1:770:G:N2	2.46	0.48
29:D1:771:A:C3'	29:D1:772:U:C5'	2.92	0.48
29:D1:88:A:N3	29:D1:89:A:H1'	2.28	0.48
29:D1:992:A:H3'	29:D1:993:G:H5''	1.95	0.48
35:DD:18:ASN:O	35:DD:19:ALA:HB2	2.13	0.48
35:DD:23:PRO:O	35:DD:24:ALA:HB2	2.13	0.48
44:DO:49:ARG:CA	44:DO:53:TYR:CB	2.91	0.48
1:A1:713:A:C6	1:A1:726:C:O2	2.66	0.48
1:A1:824:G:C5'	1:A1:825:U:OP1	2.61	0.48
29:B1:2761:G:N1	29:B1:2795:U:H3'	2.24	0.48
29:B1:957:C:N3	29:B1:958:C:C5	2.82	0.48
29:B1:992:A:H3'	29:B1:993:G:H5''	1.96	0.48
30:B2:12:U:C2	30:B2:70:U:P	3.06	0.48
30:B2:75:G:OP2	30:B2:76:A:H3'	2.14	0.48
31:B3:56:G:C2	31:B3:57:C:C2	3.01	0.48
31:B3:74:U:P	31:B3:76:C:C4	3.06	0.48
34:BC:40:PRO:O	34:BC:42:ALA:N	2.46	0.48
1:A1:283:U:O3'	1:A1:284:G:C4'	2.60	0.48
1:A1:70:C:H3'	1:A1:71:A:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CF:132:SER:O	7:CF:134:THR:N	2.47	0.48
29:D1:2675:C:C5	29:D1:2676:A:C6	2.98	0.48
29:D1:2678:A:O4'	29:D1:2679:A:C2	2.64	0.48
1:A1:110:U:H4'	1:A1:797:G:N2	2.23	0.48
1:A1:326:G:H2'	1:A1:327:U:H6	1.78	0.48
1:A1:329:G:C2	1:A1:330:G:C8	3.01	0.48
1:C1:1199:G:C6	1:C1:1200:G:C1'	2.96	0.48
1:C1:1198:G:OP1	1:C1:1200:G:N2	2.47	0.48
1:C1:1239:U:H5	1:C1:1241:G:C6	2.31	0.48
1:C1:1363:U:H3'	1:C1:1364:G:H8	1.77	0.48
1:C1:1426:C:C2	1:C1:1428:G:C8	3.01	0.48
1:C1:1481:C:H6	1:C1:1482:C:N1	2.11	0.48
1:C1:1584:G:N1	11:CJ:125:GLU:N	2.61	0.48
1:C1:1590:G:C2	1:C1:1591:C:C4	3.02	0.48
1:A1:1196:A:C4'	1:A1:1197:C:O5'	2.62	0.48
1:A1:1478:G:C4	1:A1:1479:A:C8	3.01	0.48
1:A1:1566:U:H2'	1:A1:1567:U:H5'	1.96	0.48
1:A1:1483:A:O2'	11:AJ:72:GLY:HA2	2.14	0.48
29:D1:3209:A:C5	29:D1:3210:A:N6	2.81	0.48
29:D1:3213:A:H3'	29:D1:3213:A:H8	1.78	0.48
30:B2:37:G:N2	30:B2:38:U:O4	2.46	0.48
29:B1:2587:U:C2	29:B1:2588:U:C6	3.01	0.48
29:D1:3237:U:OP2	29:D1:3237:U:H6	1.96	0.48
29:D1:3283:U:C2'	29:D1:3284:G:O4'	2.56	0.48
29:D1:2522:G:O2'	29:D1:2522:G:N3	2.46	0.48
1:C1:156:A:H8	1:C1:156:A:O5'	1.96	0.48
1:A1:640:U:C5	1:A1:641:G:C6	3.02	0.48
29:D1:1254:C:C4	29:D1:1255:C:C5	3.02	0.48
9:CH:30:VAL:H	9:CH:40:ALA:HB3	1.77	0.48
29:D1:3313:U:O2'	29:D1:3314:A:P	2.72	0.48
29:B1:3223:A:N3	29:B1:3223:A:H2'	2.28	0.48
29:D1:1953:G:C6	29:D1:2093:A:C8	3.01	0.48
1:A1:1338:C:H2'	1:A1:1339:C:O4'	2.13	0.48
9:AH:20:TYR:HA	9:AH:85:ALA:H	1.78	0.48
29:B1:3273:A:C2	29:B1:3274:A:C5	3.01	0.48
29:B1:624:G:N3	29:B1:625:G:C8	2.81	0.48
29:D1:1013:G:H4'	29:D1:1014:U:OP1	2.13	0.48
29:B1:331:G:N1	31:B3:33:A:C2	2.82	0.48
30:D2:3:U:C2	30:D2:4:U:C6	3.01	0.48
29:D1:2577:C:O2'	29:D1:2578:U:H5'	2.13	0.48
29:B1:3352:U:O2	29:B1:3352:U:C2'	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:773:C:O2	1:C1:774:A:C8	2.66	0.48
29:D1:2833:A:C2	29:D1:2834:G:O4'	2.67	0.48
1:A1:778:G:C2	1:A1:783:G:C6	3.01	0.48
29:B1:365:A:N1	29:B1:366:A:C4	2.82	0.48
29:B1:2128:C:C5	29:B1:2129:U:C5	3.01	0.48
37:BF:117:LYS:O	37:BF:118:GLU:O	2.31	0.48
29:D1:2879:C:C5	29:D1:2880:U:C5	3.02	0.48
1:A1:133:U:O2	1:A1:133:U:H2'	2.14	0.48
44:DO:158:HIS:C	44:DO:160:GLU:H	2.16	0.48
1:A1:697:C:C2'	1:A1:698:U:H5''	2.44	0.48
1:A1:747:C:H2'	1:A1:748:U:H6	1.78	0.48
29:B1:2468:A:H2	29:B1:2469:G:N3	2.12	0.48
29:D1:1358:C:C2	29:D1:1359:C:C6	3.01	0.48
42:DK:82:ARG:HA	42:DK:85:LYS:CB	2.43	0.48
29:B1:2792:A:O5'	29:B1:2792:A:C8	2.59	0.48
29:D1:666:A:C5	29:D1:667:C:C5	3.01	0.48
35:BD:273:GLY:C	35:BD:275:THR:H	2.17	0.48
47:DR:149:ALA:HB3	47:DR:150:VAL:CA	2.43	0.48
29:B1:1459:C:H2'	29:B1:1460:A:H5'	1.95	0.48
29:B1:1306:G:C6	45:BP:63:ALA:CA	2.97	0.48
1:C1:565:C:C2	1:C1:576:G:C6	3.01	0.48
47:DR:103:ALA:O	47:DR:104:LEU:C	2.50	0.48
1:A1:906:A:OP2	9:AH:50:ALA:O	2.31	0.48
1:C1:1395:G:H2'	1:C1:1396:U:C5'	2.44	0.48
51:BV:4:GLU:HA	51:BV:13:ILE:C	2.33	0.48
50:DU:17:LEU:O	50:DU:52:ALA:N	2.47	0.48
1:A1:1550:A:H2'	1:A1:1551:U:C6	2.48	0.48
42:DK:34:SER:O	42:DK:37:LEU:N	2.47	0.48
39:BH:126:SER:O	39:BH:130:TYR:N	2.45	0.48
2:AA:42:PRO:O	2:AA:44:GLY:N	2.46	0.48
35:BD:234:ASN:C	35:BD:236:LEU:N	2.66	0.48
48:DS:141:HIS:O	48:DS:145:ALA:HB3	2.13	0.48
21:AT:297:ASP:O	21:AT:298:GLY:C	2.52	0.48
15:AN:61:LYS:CB	15:AN:86:ILE:O	2.62	0.48
44:BO:175:ASN:O	44:BO:176:LYS:CB	2.61	0.48
43:BN:104:ALA:H	43:BN:106:ARG:H	1.61	0.48
29:B1:203:G:H2'	29:B1:204:A:O4'	2.13	0.48
42:BK:156:LYS:C	42:BK:158:ASP:H	2.16	0.48
21:AT:173:GLY:C	21:AT:175:ASP:H	2.16	0.48
1:A1:1032:G:C2'	1:A1:1033:C:O5'	2.62	0.48
1:A1:1120:U:C2	1:A1:1121:C:C6	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1790:A:O2'	1:A1:1792:G:N2	2.46	0.48
1:A1:5:U:C2	1:A1:20:G:N2	2.81	0.48
1:A1:544:A:OP2	1:A1:544:A:C8	2.67	0.48
1:A1:600:U:P	17:AP:108:GLY:H	2.37	0.48
29:B1:1129:A:C5	29:B1:1130:A:C6	2.99	0.48
29:B1:1167:U:O2'	29:B1:1168:U:O5'	2.31	0.48
29:B1:1293:U:H2'	29:B1:1294:A:O5'	2.13	0.48
29:B1:1499:C:C2	29:B1:1500:G:C8	3.01	0.48
29:B1:1655:G:H5''	29:B1:1656:A:H2'	1.96	0.48
29:B1:1787:A:C3'	29:B1:1788:C:H5''	2.44	0.48
29:B1:1506:A:H1'	29:B1:1848:G:O6	2.12	0.48
29:B1:197:G:C5	29:B1:198:A:N7	2.81	0.48
29:B1:209:A:OP1	29:B1:210:U:OP1	2.32	0.48
29:B1:221:A:N9	29:B1:224:C:N4	2.62	0.48
29:B1:2299:A:C4	29:B1:2300:G:H8	2.30	0.48
29:B1:2342:U:O2'	29:B1:2343:C:H5'	2.13	0.48
29:B1:265:A:H4'	29:B1:266:A:OP1	2.14	0.48
29:B1:2773:C:C2	29:B1:2774:C:C5	3.02	0.48
29:B1:2785:A:C6	29:B1:2786:G:C5	3.02	0.48
29:B1:2809:C:C2'	29:B1:2810:C:OP1	2.61	0.48
29:B1:283:G:C4	29:B1:285:A:N7	2.82	0.48
29:B1:3072:C:C5	29:B1:3073:A:C8	3.00	0.48
29:B1:3097:C:O2'	29:B1:3098:G:OP1	2.30	0.48
29:B1:3330:A:C2'	29:B1:3331:U:O5'	2.61	0.48
29:B1:361:A:H2'	29:B1:362:U:O4'	2.13	0.48
29:B1:538:G:N3	29:B1:556:U:H5	2.11	0.48
29:B1:30:G:C5	29:B1:55:G:C6	3.02	0.48
29:B1:641:C:H3'	29:B1:641:C:H6	1.79	0.48
29:B1:692:A:C2'	29:B1:693:A:H8	2.27	0.48
29:B1:860:G:C2	29:B1:2133:U:C2	3.02	0.48
35:BD:99:MET:O	35:BD:100:PHE:O	2.31	0.48
1:C1:1096:C:O2	1:C1:1096:C:C2'	2.61	0.48
1:C1:1099:U:O2'	1:C1:1100:G:C1'	2.61	0.48
1:C1:1654:G:N2	1:C1:1745:G:C4	2.81	0.48
1:C1:262:U:C5	1:C1:263:C:N4	2.82	0.48
1:C1:263:C:O3'	1:C1:264:G:O4'	2.30	0.48
1:C1:266:A:H3'	1:C1:267:U:O4'	2.13	0.48
1:C1:350:U:OP1	1:C1:351:C:O2'	2.19	0.48
1:C1:518:A:C6	1:C1:535:A:N3	2.81	0.48
1:C1:873:U:N3	1:C1:874:C:N4	2.61	0.48
1:C1:89:G:C5	1:C1:90:C:C5	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1113:G:H4'	54:DY:17:ALA:HB1	1.95	0.48
29:D1:1188:U:H3	29:D1:1317:A:N6	2.11	0.48
29:D1:1317:A:N7	29:D1:1319:G:N7	2.61	0.48
29:D1:1317:A:C5	29:D1:1319:G:C5	3.01	0.48
29:D1:1326:A:C6	29:D1:1327:C:C4	3.02	0.48
29:D1:1330:A:C8	29:D1:1330:A:C3'	2.97	0.48
29:D1:1406:A:H2	29:D1:1407:A:C2	2.31	0.48
29:D1:1449:A:N3	29:D1:2356:A:C5	2.81	0.48
29:D1:1454:A:H3'	29:D1:1454:A:C8	2.49	0.48
29:D1:1515:A:H2'	29:D1:1516:C:C6	2.48	0.48
29:D1:1526:U:O4'	29:D1:1594:A:N1	2.46	0.48
29:D1:1524:A:O4'	29:D1:1607:U:O2	2.31	0.48
29:D1:1783:U:C2	29:D1:1784:G:N7	2.82	0.48
29:D1:2254:U:C2'	29:D1:2255:A:OP1	2.60	0.48
29:D1:2655:U:O4'	29:D1:2656:A:C4	2.66	0.48
29:D1:2717:U:C6	29:D1:2717:U:H5'	2.49	0.48
29:D1:2897:A:N7	29:D1:2899:C:O4'	2.46	0.48
29:D1:2901:G:H8	29:D1:2901:G:O5'	1.96	0.48
29:D1:2906:C:H2'	29:D1:2907:G:O4'	2.13	0.48
29:D1:311:C:N4	29:D1:312:C:C4	2.81	0.48
29:D1:3390:G:N3	29:D1:3391:A:H1'	2.29	0.48
29:D1:3377:G:C5'	74:D1:3452:OHX:N2	2.77	0.48
29:D1:564:G:C5	29:D1:565:U:C4	3.02	0.48
29:D1:572:A:N6	29:D1:573:C:C4	2.81	0.48
29:D1:66:A:N6	29:D1:68:C:O2	2.47	0.48
29:D1:746:A:C2'	29:D1:747:A:OP1	2.62	0.48
29:D1:812:G:N3	29:D1:813:G:C8	2.81	0.48
29:D1:992:A:C2	29:D1:993:G:C8	3.01	0.48
31:D3:40:A:N6	31:D3:104:A:N9	2.62	0.48
45:DP:62:THR:O	45:DP:63:ALA:HB3	2.13	0.48
1:A1:218:A:O2'	1:A1:219:A:H8	1.96	0.48
1:A1:221:A:C6	1:A1:833:U:O4	2.66	0.48
1:A1:741:C:O2'	1:A1:742:U:H6	1.96	0.48
30:B2:63:A:N1	30:B2:65:G:O6	2.46	0.48
1:A1:452:A:H2	1:A1:454:U:O5'	1.94	0.48
1:A1:454:U:O4	1:A1:456:A:C4	2.67	0.48
1:A1:57:G:C5	1:A1:91:G:C2	3.01	0.48
1:A1:89:G:C6	1:A1:90:C:C4	3.01	0.48
1:C1:340:U:N3	1:C1:341:A:N7	2.62	0.48
45:BP:124:LEU:HA	45:BP:126:VAL:CA	2.38	0.48
1:C1:1186:U:O2'	1:C1:1187:U:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1424:A:H2'	1:C1:1425:A:O4'	2.14	0.48
1:C1:1486:G:H1'	1:C1:1592:A:O2'	2.13	0.48
1:C1:1493:A:N3	1:C1:1493:A:C2'	2.76	0.48
14:CM:63:ARG:C	14:CM:65:ILE:H	2.17	0.48
1:A1:1206:U:C6	1:A1:1207:C:C6	3.01	0.48
1:A1:1466:G:C5	1:A1:1467:C:N4	2.82	0.48
1:A1:1535:U:O2'	1:A1:1536:G:N2	2.47	0.48
29:D1:3198:U:O2	29:D1:3199:G:C8	2.66	0.48
30:B2:48:U:H2'	30:B2:49:G:OP2	2.14	0.48
29:D1:370:U:O2	29:D1:403:C:C4	2.64	0.48
35:DD:168:ALA:C	35:DD:170:LYS:H	2.16	0.48
29:B1:1268:G:H1	29:B1:1272:C:N4	2.11	0.48
29:B1:1270:A:C8	29:B1:1271:A:C8	3.02	0.48
29:D1:3172:A:C1'	29:D1:3173:G:N7	2.67	0.48
30:D2:30:G:N1	30:D2:49:G:C2	2.78	0.48
1:A1:158:U:HO2'	1:A1:159:U:P	2.36	0.48
29:D1:2588:U:H2'	29:D1:2588:U:O2	2.13	0.48
1:C1:158:U:HO2'	1:C1:159:U:P	2.37	0.48
1:C1:158:U:O2'	1:C1:159:U:P	2.71	0.48
1:A1:1219:A:C4'	1:A1:1220:C:C5	2.97	0.48
29:D1:1233:G:C2	29:D1:1234:G:C8	3.02	0.48
29:D1:1246:G:C5	29:D1:1264:G:C2	3.01	0.48
4:CC:97:SER:O	4:CC:99:VAL:N	2.47	0.48
29:D1:1645:U:H2'	29:D1:1646:G:O5'	2.14	0.48
1:C1:1332:C:O2	1:C1:1333:C:C6	2.67	0.48
29:B1:1080:A:OP2	29:B1:1080:A:H8	1.96	0.48
29:B1:1640:G:P	29:B1:1738:C:H5''	2.54	0.48
29:D1:2102:U:H2'	29:D1:2103:U:C5	2.49	0.48
1:A1:1334:U:C4	1:A1:1335:U:C5	3.01	0.48
1:C1:1092:A:C2	1:C1:1094:G:C5	3.01	0.48
11:CJ:96:TYR:O	11:CJ:97:VAL:CB	2.61	0.48
43:BN:50:LYS:N	43:BN:53:VAL:CB	2.73	0.48
36:BE:156:GLY:O	36:BE:157:ALA:HB2	2.13	0.48
1:C1:1169:G:N2	1:C1:1577:A:C5	2.82	0.48
1:C1:1575:G:N2	1:C1:1576:A:C1'	2.76	0.48
1:C1:1578:U:C2'	1:C1:1579:U:H5'	2.43	0.48
1:C1:1660:A:C5	1:C1:1661:U:C5	3.01	0.48
29:D1:1641:U:H4'	29:D1:1642:A:OP1	2.13	0.48
29:D1:1695:U:O2	29:D1:1749:A:C2	2.67	0.48
29:D1:366:A:O5'	29:D1:366:A:H8	1.96	0.48
29:D1:1041:U:H2'	29:D1:1041:U:O2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:133:U:H4'	1:C1:134:U:OP2	2.13	0.48
1:A1:1696:G:N2	1:A1:1708:U:H1'	2.29	0.48
29:B1:1651:U:C2'	29:B1:1652:G:H5'	2.44	0.48
1:A1:807:A:C8	1:A1:807:A:C5'	2.97	0.48
41:BJ:184:LYS:O	41:BJ:186:GLU:N	2.47	0.48
29:D1:2182:A:C2'	29:D1:2183:A:H5'	2.44	0.48
54:DY:80:THR:C	54:DY:82:ILE:N	2.58	0.48
29:D1:173:G:H2'	29:D1:174:C:N1	2.29	0.48
7:AF:129:ARG:O	7:AF:130:PRO:C	2.51	0.48
29:B1:1005:G:H2'	29:B1:1006:A:O5'	2.13	0.48
13:CL:112:ASP:C	13:CL:114:GLU:H	2.16	0.48
1:C1:579:A:C2	4:CC:144:ALA:HB2	2.47	0.48
16:AO:114:GLU:HA	16:AO:117:ARG:CB	2.43	0.48
48:DS:130:ASN:C	48:DS:132:PHE:N	2.64	0.48
41:DJ:151:GLY:O	41:DJ:152:LEU:C	2.51	0.48
19:AR:26:THR:HA	19:AR:38:ARG:HA	1.96	0.48
5:AD:220:VAL:C	5:AD:222:LYS:H	2.16	0.48
35:BD:215:ILE:O	35:BD:217:LYS:N	2.46	0.48
34:DC:222:LYS:O	34:DC:271:GLY:C	2.52	0.48
11:AJ:28:LEU:H	14:AM:1:MET:CB	2.26	0.48
29:B1:1761:C:O2'	29:B1:1762:C:H5''	2.13	0.48
5:AD:66:GLN:N	5:AD:87:CYS:N	2.61	0.48
38:BG:105:LEU:C	38:BG:107:ARG:N	2.65	0.48
13:AL:17:LEU:O	13:AL:21:ASN:O	2.31	0.48
35:DD:261:VAL:O	35:DD:262:TRP:C	2.52	0.48
38:BG:144:ILE:O	38:BG:145:ARG:C	2.49	0.48
42:BK:109:HIS:O	42:BK:110:ILE:CB	2.61	0.48
41:BJ:219:ALA:C	41:BJ:221:ALA:H	2.17	0.48
29:B1:175:C:O2	29:B1:175:C:H2'	2.12	0.48
6:CE:38:ASN:O	6:CE:39:LYS:O	2.31	0.48
9:CH:98:GLY:O	9:CH:101:ALA:HB3	2.14	0.48
48:BS:158:GLU:O	48:BS:161:ALA:HB3	2.13	0.48
17:CP:27:ASN:O	17:CP:28:ASN:CB	2.61	0.48
1:A1:1671:A:C2	1:A1:1672:G:H1'	2.48	0.48
1:A1:1747:G:H2'	1:A1:1748:G:C8	2.49	0.48
1:A1:381:C:H1'	1:A1:756:A:C2	2.49	0.48
1:A1:474:A:N1	1:A1:594:A:H5'	2.29	0.48
1:A1:528:U:O2	1:A1:528:U:O4'	2.32	0.48
1:A1:551:G:O4'	1:A1:581:U:O2	2.32	0.48
1:A1:547:U:O2'	1:A1:596:C:O2	2.27	0.48
29:B1:954:U:C5	29:B1:1115:G:O2'	2.65	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1156:C:C2'	29:B1:1156:C:O2	2.60	0.48
29:B1:1296:C:O2'	29:B1:1297:C:P	2.71	0.48
29:B1:1380:G:C2	29:B1:1381:A:N7	2.82	0.48
29:B1:628:A:C5'	29:B1:1399:A:N7	2.76	0.48
29:B1:1522:U:C6	29:B1:1835:A:O4'	2.66	0.48
29:B1:1601:U:O2	29:B1:1603:A:OP2	2.32	0.48
29:B1:1682:U:H5'	29:B1:1683:A:OP2	2.14	0.48
29:B1:1900:A:O4'	29:B1:1901:A:N1	2.46	0.48
29:B1:191:U:C2'	29:B1:191:U:O2	2.60	0.48
29:B1:2137:U:OP1	29:B1:2137:U:C4'	2.62	0.48
29:B1:2315:G:N2	29:B1:2316:G:C5	2.82	0.48
29:B1:2357:A:H2'	29:B1:2358:A:O5'	2.12	0.48
29:B1:2610:G:N3	29:B1:2611:U:C6	2.82	0.48
29:B1:2743:A:C5	29:B1:2744:U:C5	3.02	0.48
29:B1:2951:G:O2'	29:B1:2952:G:H5'	2.13	0.48
29:B1:2955:U:C2	29:B1:2956:A:C8	3.02	0.48
29:B1:3040:A:H2'	29:B1:3040:A:N3	2.27	0.48
29:B1:30:G:C2	29:B1:55:G:C5	3.02	0.48
29:B1:3109:G:N3	29:B1:3110:C:C6	2.81	0.48
29:B1:3114:A:N7	29:B1:3115:C:C6	2.81	0.48
29:B1:3306:U:O2'	29:B1:3309:G:N1	2.42	0.48
29:B1:422:A:H1'	29:B1:423:A:O5'	2.12	0.48
29:B1:514:G:H3'	29:B1:515:C:C5	2.49	0.48
29:B1:548:G:OP2	29:B1:548:G:C8	2.65	0.48
29:B1:588:G:C4	29:B1:612:U:C5	3.02	0.48
29:B1:637:C:N1	29:B1:2361:A:C2	2.81	0.48
29:B1:7:C:N3	29:B1:8:C:C4	2.82	0.48
29:B1:826:G:N3	29:B1:827:A:C8	2.81	0.48
29:B1:901:G:C6	29:B1:902:G:N7	2.81	0.48
31:B3:106:C:C6	31:B3:138:A:N7	2.81	0.48
1:C1:1043:A:C4	1:C1:1044:U:C5	3.02	0.48
1:C1:1141:G:N3	1:C1:1142:A:C8	2.82	0.48
1:C1:1142:A:H2'	1:C1:1143:A:C8	2.49	0.48
1:C1:1673:G:C8	1:C1:1674:C:C5	3.01	0.48
1:C1:16:G:C2	1:C1:17:C:N3	2.82	0.48
1:C1:286:C:H2'	1:C1:287:G:H8	1.76	0.48
1:C1:351:C:OP1	1:C1:630:A:O2'	2.31	0.48
1:C1:356:G:C2	1:C1:357:G:C8	3.02	0.48
1:C1:464:A:N3	1:C1:464:A:H2'	2.28	0.48
1:C1:57:G:O6	74:C1:1995:OHX:N6	2.46	0.48
1:C1:70:C:C4	1:C1:71:A:N6	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:986:G:H2'	1:C1:987:G:C8	2.43	0.48
1:C1:993:A:C8	1:C1:994:G:C8	3.01	0.48
1:C1:990:C:H4'	9:CH:128:LYS:O	2.14	0.48
29:D1:1149:G:H3'	29:D1:1150:A:C5'	2.44	0.48
29:D1:1153:A:N6	29:D1:1154:A:N1	2.56	0.48
29:D1:1170:A:N7	29:D1:1171:G:C8	2.82	0.48
29:D1:1180:A:N3	29:D1:1182:A:N9	2.61	0.48
29:D1:1205:A:C5	29:D1:1206:G:C8	3.01	0.48
29:D1:1403:C:H5'	29:D1:1404:G:OP2	2.14	0.48
29:D1:1883:A:N3	29:D1:1883:A:H2'	2.28	0.48
29:D1:1895:A:C6	29:D1:2341:A:N1	2.82	0.48
29:D1:1903:U:C2	29:D1:1905:G:C5'	2.94	0.48
29:D1:2297:U:OP2	29:D1:2297:U:H6	1.96	0.48
29:D1:2313:A:C1'	29:D1:2315:G:C8	2.97	0.48
29:D1:2340:U:C2'	29:D1:2341:A:H5'	2.44	0.48
29:D1:2860:U:H1'	29:D1:2939:G:OP1	2.13	0.48
29:D1:3047:U:N3	29:D1:3048:A:N1	2.62	0.48
29:D1:3055:U:O2'	29:D1:3057:U:OP1	2.24	0.48
29:D1:2390:A:O4'	29:D1:3307:A:N1	2.47	0.48
29:D1:3330:A:C4	29:D1:3331:U:C5	3.01	0.48
29:D1:3294:A:C2	29:D1:3395:G:N2	2.82	0.48
29:D1:34:A:C8	29:D1:51:A:C6	3.01	0.48
29:D1:509:U:N3	29:D1:510:G:C8	2.82	0.48
29:D1:559:A:H2'	29:D1:560:G:C8	2.48	0.48
29:D1:576:C:C2'	29:D1:577:C:O5'	2.61	0.48
29:D1:576:C:O2'	29:D1:577:C:OP1	2.25	0.48
29:D1:596:C:N4	29:D1:608:A:N3	2.61	0.48
29:D1:65:A:H2'	29:D1:111:C:H41	1.78	0.48
29:D1:733:G:HO2'	29:D1:734:C:H5	1.61	0.48
29:D1:738:A:N3	29:D1:739:G:C8	2.81	0.48
29:D1:832:G:N1	29:D1:863:C:C4	2.81	0.48
31:D3:4:C:H2'	31:D3:5:U:H5'	1.94	0.48
31:D3:74:U:H4'	31:D3:89:A:C4	2.48	0.48
33:DB:186:PHE:O	33:DB:187:HIS:C	2.52	0.48
1:A1:228:G:C6	1:A1:229:U:N3	2.81	0.48
1:A1:704:C:C1'	1:A1:705:U:OP1	2.61	0.48
1:C1:223:U:H2'	1:C1:224:C:C6	2.48	0.48
1:C1:224:C:N3	1:C1:838:G:C2	2.81	0.48
1:C1:647:G:C2	1:C1:687:G:N1	2.81	0.48
29:B1:2727:A:N1	29:B1:2729:U:H5	2.11	0.48
29:B1:955:U:C4	29:B1:967:A:C6	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:993:G:N3	29:B1:2637:A:C2'	2.70	0.48
30:B2:67:G:N2	30:B2:68:C:C1'	2.77	0.48
30:B2:9:C:OP2	30:B2:9:C:C6	2.67	0.48
41:BJ:170:LYS:O	41:BJ:178:ARG:N	2.47	0.48
1:A1:130:C:C5	1:A1:131:C:H1'	2.49	0.48
1:A1:61:A:C4'	1:A1:62:A:H3'	2.41	0.48
30:D2:102:A:H2'	30:D2:103:A:O5'	2.14	0.48
1:C1:250:C:OP2	1:C1:251:A:OP2	2.32	0.48
1:C1:335:U:C4	1:C1:336:G:C6	3.02	0.48
1:A1:330:G:C2	1:A1:331:A:C8	3.01	0.48
1:C1:1206:U:H5'	1:C1:1207:C:OP2	2.14	0.48
1:C1:1258:U:H2'	1:C1:1259:U:C1'	2.42	0.48
1:C1:1344:A:O2'	1:C1:1345:A:O5'	2.31	0.48
1:C1:1542:G:H21	1:C1:1568:C:H2'	1.73	0.48
1:C1:1619:C:N3	1:C1:1620:C:H5	2.12	0.48
1:A1:1188:G:H2'	1:A1:1189:A:C8	2.42	0.48
1:A1:1230:A:H2'	1:A1:1230:A:N3	2.28	0.48
1:A1:1262:U:H2'	1:A1:1263:G:H8	1.78	0.48
1:A1:1346:A:O4'	1:A1:1346:A:P	2.72	0.48
1:A1:1438:G:H5'	1:A1:1438:G:H8	1.78	0.48
1:A1:1452:U:C4	1:A1:1453:G:N7	2.82	0.48
1:A1:1602:C:C5'	1:A1:1603:U:OP2	2.61	0.48
29:D1:1183:C:C3'	29:D1:1184:A:H5''	2.43	0.48
29:B1:3255:U:H2'	29:B1:3256:G:C8	2.48	0.48
29:D1:623:U:C2'	29:D1:624:G:H8	2.22	0.48
29:D1:3182:G:H2'	29:D1:3183:A:O4'	2.14	0.48
46:DQ:111:LYS:O	46:DQ:112:LEU:C	2.51	0.48
29:D1:405:U:C5	29:D1:406:G:C8	3.02	0.48
29:D1:1393:A:N7	29:D1:1418:A:N9	2.61	0.48
29:B1:1260:A:C6	29:B1:1261:G:C8	3.01	0.48
30:B2:57:G:C8	30:B2:58:C:C6	3.02	0.48
29:D1:1246:G:C6	29:D1:1264:G:C2	3.01	0.48
4:CC:69:LEU:O	4:CC:70:THR:C	2.52	0.48
29:B1:3260:G:C6	29:B1:3261:C:C1'	2.97	0.48
1:A1:945:U:O2'	1:A1:946:U:H5'	2.14	0.48
1:A1:1404:C:H2'	1:A1:1405:G:C8	2.47	0.48
30:D2:88:G:N3	30:D2:89:G:C8	2.82	0.48
39:BH:99:PRO:HA	39:BH:236:GLY:H	1.78	0.48
30:D2:2:G:C2	30:D2:3:U:C5	3.02	0.48
1:A1:353:A:N6	1:A1:354:C:N3	2.61	0.48
29:B1:1912:U:H1'	29:B1:1913:A:OP1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:140:C:O2'	29:D1:141:C:H5'	2.12	0.48
29:B1:1807:G:OP2	29:B1:1807:G:H8	1.96	0.48
42:DK:143:ARG:O	42:DK:144:CYS:C	2.51	0.48
29:D1:2964:G:C6	29:D1:2968:G:O6	2.66	0.48
44:BO:157:LYS:C	44:BO:159:ARG:N	2.66	0.48
29:D1:1357:G:C2'	29:D1:1358:C:C6	2.96	0.48
42:DK:101:ASN:C	42:DK:103:GLY:H	2.17	0.48
29:B1:736:A:N7	29:B1:737:G:N7	2.61	0.48
29:D1:2547:A:C6	29:D1:2548:C:N4	2.81	0.48
1:C1:876:G:C8	1:C1:944:A:C2	3.02	0.48
38:BG:85:PHE:O	38:BG:86:VAL:C	2.50	0.48
29:D1:246:U:P	29:D1:246:U:H3'	2.54	0.48
29:B1:291:C:O2'	29:B1:2599:U:H1'	2.13	0.48
1:A1:665:U:H2'	1:A1:666:U:C5'	2.43	0.48
29:D1:495:G:H2'	29:D1:496:C:H5'	1.94	0.48
14:CM:103:LYS:C	14:CM:105:LEU:N	2.66	0.48
45:BP:95:GLY:O	45:BP:97:ALA:C	2.52	0.48
37:BF:60:ASP:O	37:BF:61:ASN:CB	2.61	0.48
44:DO:56:LYS:HA	44:DO:57:GLN:HA	1.58	0.48
10:AI:73:PRO:O	10:AI:74:ALA:CB	2.62	0.48
36:BE:118:THR:C	36:BE:120:LYS:H	2.16	0.48
10:CI:98:ASN:H	10:CI:101:ALA:HB3	1.79	0.48
35:BD:254:ALA:O	35:BD:258:LEU:N	2.46	0.48
35:DD:181:VAL:O	35:DD:182:LEU:CB	2.62	0.48
1:C1:1224:A:C6	1:C1:1225:U:O4	2.66	0.48
17:CP:114:LYS:CB	17:CP:115:GLY:CA	2.92	0.48
2:AA:63:ILE:C	2:AA:65:ALA:N	2.67	0.48
5:CD:180:ARG:O	5:CD:182:ALA:N	2.46	0.48
10:CI:11:VAL:O	10:CI:13:LYS:N	2.42	0.48
35:BD:234:ASN:C	35:BD:236:LEU:H	2.17	0.48
46:DQ:16:SER:HA	46:DQ:149:VAL:HA	1.95	0.48
53:BX:73:VAL:HA	53:BX:80:VAL:HA	1.96	0.48
36:BE:150:LEU:O	36:BE:151:GLN:O	2.32	0.48
52:DW:75:LYS:C	52:DW:77:GLU:H	2.16	0.48
34:DC:24:SER:O	34:DC:26:ARG:O	2.32	0.48
29:B1:2412:G:C4	29:B1:2811:A:C2	3.02	0.48
46:DQ:22:LEU:O	46:DQ:144:SER:N	2.40	0.48
3:CB:91:ARG:O	3:CB:92:ALA:HB3	2.13	0.48
1:A1:1631:A:H2'	1:A1:1632:C:C4'	2.43	0.48
1:A1:1746:A:H8	1:A1:1746:A:O5'	1.97	0.48
1:A1:23:G:H2'	1:A1:24:U:H6	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:93:A:C6	1:A1:398:G:C6	3.01	0.48
1:A1:469:C:H5''	1:A1:470:A:OP2	2.13	0.48
1:A1:551:G:N1	1:A1:552:G:C6	2.82	0.48
1:A1:619:A:O5'	1:A1:620:A:OP2	2.31	0.48
1:A1:938:G:H5'	1:A1:939:A:OP2	2.13	0.48
1:A1:986:G:C4'	1:A1:987:G:OP1	2.62	0.48
29:B1:1192:C:OP1	29:B1:1192:C:O2	2.31	0.48
29:B1:144:A:H2'	29:B1:145:G:C1'	2.43	0.48
29:B1:120:G:N2	29:B1:150:A:C8	2.81	0.48
29:B1:1681:U:H5'	29:B1:1682:U:OP2	2.13	0.48
29:B1:1907:C:H5	29:B1:1908:A:C5	2.31	0.48
29:B1:2317:A:H2'	29:B1:2318:U:O4'	2.13	0.48
29:B1:2607:G:C5	29:B1:2608:G:N7	2.82	0.48
29:B1:2738:A:H3'	29:B1:2739:A:H8	1.79	0.48
29:B1:2841:G:C5	29:B1:2844:C:N4	2.82	0.48
29:B1:3073:A:H2'	29:B1:3074:G:O4'	2.12	0.48
29:B1:3123:A:C2'	29:B1:3124:G:H5'	2.43	0.48
29:B1:3314:A:H2'	34:BC:119:TYR:H	1.74	0.48
29:B1:3315:G:H4'	29:B1:3319:U:O3'	2.14	0.48
29:B1:3387:U:N3	29:B1:3388:C:N4	2.61	0.48
29:B1:3391:A:C2	29:B1:3392:U:N1	2.81	0.48
29:B1:3393:U:C2	29:B1:3394:U:C5	3.02	0.48
29:B1:372:A:C6	29:B1:373:A:C6	3.01	0.48
29:B1:532:A:N1	29:B1:533:A:N3	2.62	0.48
29:B1:580:C:H5''	29:B1:581:U:OP2	2.14	0.48
29:B1:720:A:P	29:B1:720:A:H8	2.36	0.48
29:B1:771:A:C3'	29:B1:772:U:C5'	2.92	0.48
29:B1:359:U:H4'	29:B1:817:A:N6	2.29	0.48
29:B1:80:G:N1	29:B1:81:C:C5	2.82	0.48
29:B1:411:U:C2	31:B3:13:A:C2	3.02	0.48
31:B3:8:C:C5	31:B3:9:A:N7	2.82	0.48
38:BG:55:TYR:O	38:BG:56:GLU:C	2.52	0.48
44:BO:108:ARG:O	44:BO:110:ALA:N	2.47	0.48
1:C1:1096:C:C2'	1:C1:1100:G:OP2	2.62	0.48
1:C1:1086:A:C2	1:C1:1141:G:N3	2.81	0.48
1:C1:148:A:N6	1:C1:167:U:C2	2.82	0.48
1:C1:1771:U:C2	1:C1:1772:C:C6	3.02	0.48
1:C1:210:A:C3'	1:C1:211:U:H5''	2.44	0.48
1:C1:359:A:H2'	1:C1:359:A:N3	2.28	0.48
1:C1:372:G:H1'	1:C1:612:U:H3	1.78	0.48
1:C1:451:A:N6	1:C1:456:A:N6	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:605:A:N6	1:C1:606:A:H61	2.11	0.48
1:C1:620:A:C6	1:C1:621:A:N1	2.81	0.48
1:C1:818:C:C2'	1:C1:819:G:C8	2.97	0.48
29:D1:1406:A:C2	29:D1:1407:A:C4	3.02	0.48
29:D1:1779:C:H4'	29:D1:1779:C:OP1	2.13	0.48
29:D1:1794:G:C4'	29:D1:1795:U:OP2	2.55	0.48
29:D1:2258:U:H3'	29:D1:2259:A:C8	2.48	0.48
29:D1:2287:C:O2	29:D1:2298:U:C4'	2.62	0.48
29:D1:2699:G:H2'	29:D1:2700:G:H8	1.77	0.48
29:D1:2739:A:H2'	29:D1:2739:A:N3	2.28	0.48
29:D1:2908:G:C6	29:D1:2909:U:C4	3.02	0.48
29:D1:271:C:C4	29:D1:295:A:N7	2.81	0.48
29:D1:2140:U:H2'	29:D1:2977:G:O2'	2.14	0.48
29:D1:2992:U:O4	29:D1:2993:G:C8	2.67	0.48
29:D1:3113:A:O2'	29:D1:3114:A:H5'	2.14	0.48
29:D1:3113:A:N1	29:D1:3122:A:C8	2.82	0.48
29:D1:3300:U:O4'	29:D1:3300:U:OP2	2.32	0.48
29:D1:3316:A:H4'	29:D1:3317:U:OP2	2.11	0.48
29:D1:532:A:C2'	29:D1:533:A:C8	2.96	0.48
29:D1:641:C:O2'	29:D1:642:U:P	2.71	0.48
29:D1:716:A:O4'	29:D1:716:A:P	2.71	0.48
29:D1:737:G:C2	29:D1:738:A:C8	3.02	0.48
29:D1:774:G:C4	29:D1:775:A:C8	3.02	0.48
29:D1:88:A:C8	29:D1:88:A:H3'	2.48	0.48
29:D1:92:G:N7	29:D1:94:G:N2	2.62	0.48
29:D1:945:C:H3'	29:D1:946:U:C6	2.49	0.48
31:D3:49:G:C2'	31:D3:50:C:O5'	2.62	0.48
31:D3:67:U:O3'	31:D3:68:G:O4'	2.32	0.48
31:D3:78:G:N1	31:D3:79:A:C6	2.82	0.48
37:DF:162:SER:C	37:DF:165:LEU:H	2.17	0.48
38:DG:84:VAL:C	38:DG:86:VAL:N	2.65	0.48
1:A1:227:U:O2'	1:A1:228:G:OP2	2.23	0.48
1:C1:800:U:C2	1:C1:801:G:N7	2.82	0.48
29:B1:2614:G:C6	29:B1:2615:G:C5	3.01	0.48
31:B3:48:A:C4	31:B3:51:G:N7	2.82	0.48
31:B3:65:A:C2'	31:B3:66:A:H8	2.11	0.48
31:B3:65:A:C8	31:B3:66:A:N7	2.82	0.48
31:B3:79:A:H3'	31:B3:80:A:C8	2.49	0.48
1:A1:287:G:C2'	1:A1:288:A:H5'	2.44	0.48
1:A1:62:A:H1'	1:A1:63:G:P	2.54	0.48
1:A1:71:A:C2	1:A1:72:A:N6	2.71	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:114:C:C5	1:C1:248:U:C4	3.01	0.48
1:C1:1684:U:H3'	1:C1:1685:G:H5'	1.96	0.48
29:B1:2673:A:C2	29:B1:2676:A:H8	2.32	0.48
29:B1:2677:G:N1	29:B1:2679:A:C4	2.81	0.48
29:B1:2684:C:N3	29:B1:2685:C:C5	2.81	0.48
1:A1:1691:A:N7	1:A1:1692:G:C4	2.82	0.48
1:C1:1172:G:C5	1:C1:1173:C:N4	2.82	0.48
1:C1:1353:U:H3	1:C1:1371:A:H61	1.61	0.48
1:C1:1569:A:C2	1:C1:1570:A:C8	3.01	0.48
1:C1:1602:C:C2	1:C1:1603:U:C6	3.01	0.48
1:C1:1620:C:C2'	1:C1:1620:C:O2	2.60	0.48
1:C1:1348:A:O3'	15:CN:11:GLU:HA	2.13	0.48
1:A1:1275:A:C8	1:A1:1438:G:N2	2.81	0.48
1:A1:1536:G:C2'	1:A1:1536:G:N3	2.75	0.48
1:A1:1584:G:N1	11:AJ:125:GLU:O	2.39	0.48
29:B1:383:G:H5'	29:B1:385:A:OP2	2.13	0.48
29:B1:3171:U:C2'	29:B1:3172:A:OP2	2.62	0.48
29:B1:3205:G:H2'	29:B1:3206:C:C5	2.49	0.48
43:DN:93:LYS:O	43:DN:96:ALA:N	2.46	0.48
30:B2:41:G:C2	30:B2:43:U:C6	3.02	0.48
30:B2:37:G:H21	30:B2:44:C:N4	2.10	0.48
29:D1:3215:A:H5''	29:D1:3218:A:P	2.54	0.48
30:D2:43:U:O2	30:D2:44:C:O4'	2.31	0.48
1:A1:418:G:N2	1:A1:419:G:C5	2.82	0.48
29:D1:1255:C:O2	29:D1:1255:C:H2'	2.14	0.48
73:DM:31:ASP:O	73:DM:32:ASN:CB	2.62	0.48
29:D1:3353:G:O6	29:D1:3356:G:C5	2.67	0.48
29:B1:1079:A:O4'	36:BE:141:PRO:CB	2.62	0.48
1:A1:1331:A:H2'	1:A1:1332:C:C5'	2.44	0.48
29:B1:1647:A:C2	29:B1:1809:A:H1'	2.49	0.48
29:D1:1677:G:C5	29:D1:1678:G:N7	2.82	0.48
29:B1:331:G:O2'	29:B1:332:C:P	2.72	0.48
1:A1:1664:C:O2	1:A1:1665:U:H1'	2.14	0.48
29:B1:1014:U:H4'	29:B1:1014:U:OP1	2.08	0.48
29:D1:3271:G:C3'	29:D1:3271:G:N3	2.77	0.48
29:B1:2536:A:C2	29:B1:2537:U:C2	3.02	0.48
11:CJ:86:ALA:C	11:CJ:88:GLY:N	2.66	0.48
29:D1:2561:A:P	29:D1:2561:A:C8	3.06	0.48
29:D1:2585:G:C8	31:D3:151:C:C2	3.01	0.48
29:B1:3348:G:C2	29:B1:3349:C:H1'	2.49	0.48
1:C1:1124:A:H2'	1:C1:1125:A:O4'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BY:135:GLU:C	54:BY:137:LYS:H	2.17	0.48
1:C1:783:G:C2'	1:C1:784:C:O5'	2.62	0.48
29:B1:839:C:H2'	29:B1:840:C:C6	2.49	0.48
1:C1:1696:G:N2	1:C1:1708:U:H1'	2.29	0.48
54:DY:139:ARG:HA	54:DY:143:GLY:H	1.78	0.48
1:A1:1359:C:C2	1:A1:1360:A:C8	3.02	0.48
29:B1:603:A:H8	29:B1:603:A:O5'	1.97	0.48
29:B1:668:G:C2'	29:B1:669:U:O5'	2.61	0.48
11:CJ:54:LEU:C	11:CJ:56:GLY:H	2.16	0.48
34:DC:166:ILE:O	34:DC:167:ARG:C	2.52	0.48
29:D1:102:C:H1'	29:D1:103:G:P	2.54	0.48
21:CT:181:TRP:CB	21:CT:188:ILE:HA	2.44	0.48
29:D1:665:A:C6	29:D1:666:A:C5	3.01	0.48
8:AG:108:ASP:O	8:AG:111:ALA:CB	2.61	0.48
1:C1:1358:G:O2'	14:CM:129:GLN:O	2.20	0.48
1:C1:568:G:H2'	1:C1:569:C:H5'	1.96	0.48
1:A1:929:A:N6	1:A1:930:A:C2	2.82	0.48
29:B1:2732:G:C5	29:B1:2733:A:C8	3.02	0.48
49:DT:75:ILE:HA	49:DT:89:LEU:O	2.14	0.48
52:BW:88:MET:C	52:BW:90:ALA:N	2.67	0.48
20:AS:26:SER:O	20:AS:28:THR:N	2.42	0.48
4:AC:75:LYS:O	4:AC:78:LYS:HA	2.14	0.48
49:BT:76:ILE:O	49:BT:77:ASN:CB	2.61	0.48
47:BR:77:ALA:C	47:BR:79:LYS:N	2.66	0.48
3:AB:57:PHE:C	3:AB:59:HIS:N	2.67	0.48
34:DC:17:LEU:CB	34:DC:18:PRO:HA	2.44	0.48
33:BB:200:ARG:O	33:BB:203:ALA:N	2.45	0.48
41:DJ:58:GLU:O	41:DJ:128:ARG:HA	2.14	0.48
29:B1:1135:A:O2'	29:B1:1136:A:H5'	2.14	0.48
39:DH:109:LEU:O	39:DH:110:THR:CB	2.61	0.48
29:B1:1760:A:C6	29:B1:1766:G:C5	3.02	0.48
29:B1:3083:G:C2'	29:B1:3084:C:O5'	2.62	0.48
36:DE:227:LEU:HA	36:DE:228:ALA:C	2.33	0.48
45:BP:38:ALA:O	45:BP:39:GLU:C	2.52	0.48
29:D1:1397:C:C4	29:D1:1398:U:C4	3.01	0.48
6:CE:179:ARG:C	6:CE:181:ALA:H	2.17	0.48
48:BS:144:GLN:O	48:BS:145:ALA:C	2.52	0.48
8:CG:93:LYS:O	8:CG:96:VAL:N	2.41	0.48
74:D1:3527:OHX:N5	74:D1:3615:OHX:N4	2.62	0.48
1:A1:1121:C:H1'	1:A1:1127:G:H22	1.77	0.48
1:A1:1758:U:H2'	1:A1:1759:C:C5	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1764:C:OP2	1:A1:1771:U:H5''	2.14	0.48
1:A1:1781:A:C6	1:A1:1782:A:C6	3.01	0.48
1:A1:107:C:O2'	1:A1:362:G:N3	2.47	0.48
1:A1:526:A:OP1	1:A1:527:A:N6	2.47	0.48
1:A1:539:G:N3	1:A1:543:C:C4	2.82	0.48
1:A1:551:G:C2	1:A1:552:G:C8	3.01	0.48
1:A1:545:A:N7	1:A1:594:A:N7	2.61	0.48
1:A1:607:G:C8	1:A1:613:G:C4	3.02	0.48
1:A1:818:C:H2'	1:A1:819:G:C8	2.48	0.48
1:A1:975:C:C4	1:A1:976:G:C5	3.01	0.48
29:B1:1139:G:C6	29:B1:1140:G:N7	2.82	0.48
29:B1:1150:A:H2'	29:B1:1151:U:O5'	2.14	0.48
29:B1:1304:A:N3	29:B1:2939:G:H1'	2.28	0.48
29:B1:155:G:H4'	29:B1:156:G:OP1	2.13	0.48
29:B1:1680:G:N3	29:B1:1681:U:H6	2.08	0.48
29:B1:20:A:HO2'	29:B1:21:G:P	2.37	0.48
29:B1:2304:C:HO2'	29:B1:2305:G:H5'	1.71	0.48
29:B1:2361:A:C5	29:B1:2362:C:C4	3.02	0.48
29:B1:2748:A:C5	29:B1:2749:G:H1'	2.49	0.48
29:B1:2749:G:C5	29:B1:2750:U:C5	3.01	0.48
29:B1:2406:C:C2	29:B1:2819:A:N6	2.82	0.48
29:B1:282:G:C4'	29:B1:283:G:C8	2.96	0.48
29:B1:2847:A:C2	29:B1:2848:G:C1'	2.97	0.48
29:B1:2869:U:C2'	29:B1:2869:U:O2	2.62	0.48
29:B1:2937:G:H2'	29:B1:2938:G:C5'	2.44	0.48
29:B1:3034:C:C3'	29:B1:3034:C:C6	2.96	0.48
29:B1:3059:G:H5''	29:B1:3059:G:C8	2.49	0.48
29:B1:3068:U:OP1	48:BS:58:HIS:CA	2.59	0.48
29:B1:3132:C:O2'	29:B1:3133:C:H5'	2.14	0.48
29:B1:3151:U:O2	29:B1:3152:U:O4	2.32	0.48
29:B1:3303:G:C2'	29:B1:3304:U:H5'	2.44	0.48
29:B1:3310:A:H2'	29:B1:3310:A:N3	2.28	0.48
29:B1:3373:U:C4	29:B1:3374:U:H5	2.31	0.48
29:B1:371:G:H2'	29:B1:373:A:N7	2.28	0.48
29:B1:413:U:O2'	29:B1:414:U:H5'	2.14	0.48
29:B1:505:G:C2'	29:B1:506:U:O5'	2.62	0.48
29:B1:512:U:N3	29:B1:579:G:C6	2.81	0.48
29:B1:525:C:H2'	29:B1:526:C:H6	1.78	0.48
29:B1:62:A:C6	29:B1:63:A:C5	3.02	0.48
29:B1:681:U:C1'	29:B1:682:U:H5'	2.38	0.48
29:B1:716:A:O4'	29:B1:716:A:OP2	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:726:G:H5'	29:B1:726:G:H8	1.79	0.48
29:B1:913:A:C2'	29:B1:914:A:OP2	2.61	0.48
29:B1:945:C:C2'	29:B1:946:U:H6	2.26	0.48
29:B1:85:A:H61	29:B1:99:A:H3'	1.78	0.48
31:B3:35:C:C5	31:B3:36:G:N7	2.82	0.48
34:BC:238:LEU:CB	34:BC:246:LEU:O	2.62	0.48
51:BV:49:ILE:C	51:BV:51:TRP:H	2.17	0.48
1:C1:149:C:H2'	1:C1:149:C:O2	2.14	0.48
1:C1:150:U:H4'	1:C1:151:G:OP2	2.14	0.48
1:C1:1631:A:C4	1:C1:1632:C:C1'	2.97	0.48
1:C1:171:A:C2'	1:C1:172:C:H5''	2.43	0.48
1:C1:429:G:H5''	1:C1:439:U:C3'	2.43	0.48
1:C1:50:C:H2'	1:C1:50:C:O2	2.13	0.48
1:C1:537:G:N2	1:C1:538:A:C1'	2.77	0.48
1:C1:53:G:O6	1:C1:54:C:C4	2.66	0.48
1:C1:552:G:N1	1:C1:553:G:C2	2.82	0.48
1:C1:587:C:C2'	1:C1:588:U:O4'	2.56	0.48
1:C1:862:A:N3	1:C1:862:A:H2'	2.29	0.48
29:D1:1122:U:O2	29:D1:1122:U:H2'	2.13	0.48
29:D1:1137:C:C5	29:D1:1138:U:C5	3.02	0.48
29:D1:1140:G:C2	29:D1:1141:C:C4	3.02	0.48
29:D1:1164:G:C5	29:D1:1165:A:N7	2.82	0.48
29:D1:1487:G:H1	29:D1:1855:U:H3	1.62	0.48
29:D1:1559:A:C2'	29:D1:1560:G:H5'	2.44	0.48
29:D1:161:G:O2'	29:D1:162:G:H5'	2.14	0.48
29:D1:1785:U:O2'	29:D1:1786:G:P	2.72	0.48
29:D1:2185:G:C6	29:D1:2186:U:C5	3.02	0.48
29:D1:2253:G:C4	29:D1:2254:U:C6	3.02	0.48
29:D1:2307:G:C6	29:D1:2310:U:O4	2.67	0.48
29:D1:2316:G:N1	29:D1:2317:A:C5	2.82	0.48
29:D1:2326:A:C2'	29:D1:2326:A:N3	2.74	0.48
29:D1:2390:A:C6	29:D1:2391:G:C5	3.01	0.48
29:D1:2617:U:H4'	29:D1:2644:C:H5	1.74	0.48
29:D1:3017:A:O2'	29:D1:3018:C:H5'	2.14	0.48
29:D1:3109:G:O2'	29:D1:3110:C:H5'	2.14	0.48
29:D1:311:C:C4	29:D1:312:C:C4	3.02	0.48
29:D1:3363:U:C5'	29:D1:3364:C:OP2	2.62	0.48
74:D1:3477:OHX:N6	74:D1:3589:OHX:N6	2.61	0.48
29:D1:412:G:C2	29:D1:413:U:N1	2.82	0.48
29:D1:531:G:N2	29:D1:560:G:N2	2.62	0.48
29:D1:589:A:C8	29:D1:589:A:O5'	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:591:G:N3	29:D1:592:A:C8	2.81	0.48
29:D1:642:U:H3'	29:D1:644:G:OP2	2.14	0.48
29:D1:751:A:N6	29:D1:783:A:C6	2.82	0.48
29:D1:962:A:C2'	29:D1:963:G:H5''	2.44	0.48
31:D3:19:C:C4	31:D3:20:U:O4	2.67	0.48
33:DB:181:LYS:O	33:DB:184:ARG:CB	2.62	0.48
35:DD:82:THR:O	35:DD:84:ARG:O	2.31	0.48
1:A1:823:G:H21	1:A1:824:G:H2'	1.78	0.48
1:A1:825:U:C5	1:A1:826:U:C2	3.02	0.48
1:C1:641:G:C2	1:C1:642:G:N7	2.82	0.48
29:B1:995:U:HO2'	29:B1:996:A:P	2.37	0.48
30:B2:67:G:C6	30:B2:68:C:C2	3.01	0.48
1:A1:184:C:C5	1:A1:202:A:H2	2.30	0.48
30:D2:66:A:C5	30:D2:67:G:H8	2.32	0.48
1:A1:250:C:H2'	1:A1:251:A:O4'	2.13	0.48
1:C1:1539:G:O2'	1:C1:1540:G:H5''	2.14	0.48
1:A1:1162:C:O2'	1:A1:1163:A:H5'	2.14	0.48
1:A1:1183:A:C5	1:A1:1184:A:C6	3.02	0.48
1:A1:1439:C:H6	1:A1:1439:C:O5'	1.97	0.48
1:A1:1472:C:O2	1:A1:1472:C:H2'	2.12	0.48
1:A1:1540:G:OP2	1:A1:1541:G:OP2	2.31	0.48
1:A1:1552:U:N3	1:A1:1553:G:C5	2.80	0.48
1:A1:1584:G:N2	1:A1:1585:U:OP1	2.47	0.48
29:B1:382:U:C2	29:B1:383:G:H1'	2.49	0.48
29:B1:3276:G:C3'	29:B1:3277:U:O4'	2.61	0.48
29:B1:3281:U:C4	29:B1:3282:U:C4	3.01	0.48
29:D1:3202:G:N2	29:D1:3203:U:O2	2.47	0.48
15:AN:52:LYS:HA	15:AN:92:ASP:O	2.14	0.48
29:B1:2520:A:C5	29:B1:2521:U:N3	2.82	0.48
29:D1:3253:G:C4	29:D1:3254:G:C8	3.02	0.48
29:B1:3024:A:H3'	29:B1:3025:C:C6	2.48	0.48
29:D1:191:U:C6	29:D1:191:U:H5''	2.49	0.48
29:D1:191:U:H2'	29:D1:192:C:C6	2.49	0.48
29:B1:1247:U:C5'	29:B1:1248:C:OP1	2.62	0.48
29:B1:1247:U:P	29:B1:1248:C:H41	2.37	0.48
30:B2:26:C:O2'	30:B2:27:A:C4'	2.62	0.48
1:A1:156:A:H5'	1:A1:416:A:H8	1.77	0.48
29:D1:1239:C:H2'	29:D1:1240:A:H8	1.74	0.48
29:D1:1275:C:N4	29:D1:1276:U:C4	2.81	0.48
29:D1:1064:A:O2'	29:D1:1065:A:OP1	2.28	0.48
4:AC:19:ALA:HB2	20:AS:49:ASP:CB	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:341:G:C2	31:B3:24:G:O6	2.67	0.48
29:B1:1061:A:N6	29:B1:1062:A:C6	2.82	0.48
29:B1:1062:A:HO2'	29:B1:1063:G:P	2.28	0.48
29:D1:1100:U:C2	29:D1:1101:G:C8	3.02	0.48
29:D1:1100:U:C4	29:D1:1101:G:N7	2.82	0.48
1:A1:1753:A:H3'	1:A1:1754:A:C5'	2.27	0.48
1:A1:1647:U:H3	1:A1:1754:A:H61	1.61	0.48
29:B1:1629:U:H3'	29:B1:1630:U:C5'	2.43	0.48
29:B1:3274:A:O4'	29:B1:3275:U:OP2	2.31	0.48
1:A1:1122:G:C2	1:A1:1126:G:C6	3.02	0.48
41:DJ:159:PHE:O	41:DJ:161:GLY:N	2.47	0.48
30:D2:1:G:C2	30:D2:2:G:C5	3.02	0.48
29:D1:2119:A:C4	29:D1:2120:A:H2	2.32	0.48
29:B1:249:U:H5''	29:B1:249:U:O2	2.13	0.48
29:D1:5:G:N2	31:D3:155:A:N3	2.62	0.48
5:CD:169:ASN:O	5:CD:171:ALA:N	2.47	0.48
5:AD:197:GLU:O	5:AD:201:ALA:HB2	2.14	0.48
29:B1:1019:G:O6	29:B1:1033:U:O4	2.32	0.48
52:DW:69:SER:H	52:DW:72:ALA:CB	2.17	0.48
40:BI:61:GLY:O	40:BI:62:ARG:C	2.51	0.48
29:B1:1421:G:N2	29:B1:1422:G:C5	2.81	0.48
29:D1:1634:G:N1	29:D1:1640:G:C6	2.82	0.48
29:D1:1739:U:H3'	29:D1:1739:U:C6	2.49	0.48
29:B1:1184:A:C2'	29:B1:1185:C:O5'	2.61	0.48
36:DE:234:ASP:C	36:DE:236:LEU:N	2.68	0.48
36:DE:233:ALA:O	36:DE:234:ASP:O	2.32	0.48
3:CB:152:HIS:C	3:CB:154:LEU:N	2.68	0.48
29:B1:1814:A:N3	29:B1:1814:A:H2'	2.29	0.48
29:D1:2929:C:H6	29:D1:2929:C:H3'	1.78	0.48
29:B1:268:A:O4'	29:B1:270:U:H1'	2.13	0.48
48:BS:83:GLY:O	48:BS:84:THR:C	2.51	0.48
29:D1:1724:U:O2'	29:D1:1725:C:O5'	2.31	0.48
29:B1:2722:U:C2	29:B1:2723:U:C5	3.02	0.48
72:DL:38:SER:H	72:DL:68:GLN:CA	2.24	0.48
29:B1:730:C:O3'	47:BR:135:GLN:HA	2.13	0.48
1:C1:666:U:O2	1:C1:666:U:C2'	2.61	0.48
29:D1:439:C:H4'	29:D1:440:A:O5'	2.13	0.48
29:D1:2218:G:C4	29:D1:2228:A:C2	3.02	0.48
73:DM:55:LYS:O	73:DM:59:VAL:CB	2.62	0.48
42:BK:120:ILE:O	42:BK:121:GLY:O	2.31	0.48
40:BI:117:PHE:O	40:BI:118:LEU:C	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BH:103:ALA:C	39:BH:105:LYS:H	2.17	0.48
29:B1:799:G:O6	74:B1:3496:OHX:N6	2.47	0.48
52:DW:60:TYR:O	52:DW:61:LYS:CB	2.61	0.48
21:CT:99:THR:O	21:CT:100:TYR:O	2.32	0.48
38:DG:43:ILE:C	38:DG:45:LEU:N	2.66	0.48
29:D1:2668:U:C5	74:D1:3599:OHX:N5	2.82	0.48
1:C1:632:U:H2'	1:C1:633:U:O5'	2.13	0.48
34:BC:91:GLY:HA3	34:BC:158:VAL:CB	2.44	0.48
45:BP:112:TYR:O	45:BP:113:ASP:CB	2.60	0.48
1:C1:1705:C:H3'	1:C1:1706:C:H5'	1.96	0.48
45:BP:133:ARG:O	45:BP:134:LYS:CB	2.62	0.48
2:AA:162:CYS:O	2:AA:163:ASN:CB	2.62	0.48
34:BC:80:ASP:O	34:BC:82:PRO:N	2.47	0.48
1:A1:1024:U:HO2'	1:A1:1025:A:H5'	1.78	0.48
1:A1:1036:A:H3'	1:A1:1037:C:H6	1.79	0.48
1:A1:1097:U:HO2'	1:A1:1098:U:H5'	1.70	0.48
1:A1:1632:C:O2'	1:A1:1633:A:C8	2.50	0.48
1:A1:1791:A:C8	1:A1:1791:A:C5'	2.95	0.48
1:A1:477:A:C2	1:A1:512:A:N1	2.81	0.48
1:A1:526:A:N3	1:A1:526:A:C2'	2.68	0.48
1:A1:605:A:N7	1:A1:606:A:C5	2.82	0.48
1:A1:863:A:C2'	1:A1:865:A:H8	2.27	0.48
29:B1:1140:G:C2	29:B1:1141:C:C6	3.02	0.48
29:B1:1148:G:C6	29:B1:1149:G:C5	3.02	0.48
29:B1:14:U:H3'	29:B1:15:C:H5''	1.96	0.48
29:B1:1659:U:N3	29:B1:1660:C:C4	2.82	0.48
29:B1:1900:A:N3	29:B1:1906:G:N7	2.62	0.48
29:B1:211:A:H5'	29:B1:229:G:H1'	1.96	0.48
29:B1:2312:A:H1'	29:B1:2316:G:O4'	2.14	0.48
29:B1:1449:A:C2	29:B1:2356:A:N3	2.82	0.48
29:B1:2356:A:N1	29:B1:2357:A:C4	2.81	0.48
29:B1:2367:A:C6	29:B1:2381:G:C6	3.02	0.48
29:B1:420:G:H21	29:B1:2384:A:C2'	2.27	0.48
29:B1:2852:C:H5	29:B1:2853:A:C4	2.29	0.48
29:B1:2834:G:C6	29:B1:2855:U:C4	3.01	0.48
29:B1:2933:A:C6	29:B1:2934:A:N1	2.82	0.48
29:B1:2998:U:OP1	29:B1:2998:U:H6	1.96	0.48
29:B1:3099:C:O2'	29:B1:3100:U:O4'	2.31	0.48
29:B1:38:U:H2'	29:B1:39:A:O4'	2.14	0.48
29:B1:401:U:H3'	29:B1:402:A:C5'	2.42	0.48
29:B1:34:A:C8	29:B1:51:A:N6	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:577:C:H6	29:B1:577:C:C3'	2.26	0.48
29:B1:612:U:C2	29:B1:613:G:C5	3.02	0.48
29:B1:63:A:C2	29:B1:64:G:C4	3.02	0.48
29:B1:784:A:C2	29:B1:785:G:N7	2.82	0.48
29:B1:877:C:H2'	29:B1:878:G:C5'	2.44	0.48
29:B1:881:C:O2	29:B1:881:C:H2'	2.13	0.48
31:B3:106:C:C1'	31:B3:107:G:OP2	2.62	0.48
31:B3:42:G:H2'	31:B3:42:G:N3	2.28	0.48
1:C1:1131:A:H3'	1:C1:1132:A:H8	1.78	0.48
1:C1:1670:G:H21	1:C1:1732:A:N6	2.11	0.48
1:C1:1671:A:N3	1:C1:1731:A:C2	2.81	0.48
1:C1:45:U:C3'	1:C1:45:U:H6	2.26	0.48
1:C1:514:G:N7	1:C1:538:A:H2	2.12	0.48
1:C1:549:G:C2	1:C1:550:A:C8	3.02	0.48
1:C1:64:U:C2'	1:C1:64:U:O2	2.62	0.48
1:C1:472:U:H4'	1:C1:770:A:O4'	2.13	0.48
1:C1:815:G:H4'	1:C1:816:G:OP2	2.14	0.48
1:C1:98:U:O2	1:C1:98:U:C2'	2.59	0.48
29:D1:1104:G:H2'	29:D1:1105:A:C5'	2.44	0.48
29:D1:1160:C:O2'	29:D1:1161:G:H5''	2.14	0.48
29:D1:1204:A:N6	29:D1:1300:G:H21	2.06	0.48
29:D1:1583:A:H2'	29:D1:1584:U:O5'	2.13	0.48
29:D1:2294:U:C2	29:D1:2296:A:OP2	2.67	0.48
29:D1:2316:G:C2	29:D1:2317:A:C5	3.02	0.48
29:D1:2373:A:N7	29:D1:2867:C:H1'	2.29	0.48
29:D1:2712:U:HO2'	29:D1:2743:A:H4'	1.73	0.48
29:D1:2813:A:C6	29:D1:2814:G:C5	3.02	0.48
29:D1:2850:G:OP1	29:D1:2850:G:C4'	2.49	0.48
29:D1:2931:C:O2	29:D1:2935:U:C4	2.67	0.48
29:D1:3038:U:HO2'	29:D1:3039:C:C4'	2.27	0.48
29:D1:3048:A:N6	29:D1:3090:U:H3'	2.26	0.48
29:D1:3122:A:C2'	29:D1:3123:A:C5'	2.77	0.48
29:D1:3135:U:O4	29:D1:3136:G:C6	2.67	0.48
29:D1:323:A:H3'	29:D1:324:A:H8	1.79	0.48
29:D1:3345:G:H8	29:D1:3345:G:O5'	1.96	0.48
29:D1:340:C:C2'	29:D1:341:G:C8	2.83	0.48
29:D1:533:A:O2'	29:D1:534:U:C2	2.54	0.48
29:D1:543:C:N4	29:D1:544:C:C2	2.82	0.48
29:D1:511:G:H21	29:D1:579:G:N2	2.12	0.48
29:D1:582:G:N1	29:D1:583:G:C8	2.82	0.48
29:D1:606:C:C6	29:D1:606:C:C4'	2.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:760:G:N2	29:D1:761:A:C5	2.76	0.48
29:D1:901:G:C6	29:D1:902:G:N7	2.82	0.48
29:D1:89:A:C2	29:D1:90:C:C6	3.02	0.48
29:D1:944:C:H2'	29:D1:945:C:H6	1.79	0.48
29:D1:966:U:C2'	29:D1:967:A:C8	2.88	0.48
31:D3:145:U:C4	31:D3:146:U:N3	2.82	0.48
31:D3:25:G:N1	31:D3:26:U:C2	2.82	0.48
31:D3:53:A:C4	31:D3:54:A:C8	3.02	0.48
31:D3:71:A:H1'	31:D3:72:A:H5'	1.96	0.48
31:D3:64:U:C2	31:D3:97:A:C2	3.02	0.48
37:DF:149:ILE:CA	37:DF:150:LYS:CB	2.92	0.48
44:DO:86:ASN:O	44:DO:88:GLY:N	2.46	0.48
1:A1:723:G:N1	1:A1:724:C:C4	2.82	0.48
1:C1:824:G:C6	1:C1:850:A:C2	3.02	0.48
1:C1:824:G:O6	1:C1:850:A:N3	2.47	0.48
29:B1:2798:C:P	29:B1:2799:A:OP1	2.72	0.48
30:B2:111:U:O2'	30:B2:112:G:OP1	2.28	0.48
30:B2:12:U:OP2	30:B2:68:C:O3'	2.32	0.48
41:DJ:170:LYS:CB	41:DJ:171:TRP:C	2.82	0.48
30:D2:112:G:P	74:D2:207:OHX:N2	2.87	0.48
1:C1:331:A:N3	1:C1:332:U:C6	2.81	0.48
29:B1:2681:U:OP1	42:BK:52:TYR:CB	2.61	0.48
1:A1:795:U:C5	1:A1:796:A:C4	3.02	0.48
1:C1:1540:G:C6	1:C1:1541:G:C5	3.02	0.48
1:C1:1583:A:C2	1:C1:1585:U:O4	2.67	0.48
1:C1:1603:U:O2	1:C1:1603:U:C2'	2.60	0.48
1:A1:1185:U:C1'	1:A1:1186:U:OP2	2.62	0.48
1:A1:1202:A:OP1	1:A1:1203:A:OP2	2.31	0.48
1:A1:1252:C:H2'	1:A1:1253:U:O5'	2.14	0.48
1:A1:1512:G:C4	1:A1:1513:G:C8	3.01	0.48
1:A1:1513:G:H1'	1:A1:1518:C:O2	2.14	0.48
1:A1:1603:U:H2'	1:A1:1604:U:C6	2.48	0.48
43:BN:84:LYS:O	43:BN:86:ALA:N	2.46	0.48
43:BN:93:LYS:O	43:BN:95:ALA:N	2.47	0.48
30:B2:37:G:N3	30:B2:45:A:N1	2.62	0.48
30:B2:46:A:C3'	30:B2:46:A:N3	2.61	0.48
29:D1:1393:A:H2'	29:D1:1394:A:H5''	1.95	0.48
29:D1:212:G:C6	29:D1:222:A:C5	3.02	0.48
29:B1:1228:C:C4	29:B1:1229:G:C5	3.02	0.48
29:D1:3170:A:N6	29:D1:3279:A:N6	2.62	0.48
29:D1:3219:G:H1'	29:D1:3257:C:H5'	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3281:U:O2	29:D1:3282:U:C2	2.67	0.48
30:B2:24:A:C4	30:B2:25:G:N7	2.82	0.48
31:B3:131:A:N3	31:B3:132:G:C8	2.82	0.48
29:D1:2522:G:C6	29:D1:2587:U:C4	3.02	0.48
29:D1:1275:C:H2'	29:D1:1276:U:O4'	2.13	0.48
29:D1:3274:A:C4'	29:D1:3275:U:OP2	2.62	0.48
9:AH:14:PHE:O	9:AH:79:VAL:HA	2.14	0.48
36:DE:102:GLY:CA	36:DE:166:ALA:HB2	2.43	0.48
29:B1:1035:G:H2'	29:B1:1036:A:H5'	1.95	0.48
29:B1:1040:A:O5'	29:B1:1040:A:H8	1.97	0.48
29:D1:1920:U:H1'	29:D1:1933:A:C6	2.49	0.48
29:D1:2560:C:C6	29:D1:2560:C:O5'	2.59	0.48
1:A1:1581:C:H2'	1:A1:1582:U:H5'	1.95	0.48
29:D1:1729:A:OP2	55:DZ:27:TYR:CB	2.62	0.48
29:D1:1703:U:O2'	29:D1:1743:G:C2	2.66	0.48
1:C1:723:G:H2'	1:C1:724:C:C6	2.49	0.48
29:D1:1362:G:H2'	29:D1:1363:A:H8	1.76	0.48
1:A1:568:G:H4'	17:AP:90:ASP:HA	1.96	0.48
29:D1:2553:U:O2'	29:D1:2554:A:P	2.71	0.48
29:D1:169:U:HO2'	29:D1:170:G:P	2.37	0.48
38:DG:228:SER:O	38:DG:230:GLY:N	2.47	0.48
1:C1:1358:G:C2	1:C1:1359:C:C4	3.02	0.48
1:A1:933:A:N6	1:A1:935:U:H1'	2.29	0.48
46:BQ:28:ASN:C	46:BQ:30:ARG:H	2.17	0.48
33:BB:18:SER:C	33:BB:20:THR:H	2.17	0.48
5:AD:212:LYS:O	5:AD:215:ASP:N	2.47	0.48
29:B1:1672:U:H2'	29:B1:1672:U:O2	2.14	0.48
5:CD:220:VAL:C	5:CD:222:LYS:H	2.16	0.48
32:DA:65:ILE:HA	32:DA:109:ALA:HB3	1.95	0.48
10:CI:115:TYR:O	10:CI:118:GLU:CB	2.61	0.48
39:DH:231:LYS:CB	39:DH:233:TRP:H	2.27	0.48
48:DS:127:SER:O	48:DS:129:GLY:N	2.46	0.48
29:B1:2957:G:C6	29:B1:2976:A:C2	3.02	0.48
1:C1:1546:G:H21	10:CI:16:SER:HA	1.79	0.48
7:AF:93:TYR:O	7:AF:94:ILE:CB	2.61	0.48
3:AB:42:GLY:O	3:AB:43:ARG:C	2.52	0.48
12:CK:27:ASP:O	12:CK:29:GLN:N	2.47	0.48
17:CP:136:TRP:HA	17:CP:137:LYS:O	2.14	0.48
50:DU:13:ILE:O	50:DU:14:SER:C	2.52	0.48
6:CE:49:LEU:O	6:CE:50:SER:C	2.50	0.48
34:DC:111:SER:HA	34:DC:112:ASP:C	2.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:77:SER:C	8:AG:79:GLY:N	2.67	0.48
1:A1:103:A:C6	1:A1:360:A:C2	3.02	0.47
1:A1:8:U:C4	1:A1:1140:G:O6	2.66	0.47
1:A1:1631:A:H1'	1:A1:1638:G:N2	2.29	0.47
1:A1:386:G:H2'	1:A1:387:A:O5'	2.14	0.47
1:A1:403:G:O5'	1:A1:403:G:H8	1.96	0.47
1:A1:479:C:H2'	1:A1:480:G:N9	2.29	0.47
1:A1:545:A:N6	1:A1:593:U:O2'	2.39	0.47
1:A1:861:U:H2'	1:A1:862:A:H5'	1.95	0.47
1:A1:863:A:N9	1:A1:865:A:C8	2.82	0.47
29:B1:109:A:H1'	29:B1:110:G:H1'	1.96	0.47
29:B1:1105:A:C4	29:B1:1106:G:C8	3.02	0.47
29:B1:1380:G:C2'	29:B1:1380:G:N3	2.74	0.47
29:B1:1395:G:C5	29:B1:1396:C:C5	3.01	0.47
29:B1:13:A:C2	29:B1:15:C:H2'	2.49	0.47
29:B1:13:A:N3	29:B1:13:A:H2'	2.28	0.47
29:B1:1504:A:C5	29:B1:1505:C:H5	2.29	0.47
29:B1:1689:U:C4	29:B1:1690:C:C4	3.02	0.47
29:B1:1845:G:N2	29:B1:1849:C:C2	2.82	0.47
29:B1:2191:U:O4	29:B1:2192:C:N4	2.46	0.47
29:B1:2421:U:H2'	29:B1:2422:C:O5'	2.14	0.47
29:B1:2787:G:H2'	29:B1:2788:C:H6	1.79	0.47
29:B1:3111:U:O2'	29:B1:3112:G:H5'	2.14	0.47
29:B1:3115:C:O4'	29:B1:3115:C:O2	2.32	0.47
29:B1:317:A:C2'	29:B1:318:A:O5'	2.62	0.47
29:B1:3296:A:C6	29:B1:3297:U:C5	3.02	0.47
29:B1:3299:A:C2'	29:B1:3299:A:O5'	2.61	0.47
29:B1:3327:G:N7	29:B1:3328:G:O6	2.47	0.47
29:B1:3359:A:H2'	29:B1:3360:C:C4'	2.44	0.47
29:B1:3387:U:C4	29:B1:3388:C:N4	2.82	0.47
29:B1:421:G:N1	29:B1:2365:C:C2	2.82	0.47
29:B1:425:G:C5	29:B1:635:G:C2	3.01	0.47
29:B1:556:U:C3'	29:B1:557:A:O4'	2.63	0.47
29:B1:563:U:C3'	29:B1:564:G:C5'	2.72	0.47
29:B1:726:G:C2	29:B1:727:G:C5	3.02	0.47
29:B1:776:U:C4'	29:B1:777:U:H5''	2.44	0.47
29:B1:77:A:C2	29:B1:78:U:N1	2.81	0.47
29:B1:881:C:C2	29:B1:1850:A:C8	3.02	0.47
29:B1:941:G:O4'	29:B1:1435:A:H1'	2.14	0.47
37:BF:145:LEU:O	37:BF:149:ILE:CB	2.62	0.47
38:BG:47:ARG:O	38:BG:49:ALA:O	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BO:82:GLY:HA2	44:BO:87:GLN:H	1.78	0.47
1:C1:1028:C:H1'	1:C1:1029:U:H3'	1.95	0.47
1:C1:1071:U:H5'	1:C1:1072:C:OP2	2.14	0.47
1:C1:1096:C:H2'	1:C1:1096:C:O2	2.12	0.47
1:C1:168:A:C5	1:C1:169:A:N6	2.81	0.47
1:C1:256:A:H5''	1:C1:257:A:OP2	2.14	0.47
1:C1:355:G:N2	1:C1:356:G:H1'	2.29	0.47
1:C1:404:G:N3	1:C1:405:C:C6	2.82	0.47
1:C1:587:C:H2'	1:C1:588:U:H6	1.78	0.47
1:C1:74:U:O2'	1:C1:75:U:P	2.72	0.47
29:D1:108:A:O2'	29:D1:109:A:H5''	2.14	0.47
29:D1:1209:G:N7	29:D1:1210:U:C4	2.82	0.47
29:D1:1453:A:C1'	29:D1:1850:A:N1	2.78	0.47
29:D1:1468:A:C2'	29:D1:1469:C:O5'	2.62	0.47
29:D1:1468:A:C6	29:D1:1469:C:N4	2.82	0.47
29:D1:1483:G:N7	29:D1:1485:G:C4	2.82	0.47
29:D1:1495:U:O3'	29:D1:1514:G:C5'	2.62	0.47
29:D1:1560:G:C6	29:D1:1561:G:C6	3.01	0.47
29:D1:1654:A:N3	29:D1:1655:G:H1'	2.29	0.47
29:D1:2255:A:C2	29:D1:2258:U:OP2	2.67	0.47
29:D1:2308:C:C6	29:D1:2309:A:C8	3.02	0.47
29:D1:2317:A:C2	29:D1:2318:U:N1	2.82	0.47
29:D1:636:C:C5	29:D1:2378:C:C1'	2.91	0.47
29:D1:114:A:C2	29:D1:267:G:C2	3.02	0.47
29:D1:2700:G:C6	29:D1:2701:U:C4	3.02	0.47
29:D1:955:U:O2'	29:D1:2727:A:N6	2.46	0.47
29:D1:280:U:C5	29:D1:282:G:OP2	2.67	0.47
29:D1:281:G:N1	29:D1:282:G:O6	2.46	0.47
29:D1:284:A:C2'	29:D1:284:A:N3	2.77	0.47
29:D1:2856:G:C2	29:D1:2857:C:C4	3.01	0.47
29:D1:2857:C:H2'	29:D1:2858:U:O4'	2.14	0.47
29:D1:2960:C:H3'	29:D1:2961:G:H8	1.78	0.47
29:D1:3034:C:C2'	29:D1:3035:A:H5'	2.43	0.47
29:D1:3102:G:C8	29:D1:3102:G:C4'	2.96	0.47
29:D1:347:G:N2	29:D1:353:G:C4	2.81	0.47
29:D1:416:A:N3	29:D1:417:A:C8	2.82	0.47
29:D1:33:G:N2	29:D1:50:U:C5	2.81	0.47
29:D1:552:G:C2	29:D1:553:U:C2	3.02	0.47
29:D1:580:C:C4	29:D1:581:U:O4	2.67	0.47
29:D1:61:A:C2	29:D1:62:A:H1'	2.49	0.47
29:D1:636:C:H5	29:D1:2378:C:H1'	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:648:C:O2	29:D1:648:C:O4'	2.31	0.47
29:D1:77:A:H2'	29:D1:78:U:O5'	2.13	0.47
31:D3:111:A:C8	31:D3:111:A:H5''	2.48	0.47
31:D3:48:A:C2	31:D3:51:G:O6	2.67	0.47
31:D3:8:C:H3'	31:D3:8:C:H6	1.79	0.47
34:DC:49:TYR:O	34:DC:51:ALA:N	2.47	0.47
40:DI:171:ASP:O	40:DI:172:ILE:O	2.32	0.47
1:A1:223:U:H2'	1:A1:224:C:C6	2.49	0.47
1:A1:725:U:H3'	1:A1:726:C:O4'	2.13	0.47
1:A1:847:A:C2'	1:A1:848:C:H5'	2.41	0.47
1:C1:652:G:H5'	1:C1:653:C:OP2	2.13	0.47
1:A1:651:G:C4	1:A1:684:A:N6	2.81	0.47
30:B2:71:G:C6	30:B2:108:A:N1	2.82	0.47
31:B3:53:A:H2'	31:B3:54:A:C8	2.48	0.47
31:B3:74:U:OP2	31:B3:76:C:C4	2.67	0.47
31:B3:88:A:C8	31:B3:89:A:N1	2.82	0.47
1:A1:172:C:H2'	1:A1:173:A:O4'	2.13	0.47
1:A1:65:A:H2	1:A1:84:A:N6	2.10	0.47
1:A1:68:A:H4'	1:A1:69:G:OP1	2.14	0.47
1:C1:110:U:C3'	1:C1:111:U:H5''	2.41	0.47
1:C1:114:C:N4	1:C1:248:U:C4	2.81	0.47
1:C1:1720:G:C2'	1:C1:1721:A:C8	2.95	0.47
1:C1:250:C:N4	1:C1:251:A:N6	2.62	0.47
1:A1:1719:A:O2'	1:A1:1720:G:C4	2.64	0.47
1:A1:248:U:O2	1:A1:248:U:O4'	2.30	0.47
1:C1:1227:A:H3'	1:C1:1229:G:OP2	2.14	0.47
1:C1:1504:G:H2'	1:C1:1505:A:O4'	2.14	0.47
1:C1:1590:G:C4	1:C1:1591:C:C5	3.02	0.47
1:A1:1241:G:N3	1:A1:1243:G:H8	2.11	0.47
1:A1:1246:C:C4	1:A1:1247:U:C4	3.01	0.47
1:A1:1479:A:C3'	1:A1:1480:G:H5''	2.44	0.47
1:A1:1594:G:H2'	1:A1:1595:U:H5'	1.96	0.47
29:D1:3213:A:C3'	29:D1:3213:A:C8	2.97	0.47
29:B1:381:U:H3	29:B1:387:A:N6	2.12	0.47
30:B2:43:U:C4	30:B2:44:C:C5	3.02	0.47
29:B1:1228:C:N4	29:B1:1229:G:C6	2.82	0.47
29:B1:1253:U:H4'	29:B1:1254:C:H5	1.79	0.47
29:D1:3228:C:N3	29:D1:3229:G:O6	2.47	0.47
30:B2:54:U:H4'	30:B2:55:A:O5'	2.14	0.47
29:B1:1595:U:C2	29:B1:1596:C:C5	3.01	0.47
31:B3:125:U:C4	74:B3:206:OHX:N2	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:38:U:C6	30:D2:41:G:OP2	2.67	0.47
1:A1:694:U:C5'	1:A1:695:U:C5	2.79	0.47
29:D1:1266:G:N1	29:D1:1276:U:C2	2.81	0.47
29:B1:2592:G:H4'	29:B1:2594:C:C2	2.49	0.47
29:D1:3348:G:C2	29:D1:3349:C:H1'	2.49	0.47
29:D1:1067:U:H5''	29:D1:1068:C:OP2	2.14	0.47
29:B1:69:C:C4	29:B1:70:A:H8	2.31	0.47
31:B3:27:U:C2	31:B3:28:C:C6	3.02	0.47
1:C1:1391:A:C3'	1:C1:1392:U:H5''	2.44	0.47
29:B1:1063:G:O4'	29:B1:1063:G:P	2.72	0.47
1:A1:887:A:C2	1:A1:888:U:C2	3.02	0.47
29:D1:2205:U:C2'	29:D1:2206:G:H5'	2.37	0.47
29:D1:2514:U:O2'	29:D1:2515:A:H8	1.97	0.47
29:B1:1634:G:N1	29:B1:1640:G:O6	2.47	0.47
1:A1:1402:G:N3	1:A1:1403:C:C6	2.82	0.47
29:B1:2880:U:O2'	29:B1:2881:C:H5'	2.14	0.47
36:DE:159:VAL:C	36:DE:161:GLY:N	2.58	0.47
29:B1:3348:G:C6	29:B1:3349:C:C2	3.02	0.47
1:A1:1291:G:H21	1:A1:1324:G:H22	1.62	0.47
5:AD:191:ALA:O	5:AD:195:ALA:N	2.38	0.47
1:C1:1023:A:H8	74:C1:1961:OHX:N6	2.12	0.47
1:A1:1215:C:HO2'	1:A1:1216:C:H5'	1.78	0.47
1:C1:121:U:H2'	1:C1:122:U:O5'	2.14	0.47
29:B1:102:C:O4'	29:B1:103:G:OP1	2.32	0.47
18:AQ:41:ILE:C	18:AQ:43:ASP:H	2.18	0.47
43:DN:24:LYS:CA	43:DN:31:LYS:C	2.82	0.47
13:CL:76:PRO:C	13:CL:81:ILE:H	2.17	0.47
1:A1:316:A:C2	1:A1:349:U:O2	2.67	0.47
29:D1:603:A:H2'	29:D1:604:G:O4'	2.14	0.47
29:B1:1470:U:H2'	29:B1:1471:U:C6	2.49	0.47
21:CT:39:ASP:O	21:CT:40:LYS:CB	2.61	0.47
29:B1:174:C:O5'	29:B1:174:C:H6	1.96	0.47
1:C1:776:G:N1	1:C1:785:U:N3	2.62	0.47
1:A1:929:A:N7	1:A1:930:A:N7	2.62	0.47
6:CE:100:LYS:O	6:CE:101:VAL:C	2.53	0.47
19:CR:38:ARG:O	19:CR:39:THR:CB	2.61	0.47
1:A1:1622:G:C5	1:A1:1623:C:C4	3.02	0.47
46:BQ:47:TYR:O	46:BQ:50:GLN:N	2.47	0.47
29:D1:2218:G:C5	29:D1:2228:A:C2	3.02	0.47
29:B1:2414:G:HO2'	29:B1:2415:C:P	2.37	0.47
47:BR:149:ALA:HB3	47:BR:150:VAL:CA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:145:GLY:O	3:CB:147:ASN:N	2.46	0.47
6:CE:26:ALA:O	6:CE:28:LEU:N	2.47	0.47
12:CK:54:THR:O	12:CK:55:THR:C	2.50	0.47
41:BJ:33:ILE:O	41:BJ:34:TYR:CB	2.61	0.47
55:BZ:82:GLY:O	55:BZ:84:LEU:N	2.47	0.47
45:BP:77:SER:C	45:BP:79:ILE:N	2.67	0.47
5:CD:88:PRO:O	5:CD:89:ILE:CB	2.62	0.47
16:AO:70:ASN:HA	16:AO:71:LYS:HA	1.45	0.47
34:BC:95:THR:CB	34:BC:97:ARG:H	2.27	0.47
30:D2:52:G:C2	30:D2:53:U:C2	3.01	0.47
1:A1:1087:A:C6	1:A1:1088:A:C6	3.02	0.47
1:A1:1104:U:C5	1:A1:1105:C:C6	3.02	0.47
1:A1:116:U:C2	1:A1:117:U:C5	3.02	0.47
1:A1:1746:A:H3'	1:A1:1747:G:C8	2.46	0.47
1:A1:1786:G:C4	1:A1:1787:C:C5	3.02	0.47
1:A1:32:U:C2	1:A1:468:A:N6	2.81	0.47
1:A1:380:U:O2'	1:A1:381:C:H6	1.96	0.47
1:A1:436:A:H5''	1:A1:437:A:P	2.54	0.47
1:A1:446:A:N6	1:A1:461:G:H21	2.12	0.47
1:A1:478:A:N1	1:A1:510:G:C2	2.82	0.47
1:A1:549:G:N1	1:A1:550:A:C5	2.81	0.47
1:A1:603:U:H2'	1:A1:604:A:C8	2.48	0.47
1:A1:612:U:H5'	1:A1:613:G:C3'	2.41	0.47
3:AB:165:VAL:CB	3:AB:166:THR:CB	2.92	0.47
29:B1:1168:U:O4	29:B1:1330:A:N7	2.47	0.47
29:B1:1174:G:C4	29:B1:1175:C:C5	3.02	0.47
29:B1:11:A:C2	31:B3:148:G:C2	3.02	0.47
29:B1:1693:C:H5''	29:B1:1694:U:H5'	1.96	0.47
29:B1:1778:G:O3'	29:B1:1779:C:O2	2.32	0.47
29:B1:2152:A:C1'	29:B1:2243:A:C2	2.97	0.47
29:B1:221:A:C5	29:B1:224:C:N4	2.82	0.47
29:B1:2261:G:N2	29:B1:2263:C:C2	2.82	0.47
29:B1:2295:A:C6	29:B1:2296:A:C6	3.03	0.47
29:B1:2383:C:C2'	29:B1:2384:A:H8	2.27	0.47
29:B1:2386:A:H2'	29:B1:2387:A:C5'	2.43	0.47
29:B1:2658:G:C4	29:B1:2659:G:C8	3.01	0.47
29:B1:278:U:C4	29:B1:279:U:C5	3.03	0.47
29:B1:2847:A:N6	29:B1:2898:G:C2	2.78	0.47
29:B1:2931:C:C2	29:B1:2932:U:H6	2.31	0.47
29:B1:2987:A:H2'	29:B1:2988:C:O4'	2.14	0.47
29:B1:3153:U:H5''	29:B1:3293:U:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3317:U:H3	34:BC:123:TYR:CA	2.22	0.47
29:B1:3328:G:N2	29:B1:3375:A:H62	2.12	0.47
29:B1:361:A:N1	29:B1:927:C:O2'	2.38	0.47
29:B1:572:A:C8	29:B1:573:C:C5	3.02	0.47
29:B1:926:A:H2'	29:B1:927:C:H6	1.79	0.47
31:B3:106:C:H4'	31:B3:107:G:C5'	2.44	0.47
33:BB:183:GLY:C	33:BB:185:ALA:N	2.63	0.47
1:C1:1002:G:C6	1:C1:1003:A:N1	2.81	0.47
1:C1:8:U:H5	1:C1:1140:G:O6	1.94	0.47
1:C1:1644:C:O2'	29:D1:2262:A:N7	2.46	0.47
1:C1:206:A:H2'	1:C1:207:U:O4'	2.13	0.47
1:C1:425:A:C2'	1:C1:426:G:OP2	2.62	0.47
1:C1:426:G:C2	1:C1:427:C:C6	3.02	0.47
1:C1:446:A:C6	1:C1:447:U:C5	3.02	0.47
1:C1:814:A:C6	1:C1:858:G:N3	2.82	0.47
29:D1:1152:G:O2'	29:D1:1153:A:P	2.71	0.47
29:D1:1564:U:H2'	29:D1:1565:G:O4'	2.14	0.47
29:D1:1859:A:N3	29:D1:1859:A:H2'	2.30	0.47
29:D1:1908:A:C8	29:D1:1909:A:C8	3.02	0.47
29:D1:2254:U:OP2	29:D1:2254:U:C6	2.67	0.47
29:D1:2285:C:H5	29:D1:2286:U:N1	2.09	0.47
29:D1:2397:A:H61	29:D1:2869:U:H1'	1.79	0.47
29:D1:2419:A:N7	29:D1:2606:G:O6	2.47	0.47
29:D1:2838:A:C2	29:D1:2851:A:N9	2.82	0.47
29:D1:2897:A:H2	29:D1:2905:U:O2	1.97	0.47
29:D1:2900:A:O2'	29:D1:2901:G:H5'	2.14	0.47
29:D1:3315:G:H4'	29:D1:3319:U:O3'	2.14	0.47
29:D1:3327:G:N2	29:D1:3379:C:N1	2.61	0.47
29:D1:3359:A:H2'	29:D1:3360:C:C4'	2.45	0.47
29:D1:361:A:H2'	29:D1:362:U:O4'	2.14	0.47
29:D1:382:U:C2'	29:D1:383:G:C4'	2.84	0.47
29:D1:423:A:C2	29:D1:424:G:N3	2.82	0.47
29:D1:642:U:H2'	29:D1:644:G:N7	2.29	0.47
29:D1:750:G:C2'	29:D1:751:A:H8	2.18	0.47
29:D1:847:A:C2	29:D1:848:A:C5	3.02	0.47
29:D1:849:C:C2'	29:D1:850:U:H5'	2.44	0.47
30:D2:84:A:C6	30:D2:97:A:C6	3.02	0.47
31:D3:70:G:P	31:D3:71:A:OP2	2.72	0.47
31:D3:81:U:C4	31:D3:82:U:O4'	2.67	0.47
37:DF:20:LYS:CB	37:DF:113:LYS:H	2.27	0.47
1:A1:708:C:C2	1:A1:731:C:C2	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:825:U:C6	1:C1:826:U:C2	3.03	0.47
1:C1:832:U:H2'	1:C1:832:U:O2	2.13	0.47
1:C1:837:G:C4	1:C1:838:G:C8	3.02	0.47
1:C1:850:A:C6	1:C1:851:U:C4	3.01	0.47
1:C1:651:G:C6	74:C1:1970:OHX:N6	2.82	0.47
29:B1:2640:A:N9	29:B1:2641:U:C5	2.81	0.47
29:B1:1054:A:H2	30:B2:80:G:H21	1.62	0.47
31:B3:50:C:O2'	31:B3:51:G:O5'	2.29	0.47
31:B3:53:A:C4	31:B3:54:A:C8	3.02	0.47
31:B3:74:U:OP1	31:B3:76:C:C4	2.67	0.47
31:B3:75:G:OP2	31:B3:76:C:OP1	2.32	0.47
1:A1:152:U:C2	1:A1:163:G:N2	2.82	0.47
1:A1:450:U:O2	1:A1:450:U:C2'	2.62	0.47
1:A1:450:U:N3	1:A1:451:A:N6	2.63	0.47
1:C1:1723:U:C2	1:C1:1724:U:C6	3.02	0.47
1:C1:332:U:C5'	1:C1:333:A:OP2	2.62	0.47
1:A1:110:U:O2'	1:A1:797:G:H1'	2.14	0.47
1:C1:1164:G:O2'	1:C1:1165:G:H5'	2.14	0.47
1:C1:1227:A:C8	1:C1:1229:G:OP2	2.68	0.47
1:C1:1251:U:C2	1:C1:1252:C:C6	3.03	0.47
1:C1:1355:C:H2'	1:C1:1356:U:H6	1.79	0.47
1:C1:1448:G:O2'	1:C1:1449:U:H5'	2.14	0.47
1:C1:1513:G:C2'	1:C1:1514:U:OP1	2.62	0.47
1:C1:1584:G:C2	11:CJ:125:GLU:N	2.77	0.47
1:C1:1612:U:O4	1:C1:1613:U:H6	1.97	0.47
1:A1:1232:U:H2'	1:A1:1233:G:O4'	2.14	0.47
1:A1:1559:A:O2'	1:A1:1560:U:C6	2.66	0.47
1:C1:1053:G:N2	1:C1:1067:C:H1'	2.28	0.47
29:B1:383:G:C2'	29:B1:385:A:O5'	2.40	0.47
29:B1:3255:U:H2'	29:B1:3256:G:H8	1.78	0.47
29:D1:617:G:H2'	29:D1:618:C:O5'	2.14	0.47
30:D2:22:A:N1	36:DE:277:LEU:CB	2.77	0.47
42:BK:68:HIS:O	42:BK:69:VAL:C	2.52	0.47
29:D1:1394:A:C8	29:D1:1394:A:C3'	2.96	0.47
29:D1:185:C:C2	29:D1:232:G:N1	2.82	0.47
29:D1:393:U:N3	29:D1:394:G:C5	2.71	0.47
29:D1:3214:U:HO2'	29:D1:3217:C:H4'	1.79	0.47
29:D1:3262:U:H6	29:D1:3262:U:P	2.34	0.47
29:D1:3278:C:C2	29:D1:3279:A:N7	2.82	0.47
2:AA:169:SER:O	2:AA:170:ILE:C	2.52	0.47
31:B3:129:C:H2'	31:B3:130:C:C5	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:169:SER:O	2:CA:170:ILE:C	2.52	0.47
1:C1:1417:A:H2'	1:C1:1417:A:N3	2.28	0.47
1:C1:699:U:C4	1:C1:700:C:C5	3.02	0.47
29:B1:983:A:N1	29:B1:985:U:O4	2.46	0.47
1:C1:1753:A:C6	1:C1:1754:A:N6	2.79	0.47
29:B1:3274:A:N3	29:B1:3274:A:H2'	2.29	0.47
34:BC:92:TYR:O	34:BC:93:VAL:CB	2.62	0.47
29:B1:1718:G:H2'	29:B1:1719:G:H5'	1.96	0.47
29:B1:822:G:C5	29:B1:823:C:C5	3.02	0.47
1:C1:898:A:C2	1:C1:915:A:N6	2.82	0.47
29:D1:2502:A:HO2'	29:D1:2503:G:P	2.36	0.47
29:D1:2536:A:C2	29:D1:2537:U:C2	3.02	0.47
29:D1:131:C:C4	29:D1:132:C:C6	3.02	0.47
1:A1:783:G:H2'	1:A1:784:C:H6	1.78	0.47
54:BY:134:ALA:O	54:BY:137:LYS:N	2.38	0.47
1:C1:374:U:OP1	1:C1:374:U:C4'	2.63	0.47
29:B1:2888:U:C4	29:B1:2910:A:C6	3.01	0.47
29:B1:2131:A:H2'	29:B1:2132:C:C5'	2.41	0.47
29:D1:1021:G:C5	29:D1:1022:U:C5	3.02	0.47
34:BC:109:HIS:O	34:BC:110:LEU:CB	2.62	0.47
29:D1:2883:U:O2'	29:D1:2884:C:O5'	2.27	0.47
36:BE:243:ALA:HB1	36:BE:247:ILE:CB	2.44	0.47
36:BE:246:ALA:O	36:BE:249:ALA:HB2	2.14	0.47
29:B1:1583:A:H2'	29:B1:1584:U:O4'	2.14	0.47
1:C1:133:U:H1'	1:C1:134:U:P	2.53	0.47
34:DC:159:ARG:HA	34:DC:181:ILE:O	2.14	0.47
1:A1:133:U:H1'	1:A1:134:U:P	2.53	0.47
1:C1:721:U:C4'	1:C1:722:G:OP1	2.62	0.47
34:DC:189:SER:C	34:DC:191:LYS:N	2.65	0.47
29:B1:1916:U:H2'	29:B1:1917:C:H6	1.76	0.47
29:D1:2156:C:H2'	29:D1:2178:A:H61	1.78	0.47
38:DG:187:GLU:O	38:DG:190:THR:N	2.47	0.47
5:CD:131:GLN:O	5:CD:135:ASP:CB	2.62	0.47
29:D1:898:U:H2'	29:D1:899:U:O4'	2.14	0.47
29:B1:1830:G:C4	29:B1:1831:U:C5	3.01	0.47
1:A1:410:A:C6	1:A1:411:C:C4	3.02	0.47
1:A1:666:U:O2	1:A1:666:U:C2'	2.61	0.47
44:BO:20:ARG:C	44:BO:22:LEU:N	2.66	0.47
29:D1:178:U:H1'	29:D1:241:G:C6	2.49	0.47
14:CM:101:ASN:C	14:CM:103:LYS:H	2.17	0.47
2:AA:51:GLY:O	2:AA:54:TRP:CB	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:127:LYS:CB	34:DC:128:LYS:HA	2.44	0.47
44:DO:26:ARG:O	44:DO:29:GLU:N	2.48	0.47
33:DB:236:GLY:O	33:DB:237:LEU:C	2.53	0.47
1:A1:1224:A:C6	1:A1:1225:U:O4	2.67	0.47
41:BJ:206:LEU:O	41:BJ:207:GLU:C	2.53	0.47
5:AD:65:ARG:O	5:AD:66:GLN:CB	2.62	0.47
41:DJ:61:SER:HA	41:DJ:126:ALA:CB	2.44	0.47
4:CC:121:GLY:O	4:CC:122:VAL:C	2.52	0.47
21:AT:27:ALA:O	21:AT:28:GLY:O	2.32	0.47
15:CN:116:VAL:O	15:CN:117:VAL:CB	2.62	0.47
35:DD:203:ARG:O	35:DD:204:GLY:O	2.32	0.47
1:A1:893:U:O2	1:A1:893:U:H2'	2.12	0.47
6:AE:117:GLY:HA3	6:AE:179:ARG:CB	2.44	0.47
53:BX:52:ARG:C	53:BX:54:ASP:H	2.17	0.47
49:DT:109:VAL:O	49:DT:113:ALA:HB3	2.14	0.47
29:D1:2229:A:H2'	29:D1:2230:C:N1	2.29	0.47
1:A1:1065:A:C3'	1:A1:1066:C:H6	2.27	0.47
1:A1:1099:U:H2'	1:A1:1099:U:O2	2.13	0.47
1:A1:53:G:C6	1:A1:54:C:C5	3.02	0.47
1:A1:964:U:H2'	1:A1:964:U:OP2	2.15	0.47
29:B1:1127:G:H22	29:B1:1132:C:N4	2.09	0.47
29:B1:1661:G:OP1	29:B1:1661:G:C4'	2.53	0.47
29:B1:191:U:H2'	29:B1:192:C:H6	1.79	0.47
29:B1:2199:G:C4	29:B1:2200:U:C5	3.03	0.47
29:B1:2248:C:H4'	29:B1:2271:A:C2	2.49	0.47
29:B1:653:A:O4'	29:B1:2360:C:H2'	2.14	0.47
29:B1:2416:U:H4'	29:B1:2967:A:O4'	2.14	0.47
29:B1:2655:U:H1'	29:B1:2656:A:C2	2.50	0.47
29:B1:2858:U:C2'	29:B1:2859:U:C5	2.94	0.47
29:B1:2917:G:O2'	29:B1:2918:G:O5'	2.32	0.47
29:B1:305:U:O2'	29:B1:306:A:OP2	2.24	0.47
29:B1:3074:G:H2'	29:B1:3075:G:C8	2.48	0.47
29:B1:3080:G:C6	29:B1:3081:C:C4	3.02	0.47
29:B1:3126:C:C4	29:B1:3127:A:C8	3.02	0.47
29:B1:3314:A:H5''	34:BC:118:PHE:C	2.35	0.47
29:B1:3298:C:N3	29:B1:3391:A:N1	2.63	0.47
29:B1:420:G:N2	29:B1:2384:A:C4	2.81	0.47
29:B1:544:C:OP2	29:B1:544:C:H3'	2.14	0.47
29:B1:593:C:H2'	29:B1:594:U:C4'	2.43	0.47
29:B1:606:C:C2	29:B1:607:A:C4	3.03	0.47
29:B1:650:C:C5'	29:B1:2872:A:OP2	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:722:G:C2	29:B1:748:U:O2	2.67	0.47
29:B1:761:A:H2'	29:B1:761:A:N3	2.30	0.47
29:B1:762:U:OP1	29:B1:763:G:P	2.72	0.47
29:B1:835:G:N3	29:B1:857:G:C2	2.82	0.47
29:B1:856:G:N1	29:B1:857:G:N2	2.62	0.47
29:B1:944:C:H2'	29:B1:945:C:C6	2.49	0.47
31:B3:111:A:C1'	31:B3:112:U:OP1	2.62	0.47
31:B3:4:C:N4	31:B3:5:U:N3	2.62	0.47
35:BD:8:VAL:C	35:BD:18:ASN:O	2.53	0.47
44:BO:83:LYS:C	44:BO:85:THR:N	2.67	0.47
1:C1:1002:G:C5	1:C1:1003:A:H2	2.31	0.47
1:C1:188:A:N9	1:C1:198:A:N6	2.62	0.47
1:C1:283:U:C3'	1:C1:284:G:C5'	2.89	0.47
1:C1:126:A:C6	1:C1:292:U:C2	3.02	0.47
1:C1:364:G:N2	1:C1:381:C:C1'	2.78	0.47
1:C1:378:A:C2'	1:C1:379:U:O5'	2.62	0.47
1:C1:386:G:H2'	1:C1:387:A:O5'	2.15	0.47
1:C1:394:C:C5	1:C1:395:U:C5	3.02	0.47
1:C1:514:G:N7	1:C1:538:A:C2	2.82	0.47
1:C1:555:A:H1'	1:C1:556:A:OP1	2.14	0.47
1:C1:611:U:C5	1:C1:612:U:C6	3.03	0.47
1:C1:621:A:H5''	1:C1:622:A:OP2	2.14	0.47
1:C1:870:C:C2	1:C1:871:G:N7	2.82	0.47
29:D1:99:A:O2'	29:D1:100:A:H5'	2.14	0.47
29:D1:1284:C:N3	29:D1:1285:G:N7	2.63	0.47
29:D1:1335:C:N4	29:D1:1336:U:O4	2.47	0.47
29:D1:1502:C:N4	29:D1:1513:G:N7	2.61	0.47
29:D1:157:A:O2'	29:D1:158:G:C8	2.67	0.47
29:D1:1658:G:C4	29:D1:1659:U:C5	3.02	0.47
29:D1:1661:G:C6	29:D1:1662:G:C6	3.02	0.47
29:D1:2165:G:N2	29:D1:2170:U:N3	2.61	0.47
29:D1:2224:A:H3'	29:D1:2225:U:H6	1.79	0.47
29:D1:2361:A:N7	29:D1:2362:C:C5	2.81	0.47
29:D1:2373:A:N3	29:D1:2824:G:O2'	2.47	0.47
29:D1:2607:G:C2	29:D1:2608:G:C4	3.03	0.47
29:D1:2423:U:C2	29:D1:2608:G:C2	3.02	0.47
29:D1:2909:U:C5	29:D1:2910:A:C8	3.02	0.47
29:D1:2951:G:O2'	29:D1:2952:G:H5'	2.15	0.47
29:D1:3044:G:H2'	29:D1:3045:G:H5'	1.96	0.47
29:D1:3106:A:H8	29:D1:3106:A:O5'	1.96	0.47
29:D1:3300:U:O2	29:D1:3300:U:C2'	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:332:C:H5''	29:D1:332:C:H6	1.78	0.47
29:D1:3371:G:C6	29:D1:3372:A:C4	3.02	0.47
29:D1:821:U:H2'	29:D1:822:G:H5'	1.95	0.47
30:D2:97:A:C2'	30:D2:98:C:C6	2.92	0.47
35:DD:42:VAL:C	35:DD:44:LYS:H	2.17	0.47
45:DP:69:GLY:O	45:DP:70:PRO:C	2.52	0.47
1:C1:837:G:C6	74:C1:1928:OHX:N1	2.82	0.47
1:C1:828:U:C5	1:C1:829:A:C6	3.02	0.47
29:B1:2725:U:H3'	29:B1:2725:U:C6	2.47	0.47
29:B1:957:C:H6	29:B1:957:C:O5'	1.97	0.47
29:B1:996:A:O2'	29:B1:997:A:H5'	2.14	0.47
30:B2:9:C:C4	30:B2:10:C:O2	2.67	0.47
31:B3:65:A:N6	31:B3:66:A:C6	2.83	0.47
34:BC:42:ALA:O	34:BC:43:LEU:O	2.32	0.47
1:A1:150:U:H5'	1:A1:151:G:P	2.54	0.47
1:A1:289:U:O2	1:A1:290:G:O4'	2.31	0.47
1:A1:70:C:C4	1:A1:71:A:N6	2.82	0.47
30:D2:110:G:C6	30:D2:111:U:N3	2.82	0.47
1:C1:1196:A:N3	1:C1:1196:A:O4'	2.48	0.47
1:C1:1210:C:H2'	1:C1:1210:C:O2	2.14	0.47
1:C1:1496:U:HO2'	1:C1:1497:U:H6	1.62	0.47
1:A1:1499:G:C6	1:A1:1508:U:O2	2.62	0.47
1:A1:1612:U:C4	1:A1:1613:U:H6	2.32	0.47
29:D1:1185:C:O5'	29:D1:1185:C:H6	1.96	0.47
29:B1:1466:G:C5	29:B1:1511:U:C4	3.02	0.47
29:B1:379:C:H42	29:B1:390:G:H1	1.61	0.47
29:D1:2684:C:O2'	29:D1:2685:C:O5'	2.32	0.47
29:D1:3202:G:H2'	29:D1:3203:U:C6	2.49	0.47
29:D1:373:A:C6	29:D1:375:A:C6	3.01	0.47
29:B1:1231:A:H4'	29:B1:1232:C:OP2	2.14	0.47
2:AA:178:ALA:HB1	2:AA:182:LEU:CB	2.44	0.47
29:D1:1232:C:C4	29:D1:1261:G:C4	3.01	0.47
29:D1:1265:U:C4	29:D1:1277:C:C2	3.02	0.47
29:B1:2233:A:OP2	74:B1:3599:OHX:N2	2.47	0.47
9:CH:20:TYR:HA	9:CH:85:ALA:H	1.80	0.47
29:B1:71:A:H5'	29:B1:73:C:H42	1.78	0.47
1:C1:1308:G:C5	1:C1:1309:C:C5	3.02	0.47
1:C1:1323:C:O3'	1:C1:1324:G:O4'	2.32	0.47
1:C1:1333:C:C2	1:C1:1419:G:C2	3.02	0.47
29:B1:1063:G:O2'	29:B1:1064:A:OP2	2.32	0.47
29:B1:1080:A:C5	29:B1:1082:U:H5''	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2514:U:O2'	29:D1:2515:A:C8	2.66	0.47
29:D1:1678:G:C4	29:D1:1679:A:N7	2.83	0.47
29:D1:1691:U:C2	29:D1:1692:U:C5	3.03	0.47
36:DE:96:ALA:C	36:DE:98:ALA:N	2.66	0.47
30:D2:91:G:C2	30:D2:92:A:C4	3.01	0.47
36:BE:264:GLN:HA	36:BE:266:ALA:N	2.29	0.47
29:B1:1363:A:H2'	29:B1:1364:C:C6	2.49	0.47
29:B1:366:A:N6	29:B1:367:A:C4	2.83	0.47
1:C1:778:G:N2	1:C1:783:G:C4	2.82	0.47
29:B1:140:C:C2	29:B1:141:C:C5	3.02	0.47
29:D1:1032:C:H2'	29:D1:1033:U:C6	2.49	0.47
73:DM:26:PHE:HA	73:DM:190:VAL:HA	1.96	0.47
1:A1:1358:G:HO2'	14:AM:129:GLN:C	2.17	0.47
1:A1:1360:A:N3	1:A1:1360:A:H2'	2.30	0.47
29:B1:296:A:N7	29:B1:297:G:C6	2.83	0.47
5:CD:134:VAL:C	5:CD:136:ALA:N	2.68	0.47
29:B1:2096:A:OP2	29:B1:2097:U:OP2	2.33	0.47
6:CE:103:ASP:C	6:CE:105:LEU:N	2.66	0.47
38:DG:161:VAL:O	38:DG:162:PRO:O	2.30	0.47
44:BO:148:TYR:C	44:BO:150:TRP:H	2.18	0.47
1:C1:1305:U:H3'	1:C1:1306:C:O2	2.14	0.47
49:BT:13:TYR:O	49:BT:16:GLN:CB	2.62	0.47
1:A1:575:C:H5'	1:A1:576:G:OP2	2.14	0.47
29:B1:439:C:H4'	29:B1:440:A:O5'	2.14	0.47
4:AC:105:MET:O	4:AC:108:LYS:N	2.35	0.47
43:DN:95:ALA:C	43:DN:97:SER:N	2.68	0.47
15:CN:32:LYS:O	15:CN:34:LEU:N	2.42	0.47
40:BI:187:ILE:HA	40:BI:188:THR:HA	1.48	0.47
33:BB:6:ARG:O	33:BB:7:ASN:C	2.51	0.47
2:AA:63:ILE:C	2:AA:65:ALA:H	2.16	0.47
1:A1:632:U:H2'	1:A1:633:U:O5'	2.15	0.47
15:CN:28:SER:CB	15:CN:112:VAL:HA	2.43	0.47
37:BF:51:ARG:O	37:BF:52:VAL:CB	2.62	0.47
42:DK:94:ARG:HA	42:DK:95:ASN:HA	1.72	0.47
11:CJ:77:GLN:O	11:CJ:78:VAL:C	2.53	0.47
1:C1:1702:A:N6	1:C1:1703:C:H41	2.12	0.47
29:B1:2400:G:O4'	29:B1:2401:A:OP1	2.32	0.47
49:BT:65:TYR:O	49:BT:66:ASN:CB	2.62	0.47
54:BY:11:HIS:O	54:BY:12:ARG:O	2.32	0.47
1:C1:578:U:H4'	1:C1:578:U:OP1	2.12	0.47
38:DG:143:THR:O	38:DG:147:LEU:CB	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CQ:91:PRO:O	18:CQ:99:ALA:HA	2.14	0.47
1:A1:1099:U:O2'	1:A1:1100:G:H5'	2.13	0.47
1:A1:1112:G:P	1:A1:1113:A:H2'	2.54	0.47
1:A1:1151:A:C2'	1:A1:1152:A:H5'	2.43	0.47
1:A1:1779:U:O2'	1:A1:1780:G:O5'	2.31	0.47
1:A1:814:A:H2'	1:A1:816:G:H21	1.78	0.47
29:B1:108:A:O2'	29:B1:109:A:H5''	2.15	0.47
29:B1:1108:U:C2	29:B1:1109:U:C6	3.03	0.47
29:B1:1139:G:C8	29:B1:1139:G:H5''	2.38	0.47
29:B1:113:C:O2'	29:B1:114:A:H5'	2.13	0.47
29:B1:1188:U:H3	29:B1:1317:A:N6	2.11	0.47
29:B1:1455:U:O4'	29:B1:1455:U:P	2.72	0.47
29:B1:1908:A:H62	29:B1:1909:A:N6	2.13	0.47
29:B1:1452:A:C1'	29:B1:2347:U:H5''	2.37	0.47
29:B1:2423:U:C2	29:B1:2608:G:C2	3.02	0.47
29:B1:2929:C:C4	29:B1:2930:A:C8	3.02	0.47
29:B1:2931:C:H2'	29:B1:2932:U:O4'	2.14	0.47
29:B1:2986:U:O2'	29:B1:2987:A:H5'	2.14	0.47
29:B1:3086:A:C8	29:B1:3087:A:N7	2.82	0.47
29:B1:3099:C:C2'	29:B1:3100:U:C6	2.97	0.47
29:B1:3289:G:C5	74:B1:3581:OHX:N3	2.83	0.47
29:B1:595:G:H2'	29:B1:596:C:O4'	2.14	0.47
29:B1:79:U:H2'	29:B1:80:G:H8	1.79	0.47
29:B1:960:U:O4'	29:B1:960:U:O2	2.33	0.47
31:B3:145:U:O2'	31:B3:146:U:H5'	2.15	0.47
31:B3:40:A:O2'	31:B3:41:A:P	2.72	0.47
31:B3:7:U:C4	31:B3:8:C:N4	2.82	0.47
44:BO:85:THR:CB	44:BO:88:GLY:N	2.76	0.47
1:C1:1032:G:C2	1:C1:1033:C:C4	3.03	0.47
1:C1:1045:C:O2'	1:C1:1046:G:P	2.71	0.47
1:C1:1099:U:O2	1:C1:1099:U:H2'	2.14	0.47
1:C1:125:U:H6	1:C1:125:U:C5'	2.27	0.47
1:C1:145:A:N6	1:C1:146:U:C4	2.82	0.47
1:C1:172:C:O2'	1:C1:173:A:C8	2.49	0.47
1:C1:590:C:O2'	1:C1:591:A:H5'	2.14	0.47
1:C1:605:A:H62	1:C1:606:A:N6	2.10	0.47
1:C1:770:A:H2'	1:C1:771:A:O4'	2.14	0.47
29:D1:65:A:H2'	29:D1:111:C:C5	2.50	0.47
29:D1:1220:U:O4'	29:D1:1223:A:O4'	2.33	0.47
29:D1:1315:U:O2'	29:D1:1316:C:H5'	2.15	0.47
29:D1:1439:U:C2	29:D1:1440:G:N7	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1504:A:C5	29:D1:1505:C:H5	2.31	0.47
29:D1:1528:G:C4	29:D1:1529:A:N7	2.82	0.47
29:D1:1555:U:H5'	29:D1:1580:A:C2	2.49	0.47
29:D1:1849:C:H4'	29:D1:1850:A:OP2	2.14	0.47
29:D1:1881:A:C6	29:D1:1882:G:N7	2.82	0.47
29:D1:1909:A:N1	29:D1:1910:A:C2	2.82	0.47
29:D1:2152:A:O2'	29:D1:2153:U:H5'	2.14	0.47
29:D1:2198:A:C2	29:D1:2270:A:N7	2.83	0.47
29:D1:2240:G:C2'	29:D1:2241:U:O5'	2.62	0.47
29:D1:2257:C:O4'	29:D1:2257:C:O2	2.31	0.47
29:D1:2805:G:O2'	29:D1:2806:U:C5'	2.62	0.47
29:D1:1302:A:N9	29:D1:2887:A:N1	2.63	0.47
29:D1:2876:C:N1	29:D1:2952:G:N2	2.63	0.47
29:D1:2984:C:N3	29:D1:2985:C:C5	2.82	0.47
29:D1:3057:U:C2'	29:D1:3058:U:H4'	2.44	0.47
29:D1:3377:G:N9	74:D1:3452:OHX:N5	2.63	0.47
29:D1:30:G:C6	29:D1:55:G:C6	3.03	0.47
29:D1:595:G:C6	29:D1:596:C:H5	2.33	0.47
29:D1:636:C:O2'	29:D1:637:C:C5'	2.63	0.47
29:D1:662:U:H3	29:D1:801:A:H2	1.63	0.47
29:D1:705:A:C8	29:D1:715:A:N6	2.81	0.47
29:D1:774:G:C2	29:D1:775:A:C8	3.01	0.47
29:D1:947:G:H2'	29:D1:948:C:C6	2.45	0.47
31:D3:3:A:H3'	31:D3:3:A:H8	1.78	0.47
29:D1:416:A:N6	31:D3:7:U:H3	2.10	0.47
44:DO:83:LYS:H	44:DO:85:THR:CA	2.26	0.47
74:D1:3502:OHX:N6	54:DY:20:GLY:HA3	2.29	0.47
1:A1:826:U:H2'	1:A1:827:C:H6	1.78	0.47
1:C1:224:C:O2'	1:C1:225:A:C8	2.68	0.47
1:C1:225:A:O2'	1:C1:226:A:P	2.72	0.47
1:A1:646:C:H2'	1:A1:647:G:C4'	2.45	0.47
29:B1:2643:A:C6	29:B1:2645:G:H1'	2.49	0.47
29:B1:2730:G:N2	29:B1:2731:U:H1'	2.30	0.47
30:B2:75:G:H21	30:B2:105:C:H41	1.63	0.47
1:A1:198:A:H1'	1:A1:199:G:P	2.54	0.47
30:D2:64:A:N6	30:D2:111:U:C5	2.63	0.47
1:C1:330:G:OP2	1:C1:330:G:H8	1.95	0.47
29:D1:2672:G:C8	29:D1:2672:G:H3'	2.49	0.47
1:A1:1683:C:H4'	1:A1:1684:U:C4	2.49	0.47
1:A1:243:G:C5	1:A1:251:A:N6	2.80	0.47
7:AF:132:SER:O	7:AF:133:LYS:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1159:C:H6	1:C1:1159:C:H5'	1.79	0.47
1:C1:1180:C:C2	1:C1:1181:U:C6	3.02	0.47
1:C1:1346:A:O4'	1:C1:1346:A:P	2.72	0.47
1:C1:1362:U:C3'	1:C1:1363:U:O4'	2.48	0.47
1:C1:1431:C:C3'	1:C1:1432:U:C5'	2.92	0.47
1:C1:1507:G:H2'	1:C1:1508:U:O4'	2.14	0.47
1:C1:1550:A:N1	1:C1:1562:G:C6	2.83	0.47
1:C1:1613:U:N3	1:C1:1614:A:H8	2.06	0.47
11:CJ:18:ALA:CB	11:CJ:84:ALA:HB2	2.44	0.47
1:A1:1186:U:C2'	1:A1:1187:U:H5'	2.44	0.47
1:A1:1241:G:N2	1:A1:1243:G:H3'	2.30	0.47
1:A1:1258:U:C2'	1:A1:1259:U:O4'	2.59	0.47
1:A1:1484:G:H5'	1:A1:1485:C:OP2	2.13	0.47
1:A1:1498:G:C6	1:A1:1510:U:N3	2.83	0.47
1:C1:1066:C:C2	1:C1:1067:C:C6	3.03	0.47
30:B2:91:G:C2	30:B2:92:A:C4	3.02	0.47
29:B1:3228:C:C2'	29:B1:3229:G:C8	2.98	0.47
29:B1:3282:U:O2'	29:B1:3283:U:H5	1.97	0.47
29:D1:3201:C:N3	29:D1:3202:G:N7	2.62	0.47
29:B1:3239:G:O2'	29:B1:3240:C:H5'	2.15	0.47
29:D1:1419:A:C6	29:D1:1420:C:C5	3.02	0.47
29:D1:206:G:N2	29:D1:207:U:H1'	2.30	0.47
29:B1:1234:G:N1	29:B1:1255:C:C4	2.83	0.47
29:B1:1231:A:N6	29:B1:1276:U:C5	2.77	0.47
29:B1:1281:G:H8	29:B1:1281:G:OP2	1.95	0.47
30:B2:23:A:O5'	30:B2:23:A:H8	1.97	0.47
29:D1:73:C:P	29:D1:74:G:O5'	2.72	0.47
4:AC:46:THR:CB	4:AC:84:ILE:HA	2.44	0.47
29:D1:3352:U:C2'	29:D1:3354:U:H4'	2.36	0.47
29:B1:337:G:C2	31:B3:27:U:C2	3.02	0.47
1:C1:1334:U:H2'	1:C1:1335:U:C6	2.49	0.47
1:C1:1419:G:C6	1:C1:1420:C:O2	2.67	0.47
16:CO:30:SER:O	16:CO:34:ILE:CB	2.62	0.47
29:B1:1078:U:C4	29:B1:1082:U:C4	3.02	0.47
1:A1:1417:A:N3	1:A1:1417:A:H2'	2.28	0.47
29:D1:1082:U:OP2	29:D1:1082:U:O3'	2.33	0.47
36:BE:271:LYS:C	36:BE:275:THR:HA	2.35	0.47
29:D1:1689:U:C2'	29:D1:1690:C:H5'	2.45	0.47
30:D2:91:G:N1	30:D2:92:A:C5	2.82	0.47
43:DN:48:GLY:C	43:DN:50:LYS:CA	2.80	0.47
1:A1:1660:A:O2'	1:A1:1661:U:H5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1013:G:H3'	29:B1:1014:U:O3'	2.15	0.47
1:A1:356:G:C6	1:A1:357:G:C8	3.02	0.47
29:D1:1347:U:P	29:D1:1347:U:H6	2.37	0.47
1:C1:774:A:C6	1:C1:775:G:H1'	2.49	0.47
1:A1:1433:G:O2'	1:A1:1434:U:H6	1.98	0.47
36:BE:158:ARG:O	36:BE:159:VAL:C	2.53	0.47
5:AD:117:THR:HA	5:AD:191:ALA:HB1	1.94	0.47
29:D1:1023:C:H3'	29:D1:1024:G:H5''	1.95	0.47
1:C1:1021:C:N3	1:C1:1022:C:C2	2.82	0.47
29:D1:1031:C:C4	29:D1:1032:C:C5	3.03	0.47
36:DE:225:GLY:N	36:DE:233:ALA:HB3	2.29	0.47
5:CD:93:LEU:C	5:CD:95:ASN:H	2.17	0.47
14:AM:62:ALA:O	14:AM:64:HIS:N	2.47	0.47
29:B1:1334:U:OP1	38:BG:206:LYS:HA	2.15	0.47
1:A1:1358:G:N1	1:A1:1359:C:N4	2.62	0.47
29:D1:840:C:O2'	29:D1:841:A:H5'	2.14	0.47
1:A1:109:G:H2'	1:A1:109:G:N3	2.28	0.47
34:DC:192:VAL:O	34:DC:195:ALA:CB	2.61	0.47
29:D1:1089:G:C2	29:D1:1090:G:C8	3.02	0.47
29:B1:667:C:H2'	29:B1:667:C:O2	2.13	0.47
1:C1:410:A:N1	1:C1:411:C:C2	2.83	0.47
1:C1:802:G:H5''	1:C1:803:A:OP2	2.14	0.47
29:B1:1004:U:N3	29:B1:1005:G:C5	2.82	0.47
29:D1:136:G:H8	29:D1:136:G:OP2	1.97	0.47
38:DG:138:TYR:O	38:DG:233:GLU:O	2.33	0.47
8:AG:138:ASN:HA	8:AG:142:GLU:H	1.79	0.47
39:BH:100:GLU:C	39:BH:103:ALA:H	2.17	0.47
41:BJ:57:LEU:HA	41:BJ:129:VAL:O	2.14	0.47
40:BI:139:ASN:HA	40:BI:140:VAL:CB	2.44	0.47
38:BG:22:THR:C	38:BG:24:GLU:H	2.16	0.47
17:AP:95:PHE:O	17:AP:96:VAL:C	2.52	0.47
48:BS:119:LEU:O	48:BS:123:LEU:CB	2.62	0.47
21:CT:48:THR:O	21:CT:49:GLY:C	2.52	0.47
37:DF:27:PRO:O	37:DF:29:LYS:N	2.48	0.47
1:A1:1096:C:H2'	1:A1:1096:C:O2	2.13	0.47
1:A1:1299:G:C6	1:A1:1300:A:N6	2.83	0.47
1:A1:50:C:H2'	1:A1:424:C:H41	1.79	0.47
1:A1:523:G:H2'	1:A1:524:U:N3	2.29	0.47
1:A1:989:U:C2	1:A1:990:C:C6	3.03	0.47
29:B1:109:A:H4'	29:B1:110:G:OP1	2.13	0.47
29:B1:1157:G:C6	29:B1:1158:A:N3	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1168:U:O2'	29:B1:1169:A:H5''	2.15	0.47
29:B1:1220:U:C4	29:B1:1286:A:N7	2.82	0.47
29:B1:1390:A:N7	29:B1:1418:A:C5	2.83	0.47
29:B1:1455:U:C2	29:B1:3078:U:H5	2.32	0.47
29:B1:1455:U:C3'	29:B1:1456:A:C8	2.97	0.47
29:B1:53:G:N2	29:B1:1546:A:C2	2.82	0.47
29:B1:155:G:P	29:B1:155:G:C8	2.98	0.47
29:B1:1489:A:C2	29:B1:1854:C:C2	3.02	0.47
29:B1:207:U:O2'	29:B1:208:C:H5'	2.15	0.47
29:B1:218:G:H8	29:B1:218:G:OP1	1.97	0.47
29:B1:2285:C:H5	29:B1:2286:U:C6	2.33	0.47
29:B1:2290:C:C4	29:B1:2303:A:N1	2.82	0.47
29:B1:2419:A:N7	29:B1:2606:G:O6	2.47	0.47
29:B1:264:G:C2	29:B1:265:A:C4	3.03	0.47
29:B1:278:U:C4	29:B1:279:U:C4	3.03	0.47
29:B1:2373:A:N3	29:B1:2824:G:O2'	2.47	0.47
29:B1:283:G:H3'	29:B1:285:A:C8	2.49	0.47
29:B1:2895:G:C5	29:B1:2907:G:C2	3.02	0.47
29:B1:2932:U:C6	29:B1:2935:U:C5	2.86	0.47
29:B1:2987:A:C4	29:B1:2988:C:C6	3.03	0.47
29:B1:317:A:O2'	29:B1:318:A:O5'	2.29	0.47
29:B1:3359:A:N3	29:B1:3360:C:H1'	2.30	0.47
29:B1:532:A:H3'	29:B1:533:A:H8	1.75	0.47
29:B1:506:U:C2	29:B1:585:A:N1	2.82	0.47
29:B1:593:C:H3'	29:B1:609:G:H22	1.78	0.47
29:B1:762:U:C4'	29:B1:762:U:OP1	2.60	0.47
29:B1:888:A:C5	29:B1:889:U:C4	3.03	0.47
31:B3:110:C:H4'	31:B3:112:U:H5	1.78	0.47
44:BO:82:GLY:HA3	44:BO:87:GLN:CB	2.44	0.47
1:C1:1028:C:C1'	1:C1:1029:U:H5''	2.40	0.47
1:C1:1073:G:C5	1:C1:1074:G:C5	3.02	0.47
1:C1:1120:U:C2	1:C1:1121:C:C6	3.01	0.47
1:C1:1142:A:C2'	1:C1:1143:A:O4'	2.61	0.47
1:C1:1146:G:N1	1:C1:1147:A:N6	2.62	0.47
1:C1:149:C:C2	1:C1:150:U:C6	3.02	0.47
1:C1:151:G:H22	1:C1:163:G:N2	2.12	0.47
1:C1:167:U:C6	1:C1:167:U:C5'	2.87	0.47
1:C1:1764:C:C5'	1:C1:1764:C:C6	2.87	0.47
1:C1:176:C:C5	1:C1:177:U:C4	3.03	0.47
1:C1:545:A:O2'	1:C1:546:U:C6	2.68	0.47
1:C1:586:G:H2'	1:C1:587:C:H6	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:604:A:C2	1:C1:605:A:C2	3.03	0.47
29:D1:121:A:H5'	29:D1:150:A:H2	1.79	0.47
29:D1:1292:C:O2	29:D1:1292:C:C2'	2.57	0.47
29:D1:1325:U:H4'	29:D1:1325:U:OP1	2.14	0.47
29:D1:1368:U:H2'	29:D1:1369:A:C8	2.43	0.47
29:D1:1379:G:C6	29:D1:1428:A:N1	2.82	0.47
29:D1:1602:A:N6	29:D1:1603:A:N6	2.62	0.47
29:D1:1789:G:C2	29:D1:1790:G:N7	2.83	0.47
29:D1:1873:U:C2'	29:D1:1874:A:H5'	2.44	0.47
29:D1:1891:A:C6	29:D1:2345:A:C6	3.03	0.47
29:D1:2725:U:C3'	29:D1:2725:U:C6	2.98	0.47
29:D1:283:G:C2	29:D1:285:A:C6	3.02	0.47
29:D1:2916:U:C5	29:D1:2935:U:O2'	2.60	0.47
29:D1:2932:U:N1	29:D1:2935:U:C5	2.81	0.47
29:D1:2998:U:C5'	29:D1:2998:U:C6	2.94	0.47
29:D1:3119:U:O2	29:D1:3121:U:OP1	2.31	0.47
29:D1:3316:A:N6	29:D1:3320:A:C6	2.66	0.47
29:D1:3391:A:N3	29:D1:3392:U:C6	2.82	0.47
29:D1:382:U:C2	29:D1:383:G:H1'	2.49	0.47
29:D1:54:C:H2'	29:D1:55:G:O5'	2.14	0.47
29:D1:538:G:C2	29:D1:556:U:H5	2.32	0.47
29:D1:535:G:N2	29:D1:558:U:HO2'	2.12	0.47
29:D1:577:C:O2	37:DF:149:ILE:HA	2.14	0.47
29:D1:932:U:O4'	29:D1:933:A:H5''	2.14	0.47
31:D3:74:U:O2'	31:D3:89:A:C1'	2.63	0.47
1:C1:824:G:N1	1:C1:850:A:C2	2.82	0.47
1:C1:649:U:O4	1:C1:685:A:C6	2.68	0.47
29:B1:1056:U:H3'	29:B1:1056:U:C6	2.50	0.47
29:B1:2640:A:C8	29:B1:2641:U:C5	3.02	0.47
30:B2:111:U:O3'	30:B2:113:C:P	2.72	0.47
31:B3:82:U:O3'	31:B3:83:C:O4'	2.32	0.47
1:A1:125:U:H6	1:A1:125:U:C5'	2.27	0.47
1:A1:268:C:C4	1:A1:288:A:H2	2.32	0.47
1:A1:75:U:O2'	1:A1:76:A:H4'	2.14	0.47
1:A1:74:U:O2'	1:A1:75:U:P	2.72	0.47
1:C1:341:A:N3	1:C1:342:C:C6	2.83	0.47
29:D1:2673:A:N6	29:D1:2681:U:H3	2.06	0.47
1:A1:1722:A:OP1	1:A1:1722:A:C4'	2.62	0.47
1:A1:342:C:C2'	1:A1:342:C:O2	2.61	0.47
1:C1:1162:C:H6	1:C1:1162:C:OP2	1.96	0.47
1:C1:1183:A:C6	1:C1:1184:A:N1	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1192:C:C6	1:C1:1193:A:C8	3.03	0.47
1:C1:1470:C:C2'	1:C1:1471:A:OP1	2.63	0.47
1:C1:1483:A:O2'	11:CJ:72:GLY:HA2	2.14	0.47
1:A1:1198:G:C5'	1:A1:1199:G:H8	2.27	0.47
1:A1:1471:A:H2'	1:A1:1471:A:N3	2.29	0.47
1:A1:1586:A:H2'	1:A1:1587:A:O4'	2.13	0.47
1:A1:1600:A:C2'	1:A1:1602:C:H41	2.28	0.47
15:AN:12:GLN:CB	15:AN:14:GLN:O	2.63	0.47
29:B1:437:G:C5	29:B1:438:A:C6	3.03	0.47
1:C1:1053:G:C2	1:C1:1067:C:H1'	2.50	0.47
46:BQ:111:LYS:O	46:BQ:113:TYR:N	2.48	0.47
29:B1:3211:C:C4'	29:B1:3211:C:OP1	2.62	0.47
31:D3:28:C:O2	31:D3:28:C:C2'	2.62	0.47
29:D1:3250:U:O2'	29:D1:3251:U:H5'	2.13	0.47
29:D1:214:G:H2'	29:D1:215:G:C8	2.49	0.47
29:D1:375:A:H2'	29:D1:376:G:OP1	2.13	0.47
29:B1:1272:C:H2'	29:B1:1273:A:C4'	2.44	0.47
29:D1:3169:U:C4	29:D1:3170:A:C6	3.03	0.47
29:D1:3221:C:C4	29:D1:3222:U:H5	2.32	0.47
2:AA:176:LEU:O	2:AA:177:LEU:C	2.52	0.47
1:A1:690:G:C2'	1:A1:691:C:C5'	2.92	0.47
1:C1:1314:U:O2'	1:C1:1315:U:OP2	2.32	0.47
1:C1:1332:C:H6	1:C1:1332:C:O5'	1.97	0.47
29:B1:3221:C:H2'	29:B1:3222:U:H5'	1.96	0.47
29:B1:3260:G:C2'	29:B1:3260:G:N3	2.75	0.47
29:B1:1084:A:H3'	29:B1:1085:A:H8	1.80	0.47
1:C1:1650:U:C2'	1:C1:1651:A:C8	2.97	0.47
29:D1:3274:A:H1'	29:D1:3275:U:OP2	2.15	0.47
1:A1:1332:C:O2'	1:A1:1333:C:C6	2.59	0.47
1:A1:1391:A:C3'	1:A1:1392:U:H5''	2.44	0.47
29:B1:3274:A:C4'	29:B1:3275:U:OP2	2.61	0.47
29:B1:1715:A:C8	29:B1:1716:U:H5''	2.50	0.47
9:CH:43:THR:O	9:CH:44:GLY:C	2.52	0.47
36:BE:264:GLN:O	36:BE:283:ALA:C	2.53	0.47
1:C1:1783:C:N4	1:C1:1784:C:H41	2.12	0.47
29:D1:2403:G:O4'	29:D1:2872:A:N7	2.47	0.47
49:DT:72:VAL:O	49:DT:73:GLY:O	2.32	0.47
1:A1:1734:U:N3	1:A1:1735:U:C4	2.82	0.47
11:CJ:91:ALA:H	11:CJ:97:VAL:CB	2.26	0.47
29:D1:1717:U:H6	29:D1:1717:U:H5''	1.79	0.47
12:AK:48:ASN:O	12:AK:52:GLY:N	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:774:A:H2'	1:C1:775:G:C5'	2.44	0.47
29:B1:1743:G:H2'	29:B1:1744:G:H5'	1.96	0.47
9:CH:64:ALA:HA	9:CH:68:ALA:CB	2.44	0.47
1:C1:1122:G:C2	1:C1:1126:G:C6	3.03	0.47
1:C1:1122:G:N2	1:C1:1126:G:C6	2.82	0.47
29:D1:2768:U:HO2'	29:D1:2769:A:H5'	1.79	0.47
29:D1:141:C:H2'	29:D1:142:C:H6	1.76	0.47
29:D1:96:G:C2	29:D1:97:U:N1	2.82	0.47
1:C1:215:A:N7	1:C1:216:U:C5	2.82	0.47
29:B1:1650:G:H2'	29:B1:1651:U:C6	2.49	0.47
44:DO:157:LYS:C	44:DO:159:ARG:N	2.68	0.47
3:CB:152:HIS:O	3:CB:154:LEU:N	2.48	0.47
1:A1:317:C:H2'	1:A1:317:C:O2	2.14	0.47
29:D1:605:U:C5'	29:D1:605:U:C6	2.88	0.47
29:D1:317:A:O2'	29:D1:318:A:O5'	2.24	0.47
14:CM:27:LYS:O	14:CM:29:GLU:N	2.45	0.47
29:D1:1706:C:C6	29:D1:1707:A:C8	3.03	0.47
1:A1:809:A:N1	1:A1:810:G:N1	2.62	0.47
1:A1:877:G:H5'	1:A1:936:G:H21	1.79	0.47
29:B1:2506:U:O5'	29:B1:2506:U:H6	1.98	0.47
1:C1:278:U:O2	1:C1:278:U:C3'	2.62	0.47
39:DH:225:LYS:C	39:DH:227:ASP:N	2.68	0.47
2:CA:86:VAL:O	2:CA:88:LYS:N	2.48	0.47
29:B1:2414:G:N2	29:B1:2415:C:H1'	2.30	0.47
35:BD:85:SER:C	35:BD:87:GLN:N	2.67	0.47
40:BI:40:HIS:O	40:BI:42:ASP:N	2.48	0.47
20:AS:26:SER:C	20:AS:28:THR:H	2.17	0.47
49:BT:77:ASN:CB	49:BT:87:LYS:O	2.62	0.47
14:AM:1:MET:N	14:AM:2:PRO:HA	2.28	0.47
13:CL:32:LEU:O	13:CL:38:VAL:CB	2.63	0.47
29:B1:1860:G:H2'	29:B1:1861:G:C8	2.48	0.47
51:BV:5:ILE:H	51:BV:13:ILE:H	1.62	0.47
4:CC:192:PRO:O	4:CC:193:ALA:CB	2.62	0.47
2:AA:48:ILE:O	2:AA:49:ASN:C	2.52	0.47
2:AA:50:VAL:O	2:AA:53:THR:CB	2.63	0.47
41:BJ:45:GLU:O	41:BJ:47:PRO:N	2.47	0.47
50:DU:93:LEU:O	50:DU:94:TYR:O	2.32	0.47
30:B2:52:G:N2	30:B2:53:U:C2	2.83	0.47
74:D2:202:OHX:N1	74:D2:209:OHX:N3	2.62	0.47
13:AL:70:VAL:O	13:AL:74:GLN:C	2.52	0.47
32:DA:129:SER:O	32:DA:131:ALA:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:228:ASN:HA	3:CB:229:LEU:HA	1.62	0.47
1:A1:1042:G:N1	1:A1:1043:A:C6	2.83	0.47
1:A1:1035:G:N1	1:A1:1101:G:C5	2.83	0.47
1:A1:1629:G:H2'	1:A1:1630:U:C1'	2.43	0.47
1:A1:1637:C:O2'	1:A1:1638:G:OP1	2.32	0.47
1:A1:38:C:C2'	1:A1:39:A:H5''	2.44	0.47
1:A1:607:G:O6	1:A1:613:G:H5'	2.14	0.47
1:A1:940:A:C2	1:A1:941:A:N9	2.82	0.47
1:A1:988:A:C2	1:A1:989:U:H1'	2.49	0.47
29:B1:1149:G:H3'	29:B1:1150:A:H5''	1.96	0.47
29:B1:1172:G:C2'	29:B1:1173:U:O5'	2.62	0.47
29:B1:1204:A:H62	29:B1:1300:G:N2	2.11	0.47
29:B1:1291:A:C2'	29:B1:1292:C:O5'	2.62	0.47
29:B1:1406:A:H2'	29:B1:1407:A:C8	2.50	0.47
29:B1:1654:A:N1	29:B1:1655:G:N3	2.61	0.47
29:B1:913:A:C2	29:B1:2134:G:N3	2.82	0.47
29:B1:221:A:N3	29:B1:224:C:C5	2.82	0.47
1:A1:1780:G:C1'	29:B1:2262:A:O3'	2.63	0.47
29:B1:2276:G:O6	29:B1:2277:C:C4	2.67	0.47
29:B1:2357:A:N1	29:B1:2983:C:C5	2.76	0.47
29:B1:2738:A:C2	29:B1:2739:A:C4	3.03	0.47
29:B1:2836:C:H5	29:B1:2853:A:C2	2.33	0.47
29:B1:2969:A:C6	29:B1:2970:C:N4	2.83	0.47
29:B1:2997:G:O2'	29:B1:2997:G:N3	2.43	0.47
29:B1:3070:A:C6	29:B1:3071:U:C4	3.03	0.47
29:B1:3111:U:O4	29:B1:3121:U:H5	1.98	0.47
29:B1:313:A:C5	29:B1:314:U:C4	3.02	0.47
29:B1:3302:U:H6	29:B1:3302:U:O5'	1.97	0.47
29:B1:3368:U:H3'	29:B1:3369:G:H5''	1.96	0.47
29:B1:372:A:N6	29:B1:373:A:C6	2.83	0.47
29:B1:49:A:O2'	29:B1:50:U:P	2.73	0.47
29:B1:535:G:OP1	74:B1:3471:OHX:N1	2.48	0.47
29:B1:595:G:C6	29:B1:596:C:C5	3.02	0.47
29:B1:648:C:H4'	29:B1:649:A:O5'	2.13	0.47
29:B1:706:A:C2'	29:B1:707:U:H5'	2.44	0.47
29:B1:739:G:C4	29:B1:740:G:C8	3.03	0.47
29:B1:758:C:C1'	29:B1:759:U:OP2	2.62	0.47
29:B1:809:G:N3	29:B1:809:G:H2'	2.29	0.47
29:B1:962:A:N6	29:B1:2408:U:O2	2.48	0.47
1:C1:10:G:H2'	1:C1:11:A:H8	1.79	0.47
1:C1:1147:A:C6	1:C1:1148:C:C4	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1744:A:C2'	1:C1:1745:G:H5'	2.43	0.47
1:C1:601:A:C5	1:C1:602:U:C4	3.03	0.47
1:C1:867:G:C5	1:C1:868:G:N7	2.83	0.47
8:CG:36:GLN:HA	8:CG:39:LYS:CB	2.45	0.47
29:D1:1107:C:O2	29:D1:1108:U:C5	2.68	0.47
29:D1:1120:A:C2	29:D1:1121:U:C5	3.02	0.47
29:D1:1165:A:C2	29:D1:1166:G:C8	3.02	0.47
29:D1:1173:U:O4'	29:D1:1179:A:C4	2.68	0.47
29:D1:1291:A:O2'	29:D1:1292:C:OP1	2.32	0.47
29:D1:1659:U:N3	29:D1:1660:C:C4	2.83	0.47
29:D1:1514:G:N7	29:D1:1841:A:C4	2.82	0.47
29:D1:1847:A:C2	29:D1:1849:C:C2	3.03	0.47
29:D1:2149:A:H2'	29:D1:2150:G:O5'	2.15	0.47
29:D1:2150:G:C5	29:D1:2151:C:C5	3.03	0.47
29:D1:2224:A:H2'	29:D1:2225:U:C4'	2.44	0.47
29:D1:2253:G:C8	29:D1:2254:U:C4	3.02	0.47
29:D1:2253:G:C6	29:D1:2254:U:N3	2.82	0.47
29:D1:2357:A:H2'	29:D1:2358:A:C8	2.49	0.47
29:D1:2376:G:N2	29:D1:2377:G:C2	2.83	0.47
29:D1:2610:G:N3	29:D1:2610:G:H2'	2.28	0.47
29:D1:2830:G:H1	29:D1:2858:U:H3	1.63	0.47
29:D1:2876:C:O2'	29:D1:2877:G:H5'	2.15	0.47
29:D1:2997:G:C1'	29:D1:2998:U:OP2	2.62	0.47
29:D1:3000:A:C2	29:D1:3001:C:C4	3.02	0.47
29:D1:3040:A:C2'	29:D1:3041:U:H5'	2.45	0.47
29:D1:3059:G:C2'	29:D1:3060:C:H5'	2.44	0.47
29:D1:1455:U:C2	29:D1:3078:U:C6	3.02	0.47
29:D1:3131:U:C2'	29:D1:3131:U:O2	2.57	0.47
29:D1:3149:G:C5	29:D1:3150:A:C8	3.02	0.47
29:D1:2704:A:OP2	74:D1:3402:OHX:N2	2.47	0.47
29:D1:532:A:C6	29:D1:533:A:C2	3.03	0.47
29:D1:544:C:OP2	29:D1:544:C:H3'	2.15	0.47
29:D1:651:G:C6	29:D1:652:G:O6	2.67	0.47
29:D1:680:G:C6	29:D1:701:G:C6	3.02	0.47
29:D1:75:G:C6	29:D1:76:G:N1	2.83	0.47
29:D1:9:U:O2	29:D1:9:U:C2'	2.63	0.47
31:D3:74:U:OP2	31:D3:76:C:C4	2.67	0.47
1:A1:826:U:H2'	1:A1:827:C:C5	2.49	0.47
29:B1:1056:U:C3'	29:B1:1056:U:C6	2.98	0.47
29:B1:2701:U:O4'	29:B1:2705:A:C6	2.67	0.47
1:A1:139:C:H2'	1:A1:139:C:O2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:186:C:N4	1:A1:187:G:C5	2.82	0.47
1:A1:273:G:C4	1:A1:274:G:C8	3.02	0.47
1:C1:1714:A:N1	1:C1:1715:G:C2	2.83	0.47
29:D1:2673:A:O2'	42:DK:107:ASP:HA	2.14	0.47
29:B1:2678:A:C5'	29:B1:2679:A:C2	2.97	0.47
1:C1:1160:A:C2'	1:C1:1161:C:C6	2.86	0.47
1:C1:1201:G:N7	1:C1:1202:A:N3	2.62	0.47
1:C1:1552:U:N3	1:C1:1553:G:C5	2.83	0.47
1:C1:1365:C:OP1	11:CJ:28:LEU:O	2.33	0.47
1:A1:1379:C:C2'	1:A1:1379:C:O2	2.63	0.47
1:A1:1437:U:H2'	1:A1:1438:G:H5'	1.95	0.47
1:A1:1207:C:C2	1:A1:1455:G:N1	2.83	0.47
1:A1:1456:C:H5''	1:A1:1457:C:H5'	1.92	0.47
1:A1:1543:A:C8	1:A1:1569:A:C6	3.03	0.47
1:A1:1170:G:C6	1:A1:1574:G:C5	3.02	0.47
1:A1:1346:A:C2	15:AN:13:GLU:O	2.63	0.47
29:B1:384:A:P	29:B1:384:A:H8	2.36	0.47
29:B1:3218:A:C3'	29:B1:3220:G:C8	2.97	0.47
30:B2:36:C:H42	30:B2:42:A:H61	1.63	0.47
29:B1:2588:U:O2	29:B1:2588:U:H2'	2.13	0.47
29:D1:224:C:H2'	29:D1:225:C:O5'	2.15	0.47
29:D1:3170:A:C2'	29:D1:3171:U:O5'	2.63	0.47
1:C1:887:A:H2'	1:C1:887:A:N3	2.29	0.47
4:AC:46:THR:O	4:AC:85:VAL:N	2.47	0.47
29:D1:3241:G:N1	29:D1:3246:G:N1	2.63	0.47
29:B1:340:C:O2'	29:B1:341:G:O4'	2.32	0.47
29:B1:843:A:C2'	29:B1:844:G:H5'	2.45	0.47
1:C1:1318:G:O2'	1:C1:1319:A:H5'	2.14	0.47
1:C1:1331:A:H2'	1:C1:1332:C:H5'	1.97	0.47
29:B1:1082:U:O3'	29:B1:1082:U:OP2	2.33	0.47
29:B1:1625:A:N6	29:B1:1626:U:C2	2.83	0.47
29:D1:3274:A:C1'	29:D1:3275:U:OP2	2.63	0.47
29:D1:1666:G:C2'	29:D1:1667:A:H5'	2.44	0.47
29:D1:1076:C:O2	29:D1:1076:C:C2'	2.62	0.47
1:C1:895:G:C6	1:C1:896:U:N3	2.83	0.47
1:A1:1660:A:C4	1:A1:1661:U:C6	3.02	0.47
29:B1:1038:C:C4'	29:B1:1038:C:OP1	2.62	0.47
29:B1:2584:G:O2'	29:B1:2585:G:H4'	2.15	0.47
39:DH:99:PRO:CA	39:DH:237:ILE:H	2.28	0.47
36:BE:43:LYS:CA	49:BT:70:SER:N	2.77	0.47
29:B1:1948:G:H1'	29:B1:2100:A:N6	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2104:A:C2'	29:B1:2105:G:H5''	2.45	0.47
11:CJ:88:GLY:O	11:CJ:91:ALA:HB2	2.15	0.47
29:D1:1713:G:C4	29:D1:1730:G:N2	2.83	0.47
29:B1:1923:C:O2'	29:B1:1924:U:H5'	2.14	0.47
1:C1:1660:A:C4	1:C1:1661:U:C6	3.02	0.47
29:B1:1746:U:H2'	29:B1:1747:G:O4'	2.14	0.47
29:B1:1032:C:H2'	29:B1:1033:U:C6	2.50	0.47
29:D1:1751:G:C5	29:D1:1752:A:N7	2.82	0.47
29:D1:2879:C:C4	29:D1:2880:U:C4	3.03	0.47
29:B1:903:U:O2	29:B1:903:U:H2'	2.14	0.47
1:C1:1398:U:O2'	1:C1:1399:C:O5'	2.31	0.47
29:B1:1724:U:C2'	29:B1:1725:C:O4'	2.63	0.47
29:B1:1724:U:O2'	29:B1:1725:C:P	2.72	0.47
29:D1:1358:C:H3'	29:D1:1359:C:H6	1.79	0.47
1:C1:930:A:H3'	1:C1:931:C:C5	2.50	0.47
34:BC:165:GLN:O	34:BC:166:ILE:C	2.52	0.47
1:A1:743:U:C2	1:A1:744:U:C6	3.01	0.47
1:A1:1028:C:H1'	1:A1:1029:U:H3'	1.97	0.47
14:AM:26:GLY:C	14:AM:28:LEU:H	2.16	0.47
29:B1:1831:U:H2'	29:B1:1831:U:O2	2.15	0.47
45:DP:94:ARG:O	45:DP:97:ALA:N	2.48	0.47
29:B1:1004:U:H6	29:B1:1004:U:O5'	1.98	0.47
1:A1:767:U:OP1	1:A1:767:U:H3'	2.14	0.47
1:C1:1188:G:H2'	1:C1:1189:A:C8	2.45	0.47
39:DH:94:PHE:O	39:DH:96:LYS:N	2.42	0.47
38:BG:161:VAL:O	38:BG:162:PRO:O	2.33	0.47
35:DD:153:SER:C	35:DD:155:ASP:N	2.68	0.47
33:BB:11:GLY:O	33:BB:12:ALA:C	2.52	0.47
29:B1:1400:G:C2	29:B1:1401:A:C8	3.03	0.47
50:BU:27:ASP:O	50:BU:29:SER:N	2.47	0.47
51:DV:18:GLY:CA	51:DV:32:GLN:HA	2.45	0.47
13:AL:32:LEU:O	13:AL:38:VAL:CB	2.63	0.47
38:DG:152:GLY:O	38:DG:153:PHE:CB	2.62	0.47
39:DH:100:GLU:O	39:DH:103:ALA:N	2.46	0.47
41:DJ:205:SER:N	41:DJ:206:LEU:HA	2.29	0.47
41:DJ:205:SER:CB	41:DJ:206:LEU:HA	2.44	0.47
1:C1:430:G:C5	1:C1:431:C:C5	3.02	0.47
29:B1:167:U:H2'	29:B1:168:U:C6	2.49	0.47
6:AE:179:ARG:C	6:AE:181:ALA:H	2.16	0.47
29:B1:2559:U:O2	29:B1:2559:U:H2'	2.14	0.47
44:BO:126:THR:O	44:BO:127:TYR:CB	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DO:46:ASP:C	44:DO:48:ALA:H	2.17	0.47
11:CJ:25:GLY:H	11:CJ:64:ASP:HA	1.80	0.47
45:BP:174:PHE:O	45:BP:175:THR:C	2.53	0.47
29:D1:3083:G:H2'	29:D1:3084:C:O4'	2.15	0.47
52:BW:74:LYS:O	52:BW:77:GLU:N	2.41	0.47
1:A1:1062:A:H2'	1:A1:1063:U:O4'	2.14	0.47
1:A1:1096:C:C2	1:A1:1098:U:OP2	2.68	0.47
1:A1:1103:U:C2'	1:A1:1104:U:H5'	2.44	0.47
1:A1:1644:C:C2'	1:A1:1645:G:O5'	2.63	0.47
1:A1:867:G:N3	1:A1:868:G:C8	2.82	0.47
1:A1:990:C:H4'	9:AH:128:LYS:O	2.15	0.47
1:A1:995:A:C5'	1:A1:996:U:OP2	2.60	0.47
29:B1:1407:A:H5'	29:B1:1408:G:OP2	2.15	0.47
29:B1:2133:U:C2'	29:B1:2134:G:H5'	2.44	0.47
29:B1:2197:C:H4'	29:B1:2198:A:H8	1.79	0.47
29:B1:2225:U:C2	29:B1:2226:U:C5	3.03	0.47
29:B1:2254:U:C2'	29:B1:2255:A:OP1	2.62	0.47
29:B1:2127:U:O4'	29:B1:2301:U:H5''	2.15	0.47
29:B1:2314:U:H5''	29:B1:2314:U:O2	2.14	0.47
29:B1:2373:A:N7	29:B1:2867:C:H1'	2.29	0.47
29:B1:2397:A:H8	29:B1:2941:A:H61	1.62	0.47
29:B1:2420:C:C4	29:B1:2421:U:C4	3.03	0.47
29:B1:2850:G:H5''	29:B1:2850:G:H8	1.79	0.47
29:B1:287:G:C6	29:B1:288:C:C4	3.02	0.47
29:B1:3087:A:C6	29:B1:3088:G:C6	3.03	0.47
29:B1:2992:U:H5'	29:B1:3310:A:O2'	2.15	0.47
29:B1:3328:G:H22	29:B1:3375:A:N6	2.13	0.47
29:B1:3376:A:H3'	29:B1:3377:G:C5'	2.45	0.47
29:B1:53:G:C6	29:B1:54:C:C4	3.03	0.47
29:B1:768:C:H2'	29:B1:769:G:C4	2.49	0.47
29:B1:781:G:O6	29:B1:782:U:C4	2.67	0.47
29:B1:79:U:C2	29:B1:80:G:C8	3.02	0.47
29:B1:947:G:C5	29:B1:948:C:C5	3.03	0.47
31:B3:109:A:C6	31:B3:110:C:O2	2.68	0.47
35:BD:168:ALA:C	35:BD:170:LYS:N	2.66	0.47
37:BF:149:ILE:CA	37:BF:150:LYS:CB	2.92	0.47
37:BF:167:ASN:O	37:BF:170:LYS:N	2.33	0.47
37:BF:30:LEU:CB	37:BF:31:ARG:CB	2.93	0.47
33:BB:80:GLU:N	38:BG:65:ALA:HB3	168.51	0.47
38:BG:73:GLY:CA	38:BG:74:SER:O	2.48	0.47
54:BY:13:GLY:O	54:BY:14:HIS:CB	2.59	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1042:G:C2'	1:A1:1043:A:O4'	2.61	0.47
1:A1:1673:G:N7	1:A1:1674:C:C5	2.83	0.47
1:A1:552:G:N1	1:A1:553:G:C2	2.83	0.47
1:A1:555:A:H1'	1:A1:556:A:OP1	2.15	0.47
1:A1:55:A:H3'	1:A1:56:U:H5''	1.96	0.47
1:A1:601:A:H3'	1:A1:602:U:H6	1.79	0.47
1:A1:617:U:H2'	1:A1:618:U:C5	2.50	0.47
1:A1:755:A:C6	1:A1:756:A:C6	3.02	0.47
1:A1:817:A:H2'	1:A1:818:C:C6	2.50	0.47
29:B1:10:C:C2'	29:B1:11:A:O5'	2.63	0.47
29:B1:1145:G:C5	29:B1:1146:C:C6	3.02	0.47
29:B1:1148:G:C5	29:B1:1149:G:N7	2.82	0.47
29:B1:1179:A:C8	29:B1:1179:A:H3'	2.50	0.47
29:B1:122:A:N3	29:B1:123:A:C8	2.83	0.47
29:B1:1368:U:C2	29:B1:1369:A:C8	3.03	0.47
29:B1:1557:A:C2'	29:B1:1558:A:O5'	2.63	0.47
29:B1:1661:G:N2	29:B1:1789:G:H1'	2.30	0.47
29:B1:1850:A:O2'	29:B1:1851:G:H5'	2.15	0.47
29:B1:1881:A:C6	29:B1:1882:G:N7	2.82	0.47
29:B1:2181:C:C2'	29:B1:2182:A:O5'	2.63	0.47
29:B1:2808:A:C2'	29:B1:2808:A:N3	2.77	0.47
29:B1:2814:G:C2	29:B1:2815:G:C5	3.03	0.47
29:B1:90:C:H1'	29:B1:281:G:H4'	1.96	0.47
29:B1:3004:C:O2'	29:B1:3005:A:H5'	2.15	0.47
29:B1:3062:G:C5	29:B1:3063:C:C5	3.03	0.47
29:B1:393:U:N3	29:B1:394:G:N7	2.62	0.47
29:B1:418:A:H2'	29:B1:419:G:C8	2.50	0.47
29:B1:532:A:C2	29:B1:560:G:C2	3.02	0.47
29:B1:744:A:C2	29:B1:745:C:C2	3.03	0.47
29:B1:771:A:C6	29:B1:772:U:C2	3.03	0.47
29:B1:808:A:N6	29:B1:934:G:C8	2.82	0.47
37:BF:151:LYS:O	37:BF:154:LEU:N	2.48	0.47
38:BG:69:ALA:C	38:BG:71:ALA:N	2.68	0.47
1:C1:1043:A:C6	1:C1:1044:U:O4	2.68	0.47
1:C1:1076:A:N7	1:C1:1077:C:C5	2.83	0.47
1:C1:1109:G:C6	1:C1:1137:A:N6	2.83	0.47
1:C1:143:G:O3'	1:C1:144:U:H4'	2.14	0.47
1:C1:169:A:C4	1:C1:171:A:C8	3.03	0.47
1:C1:1727:G:C2	1:C1:1728:A:C6	3.03	0.47
1:C1:1757:G:C4	1:C1:1758:U:C6	3.03	0.47
74:C1:1924:OHX:N6	74:C1:1964:OHX:N2	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:439:U:C5	1:C1:465:G:N2	2.83	0.47
1:C1:869:A:C4	1:C1:870:C:C6	3.02	0.47
1:C1:96:G:C6	1:C1:97:C:N4	2.83	0.47
29:D1:1150:A:C2'	29:D1:1151:U:O5'	2.63	0.47
29:D1:1295:G:C2'	29:D1:1296:C:H5'	2.44	0.47
29:D1:1202:A:C6	29:D1:1301:A:N3	2.82	0.47
29:D1:1379:G:C6	29:D1:1428:A:C2	3.03	0.47
29:D1:1440:G:C2'	29:D1:1441:G:H5'	2.44	0.47
29:D1:826:G:N2	29:D1:1589:A:N6	2.59	0.47
29:D1:1696:A:C2	29:D1:1697:A:C5	3.03	0.47
29:D1:1783:U:H2'	29:D1:1784:G:H8	1.80	0.47
29:D1:2198:A:C4	29:D1:2270:A:C8	3.02	0.47
29:D1:2285:C:H41	29:D1:2286:U:H3	1.61	0.47
29:D1:420:G:N3	29:D1:2384:A:N3	2.62	0.47
29:D1:2407:C:C2	29:D1:2815:G:C2	3.02	0.47
29:D1:2696:A:H8	29:D1:2696:A:H3'	1.80	0.47
29:D1:26:A:C3'	29:D1:27:C:H6	2.28	0.47
29:D1:2725:U:O4	29:D1:2727:A:C2	2.67	0.47
29:D1:2815:G:O5'	29:D1:2815:G:H8	1.97	0.47
29:D1:3032:A:OP1	29:D1:3032:A:H4'	2.12	0.47
29:D1:3077:A:N6	29:D1:3080:G:C5	2.83	0.47
29:D1:3080:G:C6	29:D1:3081:C:N4	2.82	0.47
29:D1:3113:A:C2	29:D1:3122:A:C8	3.03	0.47
29:D1:3323:A:N6	29:D1:3324:C:N4	2.63	0.47
29:D1:3327:G:C6	29:D1:3328:G:C5	3.02	0.47
29:D1:3333:G:N3	29:D1:3371:G:N9	2.62	0.47
29:D1:423:A:C6	29:D1:424:G:N1	2.82	0.47
29:D1:432:G:C4	29:D1:433:A:C8	3.03	0.47
29:D1:563:U:C2	29:D1:564:G:C1'	2.98	0.47
29:D1:606:C:C5	29:D1:607:A:C5	3.02	0.47
29:D1:743:C:H5	29:D1:744:A:C8	2.31	0.47
29:D1:759:U:H2'	29:D1:760:G:C5'	2.43	0.47
29:D1:777:U:O2'	29:D1:778:U:O5'	2.30	0.47
29:D1:956:U:C2'	29:D1:957:C:O5'	2.62	0.47
31:D3:107:G:C5	31:D3:116:G:O6	2.68	0.47
31:D3:56:G:C2	31:D3:57:C:C6	3.03	0.47
31:D3:65:A:C4	31:D3:66:A:C8	3.03	0.47
31:D3:75:G:OP2	31:D3:76:C:OP1	2.33	0.47
35:DD:54:GLU:C	35:DD:56:ALA:H	2.18	0.47
38:DG:62:ILE:O	38:DG:65:ALA:HB3	2.14	0.47
38:DG:75:TYR:CB	38:DG:76:TYR:CB	2.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DP:63:ALA:O	45:DP:64:PHE:CB	2.62	0.47
1:C1:1024:U:O2'	1:C1:1025:A:H5'	2.15	0.47
1:C1:1139:A:H2'	1:C1:1140:G:C5'	2.44	0.47
1:C1:1138:A:C2'	1:C1:1139:A:O5'	2.63	0.47
1:C1:1142:A:H2'	1:C1:1143:A:O4'	2.15	0.47
1:C1:202:A:C5	1:C1:203:U:O4	2.68	0.47
1:C1:209:U:N3	1:C1:210:A:N7	2.62	0.47
1:C1:290:G:O2'	1:C1:291:G:C8	2.56	0.47
1:C1:103:A:N7	1:C1:360:A:C6	2.82	0.47
1:C1:451:A:H61	1:C1:456:A:N6	2.11	0.47
1:C1:469:C:C2	1:C1:469:C:P	3.08	0.47
1:C1:477:A:H2'	1:C1:478:A:H8	1.79	0.47
1:C1:551:G:N1	1:C1:552:G:C5	2.82	0.47
1:C1:585:A:H2'	1:C1:586:G:C8	2.50	0.47
1:C1:474:A:N1	1:C1:594:A:H5'	2.30	0.47
1:C1:812:A:C6	1:C1:859:A:C5	3.02	0.47
1:C1:868:G:N3	1:C1:868:G:H2'	2.29	0.47
29:D1:1056:U:C6	29:D1:1056:U:H3'	2.49	0.47
29:D1:1107:C:H2'	29:D1:1108:U:C6	2.48	0.47
29:D1:1337:A:N3	29:D1:1338:C:C6	2.83	0.47
29:D1:1377:G:N3	29:D1:1378:U:C6	2.82	0.47
29:D1:1528:G:C6	29:D1:1833:G:O6	2.68	0.47
29:D1:1562:C:H2'	29:D1:1563:C:H6	1.80	0.47
29:D1:1583:A:C2'	29:D1:1584:U:O5'	2.63	0.47
29:D1:1604:G:C8	29:D1:1605:A:H5''	2.42	0.47
29:D1:1791:C:N3	29:D1:1792:C:N4	2.62	0.47
29:D1:1900:A:N3	29:D1:1906:G:N7	2.63	0.47
29:D1:2308:C:C4	29:D1:2309:A:C6	3.03	0.47
29:D1:2362:C:C4	29:D1:2376:G:O6	2.60	0.47
29:D1:264:G:C2	29:D1:265:A:C5	3.02	0.47
29:D1:2667:A:C2'	29:D1:2667:A:N3	2.77	0.47
29:D1:2707:C:O2'	29:D1:2708:C:C5'	2.63	0.47
29:D1:49:A:C2	29:D1:279:U:H4'	2.49	0.47
29:D1:2762:A:H1'	29:D1:2800:G:C6	2.49	0.47
29:D1:2992:U:O2'	29:D1:3309:G:O2'	2.25	0.47
29:D1:3110:C:C4	29:D1:3111:U:C5	3.03	0.47
29:D1:3153:U:OP2	29:D1:3293:U:O2'	2.33	0.47
29:D1:43:A:OP1	29:D1:43:A:C4'	2.63	0.47
29:D1:44:U:C6	29:D1:45:A:C8	3.02	0.47
29:D1:505:G:N7	29:D1:506:U:C5	2.83	0.47
29:D1:520:U:C1'	29:D1:521:A:OP2	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:545:U:O2'	29:D1:546:C:C6	2.61	0.47
29:D1:563:U:H2'	29:D1:564:G:C4'	2.40	0.47
29:D1:651:G:N1	29:D1:652:G:C6	2.83	0.47
29:D1:824:C:H2'	29:D1:825:U:H6	1.75	0.47
29:D1:958:C:C2	29:D1:964:G:N2	2.82	0.47
31:D3:11:C:C2	31:D3:12:A:C8	3.03	0.47
31:D3:40:A:O2'	31:D3:41:A:O4'	2.25	0.47
31:D3:77:A:H4'	31:D3:78:G:OP1	2.14	0.47
31:D3:78:G:C5	31:D3:79:A:N7	2.83	0.47
31:D3:64:U:N3	31:D3:97:A:C2	2.83	0.47
1:A1:217:A:H8	1:A1:739:G:OP1	1.98	0.47
1:A1:225:A:C2	1:A1:226:A:C4	3.02	0.47
1:A1:836:U:N3	1:A1:837:G:C5	2.83	0.47
1:C1:841:U:O4	1:C1:842:C:C4	2.67	0.47
1:C1:224:C:O2'	1:C1:225:A:H8	1.97	0.47
29:B1:2665:U:N3	29:B1:2706:G:C6	2.78	0.47
30:B2:12:U:N1	30:B2:70:U:OP1	2.47	0.47
31:B3:58:G:H2'	31:B3:99:C:HO2'	1.79	0.47
31:B3:80:A:OP2	31:B3:80:A:C8	2.68	0.47
29:B1:1047:A:N1	29:B1:1048:A:C2	2.82	0.47
29:B1:2639:G:C2	29:B1:2640:A:C8	3.02	0.47
29:B1:2640:A:N9	29:B1:2641:U:H5	2.13	0.47
31:B3:69:U:H3'	31:B3:70:G:C4'	2.44	0.47
1:A1:60:U:C5	1:A1:453:U:H2'	2.49	0.47
1:A1:138:A:C6	1:A1:142:G:H1'	2.50	0.47
1:A1:168:A:C2'	1:A1:169:A:C8	2.98	0.47
1:A1:206:A:C2	1:A1:262:U:C4	3.02	0.47
30:D2:106:U:C2	30:D2:107:C:C6	3.03	0.47
30:D2:66:A:C5	30:D2:67:G:C8	3.02	0.47
1:C1:1717:G:C6	1:C1:1718:G:C2	3.02	0.47
1:C1:1683:C:H3'	1:C1:1683:C:P	2.55	0.47
29:D1:2675:C:N4	29:D1:2676:A:N6	2.56	0.47
29:D1:2681:U:H2'	29:D1:2681:U:H6	1.07	0.47
29:B1:2684:C:O2'	29:B1:2685:C:O5'	2.32	0.47
29:B1:2683:U:H2'	29:B1:2683:U:O2	2.14	0.47
1:C1:1613:U:O2	1:C1:1614:A:H5''	2.15	0.47
1:C1:1349:G:C4'	1:C1:1350:U:C5'	2.92	0.47
1:C1:1431:C:H3'	1:C1:1432:U:H5'	1.96	0.47
1:C1:1456:C:H5''	1:C1:1457:C:H5'	1.94	0.47
1:C1:1605:G:H2'	1:C1:1606:C:C5'	2.45	0.47
1:A1:1262:U:H2'	1:A1:1263:G:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1466:G:C5	1:A1:1467:C:C4	3.03	0.47
1:A1:1596:C:O4'	1:A1:1596:C:O2	2.27	0.47
1:A1:1239:U:C5	1:A1:1241:G:C5	3.02	0.47
1:A1:1349:G:C4'	1:A1:1350:U:C5'	2.92	0.47
1:A1:1452:U:C2	1:A1:1453:G:C8	3.03	0.47
1:A1:1489:U:C5	1:A1:1513:G:N1	2.79	0.47
1:A1:1538:U:H6	1:A1:1538:U:H3'	1.80	0.47
1:A1:1558:U:H2'	1:A1:1559:A:H2	1.75	0.47
1:A1:1599:C:O2'	1:A1:1600:A:C2	2.64	0.47
1:A1:1450:U:OP2	74:A1:1970:OHX:N6	2.47	0.47
4:CC:80:ALA:CB	4:CC:84:ILE:H	2.27	0.47
30:B2:88:G:C4	30:B2:89:G:C8	3.02	0.47
29:B1:3213:A:C3'	29:B1:3213:A:C8	2.94	0.47
37:BF:43:LEU:H	37:BF:84:VAL:HA	1.79	0.47
30:B2:38:U:H2'	30:B2:40:C:C5'	2.44	0.47
30:B2:47:C:O2	30:B2:48:U:N3	2.47	0.47
42:BK:7:ASN:CA	42:BK:8:PRO:CB	2.89	0.47
29:D1:393:U:O2	29:D1:393:U:C2'	2.62	0.47
29:D1:1395:G:C5	29:D1:1396:C:C5	3.03	0.47
29:D1:198:A:C2	29:D1:219:A:N7	2.83	0.47
29:D1:211:A:O4'	29:D1:229:G:H1'	2.15	0.47
29:D1:3262:U:O2'	29:D1:3263:G:O4'	2.23	0.47
29:D1:3381:U:C2'	29:D1:3383:G:C4	2.94	0.47
29:B1:1526:U:O4'	29:B1:1594:A:N1	2.48	0.47
31:B3:123:G:C5'	74:B3:206:OHX:N1	2.71	0.47
29:D1:2520:A:C6	29:D1:2521:U:O4	2.67	0.47
1:A1:643:G:N2	1:A1:692:C:N3	2.62	0.47
29:D1:1232:C:C5	29:D1:1261:G:C4	3.02	0.47
29:D1:1278:A:C2'	29:D1:1279:C:H5'	2.45	0.47
29:D1:983:A:C2	29:D1:985:U:O4	2.67	0.47
20:AS:46:LYS:O	20:AS:50:ILE:HA	2.14	0.47
29:B1:339:C:C2	29:B1:340:C:C5	3.03	0.47
29:D1:1622:U:H2'	29:D1:1623:G:H8	1.80	0.47
1:C1:1323:C:O2	1:C1:1323:C:H2'	2.15	0.47
29:D1:2592:G:C6	74:D1:3463:OHX:N4	2.82	0.47
29:B1:1100:U:C2	29:B1:1101:G:C8	3.02	0.47
29:B1:1645:U:H2'	29:B1:1646:G:O5'	2.14	0.47
1:A1:127:G:O6	1:A1:179:A:C5	2.59	0.47
29:B1:2352:A:O2'	29:B1:2353:G:H5'	2.14	0.47
39:BH:184:ALA:HA	39:BH:194:THR:O	2.14	0.47
1:A1:1403:C:C2'	1:A1:1404:C:H5'	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1402:G:C5	1:A1:1403:C:C4	3.02	0.47
29:D1:1080:A:O2'	29:D1:1081:U:O5'	2.32	0.47
29:D1:1687:U:P	29:D1:1687:U:C6	3.02	0.47
36:DE:107:ARG:O	36:DE:110:LEU:O	2.33	0.47
29:D1:1035:G:H2'	29:D1:1036:A:H5'	1.97	0.47
1:C1:1285:U:C2	1:C1:1286:U:H5	2.32	0.47
29:B1:2541:U:O2	29:B1:2542:U:H4'	2.15	0.47
29:B1:3351:U:H1'	29:B1:3352:U:OP1	2.15	0.47
29:B1:275:U:C2'	29:B1:276:U:H5'	2.45	0.47
1:A1:716:C:H2'	1:A1:717:C:O4'	2.14	0.47
1:C1:1733:C:N4	1:C1:1734:U:O4	2.47	0.47
29:B1:1703:U:H3'	29:B1:1703:U:O2	2.15	0.47
5:AD:199:ILE:C	5:AD:201:ALA:N	2.67	0.47
29:D1:856:G:N1	29:D1:857:G:N2	2.63	0.47
6:AE:66:ASP:O	6:AE:68:LYS:N	2.47	0.47
42:BK:32:ARG:O	42:BK:33:ALA:C	2.53	0.47
1:A1:760:A:C4	1:A1:791:A:C2	3.03	0.47
29:B1:1421:G:C2	29:B1:1422:G:N7	2.83	0.47
35:BD:241:GLY:O	35:BD:242:ALA:C	2.52	0.47
29:B1:2206:G:H2'	29:B1:2206:G:N3	2.28	0.47
37:DF:115:GLU:O	37:DF:117:LYS:N	2.47	0.47
1:C1:1296:A:H2'	1:C1:1297:G:C5'	2.42	0.47
29:D1:1695:U:O2	29:D1:1749:A:N1	2.48	0.47
29:B1:1884:A:C4	29:B1:1885:U:C2	3.03	0.47
44:BO:78:GLY:H	44:BO:79:ALA:CB	2.27	0.47
17:AP:87:VAL:O	17:AP:88:PRO:C	2.53	0.47
47:BR:45:ASN:O	47:BR:47:VAL:N	2.46	0.47
1:A1:242:U:O2	1:A1:242:U:H3'	2.14	0.47
3:AB:148:LEU:O	3:AB:195:ASP:CB	2.63	0.47
14:AM:130:ARG:O	14:AM:131:ASP:C	2.53	0.47
29:D1:2964:G:C5	29:D1:2966:G:OP2	2.68	0.47
29:B1:665:A:H2'	29:B1:666:A:O4'	2.15	0.47
40:BI:86:TYR:CB	40:BI:148:GLY:N	2.78	0.47
10:AI:36:LEU:HA	10:AI:37:ALA:O	2.15	0.47
36:DE:257:GLU:CA	36:DE:258:LYS:CB	2.93	0.47
3:AB:131:ILE:C	3:AB:133:LYS:H	2.18	0.47
29:D1:2180:G:C6	29:D1:2181:C:N4	2.83	0.47
29:B1:169:U:H6	29:B1:169:U:O5'	1.97	0.47
29:D1:787:G:H2'	29:D1:788:C:H6	1.79	0.47
29:D1:665:A:H2'	29:D1:666:A:O4'	2.15	0.47
38:DG:237:ASN:O	38:DG:238:LYS:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1002:A:N6	29:D1:1051:U:C5	2.83	0.47
29:D1:1046:A:H2'	29:D1:1049:C:C5	2.49	0.47
47:DR:149:ALA:HB3	47:DR:150:VAL:HA	1.97	0.47
41:DJ:69:ARG:O	41:DJ:70:ILE:C	2.51	0.47
21:CT:118:LYS:O	21:CT:119:ALA:HB2	2.14	0.47
54:DY:90:TYR:C	54:DY:92:LYS:HA	2.35	0.47
29:B1:2693:C:H5''	29:B1:2694:A:H5'	1.95	0.47
29:D1:2732:G:C6	29:D1:2733:A:C6	3.03	0.47
33:BB:102:LEU:C	33:BB:104:LEU:N	2.68	0.47
29:B1:238:A:O2'	29:B1:239:G:O5'	2.31	0.47
33:DB:18:SER:C	33:DB:20:THR:H	2.18	0.47
33:DB:113:VAL:O	33:DB:114:SER:C	2.53	0.47
33:DB:109:GLU:O	33:DB:110:GLY:O	2.32	0.47
29:D1:2788:C:H2'	29:D1:2789:U:H6	1.80	0.47
52:BW:132:ALA:O	52:BW:133:LEU:C	2.53	0.47
15:CN:23:ARG:O	15:CN:24:ILE:C	2.53	0.47
45:BP:23:VAL:O	45:BP:25:LYS:N	2.47	0.47
51:DV:3:VAL:O	51:DV:4:GLU:CB	2.63	0.47
9:AH:30:VAL:N	9:AH:40:ALA:HB3	2.30	0.47
40:BI:171:ASP:O	40:BI:172:ILE:O	2.33	0.47
29:D1:237:G:O2'	29:D1:238:A:H5'	2.14	0.47
41:BJ:61:SER:HA	41:BJ:126:ALA:HB2	1.96	0.47
35:DD:237:GLN:O	35:DD:239:ALA:N	2.47	0.47
1:A1:1295:G:C1'	1:A1:1321:A:C2	2.98	0.47
74:B1:3524:OHX:N1	74:B1:3616:OHX:N3	2.63	0.47
35:DD:215:ILE:O	35:DD:217:LYS:N	2.48	0.47
54:BY:35:ALA:O	54:BY:36:GLY:C	2.52	0.47
29:B1:1207:G:H8	29:B1:1207:G:C5'	2.27	0.47
11:CJ:106:LYS:O	11:CJ:108:ALA:N	2.47	0.47
17:CP:80:GLY:O	17:CP:81:LYS:C	2.52	0.47
17:AP:76:LEU:O	17:AP:80:GLY:N	2.45	0.47
2:AA:58:VAL:O	2:AA:61:ALA:HB3	2.14	0.47
2:AA:61:ALA:O	2:AA:65:ALA:N	2.47	0.47
21:CT:42:LEU:O	21:CT:60:SER:CA	2.62	0.47
44:DO:109:ARG:O	44:DO:110:ALA:HB2	2.15	0.47
44:BO:136:ASP:O	44:BO:137:PRO:C	2.52	0.47
53:BX:91:ASN:O	53:BX:92:GLY:C	2.53	0.47
16:AO:88:LYS:C	16:AO:90:THR:N	2.67	0.47
29:B1:1734:G:C6	29:B1:1735:G:C5	3.03	0.47
55:BZ:10:ILE:C	55:BZ:12:GLN:N	2.68	0.47
48:BS:143:ILE:O	48:BS:144:GLN:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2400:G:O2'	29:B1:2401:A:H5''	2.15	0.47
53:BX:118:LEU:O	53:BX:120:GLN:N	2.48	0.47
55:DZ:17:VAL:O	55:DZ:20:SER:O	2.33	0.47
29:B1:1251:A:N3	29:B1:1251:A:H2'	2.30	0.47
39:DH:133:LYS:CB	39:DH:199:ALA:H	2.27	0.47
42:BK:147:THR:O	42:BK:148:VAL:O	2.33	0.47
39:DH:157:VAL:CB	39:DH:160:ILE:HA	2.45	0.47
46:BQ:77:GLY:O	46:BQ:79:THR:N	2.47	0.47
39:BH:239:GLY:C	39:BH:241:LYS:N	2.68	0.47
1:A1:762:A:N3	1:A1:762:A:H2'	2.29	0.47
15:AN:116:VAL:O	15:AN:117:VAL:CB	2.62	0.47
29:B1:2527:G:H5''	29:B1:2528:G:OP2	2.15	0.47
1:A1:1702:A:N6	1:A1:1703:C:H41	2.13	0.47
1:A1:1632:C:O2'	1:A1:1633:A:P	2.73	0.47
1:A1:1780:G:H1'	29:B1:2262:A:O3'	2.15	0.47
1:A1:1797:A:C2	1:A1:1799:U:O4	2.68	0.47
1:A1:427:C:H5''	1:A1:427:C:C6	2.41	0.47
1:A1:571:G:N3	1:A1:571:G:C2'	2.78	0.47
1:A1:618:U:H5''	1:A1:1030:A:N1	2.30	0.47
1:A1:98:U:O2	1:A1:98:U:C2'	2.63	0.47
8:AG:36:GLN:C	8:AG:39:LYS:H	2.18	0.47
29:B1:1224:C:O2'	29:B1:1225:A:C5'	2.63	0.47
29:B1:1213:G:C2	29:B1:1293:U:C2	3.03	0.47
29:B1:1445:U:H3'	29:B1:1446:A:H8	1.80	0.47
29:B1:151:A:H2'	29:B1:152:U:H5	1.79	0.47
29:B1:151:A:H2'	29:B1:152:U:C5	2.50	0.47
29:B1:157:A:O2'	29:B1:158:G:C5	2.66	0.47
29:B1:1880:U:H2'	29:B1:1881:A:O5'	2.15	0.47
29:B1:2403:G:H4'	29:B1:2404:A:OP1	2.13	0.47
29:B1:2655:U:C1'	29:B1:2656:A:C2	2.98	0.47
29:B1:2825:C:H42	29:B1:2864:A:N6	2.12	0.47
29:B1:2960:C:C3'	29:B1:2961:G:H8	2.28	0.47
29:B1:3069:G:C4	29:B1:3070:A:C8	3.03	0.47
29:B1:3377:G:O4'	29:B1:3378:C:H5'	2.15	0.47
29:B1:3379:C:H2'	29:B1:3380:U:O4'	2.13	0.47
29:B1:3388:C:H6	29:B1:3388:C:O5'	1.96	0.47
29:B1:354:U:OP2	29:B1:364:G:C6	2.68	0.47
29:B1:39:A:C8	29:B1:41:G:P	3.07	0.47
29:B1:504:A:C2'	29:B1:505:G:H5'	2.44	0.47
29:B1:577:C:C3'	29:B1:577:C:C6	2.97	0.47
29:B1:606:C:C5	29:B1:607:A:C5	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:608:A:H2'	29:B1:609:G:C5'	2.44	0.47
29:B1:80:G:C2	29:B1:81:C:C4	3.03	0.47
29:B1:943:U:H1'	29:B1:1432:C:H6	1.80	0.47
31:B3:104:A:H8	31:B3:105:A:C8	2.32	0.47
31:B3:140:G:N1	31:B3:141:C:C2	2.83	0.47
31:B3:140:G:O6	31:B3:141:C:N4	2.48	0.47
31:B3:3:A:C3'	31:B3:3:A:C8	2.97	0.47
35:BD:6:VAL:CB	35:BD:19:ALA:HA	2.45	0.47
1:C1:169:A:C6	1:C1:171:A:C6	3.03	0.47
1:C1:201:G:N1	1:C1:202:A:C2	2.83	0.47
1:C1:561:G:C6	1:C1:585:A:N1	2.82	0.47
1:C1:85:A:C4	1:C1:86:A:C8	3.03	0.47
1:C1:982:U:H2'	1:C1:983:A:C8	2.49	0.47
29:D1:1158:A:H2'	29:D1:1158:A:N3	2.27	0.47
29:D1:1286:A:C8	29:D1:1286:A:O5'	2.67	0.47
29:D1:1465:A:N6	29:D1:1466:G:C2	2.83	0.47
29:D1:1503:A:H5''	29:D1:1503:A:H8	1.77	0.47
29:D1:1658:G:C5	29:D1:1659:U:C4	3.02	0.47
29:D1:1890:U:N3	29:D1:1891:A:N7	2.63	0.47
29:D1:1909:A:C6	29:D1:1910:A:C2	3.03	0.47
29:D1:2144:A:N1	29:D1:2281:A:C5	2.83	0.47
29:D1:2296:A:N3	29:D1:2919:A:H1'	2.30	0.47
29:D1:1895:A:N6	29:D1:2341:A:N6	2.62	0.47
29:D1:2414:G:O2'	29:D1:2415:C:P	2.73	0.47
29:D1:2610:G:H2'	29:D1:2611:U:C6	2.50	0.47
29:D1:2661:G:H2'	29:D1:2662:G:H8	1.80	0.47
29:D1:2704:A:C2	29:D1:2706:G:C8	3.03	0.47
29:D1:268:A:O4'	29:D1:270:U:H1'	2.14	0.47
29:D1:2895:G:H2'	29:D1:2896:A:H5''	1.95	0.47
29:D1:2393:G:C5	29:D1:2982:A:C2	3.01	0.47
29:D1:3011:A:H1'	29:D1:3012:A:C1'	2.44	0.47
29:D1:307:A:C8	29:D1:307:A:C3'	2.97	0.47
29:D1:3096:C:C2	29:D1:3097:C:C5	3.03	0.47
29:D1:3315:G:H4'	29:D1:3319:U:H4'	1.96	0.47
29:D1:407:A:C5	31:D3:17:A:C4	3.03	0.47
29:D1:415:G:H2'	29:D1:416:A:C8	2.43	0.47
29:D1:48:A:O4'	29:D1:50:U:C6	2.68	0.47
29:D1:597:G:N3	29:D1:598:A:C8	2.83	0.47
29:D1:501:A:C2	29:D1:613:G:N1	2.82	0.47
29:D1:37:U:OP1	29:D1:934:G:N2	2.48	0.47
29:D1:943:U:O4'	29:D1:1432:C:C6	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:65:A:N6	31:D3:66:A:N6	2.62	0.47
31:D3:70:G:C5'	31:D3:71:A:C8	2.91	0.47
31:D3:82:U:O3'	31:D3:83:C:O4'	2.32	0.47
44:DO:34:ASN:O	44:DO:35:VAL:C	2.53	0.47
46:DQ:122:ALA:CB	46:DQ:143:PRO:C	2.84	0.47
1:A1:850:A:C6	1:A1:851:U:C4	3.03	0.47
1:C1:838:G:C2	1:C1:839:U:N1	2.83	0.47
30:B2:113:C:C2	30:B2:114:U:C5	3.03	0.47
31:B3:58:G:OP1	31:B3:98:U:N3	2.48	0.47
1:A1:129:U:O2'	1:A1:130:C:OP1	2.29	0.47
1:A1:147:A:H2'	1:A1:148:A:H1'	1.97	0.47
1:A1:89:G:C4	1:A1:90:C:C5	3.02	0.47
30:D2:106:U:HO2'	30:D2:107:C:H5	1.61	0.47
30:D2:112:G:OP2	74:D2:207:OHX:N6	2.48	0.47
30:D2:67:G:C6	30:D2:68:C:C2	3.03	0.47
29:D1:2675:C:OP2	29:D1:2676:A:H5''	2.15	0.47
29:D1:2678:A:C8	29:D1:2679:A:N3	2.73	0.47
1:A1:1720:G:C2'	1:A1:1721:A:C5'	2.92	0.47
1:A1:337:G:C5'	1:A1:338:C:C5	2.98	0.47
1:C1:1165:G:C5	1:C1:1166:A:N7	2.83	0.47
1:C1:1173:C:O2'	1:C1:1174:C:H5'	2.15	0.47
1:C1:1181:U:C2'	1:C1:1182:U:O5'	2.63	0.47
1:C1:1269:U:H4'	1:C1:1270:G:C5'	2.43	0.47
1:C1:1270:G:H1'	1:C1:1447:C:O2	2.14	0.47
1:C1:1176:G:C4	1:C1:1464:G:C2	3.03	0.47
1:C1:1486:G:C6	1:C1:1487:A:C5	3.03	0.47
1:C1:1492:A:H1'	1:C1:1493:A:O5'	2.14	0.47
1:C1:1539:G:O2'	1:C1:1540:G:C5'	2.63	0.47
1:A1:1235:C:C2	1:A1:1236:A:C8	3.02	0.47
1:A1:1355:C:H2'	1:A1:1356:U:H6	1.79	0.47
1:A1:1377:U:O2	1:A1:1378:U:O4'	2.33	0.47
1:A1:1378:U:P	1:A1:1379:C:OP2	2.73	0.47
1:A1:1585:U:O2'	1:A1:1586:A:H5'	2.14	0.47
29:D1:195:U:O2	29:D1:196:G:C1'	2.63	0.47
36:BE:101:THR:O	36:BE:105:ILE:CB	2.63	0.47
29:B1:3384:U:O4	29:B1:3385:U:O4	2.33	0.47
29:D1:1232:C:N3	29:D1:1261:G:N1	2.63	0.47
29:D1:3347:A:C5	29:D1:3348:G:N7	2.83	0.47
29:B1:846:A:C5	29:B1:847:A:C8	3.02	0.47
29:D1:1622:U:H2'	29:D1:1623:G:C8	2.49	0.47
29:D1:1626:U:H3'	29:D1:1627:U:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DG:33:ARG:O	38:DG:36:ALA:HB3	2.15	0.47
1:C1:1311:U:H2'	1:C1:1313:A:OP2	2.14	0.47
1:C1:1324:G:H2'	1:C1:1324:G:N3	2.30	0.47
1:C1:1408:G:C1'	1:C1:1409:G:C2	2.98	0.47
29:B1:3226:A:C2'	29:B1:3227:A:H5'	2.45	0.47
29:B1:1077:U:H3	29:B1:1083:G:N2	2.12	0.47
1:A1:1749:A:H2'	1:A1:1750:A:O5'	2.14	0.47
29:D1:2211:U:H2'	29:D1:2212:C:C6	2.49	0.47
29:B1:1626:U:H3'	29:B1:1627:U:O4'	2.14	0.47
1:A1:180:A:C4	1:A1:181:A:N3	2.83	0.47
1:A1:1334:U:H2'	1:A1:1334:U:O2	2.14	0.47
36:DE:141:PRO:HA	36:DE:143:LYS:N	2.29	0.47
1:A1:1124:A:C6	1:A1:1125:A:C6	3.03	0.47
29:B1:1717:U:H5''	29:B1:1717:U:H6	1.79	0.47
9:CH:27:PHE:HA	9:CH:43:THR:CB	2.45	0.47
29:B1:131:C:C4	29:B1:132:C:C6	3.03	0.47
39:DH:99:PRO:CB	39:DH:237:ILE:N	2.65	0.47
29:B1:1945:A:C6	29:B1:2104:A:C6	3.02	0.47
1:A1:350:U:O4'	1:A1:352:A:C4	2.67	0.47
9:AH:64:ALA:HA	9:AH:68:ALA:HB3	1.97	0.47
29:B1:3348:G:H2'	29:B1:3349:C:O4'	2.14	0.47
1:A1:1323:C:H2'	1:A1:1324:G:H1'	1.96	0.47
5:AD:204:GLY:C	5:AD:206:SER:N	2.66	0.47
29:B1:1349:G:C8	29:B1:1349:G:OP2	2.54	0.47
1:C1:1221:A:C4	1:C1:1222:C:C5	3.03	0.47
29:D1:1634:G:C5	29:D1:1635:G:N7	2.83	0.47
1:C1:727:U:C2	1:C1:728:U:C5	3.01	0.47
29:B1:1752:A:OP2	74:B1:3568:OHX:N6	2.48	0.47
17:AP:48:HIS:O	17:AP:49:ALA:HB2	2.15	0.47
1:C1:722:G:H4'	1:C1:723:G:OP1	2.15	0.47
29:B1:2900:A:O2'	29:B1:2901:G:C5'	2.63	0.47
21:CT:21:THR:CB	21:CT:36:ALA:O	2.63	0.47
29:B1:170:G:C4	29:B1:171:G:C8	3.03	0.47
1:A1:743:U:C5	1:A1:809:A:N3	2.82	0.47
1:C1:1786:G:H2'	1:C1:1787:C:H6	1.73	0.47
14:CM:129:GLN:O	14:CM:133:ASP:CB	2.62	0.47
29:B1:2097:U:H2'	29:B1:2098:C:C6	2.50	0.47
29:D1:2117:A:H2'	29:D1:2117:A:N3	2.29	0.47
3:CB:215:PHE:C	3:CB:217:ALA:H	2.17	0.47
33:BB:28:LYS:H	33:BB:122:ASP:CB	2.28	0.47
29:D1:2444:C:H3'	29:D1:2445:A:H5''	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BK:101:ASN:C	42:BK:103:GLY:N	2.68	0.47
38:BG:159:GLN:O	38:BG:162:PRO:CB	2.62	0.47
20:AS:25:SER:O	20:AS:26:SER:C	2.53	0.47
11:CJ:42:GLU:HA	11:CJ:45:ARG:CB	2.45	0.47
47:DR:145:ASN:HA	47:DR:146:SER:CB	2.45	0.47
47:DR:145:ASN:CA	47:DR:146:SER:CB	2.92	0.47
17:AP:92:CYS:C	17:AP:94:ASN:N	2.68	0.47
17:CP:80:GLY:O	17:CP:81:LYS:O	2.32	0.47
34:BC:337:THR:O	34:BC:338:LEU:C	2.54	0.47
44:DO:100:ALA:O	44:DO:101:THR:C	2.53	0.47
40:DI:19:SER:N	40:DI:26:LYS:O	2.35	0.47
45:BP:130:LYS:CA	45:BP:131:PRO:CB	2.92	0.47
46:BQ:25:SER:O	46:BQ:26:PHE:C	2.53	0.47
53:BX:56:VAL:HA	53:BX:107:THR:H	1.79	0.47
1:A1:1062:A:C2	1:A1:1063:U:H1'	2.50	0.47
1:A1:55:A:C2	1:A1:403:G:C5	3.03	0.47
1:A1:813:U:O2'	1:A1:814:A:P	2.73	0.47
1:A1:975:C:N4	1:A1:976:G:C6	2.83	0.47
29:B1:1148:G:C6	29:B1:1149:G:N7	2.83	0.47
29:B1:1329:U:HO2'	29:B1:1330:A:P	2.38	0.47
29:B1:1406:A:H2	29:B1:1407:A:C2	2.33	0.47
29:B1:1416:C:O2	29:B1:1417:G:C4	2.68	0.47
29:B1:1428:A:C6	29:B1:1430:U:C4	3.02	0.47
29:B1:1555:U:H5''	29:B1:1580:A:C2	2.50	0.47
29:B1:1564:U:H2'	29:B1:1565:G:O4'	2.14	0.47
29:B1:14:U:C4'	29:B1:15:C:OP2	2.44	0.47
29:B1:1687:U:H2'	29:B1:1688:U:O2'	2.14	0.47
29:B1:1693:C:O2	29:B1:1773:C:C5	2.68	0.47
29:B1:195:U:O2	29:B1:196:G:H1'	2.14	0.47
29:B1:2149:A:C2'	29:B1:2150:G:O5'	2.63	0.47
29:B1:223:U:OP1	29:B1:225:C:N4	2.47	0.47
29:B1:2249:G:C1'	29:B1:2272:G:C8	2.97	0.47
29:B1:2316:G:N1	29:B1:2317:A:C5	2.83	0.47
29:B1:2923:U:H2'	29:B1:2924:U:C6	2.49	0.47
29:B1:2966:G:C6	29:B1:2967:A:C6	3.03	0.47
29:B1:2986:U:C2	29:B1:2987:A:C8	3.03	0.47
29:B1:3000:A:C2	29:B1:3001:C:C5	3.03	0.47
29:B1:3086:A:C2'	29:B1:3087:A:H8	2.27	0.47
29:B1:3327:G:N1	29:B1:3379:C:C4	2.82	0.47
29:B1:420:G:C4	29:B1:2384:A:C2	3.02	0.47
29:B1:500:C:C2'	29:B1:501:A:H5'	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:536:U:H4'	29:B1:537:A:H5''	1.97	0.47
29:B1:550:A:C6	29:B1:551:A:C6	3.03	0.47
29:B1:743:C:C5	29:B1:744:A:C8	3.03	0.47
29:B1:776:U:O5'	29:B1:777:U:H5''	2.15	0.47
29:B1:939:U:H5'	29:B1:939:U:H6	1.80	0.47
31:B3:138:A:C2	31:B3:139:U:N1	2.81	0.47
31:B3:17:A:H2'	31:B3:18:U:C6	2.41	0.47
31:B3:41:A:C5'	31:B3:42:G:OP2	2.63	0.47
43:BN:73:PRO:C	43:BN:75:GLY:N	2.67	0.47
1:C1:1131:A:C2	1:C1:1132:A:C4	3.03	0.47
1:C1:125:U:C4'	1:C1:126:A:OP1	2.63	0.47
1:C1:1791:A:O2'	1:C1:1793:G:C5'	2.55	0.47
1:C1:20:G:H4'	1:C1:571:G:N1	2.30	0.47
1:C1:391:A:H4'	1:C1:1730:A:H4'	1.96	0.47
1:C1:387:A:C2	1:C1:426:G:OP2	2.68	0.47
1:C1:865:A:N1	1:C1:965:U:O4	2.48	0.47
29:D1:1202:A:C6	29:D1:1301:A:C4	3.03	0.47
29:D1:1560:G:C6	29:D1:1579:C:C2	3.01	0.47
29:D1:2310:U:O2'	29:D1:2311:G:H5'	2.15	0.47
29:D1:2342:U:O2'	29:D1:2343:C:C5'	2.63	0.47
29:D1:2773:C:N3	29:D1:2774:C:C5	2.83	0.47
29:D1:2837:A:H2'	29:D1:2845:A:C6	2.48	0.47
29:D1:2922:G:O4'	29:D1:2951:G:O2'	2.27	0.47
29:D1:319:A:H1'	44:DO:50:ARG:O	2.15	0.47
29:D1:559:A:HO2'	29:D1:560:G:P	2.38	0.47
29:D1:565:U:OP2	29:D1:565:U:C6	2.67	0.47
29:D1:761:A:N6	29:D1:770:G:H22	2.13	0.47
29:D1:83:U:H2'	29:D1:84:U:C5'	2.45	0.47
29:D1:876:A:O2'	29:D1:877:C:H5'	2.15	0.47
29:D1:944:C:OP1	29:D1:1432:C:H5'	2.15	0.47
29:D1:974:G:C6	29:D1:975:C:C5	3.03	0.47
31:D3:69:U:OP2	74:D3:209:OHX:N3	2.48	0.47
31:D3:74:U:H1'	31:D3:89:A:C5	2.49	0.47
31:D3:92:A:H2'	31:D3:93:U:C5'	2.42	0.47
31:D3:9:A:H3'	31:D3:10:A:H8	1.79	0.47
44:DO:83:LYS:C	44:DO:85:THR:N	2.68	0.47
1:A1:714:G:N3	1:A1:715:U:H1'	2.29	0.47
1:C1:217:A:C1'	1:C1:218:A:P	3.03	0.47
1:A1:648:G:N1	1:A1:649:U:C5	2.83	0.47
1:C1:747:C:C4	1:C1:748:U:C4	3.03	0.47
29:B1:2628:A:O4'	29:B1:2798:C:C5	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2642:A:N3	29:B1:2642:A:H2'	2.30	0.47
30:B2:60:G:C2	30:B2:61:G:C8	3.03	0.47
30:B2:75:G:P	74:B2:201:OHX:N6	2.88	0.47
31:B3:56:G:C4	31:B3:57:C:C6	3.03	0.47
1:A1:188:A:N9	1:A1:198:A:N6	2.63	0.47
30:D2:72:A:C4	30:D2:73:C:C5	3.03	0.47
1:C1:1691:A:N6	1:C1:1713:G:C2	2.83	0.47
1:C1:333:A:C2	1:C1:334:G:N3	2.83	0.47
29:D1:2680:A:H3'	29:D1:2680:A:H8	1.78	0.47
1:C1:1437:U:H2'	1:C1:1437:U:O2	2.15	0.47
1:C1:1475:A:C4	1:C1:1476:C:C6	3.02	0.47
1:C1:1478:G:C2	1:C1:1479:A:C4	3.02	0.47
1:C1:1520:U:O4	74:C1:1930:OHX:N3	2.47	0.47
1:A1:1200:G:O3'	1:A1:1201:G:O4'	2.33	0.47
1:A1:1250:U:O2	1:A1:1251:U:C2	2.68	0.47
1:A1:1370:U:H2'	1:A1:1371:A:O5'	2.14	0.47
1:A1:1374:C:C4	1:A1:1375:A:N1	2.82	0.47
1:A1:1469:A:H2'	1:A1:1470:C:C6	2.50	0.47
1:A1:1528:U:H2'	1:A1:1529:C:H6	1.78	0.47
1:A1:1575:G:C5'	1:A1:1576:A:OP2	2.62	0.47
11:AJ:18:ALA:HB3	11:AJ:84:ALA:HB2	1.96	0.47
29:B1:3211:C:O2'	29:B1:3212:C:O5'	2.33	0.47
30:D2:26:C:O5'	30:D2:26:C:C6	2.67	0.47
29:B1:3026:G:C2	29:B1:3030:G:O6	2.67	0.47
29:D1:208:C:H2'	29:D1:209:A:O5'	2.14	0.47
29:B1:1244:A:C6	29:B1:1248:C:H1'	2.50	0.47
30:B2:27:A:H3'	30:B2:28:C:H6	1.80	0.47
30:B2:56:A:O2'	42:BK:149:GLY:N	2.48	0.47
30:D2:36:C:H42	30:D2:42:A:H61	1.63	0.47
29:D1:72:C:C3'	29:D1:73:C:C5'	2.82	0.47
29:D1:1276:U:C2	29:D1:1277:C:C5	3.03	0.47
9:CH:21:ALA:CB	9:CH:26:THR:HA	2.44	0.47
1:A1:885:G:H5''	1:A1:886:U:OP2	2.14	0.47
1:A1:1650:U:C2'	1:A1:1651:A:C8	2.98	0.47
1:C1:1753:A:N6	1:C1:1754:A:C6	2.73	0.47
1:A1:1122:G:N2	1:A1:1126:G:C6	2.83	0.47
1:C1:492:A:C6	1:C1:494:U:H5''	2.50	0.47
29:B1:130:A:C2	29:B1:139:G:C4	3.03	0.47
30:D2:94:C:H2'	30:D2:95:A:C8	2.45	0.47
29:D1:1921:A:N7	29:D1:1932:A:C5	2.83	0.47
29:D1:1913:A:C2	29:D1:2120:A:C8	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:315:A:C5	1:A1:350:U:C5	2.97	0.47
1:C1:1736:G:O2'	1:C1:1737:G:H5'	2.15	0.47
1:A1:789:A:C5	1:A1:790:U:C5	3.03	0.47
43:DN:26:GLY:O	43:DN:27:GLN:C	2.53	0.47
33:BB:90:ALA:O	33:BB:91:GLY:C	2.52	0.47
29:B1:1884:A:N3	29:B1:1885:U:O2	2.48	0.47
2:AA:8:ASP:O	2:AA:11:PRO:N	2.47	0.47
10:CI:17:TYR:CB	10:CI:18:ARG:CA	2.92	0.47
14:AM:62:ALA:C	14:AM:64:HIS:H	2.18	0.47
11:AJ:54:LEU:O	11:AJ:56:GLY:N	2.47	0.47
47:BR:108:ALA:O	47:BR:110:ALA:N	2.48	0.47
40:DI:55:VAL:O	40:DI:56:ALA:HB3	2.15	0.47
46:DQ:128:ARG:CA	46:DQ:138:LYS:HA	2.43	0.47
72:DL:63:LYS:H	72:DL:70:ALA:HB3	1.79	0.47
1:A1:952:A:C2	1:A1:953:G:C8	3.03	0.47
2:CA:90:ALA:HB1	2:CA:95:ALA:O	2.15	0.47
3:CB:107:SER:CA	3:CB:190:LEU:O	2.63	0.47
29:D1:2179:C:O2	33:DB:129:ALA:CB	2.63	0.47
36:BE:118:THR:C	36:BE:120:LYS:N	2.68	0.47
45:DP:84:LEU:O	45:DP:87:MET:N	2.48	0.47
1:A1:563:U:C4	1:A1:564:G:C6	3.02	0.47
2:CA:65:ALA:O	2:CA:67:ILE:N	2.48	0.47
1:A1:919:A:H2'	1:A1:920:U:C6	2.50	0.47
40:BI:48:VAL:C	40:BI:50:ASN:H	2.18	0.47
4:CC:133:GLY:HA3	4:CC:155:GLY:HA3	1.97	0.47
29:D1:2720:G:C4	29:D1:2721:A:C8	3.03	0.47
72:DL:16:ARG:O	72:DL:17:ALA:CB	2.62	0.47
14:CM:15:ILE:O	14:CM:17:ALA:N	2.48	0.47
45:DP:47:PHE:O	45:DP:49:ARG:N	2.48	0.47
15:CN:119:ALA:HB1	15:CN:120:SER:CA	2.44	0.47
48:BS:120:TYR:O	48:BS:121:HIS:C	2.52	0.47
37:BF:64:LEU:HA	37:BF:78:ARG:HA	1.97	0.47
29:D1:1573:G:H3'	29:D1:1574:C:C6	2.49	0.47
29:D1:1397:C:C4	29:D1:1398:U:O4	2.68	0.47
4:CC:156:PHE:O	4:CC:157:LEU:CB	2.62	0.47
21:AT:216:LYS:C	21:AT:218:GLY:N	2.68	0.47
33:DB:15:ILE:O	33:DB:16:PHE:CB	2.63	0.47
29:B1:1000:C:H5'	74:B1:3481:OHX:N6	2.30	0.47
21:AT:74:THR:O	21:AT:77:GLY:N	2.47	0.47
45:BP:154:ALA:O	45:BP:157:GLU:CB	2.63	0.47
43:BN:58:ILE:CB	43:BN:59:ASN:CB	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BJ:153:ARG:O	41:BJ:154:ARG:C	2.52	0.47
40:BI:174:LYS:O	40:BI:176:LEU:N	2.48	0.47
1:A1:1109:G:C5	1:A1:1137:A:N6	2.83	0.47
1:A1:1631:A:N3	1:A1:1632:C:H1'	2.30	0.47
1:A1:1786:G:H2'	1:A1:1787:C:H6	1.78	0.47
1:A1:557:G:OP1	1:A1:558:U:O4'	2.33	0.47
1:A1:635:A:C4	1:A1:863:A:C5	3.03	0.47
1:A1:863:A:O2'	1:A1:865:A:H5''	2.15	0.47
29:B1:1106:G:C6	29:B1:1107:C:C4	3.03	0.47
29:B1:1414:G:H2'	29:B1:1415:U:C6	2.49	0.47
29:B1:1506:A:N6	29:B1:1513:G:C6	2.83	0.47
29:B1:1519:G:C2	29:B1:1520:G:C8	3.03	0.47
29:B1:184:U:H2'	29:B1:185:C:H6	1.80	0.47
29:B1:2141:U:H6	29:B1:2141:U:H2'	1.45	0.47
29:B1:2253:G:H3'	29:B1:2254:U:H6	1.74	0.47
29:B1:2282:U:H6	29:B1:2282:U:H5'	1.80	0.47
29:B1:2357:A:O2'	29:B1:2358:A:H5'	2.15	0.47
29:B1:2361:A:N7	29:B1:2362:C:C5	2.83	0.47
29:B1:652:G:C2	29:B1:2361:A:O4'	2.68	0.47
29:B1:2362:C:H2'	29:B1:2363:A:O4'	2.14	0.47
29:B1:2367:A:C6	29:B1:2381:G:N1	2.83	0.47
29:B1:264:G:H3'	29:B1:265:A:N7	2.27	0.47
29:B1:2750:U:H2'	29:B1:2751:G:C8	2.49	0.47
29:B1:2788:C:H2'	29:B1:2789:U:H6	1.79	0.47
29:B1:2896:A:H2'	29:B1:2897:A:H5''	1.96	0.47
29:B1:2898:G:OP2	29:B1:2899:C:H5'	2.15	0.47
29:B1:3036:G:C2	29:B1:3037:U:C6	3.03	0.47
29:B1:3040:A:C2'	29:B1:3041:U:H5'	2.45	0.47
29:B1:3320:A:C4	29:B1:3321:C:C4	3.03	0.47
29:B1:3324:C:C2	29:B1:3325:G:C8	3.02	0.47
29:B1:3345:G:O5'	29:B1:3345:G:H8	1.98	0.47
29:B1:407:A:O5'	29:B1:407:A:C8	2.68	0.47
29:B1:428:A:H3'	29:B1:428:A:C8	2.50	0.47
29:B1:560:G:H2'	29:B1:561:C:C6	2.47	0.47
29:B1:561:C:H2'	29:B1:562:C:C5	2.50	0.47
29:B1:776:U:C5	29:B1:777:U:H1'	2.50	0.47
29:B1:92:G:N7	29:B1:94:G:C2	2.83	0.47
29:B1:950:G:O5'	29:B1:950:G:C8	2.66	0.47
29:B1:976:U:C4	29:B1:977:C:N4	2.82	0.47
29:B1:9:U:N3	29:B1:10:C:C6	2.83	0.47
31:B3:108:C:H2'	31:B3:109:A:O5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:8:C:C2	31:B3:9:A:C8	3.03	0.47
29:B1:1793:C:C2	33:BB:173:GLY:O	2.68	0.47
33:BB:78:ALA:HA	33:BB:168:VAL:HA	1.95	0.47
35:BD:15:ALA:O	35:BD:16:THR:O	2.32	0.47
35:BD:10:SER:CA	35:BD:17:ALA:H	2.26	0.47
1:C1:1015:U:H5''	1:C1:1016:C:OP2	2.15	0.47
1:C1:1133:A:C2	1:C1:1134:C:H1'	2.50	0.47
1:C1:1778:G:C2	1:C1:1779:U:C6	3.03	0.47
1:C1:403:G:O5'	1:C1:403:G:H8	1.98	0.47
29:D1:107:A:C2	29:D1:108:A:C4	3.02	0.47
29:D1:1119:C:H1'	29:D1:1154:A:C2	2.50	0.47
29:D1:1172:G:H2'	29:D1:1173:U:O5'	2.15	0.47
29:D1:1225:A:N3	29:D1:1225:A:C2'	2.78	0.47
29:D1:1468:A:O2'	29:D1:1469:C:H5'	2.15	0.47
29:D1:155:G:O4'	29:D1:156:G:O5'	2.33	0.47
29:D1:1654:A:HO2'	29:D1:1655:G:P	2.38	0.47
29:D1:1658:G:C2	29:D1:1796:G:O6	2.67	0.47
29:D1:2112:U:C1'	29:D1:2113:A:P	3.03	0.47
29:D1:2299:A:C4	29:D1:2300:G:H8	2.33	0.47
29:D1:2419:A:C5	29:D1:2804:A:N7	2.82	0.47
29:D1:2628:A:C6	29:D1:2629:U:C6	3.03	0.47
29:D1:266:A:O2'	29:D1:267:G:OP2	2.28	0.47
29:D1:2730:G:C5	29:D1:2731:U:C5	3.02	0.47
29:D1:2992:U:C6	29:D1:2992:U:C3'	2.98	0.47
29:D1:2386:A:C5	29:D1:2994:A:C2	3.02	0.47
29:D1:2902:A:H5''	29:D1:3032:A:O2'	2.15	0.47
29:D1:3055:U:O3'	29:D1:3056:U:C6	2.68	0.47
29:D1:3137:C:H3'	29:D1:3138:U:C6	2.50	0.47
29:D1:347:G:C2	29:D1:353:G:N7	2.82	0.47
29:D1:353:G:H4'	29:D1:353:G:OP1	2.14	0.47
29:D1:520:U:H1'	29:D1:521:A:OP2	2.15	0.47
29:D1:607:A:N6	29:D1:608:A:C6	2.83	0.47
29:D1:808:A:C6	29:D1:809:G:C5	3.03	0.47
29:D1:992:A:C6	29:D1:993:G:N7	2.82	0.47
31:D3:7:U:C4	31:D3:8:C:N4	2.83	0.47
33:DB:198:LYS:O	33:DB:199:THR:C	2.53	0.47
1:C1:225:A:C2	1:C1:226:A:C4	3.03	0.47
1:C1:647:G:H4'	1:C1:647:G:OP1	2.15	0.47
29:B1:2631:U:C2	29:B1:2648:G:N2	2.83	0.47
29:B1:2639:G:N3	29:B1:2640:A:C8	2.83	0.47
29:B1:2707:C:O2'	29:B1:2708:C:C5'	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:967:A:H2'	29:B1:967:A:N3	2.30	0.47
31:B3:91:C:H6	31:B3:91:C:O5'	1.98	0.47
1:A1:184:C:N4	1:A1:202:A:N1	2.62	0.47
1:A1:198:A:C2	1:A1:199:G:N3	2.83	0.47
1:A1:206:A:H2'	1:A1:207:U:O4'	2.15	0.47
30:D2:77:G:C1'	30:D2:78:U:OP2	2.61	0.47
1:C1:1684:U:C4	1:C1:1721:A:C2	2.97	0.47
1:C1:1203:A:C5	1:C1:1555:A:N1	2.83	0.47
1:C1:1239:U:C5	1:C1:1241:G:C5	3.02	0.47
1:C1:1455:G:C2	1:C1:1456:C:O2	2.67	0.47
1:C1:1470:C:OP1	1:C1:1471:A:H1'	2.15	0.47
1:C1:1520:U:C4	74:C1:1930:OHX:N4	2.83	0.47
1:C1:1612:U:C3'	1:C1:1613:U:H5''	2.45	0.47
1:A1:1218:G:C6	1:A1:1444:A:H8	2.33	0.47
1:A1:1511:U:H2'	1:A1:1512:G:H8	1.77	0.47
1:A1:1585:U:H5	1:A1:1610:G:N2	2.12	0.47
29:B1:617:G:C2'	29:B1:618:C:O5'	2.62	0.47
29:B1:384:A:C4	29:B1:1465:A:C6	3.03	0.47
29:B1:3214:U:O2'	29:B1:3218:A:OP2	2.21	0.47
43:DN:84:LYS:O	43:DN:86:ALA:N	2.46	0.47
30:D2:22:A:H2'	30:D2:23:A:O5'	2.15	0.47
6:CE:121:SER:O	6:CE:122:VAL:C	2.53	0.47
29:D1:191:U:H2'	29:D1:192:C:H6	1.80	0.47
29:D1:197:G:OP1	29:D1:197:G:H8	1.98	0.47
29:D1:222:A:C5	29:D1:223:U:C4	3.03	0.47
29:D1:397:A:N6	29:D1:400:G:N1	2.63	0.47
29:B1:1266:G:H2'	29:B1:1267:U:H5'	1.96	0.47
29:B1:1230:G:OP1	29:B1:1275:C:H5'	2.15	0.47
29:D1:3284:G:C4	29:D1:3285:C:C5	3.03	0.47
30:B2:22:A:C2'	30:B2:23:A:O5'	2.63	0.47
29:B1:2594:C:H2'	29:B1:2595:A:H8	1.72	0.47
4:CC:66:ILE:O	4:CC:67:ASN:C	2.53	0.47
1:C1:1392:U:C6	1:C1:1392:U:C5'	2.98	0.47
39:BH:185:ARG:O	39:BH:188:THR:N	2.47	0.47
1:A1:1330:G:C5	1:A1:1331:A:N7	2.83	0.47
1:C1:1219:A:C5'	1:C1:1220:C:C5	2.89	0.47
29:B1:821:U:H2'	29:B1:822:G:H5'	1.96	0.47
29:B1:1953:G:N2	29:B1:2092:A:C5	2.83	0.47
1:A1:1320:U:O2	1:A1:1322:A:H5'	2.15	0.47
29:D1:1347:U:C3'	29:D1:1348:U:C5	2.98	0.47
29:D1:1730:G:O6	55:DZ:26:GLY:HA2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:772:G:C5	1:C1:773:C:N4	2.83	0.47
5:AD:166:ARG:O	5:AD:169:ASN:N	2.48	0.47
29:B1:350:C:N3	29:B1:367:A:H2'	2.29	0.47
45:DP:166:GLU:O	45:DP:169:ALA:N	2.47	0.47
29:D1:2882:U:H2'	29:D1:2883:U:H5'	1.96	0.47
29:B1:1358:C:O2	29:B1:1358:C:C2'	2.60	0.47
29:B1:1359:C:C2'	29:B1:1359:C:O2	2.63	0.47
10:CI:19:GLY:C	10:CI:21:ASP:H	2.17	0.47
29:B1:1535:A:H3'	29:B1:1536:G:O4'	2.15	0.47
43:BN:11:ASN:CB	43:BN:64:VAL:HA	2.44	0.47
1:C1:133:U:H2'	1:C1:133:U:O2	2.13	0.47
1:C1:716:C:N4	1:C1:723:G:C5	2.84	0.47
8:CG:109:LYS:C	8:CG:111:ALA:N	2.67	0.47
29:B1:3049:A:C5'	29:B1:3050:U:OP2	2.63	0.47
47:BR:63:SER:O	47:BR:66:ARG:N	2.48	0.47
34:BC:261:MET:HA	34:BC:263:SER:O	2.15	0.47
29:D1:3050:U:H5''	29:D1:3051:U:OP2	2.15	0.47
29:B1:908:G:C8	29:B1:925:A:C4	3.03	0.47
38:BG:84:VAL:O	38:BG:86:VAL:N	2.47	0.47
51:DV:21:PHE:O	51:DV:22:VAL:CB	2.61	0.47
29:B1:1307:G:HO2'	29:B1:1308:A:P	2.36	0.47
3:AB:82:ASN:O	3:AB:100:ALA:HB1	2.15	0.47
16:AO:23:ARG:O	16:AO:24:GLN:O	2.32	0.47
49:BT:77:ASN:CA	49:BT:87:LYS:O	2.61	0.47
38:DG:193:PRO:O	38:DG:195:PHE:N	2.48	0.47
55:BZ:76:GLU:O	55:BZ:78:GLY:N	2.47	0.47
29:D1:1768:U:C2	29:D1:1769:G:C8	3.03	0.47
1:C1:578:U:H5''	1:C1:578:U:H6	1.79	0.47
47:BR:99:THR:O	47:BR:119:GLY:HA3	2.15	0.47
1:A1:1705:C:H3'	1:A1:1706:C:H5'	1.97	0.47
1:A1:1076:A:N7	1:A1:1077:C:C5	2.84	0.46
1:A1:1117:U:C2	1:A1:1118:G:C8	3.03	0.46
1:A1:42:G:C8	1:A1:437:A:H3'	2.51	0.46
1:A1:589:C:C2	1:A1:590:C:C5	3.03	0.46
1:A1:590:C:O2'	1:A1:591:A:H5'	2.15	0.46
1:A1:959:U:C1'	1:A1:960:U:OP1	2.63	0.46
1:A1:98:U:C2	1:A1:99:C:C5	3.03	0.46
29:B1:1106:G:C6	29:B1:1107:C:C5	3.04	0.46
29:B1:114:A:OP2	29:B1:154:U:O4	2.33	0.46
29:B1:1202:A:C6	29:B1:1301:A:N3	2.83	0.46
29:B1:1310:G:H5'	29:B1:1310:G:C8	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1417:G:C8	29:B1:1417:G:O5'	2.68	0.46
29:B1:1427:U:O2'	29:B1:1428:A:H5'	2.14	0.46
29:B1:1477:A:H2'	29:B1:1478:C:H5''	1.96	0.46
29:B1:1489:A:OP2	29:B1:1838:G:N1	2.45	0.46
29:B1:1604:G:C6	29:B1:1605:A:C6	3.03	0.46
29:B1:1797:A:C5	29:B1:1798:A:N7	2.83	0.46
29:B1:1910:A:N6	29:B1:1911:A:N1	2.62	0.46
29:B1:2266:U:H5''	29:B1:2267:C:OP2	2.14	0.46
29:B1:2289:U:O2'	29:B1:2290:C:C5'	2.62	0.46
29:B1:2860:U:H2'	29:B1:2860:U:O2	2.13	0.46
29:B1:2931:C:C2	29:B1:2932:U:C5	3.03	0.46
29:B1:3044:G:C2'	29:B1:3045:G:H5'	2.45	0.46
29:B1:3142:A:N3	74:B1:3428:OHX:N5	2.63	0.46
29:B1:317:A:N3	29:B1:317:A:H2'	2.29	0.46
29:B1:3304:U:O2'	29:B1:3305:A:C5'	2.61	0.46
29:B1:3318:G:O2'	29:B1:3319:U:OP1	2.31	0.46
29:B1:782:U:O4	74:B1:3483:OHX:N5	2.49	0.46
29:B1:3:U:O2'	29:B1:4:U:H5'	2.16	0.46
29:B1:510:G:C2	29:B1:511:G:H1'	2.50	0.46
29:B1:510:G:C2'	29:B1:511:G:O5'	2.63	0.46
29:B1:547:G:C2'	29:B1:548:G:H5'	2.45	0.46
29:B1:5:G:O6	29:B1:6:A:C6	2.68	0.46
29:B1:712:G:H2'	29:B1:713:U:H6	1.79	0.46
29:B1:743:C:C2'	29:B1:744:A:C5'	2.79	0.46
29:B1:747:A:C5	29:B1:748:U:H5	2.32	0.46
29:B1:917:A:H5'	29:B1:918:C:OP2	2.15	0.46
31:B3:107:G:C2	31:B3:116:G:N7	2.83	0.46
31:B3:114:G:H2'	31:B3:115:C:C5'	2.45	0.46
34:BC:17:LEU:CB	34:BC:18:PRO:HA	2.45	0.46
35:BD:159:ILE:C	35:BD:161:LYS:N	2.67	0.46
37:BF:162:SER:O	37:BF:163:PHE:C	2.53	0.46
43:BN:71:ALA:O	43:BN:75:GLY:N	2.38	0.46
29:B1:304:G:O2'	54:BY:61:PHE:CB	2.63	0.46
1:C1:1075:C:N4	1:C1:1076:A:C6	2.83	0.46
1:C1:1147:A:C4	1:C1:1148:C:C6	3.03	0.46
1:C1:1765:A:H2	1:C1:1768:G:H22	1.60	0.46
1:C1:1779:U:H4'	1:C1:1780:G:OP1	2.14	0.46
1:C1:195:G:N2	1:C1:196:G:C4	2.83	0.46
1:C1:21:U:H3	1:C1:605:A:H2	1.59	0.46
1:C1:170:U:OP1	1:C1:267:U:O2'	2.33	0.46
1:C1:270:C:H4'	1:C1:270:C:OP1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:287:G:N1	1:C1:288:A:C2	2.83	0.46
1:C1:27:U:N3	1:C1:28:A:N7	2.62	0.46
1:C1:401:A:H4'	1:C1:402:C:OP2	2.14	0.46
1:C1:55:A:N3	1:C1:403:G:C6	2.83	0.46
1:C1:856:A:H2'	1:C1:856:A:N3	2.30	0.46
1:C1:990:C:H2'	1:C1:991:G:O4'	2.14	0.46
29:D1:1145:G:C4	29:D1:1160:C:C4	3.03	0.46
29:D1:1199:C:C2	74:D1:3574:OHX:N5	2.83	0.46
29:D1:1212:A:H3'	29:D1:1213:G:C5'	2.46	0.46
29:D1:951:A:C4	29:D1:1369:A:N1	2.83	0.46
29:D1:1377:G:C2	29:D1:1378:U:C5	3.03	0.46
29:D1:157:A:C2'	29:D1:158:G:N7	2.79	0.46
29:D1:1882:G:C4	29:D1:1883:A:C8	3.03	0.46
29:D1:2280:A:O2'	29:D1:2281:A:P	2.73	0.46
29:D1:2288:G:C2	29:D1:2289:U:C4	3.03	0.46
29:D1:2642:A:H2	29:D1:2643:A:C6	2.32	0.46
29:D1:2898:G:OP2	29:D1:2899:C:H5'	2.14	0.46
29:D1:3010:U:H2'	29:D1:3011:A:OP1	2.15	0.46
29:D1:3018:C:N4	29:D1:3019:U:O4	2.49	0.46
29:D1:3030:G:C2'	29:D1:3031:G:O5'	2.63	0.46
29:D1:3046:A:C2'	29:D1:3047:U:H5'	2.45	0.46
29:D1:3079:U:O2'	29:D1:3080:G:OP1	2.32	0.46
29:D1:3298:C:C2	29:D1:3299:A:C8	3.02	0.46
29:D1:3386:G:O2'	29:D1:3387:U:O5'	2.28	0.46
29:D1:2704:A:P	74:D1:3402:OHX:N2	2.87	0.46
29:D1:518:G:H3'	29:D1:519:A:H3'	1.97	0.46
29:D1:964:G:C4	29:D1:965:A:C8	3.03	0.46
31:D3:17:A:H2'	31:D3:18:U:C6	2.42	0.46
31:D3:80:A:H2'	31:D3:81:U:N3	2.30	0.46
1:A1:830:U:O2	1:A1:830:U:C2'	2.62	0.46
1:A1:839:U:O4'	1:A1:839:U:O2	2.34	0.46
29:B1:2706:G:C4	29:B1:2707:C:C5	3.03	0.46
31:B3:92:A:H2'	31:B3:93:U:C5'	2.37	0.46
1:A1:451:A:H2'	1:A1:451:A:N3	2.29	0.46
1:C1:1713:G:C2'	1:C1:1713:G:N3	2.77	0.46
1:C1:1685:G:C4	1:C1:1719:A:N1	2.83	0.46
1:C1:1722:A:O3'	1:C1:1722:A:OP1	2.33	0.46
1:C1:329:G:C2	1:C1:330:G:C8	3.04	0.46
29:D1:2679:A:OP2	29:D1:2679:A:O4'	2.33	0.46
29:D1:2680:A:H3'	29:D1:2680:A:C8	2.50	0.46
1:A1:1718:G:N1	1:A1:1719:A:N7	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1180:C:C4	1:C1:1181:U:C5	3.03	0.46
1:C1:1456:C:C5'	1:C1:1457:C:H5''	2.41	0.46
1:C1:1615:C:H3'	1:C1:1616:G:H5''	1.96	0.46
1:C1:1584:G:N7	11:CJ:123:ARG:O	2.48	0.46
1:A1:1383:G:O6	1:A1:1384:A:N6	2.49	0.46
1:A1:1448:G:O2'	1:A1:1449:U:H5'	2.15	0.46
1:A1:1575:G:N3	1:A1:1575:G:C2'	2.64	0.46
1:A1:1590:G:N3	1:A1:1591:C:C5	2.84	0.46
29:B1:438:A:O2'	29:B1:494:G:C1'	2.63	0.46
29:D1:3212:C:C5	29:D1:3213:A:C2	3.02	0.46
29:D1:1186:G:H2'	29:D1:1187:C:O5'	2.14	0.46
29:B1:3201:C:N3	29:B1:3202:G:N7	2.62	0.46
31:D3:30:C:C2'	31:D3:31:G:O5'	2.63	0.46
29:B1:3018:C:N4	29:B1:3019:U:O4	2.48	0.46
29:D1:401:U:H5''	29:D1:403:C:O2	2.15	0.46
29:D1:2687:G:OP1	74:D1:3430:OHX:N5	2.48	0.46
29:D1:2771:U:O2'	29:D1:2772:C:OP1	2.30	0.46
29:D1:3352:U:O2	29:D1:3352:U:C2'	2.61	0.46
29:B1:349:A:H2	31:B3:24:G:C5	2.33	0.46
29:B1:3221:C:N3	29:B1:3222:U:H5	2.11	0.46
29:B1:3262:U:C2'	29:B1:3263:G:H8	2.26	0.46
29:B1:1076:C:H3'	29:B1:1077:U:C5	2.50	0.46
29:B1:1084:A:C5	29:B1:1085:A:C6	3.03	0.46
29:D1:2593:A:H4'	29:D1:2594:C:OP2	2.15	0.46
1:A1:1308:G:C6	1:A1:1309:C:C4	3.04	0.46
29:D1:1079:A:O4'	36:DE:141:PRO:CB	2.63	0.46
29:D1:649:A:C4	29:D1:650:C:C5	3.03	0.46
1:A1:1660:A:C6	1:A1:1661:U:C4	3.03	0.46
1:C1:1281:G:H4'	15:CN:75:GLY:CA	2.45	0.46
29:B1:1921:A:N7	29:B1:1932:A:C5	2.83	0.46
29:B1:1745:C:H2'	29:B1:1746:U:H6	1.75	0.46
5:AD:117:THR:O	5:AD:121:ILE:CB	2.63	0.46
1:C1:374:U:OP1	1:C1:374:U:H4'	2.15	0.46
29:B1:2908:G:H2'	29:B1:2909:U:O5'	2.15	0.46
29:D1:1740:U:O2	29:D1:1741:A:N3	2.48	0.46
29:B1:1542:G:C2	29:B1:1543:G:C8	3.03	0.46
1:A1:373:G:H2'	1:A1:374:U:H6	1.80	0.46
13:AL:76:PRO:C	13:AL:78:HIS:N	2.68	0.46
29:D1:2963:C:H2'	29:D1:2964:G:C5'	2.45	0.46
3:AB:134:LEU:O	3:AB:136:VAL:N	2.48	0.46
1:C1:877:G:O6	1:C1:952:A:C6	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:743:U:O2'	1:A1:744:U:O5'	2.29	0.46
29:D1:665:A:H2'	29:D1:666:A:H5'	1.96	0.46
29:D1:2573:G:C5	29:D1:2574:G:C8	3.03	0.46
29:B1:183:G:C6	29:B1:234:G:C6	3.02	0.46
1:C1:568:G:N1	1:C1:569:C:C4	2.83	0.46
14:AM:27:LYS:O	14:AM:29:GLU:N	2.41	0.46
39:BH:81:THR:O	39:BH:83:ASP:N	2.48	0.46
38:BG:237:ASN:O	38:BG:238:LYS:C	2.53	0.46
45:DP:161:LYS:O	45:DP:164:SER:CB	2.64	0.46
49:BT:100:LYS:C	49:BT:102:ARG:N	2.62	0.46
5:AD:149:VAL:C	5:AD:151:GLY:H	2.18	0.46
29:D1:2787:G:H2'	29:D1:2788:C:C6	2.50	0.46
3:AB:149:GLY:C	3:AB:151:PRO:N	2.67	0.46
47:DR:93:ILE:O	47:DR:94:PHE:CB	2.62	0.46
40:DI:85:GLY:HA3	40:DI:187:ILE:O	2.15	0.46
14:AM:103:LYS:C	14:AM:105:LEU:N	2.68	0.46
3:AB:62:PRO:HA	3:AB:63:VAL:CB	2.45	0.46
29:B1:1326:A:C5	29:B1:1327:C:C5	3.03	0.46
39:DH:124:ASP:C	39:DH:126:SER:H	2.17	0.46
54:BY:33:GLY:O	54:BY:34:MET:C	2.53	0.46
21:AT:27:ALA:HB2	21:AT:296:ALA:CB	2.44	0.46
21:AT:282:SER:O	21:AT:284:ALA:N	2.38	0.46
21:AT:48:THR:O	21:AT:49:GLY:C	2.54	0.46
46:BQ:62:ARG:C	46:BQ:64:ASN:H	2.18	0.46
21:AT:128:ASP:O	21:AT:129:LYS:CB	2.63	0.46
29:B1:179:C:O2	29:B1:179:C:H2'	2.15	0.46
1:C1:657:U:O2'	1:C1:661:A:N6	2.48	0.46
19:AR:33:LEU:O	19:AR:34:GLU:CB	2.62	0.46
4:AC:166:ASP:O	4:AC:167:PHE:CB	2.63	0.46
1:A1:992:A:C2	1:A1:1012:U:O2	2.62	0.46
1:A1:1051:G:N3	1:A1:1052:U:N3	2.63	0.46
1:A1:1671:A:C8	1:A1:1731:A:N6	2.83	0.46
1:A1:1745:G:O6	74:A1:1972:OHX:N6	2.48	0.46
1:A1:381:C:H2'	1:A1:381:C:O2	2.13	0.46
1:A1:614:C:C4	1:A1:615:A:N7	2.84	0.46
1:A1:620:A:H2'	1:A1:621:A:N9	2.30	0.46
1:A1:873:U:H3	1:A1:874:C:N4	2.13	0.46
1:A1:998:A:C8	1:A1:999:U:C5	3.03	0.46
3:AB:201:ASN:O	3:AB:202:GLY:C	2.52	0.46
29:B1:1165:A:C2	29:B1:1166:G:C8	3.02	0.46
29:B1:1205:A:N1	29:B1:1206:G:C5	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1217:A:C6	29:B1:1218:U:C4	3.03	0.46
29:B1:1216:C:H5'	29:B1:1217:A:OP2	2.14	0.46
29:B1:1449:A:C2	29:B1:2356:A:C5	3.03	0.46
29:B1:1520:G:N2	29:B1:1521:G:N3	2.63	0.46
29:B1:1558:A:H5''	29:B1:1559:A:O4'	2.15	0.46
29:B1:826:G:N2	29:B1:1589:A:N6	2.60	0.46
29:B1:1847:A:C2	29:B1:1849:C:C6	3.04	0.46
29:B1:1875:G:C4	29:B1:1876:U:C6	3.03	0.46
29:B1:1895:A:C6	29:B1:2341:A:N1	2.83	0.46
29:B1:2370:G:C6	29:B1:2371:G:C5	3.03	0.46
29:B1:2749:G:C8	29:B1:2750:U:C5	3.04	0.46
29:B1:2419:A:C5	29:B1:2804:A:C5	3.03	0.46
29:B1:281:G:C4	29:B1:282:G:N7	2.83	0.46
29:B1:2834:G:O2'	29:B1:2835:U:O4'	2.34	0.46
29:B1:2897:A:C6	29:B1:2904:U:O4	2.68	0.46
29:B1:2919:A:H3'	29:B1:2920:U:C5'	2.40	0.46
29:B1:3086:A:N9	29:B1:3087:A:C8	2.84	0.46
29:B1:3102:G:O2'	29:B1:3103:A:P	2.73	0.46
29:B1:3136:G:N3	29:B1:3137:C:C6	2.82	0.46
29:B1:3292:A:C2'	29:B1:3293:U:H4'	2.46	0.46
29:B1:3327:G:C5	29:B1:3328:G:C5	3.03	0.46
29:B1:517:G:C3'	29:B1:517:G:P	3.00	0.46
29:B1:574:U:H6	29:B1:574:U:C5'	2.27	0.46
29:B1:657:A:H2'	29:B1:658:G:O5'	2.15	0.46
29:B1:698:U:O4'	29:B1:699:A:OP1	2.32	0.46
29:B1:715:A:H5''	54:BY:114:GLY:O	2.15	0.46
29:B1:747:A:C6	29:B1:748:U:C5	3.02	0.46
29:B1:944:C:C2	29:B1:945:C:C5	3.03	0.46
29:B1:963:G:C8	29:B1:963:G:H3'	2.50	0.46
37:BF:156:LYS:O	37:BF:157:GLN:C	2.53	0.46
1:C1:1042:G:N1	1:C1:1043:A:C6	2.83	0.46
1:C1:131:C:C2'	1:C1:131:C:O2	2.57	0.46
1:C1:13:C:C4'	3:CB:161:LYS:O	2.63	0.46
1:C1:150:U:C2'	1:C1:150:U:O2	2.61	0.46
1:C1:1746:A:H3'	1:C1:1747:G:C8	2.46	0.46
1:C1:200:A:O2'	1:C1:201:G:P	2.74	0.46
1:C1:26:A:P	1:C1:26:A:H8	2.39	0.46
1:C1:432:G:O2'	1:C1:433:C:H5'	2.16	0.46
1:C1:446:A:N6	1:C1:461:G:H21	2.13	0.46
1:C1:545:A:N6	1:C1:593:U:HO2'	2.13	0.46
1:C1:615:A:N3	1:C1:615:A:H2'	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:74:U:O2'	1:C1:75:U:C5'	2.63	0.46
1:C1:818:C:N4	1:C1:854:U:C4	2.83	0.46
1:C1:860:U:O2	1:C1:860:U:C2'	2.64	0.46
1:C1:959:U:C1'	1:C1:960:U:OP1	2.63	0.46
29:D1:1286:A:O4'	29:D1:1287:A:H5'	2.15	0.46
29:D1:1399:A:N1	31:D3:8:C:O4'	2.48	0.46
29:D1:144:A:N3	29:D1:145:G:H1'	2.30	0.46
29:D1:1784:G:C2'	29:D1:1785:U:H5'	2.45	0.46
29:D1:1851:G:C4	29:D1:1852:G:C8	3.03	0.46
29:D1:1876:U:H6	29:D1:1876:U:H5'	1.81	0.46
29:D1:1881:A:N1	29:D1:2352:A:C6	2.84	0.46
29:D1:2194:G:C6	29:D1:2195:C:C4	3.03	0.46
29:D1:2243:A:N1	29:D1:2313:A:C6	2.83	0.46
29:D1:2370:G:OP2	74:D1:3574:OHX:N2	2.49	0.46
29:D1:2414:G:H2'	29:D1:2415:C:C6	2.49	0.46
29:D1:279:U:OP2	74:DO:301:OHX:N1	2.48	0.46
29:D1:2827:U:O4	74:D1:3406:OHX:N6	2.47	0.46
29:D1:2309:A:N3	29:D1:2962:U:H5'	2.30	0.46
29:D1:3110:C:H2'	29:D1:3111:U:O4'	2.15	0.46
29:D1:3136:G:N3	29:D1:3137:C:C6	2.83	0.46
29:D1:3326:G:N3	29:D1:3327:G:C8	2.82	0.46
29:D1:3335:A:N6	29:D1:3336:A:C2	2.84	0.46
29:D1:383:G:H5'	29:D1:385:A:OP2	2.15	0.46
29:D1:597:G:C6	29:D1:607:A:N1	2.83	0.46
29:D1:606:C:O3'	29:D1:607:A:O4'	2.32	0.46
29:D1:642:U:H2'	29:D1:644:G:C8	2.50	0.46
29:D1:761:A:H2'	29:D1:761:A:N3	2.30	0.46
31:D3:116:G:C2	31:D3:117:C:C6	3.03	0.46
29:D1:10:C:C5	31:D3:149:A:H2	2.26	0.46
31:D3:1:A:C2	31:D3:2:A:N3	2.83	0.46
29:D1:514:G:O2'	37:DF:145:LEU:C	2.53	0.46
38:DG:69:ALA:O	38:DG:72:ALA:N	2.27	0.46
1:A1:217:A:C1'	1:A1:218:A:P	3.03	0.46
1:A1:224:C:O2'	1:A1:225:A:H8	1.98	0.46
1:A1:705:U:C5	1:A1:706:A:N6	2.83	0.46
1:C1:837:G:H2'	1:C1:838:G:C8	2.50	0.46
1:C1:838:G:O6	74:C1:1928:OHX:N5	2.49	0.46
29:B1:2614:G:N3	29:B1:2797:C:C6	2.82	0.46
30:B2:106:U:O2'	30:B2:107:C:P	2.73	0.46
30:B2:114:U:H3'	30:B2:115:G:H8	1.79	0.46
1:A1:208:U:O3'	1:A1:209:U:O4'	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:74:U:O2'	1:A1:75:U:C5'	2.62	0.46
42:BK:107:ASP:O	42:BK:108:GLU:O	2.33	0.46
1:C1:1202:A:H62	1:C1:1456:C:H2'	1.80	0.46
1:C1:1216:C:O3'	1:C1:1217:A:H3'	2.15	0.46
1:C1:1246:C:C4	1:C1:1247:U:C4	3.03	0.46
1:C1:1365:C:N4	1:C1:1366:U:C5	2.83	0.46
1:C1:1377:U:O2	1:C1:1378:U:H4'	2.15	0.46
1:C1:1543:A:H1'	1:C1:1569:A:C6	2.49	0.46
1:C1:1588:G:H1	1:C1:1608:U:H3	1.62	0.46
11:CJ:83:GLN:O	11:CJ:84:ALA:C	2.53	0.46
1:A1:1196:A:O4'	1:A1:1196:A:N3	2.48	0.46
1:A1:1240:U:P	1:A1:1241:G:OP2	2.73	0.46
1:A1:1242:A:H5''	1:A1:1243:G:OP2	2.14	0.46
1:A1:1497:U:C4	1:A1:1511:U:O2	2.69	0.46
30:B2:92:A:O2'	30:B2:93:C:C4'	2.63	0.46
29:B1:3213:A:O2'	29:B1:3214:U:C6	2.67	0.46
29:D1:396:A:H2	29:D1:399:A:C4	2.33	0.46
29:B1:1281:G:C6	29:B1:1282:G:C8	3.03	0.46
29:D1:3284:G:H2'	29:D1:3285:C:C6	2.50	0.46
30:D2:48:U:C2'	30:D2:49:G:N7	2.78	0.46
29:D1:1245:A:OP2	29:D1:1247:U:OP1	2.33	0.46
29:D1:1256:G:C6	29:D1:1261:G:N2	2.83	0.46
1:C1:1407:U:H2'	1:C1:1408:G:O4'	2.15	0.46
1:C1:1650:U:O2	1:C1:1650:U:H2'	2.15	0.46
29:D1:2236:G:C5	29:D1:2237:C:C5	3.03	0.46
1:C1:1749:A:C2'	1:C1:1750:A:O5'	2.64	0.46
29:B1:1509:A:N6	29:B1:1510:G:C2	2.83	0.46
1:A1:1330:G:C4	1:A1:1331:A:N7	2.83	0.46
1:A1:900:A:C4'	1:A1:916:U:H1'	2.44	0.46
1:C1:896:U:C5	1:C1:897:C:C4	3.03	0.46
29:D1:3:U:O4	31:D3:157:U:O4	2.34	0.46
1:A1:354:C:C2'	1:A1:355:G:H5'	2.44	0.46
29:D1:1718:G:C2'	29:D1:1719:G:H5'	2.46	0.46
1:A1:716:C:H2'	1:A1:717:C:C1'	2.45	0.46
1:C1:1660:A:H2'	1:C1:1661:U:O4'	2.16	0.46
41:BJ:69:ARG:O	41:BJ:70:ILE:O	2.33	0.46
14:CM:125:SER:O	14:CM:128:GLY:HA2	2.15	0.46
14:AM:125:SER:O	14:AM:128:GLY:HA2	2.15	0.46
29:B1:1815:U:H3'	29:B1:1816:A:C5'	2.45	0.46
29:B1:1818:U:H2'	29:B1:1819:U:N3	2.29	0.46
29:B1:3049:A:H5'	29:B1:3050:U:OP2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DB:115:ASN:O	33:DB:125:ALA:HB3	2.15	0.46
29:B1:173:G:H2'	29:B1:174:C:N1	2.28	0.46
29:D1:1050:U:O2	29:D1:1051:U:C5	2.68	0.46
29:B1:1007:U:OP1	29:B1:1007:U:H4'	2.15	0.46
16:AO:85:ASP:O	16:AO:86:ILE:C	2.53	0.46
2:CA:84:ARG:O	2:CA:86:VAL:N	2.48	0.46
29:B1:136:G:N3	29:B1:136:G:H2'	2.29	0.46
49:BT:15:PHE:O	49:BT:16:GLN:O	2.34	0.46
29:D1:180:C:O2'	29:D1:181:U:H5'	2.14	0.46
1:A1:1276:U:OP1	4:AC:147:ALA:HB2	2.16	0.46
29:B1:1768:U:C2	29:B1:1769:G:C8	3.03	0.46
39:BH:152:LEU:HA	39:BH:178:ALA:HB3	1.97	0.46
55:DZ:82:GLY:O	55:DZ:84:LEU:N	2.48	0.46
34:DC:145:GLU:HA	34:DC:149:ALA:H	1.81	0.46
50:DU:121:GLU:O	50:DU:123:ALA:N	2.48	0.46
29:B1:1397:C:C4	29:B1:1398:U:C4	3.03	0.46
44:BO:100:ALA:O	44:BO:101:THR:C	2.52	0.46
38:BG:104:GLN:O	38:BG:107:ARG:HA	2.15	0.46
38:BG:105:LEU:C	38:BG:107:ARG:H	2.19	0.46
29:B1:2400:G:C1'	29:B1:2401:A:OP1	2.63	0.46
3:AB:231:ALA:HB1	3:AB:234:PRO:CB	2.45	0.46
21:CT:19:TRP:O	21:CT:38:ARG:N	2.33	0.46
39:BH:122:LYS:C	39:BH:124:ASP:H	2.18	0.46
41:DJ:24:ARG:O	41:DJ:25:ALA:HB2	2.16	0.46
32:BA:128:LEU:O	32:BA:131:ALA:HB3	2.15	0.46
29:D1:903:U:O2	29:D1:903:U:H2'	2.15	0.46
3:CB:99:LYS:CB	3:CB:117:THR:HA	2.44	0.46
13:CL:105:VAL:O	13:CL:106:GLU:C	2.53	0.46
1:A1:104:A:C6	1:A1:106:U:C2	3.04	0.46
1:A1:1096:C:O2	1:A1:1096:C:C2'	2.63	0.46
1:A1:1673:G:C8	1:A1:1674:C:C5	3.04	0.46
1:A1:1654:G:C2	1:A1:1745:G:C4	3.02	0.46
1:A1:365:G:O6	1:A1:377:G:O6	2.33	0.46
1:A1:429:G:H5''	1:A1:439:U:C3'	2.45	0.46
1:A1:446:A:O2'	1:A1:447:U:H5'	2.15	0.46
1:A1:627:C:N4	1:A1:628:G:C6	2.83	0.46
1:A1:866:G:H2'	1:A1:867:G:H8	1.81	0.46
1:A1:986:G:O5'	1:A1:986:G:H8	1.98	0.46
1:A1:985:G:O6	1:A1:986:G:O6	2.33	0.46
29:B1:1440:G:C2'	29:B1:1441:G:H5'	2.45	0.46
29:B1:1505:C:H5''	29:B1:1505:C:H6	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1556:C:O2	29:B1:1556:C:H2'	2.14	0.46
29:B1:1558:A:C8	29:B1:1558:A:OP2	2.68	0.46
29:B1:1562:C:H2'	29:B1:1563:C:H6	1.80	0.46
29:B1:1688:U:H3'	29:B1:1689:U:H5	1.81	0.46
29:B1:1890:U:N3	29:B1:1891:A:N7	2.63	0.46
29:B1:1907:C:C6	29:B1:1907:C:C3'	2.98	0.46
29:B1:2149:A:H62	29:B1:2187:G:H21	1.62	0.46
29:B1:2223:A:N3	29:B1:2224:A:C4	2.83	0.46
29:B1:2196:C:N4	29:B1:2242:A:C8	2.83	0.46
29:B1:2249:G:C2	29:B1:2272:G:O6	2.68	0.46
29:B1:2716:U:O2	29:B1:2716:U:C2'	2.58	0.46
29:B1:2717:U:C4	29:B1:2740:A:C6	3.03	0.46
29:B1:2876:C:H2'	29:B1:2877:G:C5'	2.45	0.46
29:B1:286:U:O2'	29:B1:287:G:O4'	2.26	0.46
29:B1:3141:A:C5'	29:B1:3143:C:H2'	2.45	0.46
29:B1:3141:A:H2'	29:B1:3141:A:OP1	2.15	0.46
29:B1:3142:A:H1'	29:B1:3144:G:N7	2.30	0.46
29:B1:3330:A:C5	29:B1:3331:U:C4	3.04	0.46
29:B1:347:G:C6	29:B1:348:A:N6	2.83	0.46
29:B1:44:U:H5	29:B1:45:A:C5	2.33	0.46
29:B1:47:C:C4	29:B1:48:A:C6	3.03	0.46
29:B1:532:A:N1	29:B1:533:A:C2	2.84	0.46
29:B1:687:U:C2'	29:B1:688:G:O5'	2.64	0.46
29:B1:757:C:N4	29:B1:758:C:C4	2.83	0.46
29:B1:77:A:H2'	29:B1:78:U:O5'	2.15	0.46
29:B1:9:U:O2	29:B1:9:U:C3'	2.62	0.46
37:BF:143:LYS:O	37:BF:146:ILE:CB	2.64	0.46
37:BF:157:GLN:O	37:BF:159:LEU:N	2.46	0.46
29:B1:199:A:OP1	53:BX:60:ARG:O	2.33	0.46
1:C1:1012:U:H2'	1:C1:1013:A:O4'	2.15	0.46
1:C1:1016:C:C2'	1:C1:1017:U:H5'	2.46	0.46
1:C1:1073:G:C6	1:C1:1074:G:C2	3.03	0.46
1:C1:1086:A:C8	1:C1:1087:A:N7	2.84	0.46
1:C1:1672:G:C6	1:C1:1673:G:O6	2.68	0.46
1:C1:1671:A:C2	1:C1:1672:G:H1'	2.50	0.46
1:C1:173:A:N3	1:C1:174:U:C1'	2.78	0.46
1:C1:1758:U:C5'	1:C1:1759:C:OP2	2.63	0.46
1:C1:39:A:C4	1:C1:467:G:N2	2.84	0.46
1:C1:607:G:C8	1:C1:613:G:C4	3.03	0.46
1:C1:81:G:H2'	1:C1:82:U:O5'	2.16	0.46
3:CB:206:THR:O	3:CB:207:LEU:C	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1119:C:C2	29:D1:1120:A:C8	3.03	0.46
29:D1:1180:A:C4	29:D1:1182:A:N9	2.83	0.46
29:D1:1196:C:O2	30:D2:86:U:C1'	2.64	0.46
29:D1:1315:U:HO2'	29:D1:1316:C:C5'	2.27	0.46
29:D1:1464:G:N2	29:D1:1466:G:O5'	2.47	0.46
29:D1:1565:G:H2'	29:D1:1565:G:N3	2.30	0.46
29:D1:1605:A:C4	29:D1:1608:C:C5	3.04	0.46
29:D1:1779:C:P	29:D1:1780:G:H8	2.38	0.46
29:D1:2150:G:C6	29:D1:2151:C:C4	3.03	0.46
29:D1:2221:G:C8	29:D1:2221:G:C3'	2.98	0.46
29:D1:2262:A:C5'	29:D1:2263:C:OP2	2.63	0.46
29:D1:2607:G:C5	29:D1:2608:G:N7	2.83	0.46
29:D1:2661:G:H5'	29:D1:2749:G:H21	1.80	0.46
29:D1:2761:G:C2	29:D1:2795:U:C6	3.03	0.46
29:D1:2830:G:H2'	29:D1:2831:G:O5'	2.15	0.46
29:D1:2830:G:H2'	29:D1:2831:G:H8	1.80	0.46
29:D1:2841:G:N2	29:D1:2898:G:N1	2.64	0.46
29:D1:2948:C:C6	29:D1:2948:C:H5''	2.51	0.46
29:D1:3055:U:H5''	29:D1:3056:U:C5	2.51	0.46
29:D1:3377:G:C2	74:D1:3452:OHX:N6	2.83	0.46
29:D1:34:A:H2'	29:D1:35:A:O4'	2.15	0.46
29:D1:347:G:N2	29:D1:353:G:N9	2.63	0.46
29:D1:539:C:H2'	29:D1:540:U:C6	2.50	0.46
29:D1:55:G:HO2'	29:D1:56:G:P	2.38	0.46
29:D1:712:G:C5	29:D1:713:U:C5	3.04	0.46
31:D3:54:A:H2'	31:D3:55:U:C5'	2.45	0.46
31:D3:56:G:C2	31:D3:57:C:C2	3.03	0.46
30:B2:111:U:O3'	30:B2:112:G:H4'	2.16	0.46
30:B2:66:A:C5	30:B2:67:G:C8	3.03	0.46
31:B3:49:G:O6	31:B3:80:A:C2	2.68	0.46
31:B3:75:G:P	31:B3:90:U:C5'	3.03	0.46
1:A1:192:U:N3	1:A1:195:G:O6	2.47	0.46
49:DT:28:SER:O	49:DT:31:LEU:N	2.47	0.46
1:C1:1681:A:C8	1:C1:1682:U:C2	3.04	0.46
1:C1:252:U:HO2'	1:C1:253:A:C5'	2.25	0.46
1:A1:1682:U:O2	1:A1:1683:C:C4	2.69	0.46
1:A1:1691:A:N6	1:A1:1713:G:C2	2.84	0.46
1:A1:243:G:C4	1:A1:251:A:N1	2.83	0.46
1:C1:1201:G:OP2	1:C1:1201:G:C4	2.68	0.46
1:C1:1374:C:C5	1:C1:1375:A:C6	3.04	0.46
1:C1:1523:G:H3'	1:C1:1524:A:H5''	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1558:U:C6	1:C1:1559:A:N3	2.83	0.46
11:CJ:28:LEU:CA	14:CM:1:MET:HA	2.45	0.46
1:A1:1201:G:C4	1:A1:1201:G:OP2	2.68	0.46
1:A1:1270:G:C6	1:A1:1271:G:N7	2.84	0.46
1:A1:1528:U:H2'	1:A1:1529:C:C6	2.50	0.46
1:A1:1535:U:OP1	1:A1:1536:G:C5	2.68	0.46
1:C1:1051:G:N3	1:C1:1052:U:N3	2.63	0.46
29:D1:1183:C:C2'	29:D1:1183:C:O2	2.63	0.46
29:D1:3253:G:H5''	29:D1:3254:G:OP2	2.15	0.46
29:D1:191:U:C2'	29:D1:191:U:O2	2.62	0.46
29:D1:211:A:H5'	29:D1:229:G:C1'	2.45	0.46
29:B1:2215:A:C2	29:B1:2216:G:C1'	2.98	0.46
29:D1:3241:G:N2	29:D1:3246:G:N1	2.62	0.46
29:B1:339:C:O2'	29:B1:340:C:H5''	2.14	0.46
29:D1:2215:A:N3	29:D1:2216:G:C8	2.83	0.46
29:D1:2206:G:N2	29:D1:2238:G:H1'	2.30	0.46
29:D1:2432:A:H2	44:DO:125:SER:CB	2.27	0.46
29:D1:2513:U:O4	29:D1:2592:G:H1'	2.15	0.46
29:D1:2513:U:C4	29:D1:2592:G:N3	2.84	0.46
1:A1:1416:G:C6	1:A1:1417:A:C5	3.04	0.46
29:B1:1730:G:C6	55:BZ:26:GLY:HA2	2.51	0.46
30:D2:88:G:C6	30:D2:89:G:N7	2.82	0.46
30:D2:2:G:C2	30:D2:3:U:C6	3.03	0.46
9:AH:57:PRO:CB	9:AH:60:ALA:HB3	2.45	0.46
34:BC:159:ARG:CA	34:BC:181:ILE:O	2.64	0.46
11:AJ:92:TYR:N	11:AJ:93:HIS:HA	2.29	0.46
1:C1:783:G:H2'	1:C1:784:C:H6	1.80	0.46
1:C1:1276:U:O2'	1:C1:1277:G:H5'	2.16	0.46
29:D1:1020:G:C6	29:D1:1021:G:C5	3.04	0.46
1:A1:235:G:H8	1:A1:235:G:OP2	1.98	0.46
17:CP:123:LYS:O	17:CP:124:VAL:O	2.33	0.46
34:DC:159:ARG:CB	34:DC:181:ILE:O	2.63	0.46
20:AS:37:ASN:CB	20:AS:38:ILE:CA	2.90	0.46
29:D1:1357:G:C2	29:D1:1358:C:C2	3.03	0.46
35:BD:115:HIS:O	35:BD:116:ASN:C	2.53	0.46
32:BA:55:LEU:HA	32:BA:167:VAL:HA	1.96	0.46
29:D1:1811:G:N1	29:D1:1812:G:C8	2.83	0.46
29:B1:1869:C:H2'	29:B1:1869:C:O2	2.15	0.46
2:CA:84:ARG:C	2:CA:86:VAL:N	2.69	0.46
21:CT:240:VAL:O	21:CT:241:PHE:O	2.33	0.46
21:CT:53:LYS:C	21:CT:55:GLY:N	2.67	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:136:G:OP2	29:B1:136:G:H8	1.98	0.46
44:BO:148:TYR:C	44:BO:150:TRP:N	2.69	0.46
45:BP:25:LYS:C	45:BP:27:LEU:N	2.67	0.46
3:AB:59:HIS:CB	3:AB:61:LEU:H	2.28	0.46
38:BG:179:LEU:O	38:BG:180:SER:CB	2.63	0.46
47:BR:34:THR:O	47:BR:36:LEU:O	2.33	0.46
3:CB:66:PHE:C	3:CB:68:ILE:N	2.68	0.46
46:BQ:103:GLU:O	46:BQ:106:GLY:HA2	2.15	0.46
8:CG:117:LEU:C	8:CG:119:GLU:N	2.65	0.46
5:AD:65:ARG:CB	5:AD:87:CYS:CB	2.94	0.46
5:CD:46:TRP:O	5:CD:47:SER:O	2.33	0.46
45:BP:37:ARG:HA	45:BP:107:GLY:HA2	1.97	0.46
52:DW:127:THR:O	52:DW:129:ASP:N	2.48	0.46
43:DN:104:ALA:H	43:DN:106:ARG:H	1.63	0.46
44:DO:136:ASP:O	44:DO:139:HIS:CB	2.63	0.46
1:A1:308:C:H4'	1:A1:309:C:OP1	2.14	0.46
52:BW:105:VAL:O	52:BW:106:ASP:CB	2.63	0.46
53:DX:24:SER:O	53:DX:26:GLN:N	2.48	0.46
45:DP:10:ASP:O	45:DP:11:GLY:C	2.53	0.46
48:BS:134:HIS:O	48:BS:136:ARG:N	2.49	0.46
36:DE:288:ALA:HB1	36:DE:292:ALA:C	2.35	0.46
1:A1:1045:C:O2'	1:A1:1046:G:P	2.73	0.46
1:A1:1120:U:O2	1:A1:1121:C:C6	2.68	0.46
1:A1:1776:A:C6	1:A1:1786:G:C6	3.04	0.46
1:A1:390:G:N2	1:A1:407:A:N6	2.63	0.46
1:A1:397:A:N6	1:A1:398:G:N1	2.64	0.46
1:A1:44:U:C3'	1:A1:45:U:C5'	2.93	0.46
1:A1:820:U:C2'	1:A1:821:U:O5'	2.62	0.46
29:B1:114:A:H2'	29:B1:115:A:O4'	2.15	0.46
29:B1:1179:A:C8	29:B1:1179:A:C3'	2.99	0.46
29:B1:1292:C:C2'	29:B1:1293:U:H5'	2.46	0.46
29:B1:1690:C:C4	29:B1:1691:U:C4	3.03	0.46
29:B1:1870:C:H2'	29:B1:1871:U:O4'	2.15	0.46
29:B1:2290:C:N3	29:B1:2303:A:C2	2.83	0.46
29:B1:2386:A:N7	29:B1:2387:A:C8	2.83	0.46
29:B1:258:G:HO2'	29:B1:259:C:P	2.37	0.46
29:B1:264:G:C4	29:B1:265:A:C5	3.04	0.46
29:B1:279:U:P	74:B1:3536:OHX:N1	2.89	0.46
29:B1:2895:G:H2'	29:B1:2896:A:H5''	1.97	0.46
29:B1:2899:C:H42	40:BI:173:ARG:CB	2.27	0.46
29:B1:3104:U:O4	29:B1:3128:G:H2'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1942:U:C1'	29:B1:3342:A:H2	2.29	0.46
29:B1:3367:C:H2'	29:B1:3368:U:C6	2.51	0.46
29:B1:3376:A:C5'	29:B1:3376:A:N3	2.71	0.46
29:B1:3394:U:O2'	29:B1:3395:G:C8	2.66	0.46
29:B1:543:C:N4	29:B1:544:C:C2	2.84	0.46
29:B1:643:U:O4	29:B1:644:G:C6	2.69	0.46
29:B1:644:G:O6	29:B1:2817:A:OP1	2.34	0.46
29:B1:688:G:C5	29:B1:690:A:N7	2.84	0.46
29:B1:759:U:C2	29:B1:773:G:C6	3.03	0.46
29:B1:835:G:O2'	29:B1:836:A:OP2	2.34	0.46
29:B1:88:A:C5	29:B1:99:A:C6	3.04	0.46
29:B1:918:C:H2'	29:B1:919:U:O4'	2.16	0.46
29:B1:952:A:H1'	29:B1:1114:U:HO2'	1.80	0.46
1:C1:1002:G:C5	1:C1:1003:A:C2	3.03	0.46
1:C1:1075:C:N3	1:C1:1076:A:C2	2.83	0.46
1:C1:166:C:C4	1:C1:167:U:C4	3.04	0.46
1:C1:169:A:N9	1:C1:171:A:N7	2.63	0.46
1:C1:379:U:C2	1:C1:380:U:C5	3.03	0.46
1:C1:461:G:C4	1:C1:462:G:C8	3.04	0.46
1:C1:607:G:H4'	1:C1:608:U:C5'	2.46	0.46
1:C1:817:A:H2'	1:C1:818:C:C6	2.50	0.46
1:C1:820:U:HO2'	1:C1:821:U:P	2.37	0.46
1:C1:986:G:HO2'	1:C1:987:G:P	2.38	0.46
29:D1:1205:A:H5''	29:D1:1206:G:OP2	2.16	0.46
29:D1:1289:G:C2	29:D1:1290:A:C4	3.02	0.46
29:D1:1605:A:C5	29:D1:1608:C:C4	3.04	0.46
29:D1:1873:U:O2'	29:D1:1874:A:H5'	2.15	0.46
29:D1:2191:U:O4	29:D1:2192:C:N4	2.49	0.46
29:D1:2249:G:N7	74:D1:3464:OHX:N3	2.64	0.46
29:D1:2249:G:C4	29:D1:2272:G:N7	2.84	0.46
29:D1:2631:U:C2'	29:D1:2632:G:H5'	2.45	0.46
29:D1:2712:U:H2'	29:D1:2713:U:O5'	2.14	0.46
29:D1:2725:U:C4	29:D1:2727:A:C4	3.03	0.46
29:D1:2714:G:C2	29:D1:2751:G:N1	2.83	0.46
29:D1:2822:U:C2'	29:D1:2823:G:O5'	2.63	0.46
29:D1:2859:U:H4'	29:D1:2860:U:OP1	2.13	0.46
29:D1:3032:A:H3'	29:D1:3032:A:C8	2.51	0.46
29:D1:3157:U:H3	29:D1:3293:U:C1'	2.27	0.46
29:D1:31:C:H2'	29:D1:32:U:O4'	2.15	0.46
29:D1:112:U:C4	29:D1:320:G:N1	2.83	0.46
29:D1:3364:C:H2'	29:D1:3365:U:H6	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3379:C:H2'	29:D1:3380:U:O4'	2.14	0.46
29:D1:3394:U:C2'	29:D1:3395:G:N7	2.75	0.46
29:D1:2255:A:O4'	74:D1:3415:OHX:N4	2.49	0.46
29:D1:344:A:C5	29:D1:345:G:N7	2.83	0.46
29:D1:422:A:N9	29:D1:423:A:H5''	2.31	0.46
29:D1:536:U:H4'	29:D1:537:A:H5''	1.97	0.46
29:D1:588:G:C4	29:D1:612:U:C5	3.03	0.46
29:D1:737:G:N3	29:D1:738:A:C8	2.83	0.46
29:D1:762:U:C2	29:D1:770:G:N2	2.83	0.46
29:D1:762:U:OP1	29:D1:763:G:P	2.74	0.46
29:D1:780:A:N1	29:D1:781:G:C4	2.83	0.46
29:D1:844:G:H5''	29:D1:845:G:P	2.55	0.46
29:D1:86:G:H4'	29:D1:86:G:OP1	2.15	0.46
29:D1:965:A:N6	29:D1:966:U:N3	2.63	0.46
31:D3:113:U:O2'	31:D3:114:G:OP1	2.31	0.46
31:D3:3:A:C8	31:D3:3:A:C3'	2.98	0.46
31:D3:74:U:O4'	31:D3:74:U:O2	2.34	0.46
31:D3:74:U:C4	31:D3:77:A:OP1	2.68	0.46
35:DD:69:ARG:O	35:DD:70:ALA:HB3	2.14	0.46
31:D3:77:A:H61	53:DX:81:GLN:CB	2.29	0.46
1:A1:828:U:C4	1:A1:829:A:N6	2.84	0.46
1:A1:824:G:C6	1:A1:850:A:C2	3.03	0.46
1:C1:648:G:C2	1:C1:649:U:C5	3.03	0.46
1:C1:651:G:N2	1:C1:652:G:C6	2.83	0.46
1:C1:809:A:C2	1:C1:810:G:C2	3.03	0.46
29:B1:2761:G:O6	29:B1:2796:G:H5''	2.15	0.46
29:B1:2794:G:C2	29:B1:2795:U:C2	3.03	0.46
29:B1:997:A:O2'	30:B2:102:A:N1	2.40	0.46
30:B2:66:A:P	30:B2:66:A:H8	2.37	0.46
31:B3:69:U:P	31:B3:70:G:OP2	2.73	0.46
31:B3:97:A:H2'	31:B3:98:U:H5'	1.98	0.46
1:A1:151:G:N2	1:A1:163:G:N2	2.64	0.46
1:A1:175:G:O5'	1:A1:175:G:H8	1.98	0.46
1:A1:265:A:N7	1:A1:290:G:C2	2.83	0.46
1:A1:72:A:N1	1:A1:81:G:O6	2.49	0.46
1:A1:1683:C:OP2	1:A1:1684:U:P	2.74	0.46
1:A1:1722:A:H3'	1:A1:1723:U:H6	1.80	0.46
1:A1:243:G:N3	1:A1:244:A:C8	2.83	0.46
1:A1:111:U:C6	1:A1:304:U:O4	2.69	0.46
1:A1:752:A:N6	1:A1:753:A:N6	2.63	0.46
1:C1:1267:G:C2'	1:C1:1268:G:H5'	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1486:G:H2'	1:C1:1487:A:O4'	2.15	0.46
1:C1:1520:U:C4	74:C1:1930:OHX:N1	2.84	0.46
1:C1:1602:C:C5'	1:C1:1603:U:OP2	2.63	0.46
1:C1:1612:U:O4	1:C1:1613:U:C6	2.68	0.46
1:A1:1155:G:C4	1:A1:1156:C:C5	3.03	0.46
1:A1:1181:U:C2	1:A1:1182:U:C6	3.03	0.46
1:A1:1240:U:H2'	1:A1:1241:G:C5'	2.17	0.46
1:A1:1244:A:C2	1:A1:1245:G:C1'	2.87	0.46
1:A1:1493:A:OP2	1:A1:1494:C:P	2.74	0.46
1:A1:1538:U:H2'	1:A1:1539:G:H3'	1.96	0.46
1:A1:1470:C:H3'	1:A1:1573:A:H62	1.80	0.46
1:A1:1607:G:C4	1:A1:1608:U:C5	3.03	0.46
29:D1:1184:A:H2'	29:D1:1185:C:C6	2.50	0.46
29:B1:3022:G:HO2'	29:B1:3023:U:P	2.27	0.46
29:B1:1236:G:H3'	29:B1:1237:G:C4'	2.37	0.46
29:B1:1596:C:C2	29:B1:1597:C:C5	3.03	0.46
31:B3:125:U:C4	74:B3:206:OHX:N6	2.84	0.46
29:D1:1236:G:H1'	29:D1:1245:A:H1'	1.96	0.46
29:D1:1271:A:N6	29:D1:1272:C:H42	2.13	0.46
72:DL:131:GLU:O	72:DL:133:LEU:N	2.48	0.46
9:CH:13:VAL:N	9:CH:14:PHE:CB	2.78	0.46
9:CH:25:ASP:O	9:CH:26:THR:CB	2.63	0.46
29:D1:1063:G:OP1	29:D1:1063:G:C4	2.68	0.46
29:D1:983:A:N1	29:D1:985:U:O4	2.49	0.46
29:D1:986:U:H2'	29:D1:987:U:C6	2.46	0.46
1:C1:1294:G:N2	1:C1:1295:G:C4	2.84	0.46
46:DQ:76:PHE:CB	46:DQ:77:GLY:HA2	2.45	0.46
1:A1:947:U:H2'	1:A1:948:G:C8	2.50	0.46
1:A1:1751:C:O2	1:A1:1751:C:C2'	2.62	0.46
29:D1:2591:A:C2	29:D1:2592:G:C1'	2.99	0.46
29:D1:2096:A:OP2	29:D1:2097:U:OP2	2.33	0.46
16:AO:29:PRO:O	16:AO:30:SER:CB	2.63	0.46
29:D1:1687:U:H2'	29:D1:1688:U:O2'	2.15	0.46
1:A1:896:U:H2'	1:A1:897:C:O4'	2.15	0.46
36:DE:109:THR:C	36:DE:252:ALA:HB2	2.35	0.46
1:C1:1092:A:N9	1:C1:1094:G:C8	2.84	0.46
29:B1:1668:G:C2'	29:B1:1669:C:H5'	2.45	0.46
43:DN:33:ALA:HA	43:DN:48:GLY:CA	2.45	0.46
29:D1:1933:A:N7	29:D1:1934:G:N7	2.63	0.46
5:CD:164:PRO:O	5:CD:167:ARG:N	2.48	0.46
29:D1:2561:A:H8	29:D1:2561:A:OP1	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1728:G:O2'	55:DZ:86:ARG:O	2.33	0.46
1:C1:1021:C:O2	1:C1:1021:C:C2'	2.62	0.46
1:C1:1125:A:N7	1:C1:1126:G:H1'	2.31	0.46
5:AD:143:ARG:O	5:AD:144:GLU:CB	2.62	0.46
29:B1:366:A:N6	29:B1:367:A:N1	2.61	0.46
1:C1:1297:G:N2	1:C1:1301:U:C6	2.84	0.46
1:A1:1358:G:N1	1:A1:1359:C:C4	2.83	0.46
29:D1:802:C:C2	29:D1:803:C:C5	3.03	0.46
29:B1:3032:A:H4'	29:B1:3032:A:OP1	2.14	0.46
1:A1:748:U:C4'	16:AO:123:GLY:HA2	2.46	0.46
1:A1:807:A:C8	1:A1:807:A:H5'	2.50	0.46
29:D1:2965:U:C2'	29:D1:2966:G:H5'	2.46	0.46
29:B1:271:C:N4	29:B1:295:A:C8	2.83	0.46
3:CB:122:ALA:O	3:CB:123:GLY:C	2.53	0.46
35:BD:117:GLU:C	35:BD:119:ARG:N	2.69	0.46
52:BW:56:ARG:HA	52:BW:57:LEU:HA	1.58	0.46
47:DR:49:LEU:C	47:DR:51:ALA:N	2.68	0.46
1:C1:710:U:C4	1:C1:729:G:C6	3.04	0.46
72:DL:23:GLY:C	72:DL:25:SER:H	2.19	0.46
29:B1:1305:U:O2'	29:B1:1306:G:C8	2.69	0.46
73:DM:85:GLY:O	73:DM:86:PHE:O	2.34	0.46
48:BS:59:SER:C	48:BS:61:SER:N	2.69	0.46
9:CH:88:GLY:HA2	9:CH:89:THR:HA	1.61	0.46
3:AB:243:TYR:O	3:AB:245:ASP:N	2.48	0.46
15:CN:25:THR:H	15:CN:115:GLU:CB	2.28	0.46
36:DE:192:PRO:O	36:DE:193:GLU:C	2.54	0.46
8:CG:129:TYR:C	8:CG:131:THR:H	2.19	0.46
29:D1:1699:A:H2'	29:D1:1700:G:H8	1.79	0.46
45:DP:130:LYS:HA	45:DP:131:PRO:CB	2.44	0.46
39:BH:232:HIS:O	39:BH:233:TRP:CB	2.62	0.46
21:AT:99:THR:O	21:AT:100:TYR:O	2.33	0.46
44:BO:137:PRO:C	44:BO:139:HIS:H	2.19	0.46
15:AN:32:LYS:C	15:AN:34:LEU:H	2.18	0.46
18:CQ:80:LEU:C	18:CQ:82:HIS:N	2.69	0.46
6:CE:117:GLY:HA3	6:CE:179:ARG:CB	2.45	0.46
21:AT:175:ASP:O	21:AT:176:LYS:CB	2.64	0.46
16:CO:4:SER:O	16:CO:5:SER:CB	2.64	0.46
54:BY:70:LYS:O	54:BY:112:ILE:HA	2.15	0.46
4:CC:125:TYR:HA	4:CC:128:GLU:CB	2.45	0.46
1:A1:1030:A:H3'	1:A1:1031:U:C5'	2.38	0.46
1:A1:1151:A:C4	1:A1:1152:A:C8	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:14:C:OP1	3:AB:163:GLY:N	2.49	0.46
1:A1:1671:A:C8	1:A1:1731:A:C6	3.03	0.46
1:A1:1744:A:C2'	1:A1:1745:G:H5'	2.45	0.46
1:A1:1760:G:C4	1:A1:1761:U:C5	2.98	0.46
1:A1:378:A:H2'	1:A1:379:U:O5'	2.16	0.46
1:A1:381:C:N3	1:A1:382:C:C5	2.84	0.46
1:A1:384:G:C6	1:A1:385:A:C6	3.04	0.46
1:A1:488:G:O2'	1:A1:489:C:C6	2.66	0.46
1:A1:607:G:H4'	1:A1:608:U:OP2	2.14	0.46
1:A1:615:A:C2	1:A1:616:G:C8	3.04	0.46
1:A1:820:U:HO2'	1:A1:821:U:P	2.38	0.46
1:A1:985:G:H2'	1:A1:986:G:C8	2.49	0.46
29:B1:1128:U:O2	29:B1:1129:A:C1'	2.64	0.46
29:B1:1140:G:C2	29:B1:1141:C:C4	3.04	0.46
29:B1:1145:G:N2	29:B1:1160:C:O4'	2.48	0.46
29:B1:1166:G:C3'	29:B1:1167:U:H5''	2.46	0.46
29:B1:115:A:C4	29:B1:116:A:N1	2.83	0.46
29:B1:1319:G:C4	29:B1:1320:C:C5	3.04	0.46
29:B1:1413:G:N3	29:B1:1413:G:H2'	2.31	0.46
29:B1:1390:A:C5	29:B1:1418:A:C6	3.03	0.46
29:B1:1677:G:C5	29:B1:1678:G:N7	2.83	0.46
29:B1:1490:A:N6	29:B1:1838:G:H1'	2.31	0.46
29:B1:1901:A:H5''	29:B1:1902:G:OP2	2.14	0.46
29:B1:2289:U:N3	29:B1:2290:C:C5	2.84	0.46
29:B1:2300:G:C2	29:B1:2301:U:C2	3.04	0.46
29:B1:1448:U:O4	29:B1:2355:G:N3	2.48	0.46
29:B1:2783:U:C2'	29:B1:2784:G:O5'	2.63	0.46
29:B1:2813:A:C6	29:B1:2814:G:C5	3.03	0.46
29:B1:2821:C:H2'	29:B1:2822:U:H5'	1.97	0.46
29:B1:2852:C:C5	29:B1:2853:A:C5	3.03	0.46
29:B1:2893:C:C2'	29:B1:2894:C:O5'	2.63	0.46
29:B1:2960:C:H2'	29:B1:2961:G:C8	2.50	0.46
29:B1:3060:C:H2'	29:B1:3061:G:O5'	2.15	0.46
29:B1:3136:G:C2	29:B1:3137:C:C6	3.03	0.46
29:B1:3316:A:N6	29:B1:3320:A:C6	2.67	0.46
29:B1:3325:G:C2'	29:B1:3326:G:O4'	2.63	0.46
29:B1:346:C:C5	29:B1:348:A:C8	3.04	0.46
29:B1:429:U:H2'	29:B1:430:U:C6	2.50	0.46
29:B1:594:U:C6	29:B1:609:G:N2	2.71	0.46
29:B1:643:U:C4	29:B1:644:G:C5	3.03	0.46
29:B1:650:C:H2'	29:B1:650:C:O2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:683:U:H2'	29:B1:684:G:C5'	2.45	0.46
29:B1:68:C:C4	29:B1:76:G:N2	2.84	0.46
29:B1:809:G:H2'	29:B1:810:A:H8	1.81	0.46
29:B1:8:C:C2	29:B1:9:U:C5	3.01	0.46
29:B1:807:A:N6	29:B1:934:G:H1	2.13	0.46
29:B1:974:G:N3	29:B1:975:C:C6	2.84	0.46
1:C1:994:G:C6	1:C1:1011:G:N2	2.84	0.46
1:C1:1119:G:C5	1:C1:1120:U:C5	3.04	0.46
1:C1:1636:C:N4	1:C1:1638:G:N2	2.64	0.46
1:C1:170:U:C3'	1:C1:171:A:C5'	2.94	0.46
1:C1:1764:C:OP2	1:C1:1771:U:H5''	2.15	0.46
1:C1:198:A:H1'	1:C1:199:G:P	2.54	0.46
1:C1:287:G:O6	1:C1:288:A:C6	2.69	0.46
1:C1:287:G:H2'	1:C1:288:A:H5'	1.96	0.46
1:C1:389:G:C6	1:C1:390:G:C6	3.03	0.46
1:C1:427:C:O2'	1:C1:428:A:O4'	2.24	0.46
1:C1:514:G:C5	1:C1:515:A:N7	2.83	0.46
1:C1:866:G:H2'	1:C1:867:G:H8	1.80	0.46
1:C1:43:A:H4'	1:C1:99:C:P	2.56	0.46
29:D1:1212:A:C3'	29:D1:1213:G:C5'	2.91	0.46
29:D1:1311:G:O2'	29:D1:2381:G:H4'	2.15	0.46
29:D1:1326:A:C2	29:D1:1327:C:C2	3.04	0.46
29:D1:656:A:C6	29:D1:1440:G:N1	2.83	0.46
29:D1:1488:G:H5'	29:D1:1838:G:O6	2.16	0.46
29:D1:1556:C:O2'	29:D1:1557:A:OP2	2.32	0.46
29:D1:1653:G:H2'	29:D1:1654:A:C5'	2.35	0.46
29:D1:1495:U:N1	29:D1:1842:A:C2	2.84	0.46
29:D1:1881:A:C6	29:D1:2352:A:C6	3.03	0.46
29:D1:1907:C:C6	29:D1:1907:C:C3'	2.99	0.46
29:D1:1939:G:C2'	29:D1:1940:G:C5'	2.88	0.46
29:D1:2253:G:H3'	29:D1:2254:U:H6	1.75	0.46
29:D1:2259:A:C6	29:D1:2260:U:C2	3.03	0.46
29:D1:2270:A:C2'	29:D1:2271:A:C8	2.93	0.46
29:D1:2283:G:H1'	29:D1:2284:C:H5	1.79	0.46
29:D1:1895:A:N1	29:D1:2341:A:C6	2.84	0.46
29:D1:2357:A:H2'	29:D1:2358:A:O5'	2.16	0.46
29:D1:808:A:O2'	29:D1:2413:A:H5'	2.15	0.46
29:D1:2730:G:N2	29:D1:2731:U:H1'	2.31	0.46
29:D1:2761:G:N2	29:D1:2795:U:C6	2.84	0.46
29:D1:282:G:N3	29:D1:286:U:C5'	2.79	0.46
29:D1:287:G:H2'	29:D1:288:C:O5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2844:C:H42	29:D1:2898:G:N2	2.13	0.46
29:D1:2900:A:O2'	29:D1:2901:G:C5'	2.63	0.46
29:D1:2919:A:H3'	29:D1:2920:U:C5'	2.45	0.46
29:D1:3102:G:O2'	29:D1:3103:A:OP1	2.29	0.46
29:D1:3114:A:N6	29:D1:3115:C:H5	2.14	0.46
29:D1:310:U:H5'	29:D1:311:C:OP2	2.16	0.46
29:D1:3315:G:OP1	29:D1:3316:A:OP1	2.33	0.46
29:D1:3315:G:P	29:D1:3316:A:OP1	2.73	0.46
29:D1:40:A:C2'	29:D1:41:G:H5'	2.45	0.46
29:D1:421:G:C8	29:D1:421:G:C4'	2.98	0.46
29:D1:432:G:H1	29:D1:627:U:H3	1.62	0.46
29:D1:505:G:C2'	29:D1:506:U:O5'	2.63	0.46
29:D1:520:U:H4'	29:D1:521:A:C5'	2.45	0.46
29:D1:559:A:O2'	29:D1:560:G:C5'	2.63	0.46
29:D1:597:G:H2'	29:D1:598:A:C8	2.48	0.46
29:D1:65:A:C4	29:D1:110:G:N7	2.83	0.46
29:D1:969:C:C2'	29:D1:969:C:O2	2.58	0.46
29:D1:11:A:C2	31:D3:148:G:C5	3.03	0.46
31:D3:123:G:C5'	74:D3:205:OHX:N5	2.78	0.46
31:D3:49:G:C2	31:D3:50:C:C6	3.03	0.46
29:D1:880:G:OP2	46:DQ:131:ARG:CA	2.61	0.46
29:D1:2111:G:N2	51:DV:48:ARG:O	2.48	0.46
1:A1:737:A:O2'	1:A1:738:G:H8	1.90	0.46
29:B1:2761:G:O6	29:B1:2798:C:H1'	2.15	0.46
29:B1:991:G:C2	29:B1:992:A:H1'	2.50	0.46
30:B2:111:U:H4'	30:B2:112:G:O3'	2.14	0.46
30:B2:12:U:C6	30:B2:70:U:OP1	2.68	0.46
30:B2:66:A:C5	30:B2:67:G:H8	2.34	0.46
30:D2:67:G:O6	30:D2:68:C:N3	2.49	0.46
1:C1:112:A:C4'	1:C1:113:U:OP1	2.55	0.46
1:C1:302:U:N3	1:C1:303:U:O2	2.49	0.46
1:C1:1211:A:C4	1:C1:1212:G:C8	3.04	0.46
1:C1:1515:A:C6	15:CN:16:GLN:O	2.69	0.46
1:C1:1524:A:C2'	1:C1:1525:A:H8	2.24	0.46
1:C1:1550:A:C2'	1:C1:1551:U:H5'	2.46	0.46
1:C1:1559:A:C2'	1:C1:1559:A:N3	2.68	0.46
1:C1:1605:G:N7	1:C1:1606:C:C5	2.84	0.46
1:C1:1472:C:O2'	5:CD:188:LYS:HA	2.15	0.46
1:A1:1241:G:C2	1:A1:1243:G:H8	2.33	0.46
1:A1:1232:U:P	1:A1:1258:U:HO2'	2.37	0.46
1:A1:1453:G:H2'	1:A1:1454:G:H8	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1494:C:H2'	1:A1:1495:C:O5'	2.15	0.46
1:A1:1527:C:C2	1:A1:1528:U:C5	3.04	0.46
11:AJ:125:GLU:O	11:AJ:126:PRO:O	2.34	0.46
30:B2:85:G:N7	74:B2:204:OHX:N1	2.63	0.46
29:B1:1511:U:H3'	29:B1:1512:U:C6	2.51	0.46
29:B1:3196:U:OP2	29:B1:3196:U:N3	2.48	0.46
29:B1:3205:G:N3	29:B1:3205:G:H2'	2.30	0.46
30:D2:23:A:H8	30:D2:23:A:O5'	1.99	0.46
30:B2:40:C:O2	30:B2:40:C:H2'	2.16	0.46
42:BK:19:LEU:O	42:BK:68:HIS:O	2.34	0.46
29:D1:396:A:C4'	29:D1:397:A:OP1	2.64	0.46
29:B1:1228:C:N3	29:B1:1282:G:C2	2.83	0.46
30:B2:22:A:C6	30:B2:23:A:N1	2.84	0.46
29:B1:1619:A:C2	29:B1:1826:C:N3	2.84	0.46
31:B3:125:U:O4	74:B3:206:OHX:N5	2.48	0.46
1:A1:644:C:N4	1:A1:691:C:N4	2.59	0.46
29:D1:71:A:N7	29:D1:72:C:C4	2.84	0.46
29:D1:1237:G:C5	29:D1:1238:C:C5	3.03	0.46
29:B1:2433:U:H1'	44:BO:125:SER:CB	2.45	0.46
4:AC:61:GLU:C	4:AC:63:GLY:N	2.69	0.46
29:B1:344:A:C6	29:B1:345:G:C5	3.04	0.46
1:C1:1389:C:N4	1:C1:1391:A:C1'	2.79	0.46
29:B1:1077:U:O2'	29:B1:1078:U:P	2.73	0.46
1:A1:1651:A:C2	1:A1:1652:C:C2	3.04	0.46
1:A1:1651:A:H2'	1:A1:1651:A:N3	2.31	0.46
1:A1:1391:A:C8	1:A1:1412:G:C6	3.04	0.46
1:A1:1419:G:C6	1:A1:1420:C:O2	2.68	0.46
29:B1:1186:G:C2'	29:B1:1187:C:O5'	2.63	0.46
29:D1:1919:G:C2	29:D1:1920:U:C2	3.04	0.46
29:B1:250:U:O2	29:B1:250:U:C2'	2.56	0.46
29:B1:252:U:C3'	29:B1:253:A:H5'	2.45	0.46
29:B1:2104:A:H2'	29:B1:2105:G:H5''	1.98	0.46
29:B1:1342:C:O2	29:B1:1342:C:C2'	2.62	0.46
6:AE:68:LYS:O	6:AE:69:ARG:C	2.54	0.46
36:DE:167:SER:C	36:DE:169:GLY:N	2.69	0.46
29:D1:1019:G:N2	29:D1:1033:U:O2	2.31	0.46
1:C1:1262:U:H2'	1:C1:1263:G:C8	2.50	0.46
43:DN:34:ALA:O	43:DN:46:ILE:C	2.54	0.46
29:B1:1818:U:H2'	29:B1:1819:U:N1	2.29	0.46
29:B1:600:G:C5	74:B1:3620:OHX:N1	2.84	0.46
4:AC:69:LEU:O	4:AC:70:THR:C	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:93:LEU:C	5:AD:95:ASN:N	2.68	0.46
34:DC:198:HIS:C	34:DC:200:GLU:N	2.69	0.46
1:C1:410:A:C6	1:C1:411:C:C4	3.04	0.46
45:DP:188:SER:C	45:DP:190:VAL:H	2.18	0.46
46:DQ:51:VAL:O	46:DQ:52:LEU:CB	2.64	0.46
29:D1:1806:A:N3	29:D1:1807:G:H1'	2.31	0.46
29:B1:290:G:C4	29:B1:291:C:C5	3.04	0.46
13:CL:112:ASP:C	13:CL:114:GLU:N	2.68	0.46
10:AI:66:ALA:O	10:AI:67:ALA:HB3	2.15	0.46
1:A1:926:A:H2	9:AH:125:SER:HA	1.80	0.46
8:AG:49:GLN:CA	8:AG:50:ILE:CB	2.94	0.46
47:BR:102:ALA:HB3	47:BR:122:ILE:N	2.31	0.46
32:BA:101:LYS:O	32:BA:102:LYS:C	2.53	0.46
34:DC:138:ALA:O	34:DC:140:ASP:N	2.49	0.46
29:D1:1674:G:C6	29:D1:1675:G:C5	3.04	0.46
21:AT:42:LEU:O	21:AT:60:SER:CA	2.64	0.46
39:DH:100:GLU:CB	39:DH:103:ALA:HB3	2.46	0.46
47:DR:75:GLY:O	47:DR:76:ALA:CB	2.64	0.46
29:D1:1720:U:C3'	29:D1:1720:U:C6	2.99	0.46
13:CL:42:TYR:O	13:CL:43:SER:C	2.54	0.46
48:DS:127:SER:C	48:DS:129:GLY:H	2.18	0.46
1:A1:1550:A:C4	1:A1:1551:U:C5	3.04	0.46
41:BJ:152:LEU:O	41:BJ:153:ARG:C	2.54	0.46
48:BS:169:ALA:HA	48:BS:172:ARG:CB	2.46	0.46
36:BE:244:HIS:HA	36:BE:248:ARG:CB	2.46	0.46
38:BG:167:ALA:HB3	38:BG:176:TYR:CB	2.45	0.46
55:BZ:43:ILE:O	55:BZ:89:VAL:HA	2.15	0.46
5:CD:189:THR:CB	5:CD:192:GLU:CB	2.94	0.46
29:B1:1774:C:H2'	29:B1:1774:C:O2	2.14	0.46
44:BO:46:ASP:C	44:BO:48:ALA:H	2.19	0.46
55:BZ:28:LYS:C	55:BZ:30:THR:N	2.67	0.46
52:BW:127:THR:O	52:BW:129:ASP:N	2.49	0.46
1:A1:1025:A:H2'	1:A1:1027:A:O5'	2.14	0.46
1:A1:1099:U:O2'	1:A1:1100:G:C1'	2.63	0.46
1:A1:1654:G:H2'	1:A1:1745:G:H22	1.78	0.46
1:A1:364:G:N2	1:A1:381:C:C1'	2.79	0.46
1:A1:394:C:C3'	1:A1:395:U:H5'	2.46	0.46
1:A1:398:G:H5''	1:A1:399:A:P	2.56	0.46
1:A1:406:U:C6	1:A1:406:U:OP2	2.68	0.46
1:A1:40:A:C8	1:A1:41:A:C8	3.02	0.46
1:A1:530:C:C5'	1:A1:531:C:OP2	2.60	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:551:G:N3	1:A1:551:G:H2'	2.29	0.46
1:A1:581:U:C2'	1:A1:581:U:O2	2.61	0.46
1:A1:21:U:O2	1:A1:605:A:H2	1.99	0.46
1:A1:866:G:C2	1:A1:867:G:N7	2.83	0.46
3:AB:161:LYS:CB	3:AB:209:ASN:HA	2.46	0.46
29:B1:107:A:C2	29:B1:108:A:C4	3.03	0.46
29:B1:10:C:C2'	29:B1:10:C:O2	2.62	0.46
29:B1:1105:A:C2	29:B1:1106:G:C4	3.03	0.46
29:B1:1140:G:H2'	29:B1:1140:G:N3	2.30	0.46
29:B1:1366:A:H2'	29:B1:1367:G:H8	1.80	0.46
29:B1:123:A:H2	29:B1:145:G:H22	1.64	0.46
29:B1:156:G:C4	29:B1:158:G:OP2	2.68	0.46
29:B1:1798:A:N1	29:B1:1799:A:C6	2.84	0.46
29:B1:1454:A:OP2	29:B1:1878:G:O6	2.34	0.46
29:B1:2240:G:C2'	29:B1:2241:U:O5'	2.64	0.46
29:B1:2284:C:N4	29:B1:2308:C:OP2	2.48	0.46
29:B1:2291:A:N1	29:B1:2292:U:C2	2.84	0.46
29:B1:2349:U:C2	29:B1:2350:C:C5	3.03	0.46
29:B1:281:G:N1	29:B1:282:G:O6	2.48	0.46
29:B1:1204:A:H1'	29:B1:2855:U:C1'	2.46	0.46
29:B1:1302:A:N9	29:B1:2887:A:N1	2.63	0.46
29:B1:2847:A:N6	29:B1:2898:G:N3	2.64	0.46
29:B1:2898:G:OP2	29:B1:2899:C:C6	2.69	0.46
29:B1:3035:A:C6	29:B1:3036:G:C5	3.04	0.46
29:B1:3122:A:C2'	29:B1:3123:A:C5'	2.72	0.46
29:B1:3367:C:C2'	29:B1:3368:U:C5'	2.90	0.46
29:B1:3394:U:C2'	29:B1:3395:G:C8	2.97	0.46
29:B1:3380:U:O4	74:B1:3456:OHX:N4	2.49	0.46
29:B1:377:A:C5'	29:B1:378:A:OP1	2.64	0.46
29:B1:405:U:O4	29:B1:406:G:N1	2.48	0.46
29:B1:593:C:H2'	29:B1:594:U:H5'	1.98	0.46
29:B1:606:C:N3	29:B1:607:A:C6	2.83	0.46
29:B1:648:C:O2	29:B1:648:C:O4'	2.32	0.46
29:B1:723:U:C6	29:B1:723:U:C3'	2.99	0.46
29:B1:750:G:N1	29:B1:784:A:N9	2.64	0.46
29:B1:99:A:H1'	29:B1:281:G:O6	2.16	0.46
31:B3:9:A:C2	31:B3:10:A:C5	3.03	0.46
31:B3:1:A:H2'	31:B3:2:A:O5'	2.16	0.46
37:BF:5:LYS:O	37:BF:6:ALA:HB2	2.15	0.46
44:BO:56:LYS:HA	44:BO:57:GLN:HA	1.50	0.46
1:C1:1086:A:H2'	1:C1:1087:A:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:11:A:H2'	1:C1:12:U:O4'	2.16	0.46
1:C1:151:G:C2	1:C1:164:A:C2	3.04	0.46
1:C1:151:G:N1	1:C1:163:G:N2	2.37	0.46
1:C1:1670:G:H8	1:C1:1670:G:O5'	1.99	0.46
1:C1:1673:G:H2'	1:C1:1674:C:H6	1.80	0.46
1:C1:207:U:N3	1:C1:208:U:C4	2.83	0.46
1:C1:289:U:N3	1:C1:290:G:C8	2.80	0.46
1:C1:378:A:O4'	1:C1:378:A:OP1	2.33	0.46
1:C1:428:A:H2	1:C1:440:U:O2	1.99	0.46
1:C1:478:A:C2	1:C1:510:G:C2	3.04	0.46
1:C1:539:G:HO2'	1:C1:542:A:H8	1.54	0.46
1:C1:550:A:C4'	1:C1:556:A:C6	2.99	0.46
1:C1:557:G:C3'	1:C1:558:U:H4'	2.45	0.46
1:C1:614:C:N3	1:C1:615:A:C8	2.84	0.46
1:C1:622:A:H4'	1:C1:623:A:O5'	2.13	0.46
1:C1:993:A:OP1	1:C1:1777:G:N2	2.39	0.46
29:D1:1180:A:C2	29:D1:1182:A:C5	3.04	0.46
29:D1:1192:C:C1'	29:D1:1192:C:OP2	2.64	0.46
29:D1:1504:A:C8	29:D1:1505:C:H5	2.32	0.46
29:D1:1535:A:H8	29:D1:1536:G:C8	2.34	0.46
29:D1:1561:G:H2'	29:D1:1562:C:C6	2.51	0.46
29:D1:1791:C:H2'	29:D1:1792:C:C5	2.50	0.46
29:D1:2112:U:O2	29:D1:2113:A:C6	2.69	0.46
29:D1:2269:U:N1	29:D1:2272:G:O6	2.49	0.46
29:D1:2279:A:N7	29:D1:2288:G:C5	2.82	0.46
29:D1:652:G:C2	29:D1:2361:A:O4'	2.68	0.46
29:D1:2412:G:N3	29:D1:2413:A:C8	2.84	0.46
29:D1:2698:G:C4	29:D1:2699:G:C8	3.03	0.46
29:D1:2779:A:C4	29:D1:2780:A:C8	3.03	0.46
29:D1:2813:A:C2	29:D1:2814:G:C4	3.04	0.46
29:D1:3036:G:C2'	29:D1:3037:U:O5'	2.64	0.46
29:D1:3058:U:C3'	29:D1:3058:U:OP1	2.61	0.46
29:D1:3113:A:N6	29:D1:3114:A:N1	2.63	0.46
29:D1:60:A:C8	29:D1:327:A:N1	2.84	0.46
29:D1:3325:G:H2'	29:D1:3326:G:H8	1.81	0.46
29:D1:535:G:C3'	29:D1:536:U:C5	2.94	0.46
29:D1:53:G:C5	29:D1:54:C:C5	3.03	0.46
29:D1:595:G:C4	29:D1:596:C:C6	3.03	0.46
29:D1:682:U:C6	29:D1:683:U:C5	3.03	0.46
29:D1:64:G:HO2'	29:D1:77:A:H1'	1.81	0.46
29:D1:94:G:C5	29:D1:95:A:C5	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:952:A:C2	29:D1:1114:U:H4'	2.50	0.46
29:D1:953:G:O2'	29:D1:954:U:O5'	2.33	0.46
29:D1:975:C:C2	29:D1:976:U:C5	3.03	0.46
31:D3:14:C:C5'	31:D3:15:G:OP2	2.64	0.46
31:D3:52:A:C6	31:D3:53:A:C5	3.03	0.46
35:DD:82:THR:O	35:DD:84:ARG:N	2.48	0.46
37:DF:162:SER:O	37:DF:163:PHE:C	2.54	0.46
38:DG:47:ARG:O	38:DG:49:ALA:O	2.33	0.46
1:C1:642:G:O6	1:C1:643:G:C6	2.69	0.46
29:B1:1047:A:N1	29:B1:2646:C:O2	2.49	0.46
29:B1:1057:A:N6	29:B1:1058:U:C4	2.83	0.46
30:B2:106:U:C2	30:B2:107:C:C6	3.00	0.46
30:B2:68:C:O2'	30:B2:69:C:H4'	2.16	0.46
30:B2:97:A:C2'	30:B2:98:C:C6	2.93	0.46
31:B3:74:U:O2'	31:B3:89:A:C1'	2.64	0.46
1:A1:138:A:O2'	1:A1:139:C:P	2.73	0.46
1:A1:194:U:H5'	1:A1:195:G:O4'	2.15	0.46
30:D2:103:A:H2'	30:D2:104:A:C8	2.51	0.46
30:D2:60:G:C2	30:D2:61:G:N7	2.84	0.46
1:A1:1683:C:H5''	1:A1:1722:A:H2	1.80	0.46
1:C1:1543:A:H1'	1:C1:1569:A:N1	2.31	0.46
11:CJ:10:PHE:N	11:CJ:18:ALA:O	2.49	0.46
1:A1:1274:C:O2'	1:A1:1275:A:P	2.74	0.46
1:A1:1609:U:H3'	1:A1:1610:G:H8	1.80	0.46
29:B1:1196:C:C2	30:B2:86:U:C6	3.04	0.46
29:B1:3219:G:OP1	29:B1:3220:G:C5'	2.58	0.46
29:D1:3201:C:N4	29:D1:3202:G:O6	2.49	0.46
29:D1:334:A:C2'	29:D1:335:G:H8	2.06	0.46
29:D1:221:A:C5	29:D1:224:C:N4	2.84	0.46
29:B1:1275:C:C5	29:B1:1276:U:C4	3.04	0.46
29:D1:3259:U:O3'	29:D1:3260:G:C8	2.68	0.46
29:B1:1617:G:H2'	29:B1:1618:G:H5'	1.98	0.46
29:D1:71:A:H5'	29:D1:73:C:H42	1.81	0.46
72:DL:97:ASN:O	72:DL:98:VAL:C	2.53	0.46
29:B1:2234:G:C5	29:B1:2235:C:C5	3.04	0.46
29:B1:2429:G:C2'	29:B1:2430:A:H5'	2.45	0.46
29:D1:1062:A:HO2'	29:D1:1063:G:P	2.28	0.46
31:B3:26:U:C4	31:B3:27:U:O4	2.69	0.46
1:A1:1279:C:H2'	1:A1:1280:C:O4'	2.16	0.46
1:C1:1390:U:H1'	1:C1:1413:U:C2	2.51	0.46
29:D1:3141:A:O4'	29:D1:3143:C:C2'	2.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DR:98:LYS:N	47:DR:117:ALA:HB1	2.31	0.46
33:BB:82:VAL:O	33:BB:84:THR:N	2.49	0.46
1:C1:1753:A:C2	1:C1:1754:A:C2	3.03	0.46
29:D1:1948:G:H2'	29:D1:1949:G:H8	1.80	0.46
1:A1:1388:A:C6	1:A1:1411:A:C6	3.03	0.46
1:A1:1398:U:HO2'	1:A1:1399:C:H3'	1.79	0.46
29:D1:1076:C:H4'	29:D1:1077:U:OP1	2.14	0.46
29:D1:1678:G:H4'	29:D1:1756:C:H4'	1.98	0.46
29:D1:3073:A:H2'	29:D1:3074:G:O4'	2.16	0.46
1:A1:913:G:H1'	1:A1:914:G:OP1	2.16	0.46
29:B1:3273:A:N1	29:B1:3274:A:C6	2.84	0.46
29:D1:2541:U:O2	29:D1:2542:U:H4'	2.14	0.46
29:D1:1921:A:C8	29:D1:1932:A:C5	3.04	0.46
39:DH:98:ARG:O	39:DH:99:PRO:O	2.33	0.46
29:B1:1948:G:C2	29:B1:1949:G:C8	3.04	0.46
29:B1:1933:A:N7	29:B1:1934:G:N7	2.63	0.46
29:B1:355:A:N1	29:B1:365:A:N9	2.64	0.46
42:BK:83:GLY:O	42:BK:84:LEU:C	2.53	0.46
29:B1:841:A:H5''	48:BS:125:LYS:O	2.16	0.46
29:D1:1009:A:H5''	29:D1:1010:G:P	2.56	0.46
29:D1:96:G:H2'	29:D1:97:U:O5'	2.16	0.46
3:AB:107:SER:CA	3:AB:190:LEU:O	2.64	0.46
46:BQ:99:ALA:HA	46:BQ:102:ALA:HB3	1.96	0.46
13:AL:76:PRO:HA	13:AL:81:ILE:N	2.31	0.46
45:DP:54:TYR:C	45:DP:56:ASP:N	2.69	0.46
48:BS:84:THR:O	48:BS:87:ALA:N	2.48	0.46
29:B1:1493:G:O5'	29:B1:1493:G:N3	2.48	0.46
29:D1:245:U:O4	74:D1:3495:OHX:N4	2.48	0.46
1:C1:697:C:O4'	1:C1:697:C:O2	2.30	0.46
29:D1:1050:U:C2'	29:D1:1051:U:O5'	2.64	0.46
29:D1:246:U:OP1	29:D1:247:C:H5''	2.15	0.46
42:DK:133:ARG:CB	42:DK:153:LYS:O	2.63	0.46
45:BP:63:ALA:O	45:BP:64:PHE:CB	2.62	0.46
45:BP:139:GLY:O	45:BP:142:SER:CB	2.64	0.46
4:AC:117:ARG:HA	4:AC:120:TYR:CB	2.46	0.46
6:CE:100:LYS:CA	6:CE:104:PHE:H	2.29	0.46
49:BT:84:TYR:O	49:BT:85:LEU:O	2.34	0.46
53:BX:36:SER:O	53:BX:39:LEU:N	2.49	0.46
6:AE:96:VAL:O	6:AE:99:LEU:C	2.53	0.46
29:D1:1867:A:C5	29:D1:1868:G:C5	3.04	0.46
45:BP:162:VAL:O	45:BP:164:SER:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:136:G:H2'	29:D1:136:G:N3	2.29	0.46
8:AG:82:PRO:O	8:AG:83:GLU:C	2.54	0.46
51:DV:34:SER:O	51:DV:35:LYS:C	2.54	0.46
16:CO:116:ALA:C	16:CO:118:ARG:N	2.64	0.46
21:CT:269:TYR:O	21:CT:271:VAL:N	2.49	0.46
3:AB:65:GLU:C	3:AB:68:ILE:CB	2.84	0.46
8:CG:84:ILE:HA	8:CG:85:PRO:HA	1.74	0.46
1:A1:631:G:H2'	1:A1:632:U:H5'	1.98	0.46
5:CD:184:PHE:HA	5:CD:185:ARG:HA	1.72	0.46
29:D1:2400:G:O4'	29:D1:2401:A:OP1	2.33	0.46
34:DC:292:ALA:HA	34:DC:293:ASN:HA	1.36	0.46
44:DO:100:ALA:O	44:DO:103:GLU:N	2.48	0.46
20:CS:19:ARG:O	20:CS:20:GLN:O	2.33	0.46
55:DZ:9:SER:O	55:DZ:13:LYS:N	2.48	0.46
10:CI:76:VAL:O	10:CI:94:VAL:HA	2.15	0.46
1:A1:794:U:O2	1:A1:794:U:H2'	2.16	0.46
9:AH:52:ARG:CB	9:AH:53:ASP:HA	2.46	0.46
39:DH:243:GLN:O	39:DH:244:ALA:C	2.52	0.46
16:AO:125:ILE:O	16:AO:127:GLY:N	2.48	0.46
36:BE:288:ALA:HB1	36:BE:292:ALA:C	2.35	0.46
2:CA:70:PRO:O	2:CA:71:GLU:CB	2.64	0.46
1:A1:1114:G:HO2'	1:A1:1115:U:P	2.35	0.46
1:A1:1761:U:C2'	1:A1:1762:A:OP2	2.64	0.46
1:A1:381:C:H1'	1:A1:756:A:H2	1.80	0.46
1:A1:514:G:C2	1:A1:515:A:C8	3.03	0.46
1:A1:514:G:C4	1:A1:515:A:C8	3.03	0.46
1:A1:601:A:C5	1:A1:602:U:C5	3.04	0.46
1:A1:939:A:C2	1:A1:940:A:C4	3.04	0.46
1:A1:629:U:C2	1:A1:971:A:C6	3.03	0.46
29:B1:1107:C:O2	29:B1:1108:U:C5	2.69	0.46
29:B1:1119:C:H2'	29:B1:1120:A:C8	2.51	0.46
29:B1:1194:G:C8	29:B1:1319:G:H5''	2.51	0.46
29:B1:1372:C:C2'	29:B1:1373:A:H5'	2.45	0.46
29:B1:1505:C:OP1	29:B1:1505:C:H4'	2.15	0.46
29:B1:1565:G:N3	29:B1:1565:G:H2'	2.30	0.46
29:B1:157:A:O2'	29:B1:158:G:C8	2.67	0.46
29:B1:1833:G:N3	29:B1:1834:U:O2	2.49	0.46
29:B1:1851:G:C5	29:B1:1852:G:C8	3.04	0.46
29:B1:191:U:H2'	29:B1:192:C:C6	2.51	0.46
29:B1:222:A:C5	29:B1:223:U:C4	3.04	0.46
29:B1:2250:G:H2'	29:B1:2250:G:N3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2288:G:C2	29:B1:2289:U:C5	3.03	0.46
29:B1:2294:U:C2	29:B1:2296:A:OP2	2.69	0.46
29:B1:1133:A:H5'	29:B1:2866:U:OP1	2.15	0.46
29:B1:2984:C:C2	29:B1:2985:C:C5	3.04	0.46
29:B1:3002:C:C2	29:B1:3147:G:C2	3.04	0.46
29:B1:3113:A:N1	29:B1:3122:A:C8	2.83	0.46
29:B1:3161:C:OP2	29:B1:3161:C:C5	2.69	0.46
29:B1:3330:A:H2'	29:B1:3331:U:O5'	2.15	0.46
29:B1:3377:G:H1'	29:B1:3378:C:P	2.55	0.46
29:B1:3388:C:C5'	29:B1:3388:C:H6	2.28	0.46
29:B1:347:G:H8	29:B1:347:G:O5'	1.99	0.46
29:B1:361:A:HO2'	29:B1:362:U:P	2.39	0.46
29:B1:372:A:C6	29:B1:373:A:C5	3.04	0.46
29:B1:415:G:C4	29:B1:416:A:C8	3.03	0.46
29:B1:40:A:C2'	29:B1:41:G:H5'	2.45	0.46
29:B1:537:A:OP1	29:B1:538:G:H5'	2.16	0.46
29:B1:539:C:H2'	29:B1:540:U:C6	2.51	0.46
29:B1:648:C:H6	29:B1:2375:G:OP2	1.99	0.46
29:B1:693:A:C5	29:B1:694:C:C5	3.04	0.46
29:B1:715:A:O2'	29:B1:716:A:H5'	2.15	0.46
29:B1:863:C:OP1	74:B1:3415:OHX:N2	2.49	0.46
31:B3:42:G:N2	31:B3:43:A:C4	2.84	0.46
29:B1:2157:G:N2	33:BB:125:ALA:HA	2.30	0.46
37:BF:112:THR:O	37:BF:113:LYS:CB	2.63	0.46
1:C1:1025:A:N7	1:C1:1027:A:N9	2.64	0.46
1:C1:1097:U:HO2'	1:C1:1098:U:H5'	1.74	0.46
1:C1:168:A:H3'	1:C1:169:A:H8	1.78	0.46
1:C1:1758:U:H2'	1:C1:1758:U:O2	2.16	0.46
1:C1:90:C:N4	74:C1:1995:OHX:N6	2.63	0.46
1:C1:32:U:H2'	1:C1:33:U:O5'	2.16	0.46
1:C1:545:A:H61	1:C1:593:U:H2'	1.79	0.46
1:C1:85:A:O2'	1:C1:86:A:OP2	2.32	0.46
1:C1:939:A:C2	1:C1:940:A:C4	3.03	0.46
1:C1:94:U:O4'	1:C1:94:U:O2	2.33	0.46
29:D1:1139:G:H2'	29:D1:1140:G:O4'	2.16	0.46
29:D1:10:C:C2'	29:D1:11:A:O5'	2.63	0.46
29:D1:1284:C:H2'	29:D1:1284:C:O2	2.16	0.46
29:D1:1294:A:C8	29:D1:1294:A:H5''	2.33	0.46
29:D1:1438:U:H2'	29:D1:1439:U:C6	2.51	0.46
29:D1:1487:G:O6	74:D1:3588:OHX:N1	2.48	0.46
29:D1:149:U:C4	44:DO:55:ALA:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1506:A:H3'	29:D1:1507:G:O4'	2.16	0.46
29:D1:1546:A:N6	29:D1:1547:G:C2	2.84	0.46
29:D1:1547:G:H2'	29:D1:1548:C:H6	1.76	0.46
29:D1:1797:A:C4	29:D1:1798:A:C8	3.04	0.46
29:D1:1838:G:H4'	29:D1:1839:A:C8	2.51	0.46
29:D1:1870:C:H2'	29:D1:1871:U:O4'	2.16	0.46
29:D1:2135:U:C2	29:D1:2136:C:C5	3.03	0.46
29:D1:2362:C:H2'	29:D1:2363:A:O4'	2.16	0.46
29:D1:2413:A:C2'	29:D1:2414:G:O5'	2.64	0.46
29:D1:2617:U:O4'	29:D1:2617:U:O2	2.34	0.46
29:D1:2778:G:O6	29:D1:2779:A:N6	2.49	0.46
29:D1:2815:G:H5''	29:D1:2816:G:OP1	2.15	0.46
29:D1:1203:A:C2	29:D1:2855:U:O2	2.69	0.46
29:D1:2868:U:C4	29:D1:2869:U:C5	3.04	0.46
29:D1:3000:A:C2'	29:D1:3001:C:C6	2.94	0.46
29:D1:3047:U:O2	29:D1:3048:A:C2	2.63	0.46
29:D1:1226:G:O4'	29:D1:3116:G:N7	2.49	0.46
29:D1:363:G:C3'	29:D1:364:G:C5'	2.90	0.46
29:D1:423:A:C8	29:D1:423:A:O5'	2.69	0.46
29:D1:428:A:C8	29:D1:428:A:H3'	2.51	0.46
29:D1:58:G:O2'	29:D1:61:A:H5'	2.16	0.46
29:D1:595:G:C2'	29:D1:596:C:O4'	2.59	0.46
29:D1:715:A:O2'	29:D1:716:A:C5'	2.64	0.46
29:D1:79:U:H2'	29:D1:80:G:H8	1.81	0.46
29:D1:22:G:O4'	31:D3:104:A:H1'	2.16	0.46
33:DB:181:LYS:C	33:DB:182:ALA:O	2.54	0.46
1:C1:823:G:H21	1:C1:824:G:H2'	1.79	0.46
29:B1:2614:G:C4	29:B1:2797:C:H5	2.33	0.46
29:B1:2640:A:C2'	29:B1:2641:U:H6	2.26	0.46
30:B2:108:A:C6	30:B2:109:G:O6	2.68	0.46
30:B2:75:G:P	74:B2:201:OHX:N5	2.89	0.46
31:B3:91:C:H2'	31:B3:92:A:O4'	2.15	0.46
1:A1:184:C:C4	1:A1:202:A:C2	3.04	0.46
1:A1:192:U:H3'	1:A1:192:U:C6	2.50	0.46
30:D2:114:U:H3'	30:D2:115:G:H8	1.81	0.46
30:D2:69:C:H1'	30:D2:110:G:N2	2.27	0.46
30:D2:78:U:O2'	30:D2:79:A:O5'	2.34	0.46
1:C1:796:A:C2'	1:C1:797:G:H5'	2.46	0.46
45:BP:124:LEU:CB	45:BP:128:ARG:H	2.26	0.46
1:A1:248:U:O2'	1:A1:249:U:C5'	2.63	0.46
1:A1:337:G:H5''	1:A1:338:C:C5	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AF:132:SER:O	7:AF:134:THR:N	2.49	0.46
1:C1:1186:U:C1'	1:C1:1208:A:C2	2.98	0.46
1:C1:1186:U:H2'	1:C1:1187:U:C5'	2.46	0.46
1:C1:1237:G:C5	1:C1:1238:A:N7	2.84	0.46
1:C1:1373:C:H2'	1:C1:1373:C:O2	2.13	0.46
1:C1:1483:A:C4	1:C1:1524:A:C6	3.04	0.46
1:C1:1536:G:C4	1:C1:1538:U:O2	2.69	0.46
1:C1:1170:G:C6	1:C1:1574:G:C5	3.04	0.46
1:C1:1587:A:C4	1:C1:1588:G:C8	3.04	0.46
1:C1:1608:U:H2'	1:C1:1609:U:H6	1.80	0.46
1:A1:1186:U:H2'	1:A1:1187:U:C5'	2.46	0.46
1:A1:1209:C:N3	1:A1:1455:G:N2	2.63	0.46
1:A1:1273:G:C3'	1:A1:1274:C:H5'	2.42	0.46
1:A1:1354:G:C5	1:A1:1355:C:C5	3.02	0.46
1:A1:1470:C:OP1	1:A1:1471:A:H1'	2.15	0.46
1:A1:1534:G:H4'	1:A1:1536:G:C6	2.51	0.46
29:D1:1183:C:C3'	29:D1:1184:A:C5'	2.93	0.46
29:B1:3215:A:OP2	29:B1:3218:A:N9	2.48	0.46
30:D2:22:A:C2'	30:D2:23:A:O5'	2.64	0.46
30:B2:44:C:C4	30:B2:45:A:C5	3.03	0.46
29:D1:392:G:N7	74:D1:3523:OHX:N4	2.64	0.46
29:D1:370:U:H2'	29:D1:371:G:O4'	2.15	0.46
29:D1:3221:C:N3	29:D1:3222:U:H5	2.08	0.46
29:D1:3278:C:H2'	29:D1:3279:A:N9	2.30	0.46
6:AE:122:VAL:O	6:AE:123:HIS:C	2.53	0.46
29:B1:2173:U:H2'	29:B1:2174:G:OP1	2.15	0.46
29:B1:1079:A:C5	29:B1:1080:A:C6	3.02	0.46
1:A1:887:A:N3	1:A1:888:U:C6	2.84	0.46
1:C1:1649:G:C6	1:C1:1650:U:O4	2.69	0.46
29:D1:3005:A:C2'	29:D1:3140:G:H22	2.28	0.46
29:D1:2233:A:OP2	74:D1:3473:OHX:N4	2.49	0.46
29:B1:2553:U:HO2'	29:B1:2554:A:P	2.38	0.46
1:A1:1310:U:O2'	1:A1:1311:U:O5'	2.30	0.46
1:A1:1420:C:C3'	1:A1:1420:C:C6	2.99	0.46
35:DD:241:GLY:O	35:DD:242:ALA:C	2.53	0.46
1:C1:901:G:H3'	1:C1:902:G:N7	2.30	0.46
29:B1:1953:G:N1	29:B1:2092:A:OP2	2.48	0.46
36:DE:42:ALA:O	36:DE:43:LYS:CB	2.63	0.46
29:B1:1042:U:C2'	29:B1:1043:C:O5'	2.64	0.46
36:DE:262:LYS:O	36:DE:265:TYR:CB	2.64	0.46
29:D1:2579:G:OP1	29:D1:2581:U:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:252:U:C3'	29:D1:253:A:H5'	2.46	0.46
1:C1:1663:G:C6	1:C1:1664:C:C4	3.03	0.46
1:C1:1734:U:C4	1:C1:1735:U:C4	3.03	0.46
29:B1:1072:G:C4	29:B1:1073:U:C5	3.03	0.46
40:BI:62:ARG:O	40:BI:63:LYS:C	2.52	0.46
1:C1:1299:G:C6	1:C1:1300:A:N6	2.84	0.46
29:B1:1358:C:C3'	29:B1:1359:C:H6	2.28	0.46
43:BN:24:LYS:CB	43:BN:31:LYS:CA	2.94	0.46
29:B1:2576:G:C4	29:B1:2577:C:C6	3.03	0.46
43:DN:10:SER:N	43:DN:11:ASN:HA	2.21	0.46
43:DN:62:GLN:O	43:DN:63:VAL:O	2.34	0.46
1:A1:1359:C:H2'	1:A1:1360:A:H8	1.81	0.46
29:B1:2531:C:H42	29:B1:2548:C:N4	2.14	0.46
34:DC:300:ARG:O	34:DC:301:THR:CB	2.64	0.46
34:BC:197:GLU:O	34:BC:198:HIS:C	2.52	0.46
29:D1:603:A:O5'	29:D1:603:A:H8	1.97	0.46
34:DC:2:SER:C	34:DC:4:ARG:N	2.69	0.46
21:CT:21:THR:N	21:CT:37:SER:HA	2.26	0.46
29:D1:2646:C:C2'	29:D1:2647:A:H5'	2.46	0.46
3:CB:122:ALA:O	3:CB:125:ILE:N	2.49	0.46
35:BD:115:HIS:C	35:BD:117:GLU:N	2.68	0.46
1:C1:877:G:C2	1:C1:878:G:C8	3.03	0.46
47:BR:130:ARG:C	47:BR:132:PRO:N	2.69	0.46
51:DV:40:PHE:O	51:DV:43:ARG:N	2.48	0.46
29:D1:665:A:N6	29:D1:666:A:C6	2.84	0.46
1:C1:1622:G:C5	1:C1:1623:C:C4	3.04	0.46
47:DR:102:ALA:O	47:DR:103:ALA:HB2	2.16	0.46
29:B1:2444:C:H3'	29:B1:2445:A:H5''	1.98	0.46
6:AE:96:VAL:O	6:AE:99:LEU:N	2.48	0.46
29:B1:2414:G:C2	29:B1:2415:C:C2	3.04	0.46
52:DW:133:LEU:HA	52:DW:136:ALA:HB3	1.97	0.46
44:DO:57:GLN:C	44:DO:59:PHE:H	2.18	0.46
33:DB:120:PRO:O	33:DB:121:GLY:C	2.54	0.46
9:CH:77:THR:O	9:CH:110:LEU:HA	2.16	0.46
10:CI:66:ALA:O	10:CI:67:ALA:HB3	2.16	0.46
14:CM:13:ASP:C	14:CM:15:ILE:N	2.69	0.46
29:D1:1675:G:C2	29:D1:1773:C:C4	3.04	0.46
10:CI:115:TYR:O	10:CI:116:LEU:C	2.54	0.46
29:B1:1051:U:O2	29:B1:1051:U:H2'	2.16	0.46
29:D1:1771:C:H2'	29:D1:1772:U:O4'	2.16	0.46
38:DG:43:ILE:C	38:DG:45:LEU:H	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:44:ASN:O	5:AD:46:TRP:N	2.49	0.46
21:CT:216:LYS:C	21:CT:218:GLY:N	2.68	0.46
1:A1:1440:C:O2'	1:A1:1441:C:H5'	2.15	0.46
8:AG:134:VAL:O	8:AG:135:LEU:C	2.54	0.46
1:A1:910:C:N4	1:A1:911:U:C4	2.84	0.46
2:CA:180:GLU:O	2:CA:184:LEU:CB	2.63	0.46
51:DV:24:GLY:O	51:DV:25:ASP:O	2.34	0.46
29:D1:167:U:H2'	29:D1:168:U:H6	1.81	0.46
49:BT:103:GLN:O	49:BT:106:LEU:N	2.47	0.46
15:AN:40:ASN:O	15:AN:41:ILE:CB	2.63	0.46
1:A1:1032:G:C4	1:A1:1033:C:C5	3.04	0.46
1:A1:1054:U:C2	1:A1:1055:U:C6	3.04	0.46
1:A1:12:U:H1'	1:A1:1300:A:C1'	2.40	0.46
1:A1:1645:G:N1	1:A1:1757:G:C5	2.84	0.46
1:A1:1779:U:H4'	1:A1:1780:G:OP1	2.16	0.46
1:A1:980:G:O6	74:A1:1923:OHX:N2	2.49	0.46
1:A1:391:A:N1	1:A1:392:G:C5	2.84	0.46
1:A1:435:C:H2'	1:A1:436:A:O4'	2.15	0.46
1:A1:550:A:C4'	1:A1:556:A:C6	2.99	0.46
1:A1:871:G:O2'	1:A1:872:G:O4'	2.33	0.46
1:A1:977:A:N6	1:A1:1025:A:N9	2.63	0.46
8:AG:36:GLN:HA	8:AG:39:LYS:CB	2.45	0.46
29:B1:1120:A:H2'	29:B1:1120:A:N3	2.30	0.46
29:B1:1131:G:N3	29:B1:2373:A:C6	2.83	0.46
29:B1:1549:U:H2'	29:B1:1550:C:H6	1.80	0.46
29:B1:1560:G:C6	29:B1:1561:G:C6	3.04	0.46
29:B1:1680:G:C4	29:B1:1681:U:H6	2.32	0.46
29:B1:2112:U:C1'	29:B1:2113:A:P	3.04	0.46
29:B1:2150:G:H8	29:B1:2150:G:OP2	1.99	0.46
29:B1:2257:C:C2	29:B1:2258:U:C6	3.04	0.46
29:B1:2609:A:C4	29:B1:2610:G:C8	3.03	0.46
29:B1:284:A:C2'	29:B1:284:A:N3	2.76	0.46
29:B1:2929:C:H3'	29:B1:2929:C:H6	1.79	0.46
29:B1:2391:G:N2	29:B1:2989:U:C2	2.84	0.46
29:B1:3010:U:O2'	29:B1:3011:A:H5'	2.15	0.46
29:B1:3141:A:H2	29:B1:3144:G:P	2.38	0.46
29:B1:3395:G:HO2'	29:B1:3396:U:P	2.32	0.46
29:B1:361:A:O2'	29:B1:362:U:O5'	2.34	0.46
29:B1:44:U:C6	29:B1:45:A:C8	3.04	0.46
29:B1:705:A:H4'	29:B1:706:A:C5'	2.43	0.46
29:B1:88:A:C8	29:B1:88:A:C3'	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:935:U:H2'	29:B1:936:A:H8	1.78	0.46
29:B1:943:U:O2'	29:B1:944:C:C5'	2.64	0.46
37:BF:92:SER:O	37:BF:93:VAL:C	2.53	0.46
1:C1:1036:A:H3'	1:C1:1037:C:H6	1.81	0.46
1:C1:1096:C:O2	1:C1:1098:U:OP2	2.34	0.46
1:C1:16:G:C4	1:C1:17:C:C5	3.04	0.46
1:C1:1761:U:C1'	1:C1:1762:A:OP2	2.64	0.46
1:C1:1764:C:H5'	1:C1:1767:G:C8	2.51	0.46
1:C1:276:C:O2	1:C1:277:U:H3'	2.16	0.46
1:C1:542:A:C2	1:C1:544:A:H3'	2.51	0.46
1:C1:611:U:O4	1:C1:612:U:C4	2.68	0.46
1:C1:758:U:C3'	1:C1:759:U:H6	2.28	0.46
29:D1:10:C:C2'	29:D1:10:C:O2	2.52	0.46
29:D1:1199:C:N4	74:D1:3574:OHX:N6	2.61	0.46
29:D1:1447:G:C8	29:D1:2355:G:O6	2.69	0.46
29:D1:1454:A:O5'	29:D1:1878:G:N1	2.43	0.46
29:D1:1471:U:C2	29:D1:1472:U:C6	3.04	0.46
29:D1:1658:G:N1	29:D1:1796:G:O6	2.49	0.46
29:D1:2107:A:O2'	29:D1:2108:C:H5'	2.16	0.46
29:D1:2289:U:O2	29:D1:2289:U:H2'	2.14	0.46
29:D1:2307:G:C6	29:D1:2310:U:C4	3.03	0.46
29:D1:2346:C:C2'	29:D1:2347:U:H5'	2.46	0.46
29:D1:2426:U:H2'	29:D1:2427:U:C6	2.51	0.46
29:D1:2948:C:O2'	29:D1:2949:U:C5'	2.59	0.46
29:D1:2390:A:C4	29:D1:2990:G:N2	2.84	0.46
29:D1:594:U:N3	29:D1:595:G:C2	2.58	0.46
29:D1:707:U:OP1	29:D1:782:U:O2'	2.25	0.46
29:D1:759:U:O4	29:D1:773:G:N7	2.49	0.46
29:D1:847:A:C2'	29:D1:848:A:C8	2.91	0.46
29:D1:963:G:H8	29:D1:963:G:C4'	2.25	0.46
37:DF:5:LYS:O	37:DF:6:ALA:HB2	2.15	0.46
1:A1:726:C:H5'	1:A1:727:U:OP1	2.16	0.46
1:A1:704:C:N4	1:A1:735:C:H5''	2.31	0.46
29:B1:2725:U:OP2	29:B1:2726:C:P	2.73	0.46
30:B2:63:A:C3'	30:B2:64:A:C5'	2.71	0.46
30:B2:81:U:O2	30:B2:81:U:H2'	2.15	0.46
1:A1:150:U:C4'	1:A1:151:G:OP2	2.64	0.46
1:A1:287:G:H2'	1:A1:288:A:C5'	2.45	0.46
29:D1:2675:C:H5	29:D1:2676:A:N6	2.14	0.46
1:A1:1675:C:C4	1:A1:1678:A:N6	2.84	0.46
1:A1:1685:G:C4	1:A1:1719:A:N1	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1713:G:N3	1:A1:1713:G:C2'	2.78	0.46
1:A1:1714:A:N1	1:A1:1715:G:C2	2.84	0.46
1:A1:329:G:C4	1:A1:330:G:N7	2.84	0.46
1:C1:1211:A:C5	1:C1:1212:G:N7	2.84	0.46
1:C1:1250:U:C2	1:C1:1251:U:C4	3.04	0.46
1:C1:1269:U:H1'	1:C1:1270:G:OP2	2.16	0.46
1:C1:1499:G:C6	1:C1:1508:U:O2	2.60	0.46
1:A1:1160:A:C2'	1:A1:1161:C:C6	2.87	0.46
1:A1:1176:G:C4	1:A1:1464:G:C2	3.03	0.46
1:A1:1227:A:C8	1:A1:1229:G:P	3.09	0.46
1:A1:1274:C:P	1:A1:1428:G:OP1	2.73	0.46
1:A1:1428:G:C2	1:A1:1429:G:N7	2.84	0.46
1:A1:1483:A:C4	1:A1:1524:A:C6	3.04	0.46
1:A1:1559:A:O2'	1:A1:1560:U:H6	1.98	0.46
1:A1:1369:U:O4	74:A1:1959:OHX:N2	2.49	0.46
29:D1:3208:G:N3	29:D1:3208:G:C2'	2.78	0.46
29:B1:382:U:H3'	29:B1:383:G:H4'	1.95	0.46
29:B1:2687:G:H5''	74:B1:3429:OHX:N1	2.30	0.46
31:D3:16:G:N1	74:D3:212:OHX:N6	2.64	0.46
15:AN:20:ILE:C	15:AN:92:ASP:HA	2.36	0.46
30:B2:30:G:C5	30:B2:31:U:N3	2.83	0.46
30:B2:46:A:H2'	30:B2:47:C:C6	2.51	0.46
29:B1:2521:U:H2'	29:B1:2522:G:C4'	2.46	0.46
15:AN:69:LYS:H	15:AN:79:TRP:H	1.62	0.46
29:D1:393:U:O2	29:D1:394:G:O4'	2.33	0.46
29:D1:3279:A:H2'	29:D1:3280:U:C6	2.50	0.46
2:AA:181:VAL:O	2:AA:182:LEU:C	2.52	0.46
1:A1:642:G:O6	1:A1:643:G:C6	2.68	0.46
1:A1:690:G:C6	1:A1:691:C:C4	3.03	0.46
29:B1:2591:A:N1	29:B1:2592:G:H1'	2.30	0.46
2:CA:175:TYR:O	2:CA:177:LEU:N	2.49	0.46
29:B1:2161:G:C5	29:B1:2162:U:C5	3.03	0.46
2:CA:14:ALA:HA	2:CA:15:GLN:HA	1.80	0.46
38:BG:25:GLN:HA	38:BG:28:ALA:HB2	1.96	0.46
29:D1:2232:A:H3'	29:D1:2232:A:C8	2.50	0.46
29:B1:1626:U:C4	29:B1:1627:U:C5	3.04	0.46
1:A1:1330:G:C2'	1:A1:1331:A:H5'	2.45	0.46
29:D1:3074:G:HO2'	29:D1:3075:G:H5'	1.80	0.46
1:A1:895:G:C6	1:A1:896:U:N3	2.84	0.46
29:B1:3274:A:C8	29:B1:3275:U:C2'	2.90	0.46
1:A1:1733:C:H2'	1:A1:1734:U:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:1:G:N2	30:D2:2:G:C4	2.84	0.46
29:D1:3:U:O2'	29:D1:4:U:H5'	2.16	0.46
11:CJ:90:VAL:HA	11:CJ:97:VAL:HA	1.98	0.46
29:B1:3356:G:HO2'	29:B1:3357:U:P	2.39	0.46
29:D1:1731:A:H2'	29:D1:1732:U:O4'	2.16	0.46
29:B1:1354:G:H2'	29:B1:1355:A:C4	2.51	0.46
34:DC:295:ALA:O	34:DC:296:THR:CB	2.64	0.46
1:C1:1124:A:C6	1:C1:1125:A:C2	3.04	0.46
29:B1:1020:G:C6	29:B1:1021:G:C5	3.04	0.46
42:BK:36:VAL:O	42:BK:37:LEU:C	2.54	0.46
29:B1:661:G:C8	29:B1:661:G:OP2	2.68	0.46
43:BN:24:LYS:O	43:BN:25:LYS:O	2.33	0.46
4:AC:140:GLY:HA3	4:AC:182:LEU:CA	2.40	0.46
44:DO:78:GLY:N	44:DO:79:ALA:CB	2.78	0.46
43:DN:10:SER:CB	43:DN:65:LEU:CB	2.94	0.46
17:AP:103:LEU:O	17:AP:104:LEU:O	2.33	0.46
54:DY:131:SER:CB	54:DY:134:ALA:CB	2.92	0.46
45:BP:58:LEU:O	45:BP:59:ARG:CB	2.64	0.46
3:CB:153:SER:O	3:CB:154:LEU:CB	2.64	0.46
29:B1:2529:A:C6	29:B1:2530:G:C6	3.03	0.46
34:DC:301:THR:HA	34:DC:302:LYS:HA	1.69	0.46
1:A1:567:A:N1	1:A1:583:C:H1'	2.31	0.46
21:AT:37:SER:C	21:AT:39:ASP:H	2.18	0.46
47:BR:71:LEU:O	47:BR:72:LYS:C	2.54	0.46
35:BD:190:GLY:C	35:BD:192:GLY:H	2.19	0.46
1:C1:952:A:C2	1:C1:953:G:C8	3.04	0.46
29:D1:790:U:C2'	29:D1:791:A:O5'	2.64	0.46
51:DV:39:LEU:O	51:DV:40:PHE:C	2.54	0.46
29:D1:3050:U:C6	29:D1:3051:U:C5	3.04	0.46
10:CI:45:PHE:CB	10:CI:46:ALA:CA	2.92	0.46
29:B1:729:C:C4	29:B1:730:C:C5	3.03	0.46
43:BN:111:ALA:O	43:BN:113:THR:N	2.48	0.46
39:DH:219:ASP:O	39:DH:223:ALA:CB	2.62	0.46
54:BY:148:ILE:O	54:BY:149:ALA:C	2.53	0.46
29:D1:439:C:C2'	29:D1:439:C:O2	2.64	0.46
29:D1:176:G:N3	29:D1:177:U:C6	2.84	0.46
44:DO:148:TYR:C	44:DO:150:TRP:N	2.69	0.46
3:AB:83:ILE:O	3:AB:99:LYS:O	2.34	0.46
29:D1:1571:A:H2'	29:D1:1571:A:N3	2.31	0.46
29:D1:1700:G:C5	29:D1:1701:C:C5	3.03	0.46
49:DT:35:LYS:C	49:DT:37:GLY:N	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DD:238:LEU:O	35:DD:239:ALA:HB2	2.15	0.46
11:AJ:108:ALA:C	11:AJ:110:THR:H	2.19	0.46
38:DG:144:ILE:O	38:DG:148:VAL:N	2.40	0.46
2:AA:79:ARG:O	2:AA:83:GLN:N	2.49	0.46
38:BG:201:PHE:O	38:BG:202:LEU:CB	2.64	0.46
2:AA:65:ALA:C	2:AA:67:ILE:N	2.69	0.46
21:AT:224:ASN:CB	21:AT:227:ALA:HB3	2.45	0.46
21:AT:95:ALA:C	21:AT:97:GLY:H	2.19	0.46
52:DW:74:LYS:O	52:DW:77:GLU:N	2.42	0.46
29:D1:1125:U:C4	29:D1:1134:G:C6	3.04	0.46
35:BD:261:VAL:O	35:BD:262:TRP:C	2.54	0.46
35:DD:144:LYS:O	35:DD:145:ILE:CB	2.64	0.46
53:DX:70:ILE:HA	53:DX:82:VAL:HA	1.97	0.46
9:CH:118:VAL:O	9:CH:119:THR:C	2.54	0.46
1:C1:1302:U:OP2	1:C1:1302:U:H6	1.99	0.46
29:B1:1803:C:C6	29:B1:1803:C:OP2	2.69	0.46
34:BC:220:VAL:O	34:BC:221:THR:CB	2.64	0.46
1:A1:1001:A:H8	1:A1:1001:A:OP1	1.99	0.46
1:A1:1066:C:H2'	1:A1:1066:C:O2	2.16	0.46
1:A1:1094:G:O2'	1:A1:1095:U:C6	2.63	0.46
1:A1:8:U:H3	1:A1:1139:A:H62	1.64	0.46
1:A1:13:C:H5''	3:AB:162:CYS:HA	1.97	0.46
1:A1:1758:U:C4	1:A1:1759:C:N4	2.84	0.46
1:A1:1786:G:C5	1:A1:1787:C:N4	2.84	0.46
1:A1:26:A:P	1:A1:26:A:H8	2.38	0.46
1:A1:379:U:C2	1:A1:380:U:C5	3.01	0.46
1:A1:406:U:O2'	1:A1:407:A:H5'	2.16	0.46
1:A1:406:U:H3'	1:A1:406:U:OP2	2.16	0.46
1:A1:483:A:C8	1:A1:483:A:OP2	2.69	0.46
1:A1:487:G:N3	1:A1:488:G:N7	2.63	0.46
1:A1:758:U:H3'	1:A1:759:U:C6	2.50	0.46
1:A1:925:G:C2	1:A1:988:A:H1'	2.51	0.46
1:A1:975:C:C4	1:A1:976:G:N7	2.84	0.46
29:B1:1105:A:N6	29:B1:1106:G:O6	2.49	0.46
29:B1:1449:A:C8	29:B1:1450:G:C4	3.04	0.46
29:B1:1532:C:H2'	29:B1:1533:U:N1	2.31	0.46
29:B1:1556:C:C2'	29:B1:1556:C:O2	2.63	0.46
29:B1:1684:U:C3'	29:B1:1684:U:C6	2.98	0.46
29:B1:1793:C:OP1	29:B1:1793:C:H2'	2.16	0.46
29:B1:2157:G:O6	29:B1:2178:A:H2'	2.16	0.46
29:B1:2252:A:C4	29:B1:2253:G:N7	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2315:G:N3	29:B1:2316:G:C8	2.84	0.46
29:B1:280:U:C2	29:B1:282:G:O2'	2.53	0.46
29:B1:2896:A:O2'	29:B1:2897:A:C5'	2.64	0.46
29:B1:3096:C:N3	29:B1:3097:C:C4	2.84	0.46
29:B1:3108:G:C2	29:B1:3109:G:C8	3.04	0.46
29:B1:3294:A:C6	29:B1:3295:A:C8	3.04	0.46
29:B1:2390:A:C5'	29:B1:3307:A:H2	2.29	0.46
29:B1:499:G:C2'	29:B1:500:C:O5'	2.62	0.46
29:B1:520:U:H1'	29:B1:521:A:OP2	2.16	0.46
29:B1:545:U:H2'	29:B1:546:C:C4	2.51	0.46
29:B1:562:C:C2'	29:B1:563:U:H6	2.13	0.46
29:B1:591:G:N1	29:B1:592:A:C5	2.84	0.46
29:B1:614:C:O2'	29:B1:615:U:H5'	2.16	0.46
29:B1:636:C:N3	29:B1:646:A:C8	2.84	0.46
29:B1:828:A:N3	29:B1:828:A:H2'	2.29	0.46
29:B1:92:G:O6	29:B1:94:G:N2	2.49	0.46
29:B1:974:G:C6	29:B1:975:C:C5	3.03	0.46
31:B3:145:U:C4	31:B3:146:U:C4	3.04	0.46
31:B3:35:C:H2'	31:B3:36:G:C8	2.51	0.46
37:BF:166:LYS:O	37:BF:167:ASN:O	2.33	0.46
1:C1:1044:U:O2	1:C1:1045:C:H5	1.99	0.46
1:C1:284:G:OP1	1:C1:285:G:OP2	2.33	0.46
1:C1:38:C:C2'	1:C1:39:A:H5''	2.45	0.46
1:C1:756:A:N6	1:C1:757:A:C6	2.83	0.46
1:C1:75:U:O2'	1:C1:76:A:H4'	2.15	0.46
29:D1:1107:C:O2	29:D1:1108:U:C6	2.69	0.46
29:D1:1201:C:H2'	29:D1:1201:C:O2	2.16	0.46
29:D1:1287:A:C6	29:D1:1288:U:C4	3.04	0.46
29:D1:1317:A:C4	29:D1:1319:G:N7	2.84	0.46
29:D1:1522:U:C6	29:D1:1835:A:O4'	2.68	0.46
29:D1:1536:G:C6	29:D1:1586:G:C2	3.04	0.46
29:D1:1549:U:H2'	29:D1:1550:C:C6	2.50	0.46
29:D1:1557:A:C2'	29:D1:1558:A:O5'	2.63	0.46
29:D1:1852:G:H5''	29:D1:1853:U:OP2	2.16	0.46
29:D1:2185:G:H5''	29:D1:2186:U:OP2	2.15	0.46
29:D1:2240:G:H2'	29:D1:2241:U:C5'	2.45	0.46
29:D1:2294:U:N1	29:D1:2297:U:H5	2.13	0.46
29:D1:281:G:C4	29:D1:282:G:N7	2.84	0.46
29:D1:2831:G:C6	29:D1:2832:C:C4	3.04	0.46
29:D1:2860:U:O2	29:D1:2860:U:H2'	2.16	0.46
29:D1:2917:G:HO2'	29:D1:2918:G:P	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2961:G:H5''	29:D1:2962:U:OP2	2.16	0.46
29:D1:306:A:O4'	29:D1:306:A:OP2	2.32	0.46
29:D1:3302:U:H6	29:D1:3302:U:O5'	1.99	0.46
29:D1:3359:A:N3	29:D1:3360:C:H1'	2.31	0.46
29:D1:3365:U:C2	29:D1:3366:G:C8	3.04	0.46
29:D1:3371:G:O6	29:D1:3372:A:C6	2.69	0.46
29:D1:531:G:C2	29:D1:560:G:N2	2.81	0.46
29:D1:548:G:C8	29:D1:548:G:OP2	2.69	0.46
29:D1:726:G:N2	29:D1:744:A:N7	2.64	0.46
31:D3:9:A:H5'	31:D3:10:A:OP2	2.16	0.46
31:D3:79:A:H3'	31:D3:80:A:C8	2.50	0.46
35:DD:42:VAL:C	35:DD:44:LYS:N	2.67	0.46
37:DF:131:LYS:O	37:DF:132:ALA:C	2.54	0.46
38:DG:69:ALA:O	38:DG:71:ALA:N	2.48	0.46
1:C1:838:G:O6	74:C1:1928:OHX:N1	2.48	0.46
1:C1:743:U:C2	1:C1:809:A:C2	2.90	0.46
29:B1:1056:U:O5'	29:B1:1056:U:C6	2.67	0.46
29:B1:958:C:P	29:B1:2799:A:H2'	2.55	0.46
31:B3:55:U:C2	31:B3:62:C:H5	2.33	0.46
1:A1:192:U:OP1	1:A1:192:U:C2	2.69	0.46
1:A1:80:A:H5'	1:A1:81:G:OP2	2.16	0.46
30:D2:108:A:C6	30:D2:109:G:O6	2.69	0.46
1:C1:340:U:C2	1:C1:341:A:N7	2.84	0.46
1:C1:328:A:N1	1:C1:341:A:C6	2.84	0.46
1:C1:795:U:O4'	1:C1:795:U:O2	2.33	0.46
1:A1:329:G:C4	1:A1:330:G:C8	3.03	0.46
1:A1:328:A:C6	1:A1:341:A:N6	2.84	0.46
1:C1:1345:A:H2'	1:C1:1346:A:C4	2.47	0.46
1:C1:1377:U:C2	1:C1:1378:U:H4'	2.51	0.46
1:C1:1584:G:N3	1:C1:1584:G:H3'	2.30	0.46
1:A1:1237:G:C4	1:A1:1238:A:N7	2.84	0.46
1:A1:1269:U:H4'	1:A1:1270:G:C5'	2.45	0.46
1:A1:1351:G:C6	1:A1:1352:G:N7	2.84	0.46
1:A1:1364:G:C5	1:A1:1365:C:C6	3.03	0.46
1:A1:1437:U:O2'	1:A1:1438:G:H5''	2.15	0.46
1:A1:1504:G:C6	1:A1:1505:A:C6	3.04	0.46
1:A1:1565:C:O2	1:A1:1565:C:H2'	2.14	0.46
1:A1:1595:U:C6	1:A1:1596:C:C2	3.03	0.46
1:C1:1054:U:C2	1:C1:1055:U:C6	3.04	0.46
29:D1:1184:A:H5'	29:D1:1184:A:C8	2.46	0.46
29:B1:382:U:C6	29:B1:383:G:O4'	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:41:G:N1	30:D2:43:U:C6	2.84	0.46
36:BE:163:LEU:O	36:BE:166:ALA:N	2.49	0.46
29:B1:2232:A:C8	29:B1:2232:A:H3'	2.51	0.46
29:B1:72:C:C4	29:B1:73:C:C1'	2.98	0.46
1:C1:1318:G:N2	1:C1:1319:A:N3	2.63	0.46
29:B1:3224:G:C6	29:B1:3225:C:C5	3.04	0.46
29:B1:3260:G:C6	29:B1:3261:C:O4'	2.68	0.46
29:B1:1076:C:H3'	29:B1:1077:U:C6	2.51	0.46
1:A1:883:C:H5''	1:A1:884:A:OP2	2.15	0.46
29:B1:1628:C:O3'	29:B1:1630:U:H6	1.99	0.46
39:BH:188:THR:C	39:BH:190:VAL:H	2.19	0.46
29:D1:1678:G:C4'	29:D1:1756:C:H4'	2.45	0.46
36:DE:111:GLN:H	36:DE:114:GLY:CA	2.29	0.46
1:C1:921:U:C2'	1:C1:922:G:H5'	2.43	0.46
1:C1:492:A:C2	1:C1:494:U:H5''	2.51	0.46
1:A1:718:U:C5	1:A1:722:G:C5	3.00	0.46
1:A1:772:G:O5'	1:A1:772:G:H8	1.99	0.46
37:BF:114:LYS:O	37:BF:115:GLU:C	2.53	0.46
5:AD:61:TYR:HA	5:AD:64:VAL:CB	2.46	0.46
29:D1:2154:U:H4'	33:DB:239:ALA:CB	2.46	0.46
1:C1:1358:G:HO2'	14:CM:129:GLN:C	2.13	0.46
29:D1:3165:A:C2	29:D1:3286:G:C5	3.04	0.46
33:DB:231:SER:C	33:DB:233:GLN:N	2.70	0.46
35:DD:118:LYS:O	35:DD:121:ALA:HB3	2.16	0.46
29:D1:247:C:C3'	29:D1:248:U:H4'	2.46	0.46
29:D1:731:U:OP1	47:DR:135:GLN:HA	2.16	0.46
29:D1:230:U:H2'	29:D1:231:G:C1'	2.46	0.46
29:B1:1386:A:O2'	29:B1:1387:G:P	2.74	0.46
44:DO:143:ARG:CA	44:DO:146:ALA:HB2	2.46	0.46
29:B1:2414:G:H2'	29:B1:2415:C:H6	1.79	0.46
2:AA:54:TRP:O	2:AA:56:LYS:N	2.49	0.46
20:CS:25:SER:O	20:CS:26:SER:C	2.54	0.46
1:C1:1305:U:H3'	1:C1:1306:C:N3	2.30	0.46
2:CA:67:ILE:C	2:CA:69:ASN:N	2.69	0.46
9:AH:27:PHE:HA	9:AH:43:THR:CB	2.46	0.46
73:DM:95:GLU:O	73:DM:96:ILE:C	2.53	0.46
8:CG:119:GLU:O	8:CG:120:SER:C	2.54	0.46
29:B1:2710:C:C3'	29:B1:2710:C:C6	2.99	0.46
42:DK:32:ARG:C	42:DK:34:SER:N	2.67	0.46
1:C1:1788:G:OP2	1:C1:1788:G:C8	2.69	0.46
15:AN:119:ALA:HB1	15:AN:120:SER:CA	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BW:75:LYS:C	52:BW:77:GLU:H	2.18	0.46
48:BS:35:ALA:HB1	48:BS:40:ALA:HB1	1.98	0.46
11:AJ:62:ASN:O	11:AJ:63:ILE:CB	2.64	0.46
50:DU:24:ASN:O	50:DU:99:ALA:HA	2.15	0.46
37:BF:139:LYS:O	37:BF:140:VAL:C	2.55	0.46
3:AB:101:VAL:HA	3:AB:114:GLY:O	2.15	0.46
42:BK:114:ILE:O	42:BK:115:LYS:O	2.34	0.46
21:AT:135:THR:O	21:AT:137:LYS:N	2.48	0.46
37:DF:139:LYS:O	37:DF:140:VAL:C	2.54	0.46
29:B1:695:C:H2'	29:B1:695:C:O2	2.16	0.46
1:C1:1798:U:O4'	1:C1:1798:U:O2	2.33	0.46
34:DC:182:GLN:O	34:DC:183:LEU:C	2.54	0.46
1:A1:1039:A:O2'	1:A1:1040:G:O5'	2.32	0.46
1:A1:96:G:H5'	1:A1:460:A:O3'	2.16	0.46
1:A1:556:A:O2'	1:A1:590:C:O4'	2.20	0.46
1:A1:625:C:H2'	1:A1:626:U:C6	2.51	0.46
1:A1:966:A:C2'	1:A1:967:A:O5'	2.64	0.46
29:B1:1293:U:C2'	29:B1:1294:A:O5'	2.63	0.46
29:B1:1453:A:N3	29:B1:1878:G:C2	2.84	0.46
29:B1:1503:A:H2'	29:B1:1504:A:O4'	2.16	0.46
29:B1:1517:G:C2	29:B1:1518:U:C4	3.04	0.46
29:B1:1559:A:C2'	29:B1:1560:G:H5'	2.46	0.46
29:B1:1675:G:C2	29:B1:1773:C:N3	2.84	0.46
29:B1:1787:A:C6	29:B1:1788:C:C4	3.03	0.46
29:B1:1901:A:H5''	29:B1:2919:A:P	2.54	0.46
29:B1:222:A:N3	29:B1:222:A:H2'	2.31	0.46
29:B1:2279:A:C3'	29:B1:2280:A:C5'	2.95	0.46
29:B1:2313:A:C1'	29:B1:2315:G:C8	2.99	0.46
29:B1:2394:G:H2'	29:B1:2395:G:O4'	2.16	0.46
29:B1:2409:G:C2	29:B1:2411:U:C6	3.04	0.46
29:B1:2931:C:C2	29:B1:2935:U:C5	3.04	0.46
29:B1:2959:C:H5'	29:B1:2960:C:OP2	2.16	0.46
29:B1:2985:C:C2	29:B1:2986:U:C5	3.04	0.46
29:B1:3106:A:H2'	29:B1:3107:U:O5'	2.16	0.46
29:B1:3125:U:H2'	29:B1:3126:C:H5'	1.96	0.46
29:B1:3311:C:C4	29:B1:3312:U:C4	3.04	0.46
29:B1:3315:G:P	29:B1:3316:A:OP1	2.73	0.46
29:B1:36:C:H2'	29:B1:37:U:H5'	1.97	0.46
29:B1:533:A:O2'	29:B1:534:U:N1	2.48	0.46
29:B1:554:A:H2'	29:B1:555:U:H5''	1.96	0.46
29:B1:606:C:C6	29:B1:606:C:C4'	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:745:C:H42	29:B1:746:A:H61	1.60	0.46
29:B1:797:U:H2'	29:B1:798:G:C8	2.51	0.46
29:B1:910:G:C6	29:B1:911:C:C4	3.04	0.46
29:B1:945:C:H2'	29:B1:945:C:O2	2.15	0.46
29:B1:9:U:O2	29:B1:9:U:C2'	2.64	0.46
34:BC:2:SER:C	34:BC:4:ARG:N	2.69	0.46
1:C1:1026:A:C2	1:C1:1792:G:N3	2.84	0.46
1:C1:388:G:H2'	1:C1:389:G:H8	1.81	0.46
1:C1:954:G:N7	1:C1:955:A:N7	2.63	0.46
29:D1:1130:A:C8	29:D1:1132:C:C6	3.04	0.46
29:D1:1178:G:OP2	29:D1:1179:A:OP2	2.34	0.46
29:D1:1220:U:C5	29:D1:1286:A:N6	2.84	0.46
29:D1:1194:G:H8	29:D1:1319:G:H5''	1.79	0.46
29:D1:1461:A:C5	29:D1:1462:A:C5	3.04	0.46
29:D1:1535:A:H3'	29:D1:1536:G:O4'	2.16	0.46
29:D1:1617:G:H2'	29:D1:1618:G:H5'	1.98	0.46
29:D1:1778:G:O3'	29:D1:1779:C:O2	2.34	0.46
29:D1:1779:C:OP1	29:D1:1780:G:H5''	2.16	0.46
29:D1:2270:A:C5'	29:D1:2270:A:C8	2.81	0.46
29:D1:2370:G:H8	29:D1:2370:G:O5'	1.99	0.46
29:D1:2632:G:C6	29:D1:2633:U:C4	3.04	0.46
29:D1:2702:A:N7	29:D1:2704:A:N6	2.64	0.46
29:D1:2847:A:C8	29:D1:2898:G:C5	3.04	0.46
29:D1:294:U:C2'	29:D1:295:A:H5''	2.45	0.46
29:D1:2987:A:C2'	29:D1:2988:C:H6	1.95	0.46
29:D1:3026:G:H3'	29:D1:3026:G:C8	2.51	0.46
29:D1:3113:A:H2'	29:D1:3114:A:H5'	1.97	0.46
29:D1:3340:G:H2'	29:D1:3341:U:O5'	2.16	0.46
29:D1:3341:U:H3'	29:D1:3343:G:H1	1.79	0.46
29:D1:383:G:N2	29:D1:387:A:C5	2.84	0.46
29:D1:413:U:O5'	29:D1:413:U:C6	2.67	0.46
29:D1:60:A:C8	29:D1:327:A:C2	3.04	0.46
29:D1:695:C:O2	29:D1:695:C:C2'	2.63	0.46
29:D1:705:A:H2	29:D1:714:G:N3	2.13	0.46
29:D1:810:A:C2	29:D1:811:U:C4	3.04	0.46
29:D1:808:A:N6	29:D1:934:G:C5	2.84	0.46
29:D1:991:G:H2'	29:D1:992:A:O4'	2.16	0.46
31:D3:74:U:P	31:D3:76:C:C4	3.09	0.46
31:D3:88:A:C8	31:D3:89:A:C6	3.04	0.46
1:A1:738:G:H2'	1:A1:739:G:N7	2.31	0.46
1:A1:824:G:H5''	1:A1:825:U:OP1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:837:G:O2'	1:A1:838:G:H5'	2.15	0.46
1:A1:824:G:O6	1:A1:850:A:N3	2.49	0.46
29:B1:2730:G:C6	29:B1:2731:U:C5	3.03	0.46
30:B2:104:A:C5	30:B2:105:C:C6	3.03	0.46
30:B2:69:C:H1'	30:B2:110:G:N2	2.31	0.46
31:B3:74:U:OP1	31:B3:76:C:C5	2.68	0.46
31:B3:95:G:OP1	31:B3:96:A:OP2	2.34	0.46
1:A1:196:G:C6	1:A1:197:A:C2	3.04	0.46
30:D2:11:A:O2'	30:D2:68:C:H5'	2.15	0.46
1:C1:1682:U:OP2	1:C1:1682:U:C6	2.69	0.46
1:C1:339:C:C2	1:C1:340:U:C5	3.04	0.46
29:D1:2675:C:C5	29:D1:2676:A:N6	2.84	0.46
29:D1:2680:A:H61	42:DK:56:THR:CB	2.29	0.46
1:A1:1683:C:OP2	1:A1:1684:U:OP2	2.34	0.46
1:A1:321:C:H2'	1:A1:322:G:H8	1.81	0.46
1:C1:1474:G:N3	1:C1:1475:A:C8	2.83	0.46
1:C1:1478:G:C4	1:C1:1479:A:C8	3.04	0.46
1:C1:1489:U:H6	1:C1:1494:C:N3	2.14	0.46
1:A1:1536:G:C5	1:A1:1538:U:O2	2.68	0.46
1:A1:1543:A:N6	1:A1:1568:C:H1'	2.31	0.46
4:CC:39:VAL:HA	4:CC:47:GLU:O	2.16	0.46
29:B1:3175:U:O2	29:B1:3175:U:O5'	2.34	0.46
29:D1:3189:G:C4	29:D1:3190:C:C5	3.03	0.46
29:D1:3189:G:N2	29:D1:3190:C:C2	2.84	0.46
29:B1:3245:A:O2'	29:B1:3246:G:O5'	2.34	0.46
29:D1:192:C:N3	29:D1:204:A:C2	2.84	0.46
29:D1:198:A:H2	29:D1:219:A:C8	2.34	0.46
74:D1:3555:OHX:N5	74:D1:3625:OHX:N1	2.63	0.46
29:B1:1234:G:N7	29:B1:1235:U:H2'	2.30	0.46
29:B1:1278:A:N7	29:B1:1279:C:C4	2.83	0.46
29:D1:3214:U:HO2'	29:D1:3218:A:P	2.38	0.46
29:D1:3262:U:OP2	29:D1:3262:U:C3'	2.58	0.46
31:B3:124:G:OP1	31:B3:124:G:C4'	2.64	0.46
30:D2:47:C:O2	30:D2:48:U:N3	2.49	0.46
29:D1:1262:G:O6	29:D1:1264:G:C2	2.69	0.46
29:B1:2513:U:H5	29:B1:2591:A:H61	1.60	0.46
9:CH:21:ALA:HB2	9:CH:26:THR:HA	1.98	0.46
29:D1:1062:A:O5'	29:D1:1063:G:O6	2.34	0.46
29:B1:342:A:C4	29:B1:349:A:N7	2.84	0.46
1:C1:701:U:C2	1:C1:702:G:C8	3.03	0.46
29:B1:1641:U:O2'	29:B1:1643:A:OP1	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1953:G:N1	29:D1:2092:A:OP2	2.49	0.46
29:D1:2105:G:O2'	29:D1:2106:A:O4'	2.34	0.46
1:A1:1308:G:C5	1:A1:1309:C:C5	3.04	0.46
1:A1:1311:U:H2'	1:A1:1313:A:OP2	2.16	0.46
1:A1:1341:A:C2'	1:A1:1341:A:N3	2.78	0.46
1:A1:1407:U:C6	1:A1:1408:G:C8	3.04	0.46
1:A1:1411:A:H5'	1:A1:1412:G:OP2	2.16	0.46
29:D1:1686:U:C4'	29:D1:1687:U:OP2	2.58	0.46
29:B1:1713:G:C6	29:B1:1730:G:N3	2.84	0.46
29:D1:1347:U:H3'	29:D1:1348:U:C6	2.51	0.46
29:D1:2914:G:C4	29:D1:2915:U:C5	3.04	0.46
29:D1:1736:G:C5	29:D1:1737:U:C5	3.04	0.46
29:B1:2910:A:C2'	29:B1:2911:A:OP2	2.64	0.46
29:B1:1384:U:H6	29:B1:1384:U:OP2	1.99	0.46
45:DP:165:ALA:O	45:DP:166:GLU:C	2.54	0.46
42:BK:85:LYS:O	42:BK:87:LYS:N	2.49	0.46
14:CM:130:ARG:O	14:CM:131:ASP:C	2.55	0.46
17:AP:44:GLY:C	17:AP:46:SER:N	2.68	0.46
34:DC:91:GLY:HA2	34:DC:159:ARG:H	1.80	0.46
48:BS:62:ARG:O	48:BS:65:ALA:CB	2.59	0.46
35:BD:119:ARG:O	35:BD:120:TYR:C	2.54	0.46
1:C1:1622:G:N3	1:C1:1622:G:H2'	2.31	0.46
48:BS:129:GLY:O	48:BS:130:ASN:CB	2.63	0.46
6:CE:96:VAL:O	6:CE:97:LEU:C	2.54	0.46
36:DE:31:TYR:O	36:DE:35:ARG:CB	2.64	0.46
13:AL:44:ASN:O	13:AL:45:LEU:C	2.55	0.46
44:DO:143:ARG:O	44:DO:146:ALA:HB2	2.16	0.46
29:D1:1671:C:C4	29:D1:1672:U:C5	3.04	0.46
29:B1:508:U:O2	29:B1:508:U:C2'	2.64	0.46
3:CB:146:THR:O	3:CB:147:ASN:C	2.55	0.46
49:BT:14:MET:C	49:BT:16:GLN:N	2.68	0.46
5:AD:183:ALA:O	5:AD:184:PHE:CB	2.64	0.46
2:CA:82:GLY:O	2:CA:85:ALA:HB3	2.16	0.46
1:A1:575:C:C5	1:A1:576:G:N7	2.84	0.46
33:DB:4:VAL:O	33:DB:5:ILE:O	2.33	0.46
2:CA:51:GLY:O	2:CA:54:TRP:N	2.42	0.46
46:BQ:25:SER:CB	46:BQ:29:THR:H	2.29	0.46
29:B1:2454:G:N1	29:B1:2484:A:C5	2.83	0.46
74:B1:3578:OHX:N2	74:B1:3609:OHX:N2	2.64	0.46
11:CJ:62:ASN:O	11:CJ:63:ILE:CB	2.63	0.46
29:D1:2843:U:OP2	29:D1:2843:U:H3'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:97:ARG:O	3:AB:98:PHE:CB	2.63	0.46
1:A1:1039:A:O4'	1:A1:1081:A:N6	2.48	0.45
1:A1:1117:U:O2'	1:A1:1118:G:H5'	2.15	0.45
1:A1:445:A:C2	1:A1:446:A:C8	3.04	0.45
1:A1:529:A:O2'	1:A1:530:C:P	2.74	0.45
1:A1:551:G:C4	1:A1:552:G:N7	2.84	0.45
1:A1:571:G:H2'	1:A1:572:C:C6	2.51	0.45
1:A1:604:A:C6	1:A1:605:A:N1	2.84	0.45
1:A1:621:A:H5''	1:A1:622:A:OP2	2.16	0.45
1:A1:96:G:C6	1:A1:97:C:N4	2.84	0.45
29:B1:643:U:H2'	29:B1:1153:A:N1	2.31	0.45
29:B1:1119:C:H1'	29:B1:1154:A:C4	2.51	0.45
29:B1:1148:G:O2'	29:B1:1171:G:O4'	2.33	0.45
29:B1:11:A:HO2'	29:B1:12:A:H5'	1.81	0.45
29:B1:1678:G:H5''	29:B1:1756:C:O3'	2.16	0.45
29:B1:1847:A:C2	29:B1:1849:C:N1	2.84	0.45
29:B1:206:G:N1	29:B1:207:U:C2	2.84	0.45
29:B1:208:C:C2	29:B1:209:A:C8	3.04	0.45
29:B1:2112:U:C4'	29:B1:2113:A:OP2	2.65	0.45
29:B1:1556:C:N4	29:B1:2169:G:N7	2.62	0.45
29:B1:2180:G:C6	29:B1:2181:C:N4	2.84	0.45
29:B1:2184:U:H2'	29:B1:2185:G:O4'	2.16	0.45
29:B1:2301:U:O2'	29:B1:2302:G:H5'	2.16	0.45
29:B1:2365:C:OP1	29:B1:2365:C:C6	2.66	0.45
29:B1:2610:G:H2'	29:B1:2610:G:N3	2.31	0.45
29:B1:2743:A:C8	29:B1:2744:U:C5	3.05	0.45
29:B1:2852:C:N4	29:B1:2853:A:N3	2.64	0.45
29:B1:2925:C:C6	29:B1:2926:A:C8	3.04	0.45
29:B1:3048:A:O4'	29:B1:3048:A:N3	2.48	0.45
29:B1:3090:U:C4'	29:B1:3090:U:C6	2.94	0.45
29:B1:3309:G:C5	29:B1:3310:A:H1'	2.50	0.45
29:B1:3316:A:H62	29:B1:3320:A:N6	2.12	0.45
29:B1:502:U:C2'	29:B1:503:C:H5'	2.47	0.45
29:B1:565:U:H2'	29:B1:566:G:H5'	1.95	0.45
29:B1:709:A:OP1	29:B1:709:A:C8	2.53	0.45
29:B1:721:G:H2'	29:B1:722:G:OP2	2.16	0.45
29:B1:747:A:C8	29:B1:747:A:O5'	2.69	0.45
29:B1:773:G:H21	29:B1:774:G:C1'	2.29	0.45
29:B1:915:A:C2	29:B1:917:A:H1'	2.52	0.45
29:B1:917:A:N3	29:B1:917:A:H2'	2.31	0.45
29:B1:963:G:C6	29:B1:964:G:C5	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:975:C:H5''	29:B1:975:C:C6	2.50	0.45
31:B3:116:G:H2'	31:B3:117:C:O5'	2.16	0.45
35:BD:153:SER:C	35:BD:155:ASP:N	2.67	0.45
44:BO:86:ASN:O	44:BO:87:GLN:C	2.54	0.45
46:BQ:141:SER:O	46:BQ:143:PRO:N	2.49	0.45
1:C1:1113:A:N3	1:C1:1115:U:C5	2.84	0.45
1:C1:1150:G:C2'	1:C1:1151:A:O5'	2.64	0.45
1:C1:119:A:O4'	1:C1:397:A:C1'	2.63	0.45
1:C1:129:U:H5	1:C1:264:G:N7	2.14	0.45
1:C1:1644:C:H2'	1:C1:1645:G:O5'	2.15	0.45
1:C1:173:A:N1	1:C1:174:U:C1'	2.72	0.45
1:C1:1760:G:C2	1:C1:1761:U:C6	3.04	0.45
1:C1:17:C:N3	1:C1:18:C:C5	2.84	0.45
1:C1:186:C:N4	1:C1:187:G:C4	2.85	0.45
1:C1:199:G:C5	1:C1:200:A:N7	2.84	0.45
1:C1:358:U:O2	1:C1:360:A:C8	2.69	0.45
1:C1:366:A:C2	1:C1:376:C:C2	3.04	0.45
1:C1:436:A:H5''	1:C1:437:A:P	2.57	0.45
1:C1:45:U:C2	1:C1:436:A:N6	2.84	0.45
1:C1:426:G:H21	1:C1:459:G:C2'	2.29	0.45
1:C1:529:A:O2'	1:C1:530:C:P	2.74	0.45
1:C1:588:U:N3	1:C1:589:C:C5	2.83	0.45
1:C1:63:G:OP1	1:C1:63:G:C8	2.69	0.45
1:C1:756:A:C5	1:C1:757:A:C5	3.04	0.45
1:C1:814:A:H2'	1:C1:816:G:H21	1.81	0.45
1:C1:968:U:H5''	1:C1:1033:C:O2'	2.15	0.45
1:C1:925:G:C2	1:C1:988:A:H1'	2.51	0.45
29:D1:1192:C:O3'	29:D1:1193:A:C4'	2.64	0.45
29:D1:1212:A:C5	29:D1:1294:A:C2	3.04	0.45
29:D1:1338:C:O2	29:D1:1338:C:C2'	2.63	0.45
29:D1:1794:G:O3'	29:D1:1796:G:N2	2.43	0.45
29:D1:2107:A:C4	29:D1:2108:C:C6	3.04	0.45
29:D1:2133:U:H2'	29:D1:2134:G:H5'	1.97	0.45
29:D1:2150:G:C3'	29:D1:2151:C:H5''	2.46	0.45
29:D1:23:A:H5''	29:D1:24:G:OP2	2.16	0.45
29:D1:2853:A:C6	29:D1:2854:U:C2	3.04	0.45
29:D1:2983:C:O4'	29:D1:2983:C:O2	2.30	0.45
29:D1:3060:C:H2'	29:D1:3061:G:C8	2.51	0.45
29:D1:3079:U:H3'	29:D1:3080:G:C5'	2.46	0.45
29:D1:3090:U:C4'	29:D1:3090:U:C6	2.99	0.45
29:D1:3092:C:C5'	29:D1:3093:C:OP2	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3153:U:H1'	29:D1:3395:G:H21	1.80	0.45
29:D1:3289:G:N7	74:D1:3524:OHX:N2	2.65	0.45
29:D1:34:A:C6	29:D1:35:A:C6	3.04	0.45
29:D1:504:A:C2'	29:D1:505:G:C5'	2.93	0.45
29:D1:558:U:O2	29:D1:558:U:O2'	2.34	0.45
29:D1:559:A:C2'	29:D1:560:G:C8	2.96	0.45
29:D1:584:G:C2	29:D1:585:A:C4	3.03	0.45
29:D1:693:A:C5	29:D1:694:C:C5	3.04	0.45
29:D1:752:C:O2'	29:D1:753:C:H6	1.99	0.45
29:D1:795:G:H4'	29:D1:1111:U:O3'	2.16	0.45
29:D1:918:C:H2'	29:D1:919:U:O4'	2.16	0.45
29:D1:941:G:O5'	29:D1:941:G:H8	2.00	0.45
29:D1:993:G:C4	29:D1:2637:A:N3	2.84	0.45
31:D3:103:G:C5	31:D3:105:A:C6	3.04	0.45
31:D3:118:C:O2	31:D3:118:C:H2'	2.15	0.45
31:D3:50:C:HO2'	31:D3:51:G:P	2.38	0.45
33:DB:200:ARG:C	33:DB:202:VAL:N	2.69	0.45
1:A1:839:U:C4	1:A1:840:U:O4	2.69	0.45
1:C1:824:G:C5'	1:C1:825:U:OP1	2.64	0.45
1:A1:685:A:O2'	1:A1:686:C:O5'	2.33	0.45
29:B1:2630:C:C2'	29:B1:2631:U:O5'	2.63	0.45
29:B1:993:G:C4	29:B1:2637:A:N3	2.84	0.45
1:A1:153:G:C2	1:A1:162:A:C5	3.03	0.45
1:A1:210:A:N6	1:A1:256:A:N6	2.64	0.45
1:C1:114:C:H42	1:C1:250:C:C4'	2.28	0.45
1:C1:333:A:N1	1:C1:334:G:N1	2.64	0.45
42:BK:61:ARG:O	42:BK:63:GLU:N	2.49	0.45
1:A1:328:A:N1	1:A1:341:A:C6	2.84	0.45
1:A1:800:U:C2	1:A1:801:G:N7	2.85	0.45
1:C1:1449:U:H2'	1:C1:1450:U:C6	2.49	0.45
1:C1:1480:G:N2	1:C1:1528:U:C2	2.84	0.45
1:C1:1533:C:H4'	1:C1:1539:G:C6	2.51	0.45
1:C1:1557:U:C3'	1:C1:1557:U:O2	2.64	0.45
1:C1:1619:C:H2'	1:C1:1620:C:C6	2.52	0.45
1:A1:1155:G:C2	1:A1:1156:C:C4	3.04	0.45
1:A1:1186:U:C1'	1:A1:1208:A:C2	2.99	0.45
1:A1:1207:C:C4	1:A1:1208:A:N6	2.84	0.45
1:A1:1379:C:H3'	1:A1:1380:U:H5'	1.98	0.45
1:A1:1478:G:C2	1:A1:1479:A:C4	3.04	0.45
29:B1:382:U:C4	29:B1:383:G:C8	3.04	0.45
29:B1:382:U:H3'	29:B1:383:G:C4'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:624:G:N3	29:D1:625:G:C8	2.84	0.45
30:D2:26:C:C4'	30:D2:27:A:OP1	2.59	0.45
29:B1:3023:U:H4'	29:B1:3024:A:OP2	2.14	0.45
29:D1:212:G:C5	29:D1:222:A:N7	2.85	0.45
29:D1:190:U:N1	29:D1:224:C:O4'	2.49	0.45
29:B1:1260:A:H2'	29:B1:1261:G:O5'	2.16	0.45
29:D1:3228:C:H3'	29:D1:3229:G:N7	2.30	0.45
2:AA:173:ILE:C	2:AA:175:TYR:N	2.67	0.45
42:DK:19:LEU:O	42:DK:68:HIS:O	2.34	0.45
29:B1:3381:U:C2	29:B1:3383:G:C6	3.04	0.45
29:B1:2591:A:N3	29:B1:2592:G:O4'	2.48	0.45
29:D1:1065:A:O2'	29:D1:1093:A:N1	2.49	0.45
29:B1:70:A:C2'	29:B1:71:A:H5'	2.45	0.45
29:D1:2754:G:H5'	29:D1:2755:C:H5'	1.98	0.45
31:B3:30:C:O2'	31:B3:31:G:O5'	2.34	0.45
1:C1:1330:G:H2'	1:C1:1331:A:O4'	2.16	0.45
16:CO:33:VAL:O	16:CO:34:ILE:C	2.54	0.45
1:C1:1651:A:N1	1:C1:1652:C:C4	2.84	0.45
1:A1:1649:G:N7	74:A1:1969:OHX:N1	2.64	0.45
29:D1:2207:A:H8	29:D1:2237:C:C2	2.35	0.45
29:D1:2214:A:H2'	29:D1:2215:A:H8	1.81	0.45
29:D1:2590:A:C5	29:D1:2591:A:C8	3.04	0.45
29:D1:1952:G:C6	29:D1:2093:A:N6	2.84	0.45
29:D1:2104:A:H2'	29:D1:2105:G:H5''	1.98	0.45
1:A1:1389:C:C4	1:A1:1391:A:O4'	2.69	0.45
29:D1:1084:A:H3'	29:D1:1085:A:C8	2.51	0.45
29:D1:3072:C:O2'	29:D1:3073:A:H5'	2.16	0.45
1:A1:898:A:C2	1:A1:915:A:N6	2.84	0.45
29:D1:2502:A:O2'	29:D1:2503:G:P	2.74	0.45
29:D1:2403:G:H4'	29:D1:2404:A:OP1	2.15	0.45
29:B1:2092:A:OP2	29:B1:2093:A:C8	2.68	0.45
29:B1:2719:U:C4	29:B1:2720:G:C4	3.04	0.45
1:A1:353:A:N6	1:A1:354:C:C2	2.84	0.45
36:BE:98:ALA:HB1	36:BE:162:ALA:N	2.31	0.45
34:BC:295:ALA:O	34:BC:296:THR:CB	2.63	0.45
29:B1:1704:A:H2'	29:B1:1705:U:O5'	2.16	0.45
54:BY:135:GLU:O	54:BY:137:LYS:N	2.49	0.45
5:CD:118:LEU:O	5:CD:119:ASP:C	2.53	0.45
1:A1:761:G:O5'	1:A1:761:G:H8	1.99	0.45
1:C1:728:U:O2	1:C1:728:U:C2'	2.64	0.45
29:D1:2880:U:H2'	29:D1:2881:C:C5'	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:197:GLU:O	34:DC:199:PHE:N	2.49	0.45
29:D1:1358:C:C3'	29:D1:1359:C:H6	2.29	0.45
29:B1:2573:G:C5	29:B1:2574:G:C8	3.03	0.45
1:C1:877:G:O2'	1:C1:878:G:H5'	2.15	0.45
33:DB:78:ALA:HA	33:DB:168:VAL:HA	1.98	0.45
1:C1:575:C:N4	1:C1:576:G:C6	2.84	0.45
29:B1:2443:A:C6	29:B1:2444:C:N4	2.83	0.45
21:AT:53:LYS:C	21:AT:55:GLY:N	2.67	0.45
13:CL:27:LYS:HA	13:CL:57:ARG:CA	2.46	0.45
42:BK:118:PRO:CA	42:BK:119:SER:CB	2.92	0.45
38:BG:219:LYS:O	38:BG:221:LYS:N	2.49	0.45
2:AA:72:ASP:HA	2:AA:95:ALA:HA	1.98	0.45
44:DO:30:TYR:O	44:DO:31:ARG:C	2.55	0.45
21:CT:243:LEU:O	21:CT:244:ALA:HB2	2.15	0.45
21:CT:243:LEU:HA	21:CT:254:ALA:HB2	1.98	0.45
15:CN:97:VAL:C	15:CN:99:ILE:N	2.69	0.45
17:AP:80:GLY:O	17:AP:81:LYS:C	2.53	0.45
29:D1:1757:A:O2'	29:D1:1758:G:H5'	2.16	0.45
21:CT:175:ASP:O	21:CT:176:LYS:CB	2.64	0.45
1:C1:632:U:C2'	1:C1:633:U:O5'	2.64	0.45
1:C1:1705:C:N4	1:C1:1706:C:C4	2.84	0.45
12:CK:27:ASP:C	12:CK:29:GLN:H	2.20	0.45
4:CC:131:ALA:O	4:CC:132:LYS:C	2.54	0.45
40:DI:174:LYS:O	40:DI:176:LEU:N	2.49	0.45
37:DF:67:GLY:O	37:DF:68:PRO:CB	2.65	0.45
18:AQ:94:LYS:C	18:AQ:96:SER:N	2.69	0.45
3:AB:72:LEU:O	3:AB:74:PRO:N	2.50	0.45
5:AD:52:GLU:O	5:AD:53:VAL:C	2.54	0.45
74:B1:3583:OHX:N1	74:B1:3614:OHX:N4	2.64	0.45
46:DQ:62:ARG:C	46:DQ:64:ASN:H	2.18	0.45
29:D1:1814:A:H2'	29:D1:1814:A:N3	2.31	0.45
48:BS:11:ALA:O	48:BS:14:VAL:N	2.49	0.45
34:DC:109:HIS:O	34:DC:110:LEU:CB	2.64	0.45
1:A1:993:A:C6	1:A1:1012:U:C2	3.04	0.45
1:A1:1065:A:C5	1:A1:1066:C:C5	3.03	0.45
1:A1:956:C:H5''	1:A1:1073:G:O2'	2.16	0.45
1:A1:1075:C:N3	1:A1:1076:A:C2	2.84	0.45
1:A1:1110:G:H2'	1:A1:1111:G:H8	1.81	0.45
1:A1:1133:A:N3	1:A1:1133:A:H2'	2.31	0.45
1:A1:1151:A:C6	1:A1:1152:A:N7	2.84	0.45
1:A1:469:C:P	1:A1:469:C:C2	3.09	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:978:A:N6	1:A1:1024:U:C4	2.83	0.45
29:B1:1129:A:C5	29:B1:1130:A:N6	2.84	0.45
29:B1:1178:G:C8	29:B1:1179:A:C5	3.04	0.45
29:B1:1192:C:O2	29:B1:1193:A:C2	2.69	0.45
29:B1:1302:A:N7	29:B1:2857:C:O2'	2.49	0.45
29:B1:1330:A:C8	29:B1:1330:A:H3'	2.50	0.45
29:B1:1497:C:O2'	29:B1:1498:A:H5'	2.16	0.45
29:B1:1562:C:H2'	29:B1:1563:C:C6	2.51	0.45
29:B1:1685:C:C2'	29:B1:1687:U:OP2	2.63	0.45
29:B1:1907:C:C2'	29:B1:1908:A:H5'	2.46	0.45
29:B1:2180:G:H2'	29:B1:2181:C:C6	2.51	0.45
29:B1:2302:G:H2'	29:B1:2303:A:O4'	2.16	0.45
29:B1:2773:C:N3	29:B1:2774:C:C5	2.84	0.45
29:B1:2839:G:C6	29:B1:2850:G:C2	3.04	0.45
29:B1:2965:U:H2'	29:B1:2966:G:H5'	1.99	0.45
29:B1:3060:C:H2'	29:B1:3061:G:C8	2.51	0.45
29:B1:3093:C:O2'	29:B1:3094:A:O5'	2.34	0.45
29:B1:3110:C:N3	29:B1:3111:U:C5	2.84	0.45
29:B1:3140:G:C8	29:B1:3140:G:C5'	2.92	0.45
29:B1:3369:G:O2'	29:B1:3370:A:P	2.74	0.45
29:B1:3392:U:C4	29:B1:3393:U:C4	2.86	0.45
29:B1:374:A:C2	29:B1:375:A:C6	3.04	0.45
29:B1:697:A:C8	29:B1:698:U:H3'	2.50	0.45
29:B1:759:U:H2'	29:B1:760:G:C5'	2.46	0.45
29:B1:774:G:C4	29:B1:775:A:C8	3.04	0.45
29:B1:885:U:N3	29:B1:886:C:C5	2.84	0.45
29:B1:975:C:C2	29:B1:976:U:C5	3.03	0.45
31:B3:116:G:N3	31:B3:117:C:C6	2.84	0.45
35:BD:21:PRO:O	35:BD:22:LEU:CB	2.65	0.45
1:C1:104:A:C2	1:C1:106:U:H1'	2.52	0.45
1:C1:106:U:H3'	1:C1:107:C:H6	1.81	0.45
1:C1:139:C:H4'	1:C1:140:A:O5'	2.17	0.45
1:C1:356:G:C6	1:C1:357:G:C8	3.04	0.45
1:C1:359:A:C2'	1:C1:359:A:N3	2.80	0.45
1:C1:381:C:N3	1:C1:382:C:C5	2.84	0.45
1:C1:509:G:C2'	1:C1:510:G:C8	2.81	0.45
1:C1:590:C:C2	1:C1:591:A:N7	2.84	0.45
1:C1:817:A:C2	1:C1:855:A:C2	3.01	0.45
29:D1:1152:G:HO2'	29:D1:1153:A:P	2.37	0.45
29:D1:1378:U:O2	29:D1:1378:U:C2'	2.63	0.45
29:D1:1379:G:C4	29:D1:1380:G:C8	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1483:G:C8	29:D1:1485:G:C5	3.04	0.45
29:D1:1489:A:H5''	29:D1:1490:A:OP2	2.16	0.45
29:D1:1498:A:C2'	29:D1:1499:C:H5'	2.45	0.45
29:D1:1562:C:H2'	29:D1:1563:C:C6	2.51	0.45
29:D1:1566:A:H2'	29:D1:1567:U:C5	2.51	0.45
29:D1:1617:G:C2'	29:D1:1618:G:H5'	2.46	0.45
29:D1:1528:G:N1	29:D1:1833:G:C6	2.84	0.45
29:D1:1489:A:C2	29:D1:1854:C:C2	3.04	0.45
29:D1:2298:U:C3'	29:D1:2299:A:H5''	2.46	0.45
29:D1:993:G:N7	29:D1:2637:A:C2	2.84	0.45
29:D1:2648:G:C6	29:D1:2649:A:C5	3.04	0.45
29:D1:2688:U:C2'	29:D1:2689:A:OP1	2.64	0.45
29:D1:2716:U:N3	29:D1:2717:U:C5	2.85	0.45
29:D1:2738:A:N3	29:D1:2738:A:H2'	2.31	0.45
29:D1:278:U:N3	29:D1:279:U:C5	2.85	0.45
29:D1:1302:A:O2'	29:D1:2887:A:H2	1.97	0.45
29:D1:2945:G:H8	29:D1:2979:U:O2	1.94	0.45
29:D1:3027:A:C8	29:D1:3028:G:N7	2.84	0.45
29:D1:3028:G:N1	29:D1:3029:A:C2	2.84	0.45
29:D1:3135:U:H3'	29:D1:3136:G:C8	2.50	0.45
29:D1:329:U:O2	29:D1:329:U:O4'	2.30	0.45
29:D1:3325:G:C2'	29:D1:3326:G:O4'	2.64	0.45
29:D1:3337:G:H2'	29:D1:3338:C:O4'	2.16	0.45
29:D1:3298:C:N3	29:D1:3391:A:C2	2.84	0.45
29:D1:3390:G:C5	29:D1:3391:A:C5	3.04	0.45
29:D1:2255:A:C4	74:D1:3415:OHX:N4	2.84	0.45
29:D1:417:A:O2'	29:D1:418:A:H5'	2.17	0.45
29:D1:517:G:C2'	29:D1:518:G:O4'	2.64	0.45
29:D1:524:U:C2	29:D1:525:C:C6	3.03	0.45
29:D1:529:A:H2'	29:D1:530:G:C8	2.51	0.45
29:D1:574:U:C5'	29:D1:574:U:C6	2.94	0.45
29:D1:586:C:H5''	29:D1:587:U:OP2	2.16	0.45
29:D1:692:A:C2	29:D1:693:A:N9	2.84	0.45
29:D1:809:G:H2'	29:D1:810:A:C8	2.51	0.45
31:D3:140:G:C2	31:D3:141:C:C2	3.04	0.45
31:D3:142:C:N3	31:D3:143:U:C4	2.83	0.45
31:D3:1:A:N1	31:D3:2:A:C4	2.84	0.45
31:D3:53:A:H2'	31:D3:54:A:C8	2.51	0.45
31:D3:70:G:H3'	31:D3:71:A:O4'	2.17	0.45
38:DG:51:TYR:C	38:DG:53:LYS:N	2.69	0.45
1:A1:708:C:C4	1:A1:731:C:C5	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:837:G:C4	1:A1:838:G:C8	3.04	0.45
1:C1:831:U:H5'	1:C1:832:U:P	2.57	0.45
1:C1:646:C:H2'	1:C1:647:G:C4'	2.46	0.45
1:C1:747:C:C2	1:C1:748:U:C5	3.04	0.45
29:B1:2639:G:H21	29:B1:2640:A:H1'	1.82	0.45
29:B1:2666:C:O5'	29:B1:2666:C:C6	2.69	0.45
30:B2:14:U:O4'	30:B2:14:U:P	2.74	0.45
30:B2:66:A:C6	30:B2:67:G:C8	3.05	0.45
1:A1:150:U:C5'	1:A1:151:G:OP2	2.64	0.45
1:A1:168:A:N6	1:A1:169:A:N6	2.65	0.45
1:A1:274:G:C4	1:A1:275:C:C5	3.04	0.45
1:A1:289:U:C2	1:A1:290:G:C8	3.04	0.45
1:A1:87:C:O2	1:A1:87:C:C2'	2.56	0.45
30:D2:102:A:C2'	30:D2:103:A:O5'	2.64	0.45
30:D2:11:A:O5'	30:D2:13:A:C5	2.68	0.45
30:D2:66:A:C6	30:D2:67:G:C8	3.04	0.45
30:D2:69:C:N3	30:D2:70:U:C4	2.85	0.45
29:B1:2681:U:H2'	29:B1:2681:U:H6	1.09	0.45
1:A1:112:A:C6	1:A1:303:U:O2	2.70	0.45
1:C1:1167:G:C2'	1:C1:1167:G:N3	2.79	0.45
1:C1:1239:U:H2'	1:C1:1240:U:OP2	2.17	0.45
1:C1:1241:G:C2	1:C1:1243:G:H8	2.34	0.45
1:C1:1471:A:C8	1:C1:1540:G:H1'	2.51	0.45
1:C1:1174:C:H4'	1:C1:1601:G:C5	2.50	0.45
1:C1:1607:G:C2	1:C1:1608:U:C6	3.04	0.45
1:A1:1199:G:C6	1:A1:1200:G:C1'	2.96	0.45
1:A1:1344:A:H1'	1:A1:1345:A:O5'	2.16	0.45
1:A1:1477:G:H2'	1:A1:1478:G:C5'	2.46	0.45
1:A1:1489:U:H6	1:A1:1494:C:N3	2.14	0.45
1:A1:1530:C:H2'	1:A1:1531:G:H8	1.81	0.45
1:A1:1538:U:C5	1:A1:1540:G:C8	3.03	0.45
1:A1:1557:U:O2	1:A1:1558:U:C6	2.69	0.45
1:A1:1591:C:C6	1:A1:1591:C:O5'	2.69	0.45
29:B1:3229:G:H4'	29:B1:3230:G:OP1	2.16	0.45
30:B2:43:U:H2'	30:B2:44:C:C5'	2.46	0.45
29:D1:3253:G:C5	29:D1:3254:G:C8	3.04	0.45
29:D1:187:A:C8	29:D1:211:A:N1	2.85	0.45
29:D1:377:A:HO2'	29:D1:391:A:H61	1.64	0.45
29:B1:1268:G:H2'	29:B1:1269:U:C4'	2.46	0.45
2:AA:178:ALA:HA	2:AA:181:VAL:CB	2.46	0.45
29:B1:73:C:P	29:B1:74:G:O5'	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AP:110:LYS:C	17:AP:112:LYS:H	2.20	0.45
1:A1:1281:G:C6	1:A1:1282:U:C4	3.03	0.45
29:D1:3273:A:O4'	29:D1:3273:A:P	2.73	0.45
46:BQ:85:ALA:O	46:BQ:87:SER:N	2.49	0.45
29:D1:1679:A:C2	29:D1:1680:G:C5	3.04	0.45
5:AD:164:PRO:O	5:AD:166:ARG:N	2.49	0.45
1:C1:1738:U:H2'	1:C1:1739:C:C6	2.52	0.45
29:B1:1347:U:H3'	29:B1:1348:U:C6	2.52	0.45
29:B1:1029:G:H2'	29:B1:1030:A:H5''	1.98	0.45
29:D1:2942:C:C6	29:D1:2942:C:O5'	2.70	0.45
29:D1:1634:G:N1	29:D1:1640:G:O6	2.49	0.45
29:D1:1741:A:H2'	29:D1:1742:U:O4'	2.17	0.45
2:AA:8:ASP:C	2:AA:10:THR:H	2.19	0.45
14:AM:58:ALA:C	14:AM:60:SER:H	2.19	0.45
45:BP:59:ARG:N	45:BP:61:ALA:H	2.14	0.45
1:C1:787:G:H3'	1:C1:788:A:C8	2.52	0.45
13:AL:65:GLU:O	13:AL:66:LEU:C	2.55	0.45
5:AD:93:LEU:O	5:AD:96:SER:N	2.32	0.45
29:B1:1915:A:H5''	48:BS:84:THR:N	2.32	0.45
29:B1:2469:G:N2	29:B1:2488:A:C2	2.84	0.45
29:D1:2468:A:H5''	32:DA:31:THR:CB	2.46	0.45
29:D1:1357:G:C5	29:D1:1358:C:C5	3.04	0.45
1:A1:809:A:N1	1:A1:810:G:C6	2.85	0.45
35:DD:117:GLU:C	35:DD:119:ARG:N	2.67	0.45
1:C1:568:G:C6	1:C1:569:C:C5	3.04	0.45
29:D1:2117:A:C2'	29:D1:2117:A:N3	2.79	0.45
38:DG:167:ALA:HB3	38:DG:176:TYR:CB	2.46	0.45
42:BK:121:GLY:C	42:BK:123:PHE:N	2.69	0.45
33:BB:223:SER:O	33:BB:236:GLY:O	2.33	0.45
4:CC:56:GLN:C	4:CC:59:LEU:H	2.17	0.45
40:BI:140:VAL:O	40:BI:141:LYS:CB	2.63	0.45
43:BN:59:ASN:O	43:BN:60:LEU:CB	2.64	0.45
1:A1:1705:C:N4	1:A1:1706:C:C4	2.85	0.45
48:BS:37:SER:C	48:BS:39:ASN:N	2.69	0.45
74:B1:3583:OHX:N3	74:B1:3614:OHX:N6	2.64	0.45
9:CH:33:LEU:O	9:CH:34:SER:C	2.54	0.45
39:BH:111:LYS:HA	39:BH:112:GLU:HA	1.47	0.45
29:D1:2459:A:N6	29:D1:2486:A:H2	2.15	0.45
34:DC:251:CYS:O	34:DC:252:ILE:CB	2.64	0.45
51:BV:39:LEU:O	51:BV:42:GLN:N	2.49	0.45
40:DI:129:ARG:O	40:DI:131:GLY:N	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DO:163:GLY:O	44:DO:165:THR:N	2.49	0.45
21:CT:128:ASP:O	21:CT:129:LYS:CB	2.64	0.45
54:BY:47:LYS:CB	54:BY:53:PHE:CB	2.94	0.45
1:A1:1065:A:C8	1:A1:1066:C:C5	3.04	0.45
1:A1:1097:U:O2'	1:A1:1097:U:O2	2.28	0.45
1:A1:1116:A:C5	1:A1:1117:U:C5	3.04	0.45
1:A1:1138:A:N1	1:A1:1139:A:C5	2.83	0.45
1:A1:119:A:OP2	1:A1:120:U:C5	2.69	0.45
1:A1:852:C:C4	1:A1:853:G:C2	3.04	0.45
29:B1:1142:G:H3'	29:B1:1143:A:C5'	2.46	0.45
29:B1:1604:G:N1	29:B1:1605:A:C6	2.84	0.45
29:B1:1655:G:H5'	29:B1:1656:A:O5'	2.17	0.45
29:B1:1780:G:O2'	29:B1:1781:C:H6	1.97	0.45
29:B1:1784:G:C6	29:B1:1785:U:C4	3.04	0.45
29:B1:2356:A:C2	29:B1:2357:A:N9	2.83	0.45
29:B1:2383:C:H2'	29:B1:2384:A:C8	2.49	0.45
29:B1:2390:A:O4'	29:B1:3307:A:N1	2.49	0.45
29:B1:2662:G:H2'	29:B1:2662:G:N3	2.30	0.45
29:B1:2399:A:N1	29:B1:2981:U:C5	2.84	0.45
29:B1:3087:A:C4	29:B1:3088:G:C8	3.03	0.45
29:B1:3101:G:C5	29:B1:3134:A:C2	3.04	0.45
29:B1:3129:A:N3	29:B1:3129:A:H2'	2.31	0.45
29:B1:3298:C:C4	29:B1:3299:A:N6	2.85	0.45
29:B1:3310:A:C2	29:B1:3311:C:C1'	3.00	0.45
29:B1:2824:G:N7	74:B1:3478:OHX:N4	2.65	0.45
29:B1:541:U:H2'	29:B1:542:G:C8	2.51	0.45
29:B1:549:U:O2'	29:B1:550:A:O5'	2.23	0.45
29:B1:556:U:C2	29:B1:557:A:H1'	2.51	0.45
29:B1:559:A:C4	29:B1:560:G:C8	3.03	0.45
29:B1:564:G:OP1	29:B1:564:G:H4'	2.16	0.45
29:B1:584:G:C2	29:B1:585:A:C8	3.04	0.45
29:B1:706:A:C6	29:B1:714:G:N2	2.83	0.45
29:B1:771:A:N1	29:B1:772:U:C4	2.85	0.45
29:B1:871:U:C4	29:B1:872:U:C4	3.04	0.45
29:B1:883:A:C6	29:B1:921:A:N6	2.85	0.45
31:B3:104:A:C8	31:B3:105:A:N7	2.84	0.45
31:B3:116:G:C2'	31:B3:117:C:O5'	2.65	0.45
31:B3:40:A:HO2'	31:B3:41:A:P	2.39	0.45
35:BD:54:GLU:C	35:BD:56:ALA:N	2.69	0.45
1:C1:1003:A:C1'	1:C1:1004:U:OP2	2.64	0.45
1:C1:1117:U:C2	1:C1:1118:G:C8	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:262:U:H2'	1:C1:263:C:C6	2.50	0.45
1:C1:289:U:O2	1:C1:290:G:O4'	2.34	0.45
1:C1:312:A:H4'	1:C1:313:U:H5''	1.98	0.45
1:C1:361:C:O2'	1:C1:362:G:H5'	2.16	0.45
29:D1:1108:U:C2	29:D1:1109:U:C5	3.04	0.45
29:D1:1141:C:H2'	29:D1:1142:G:H8	1.81	0.45
29:D1:1168:U:H2'	29:D1:1169:A:C5'	2.47	0.45
29:D1:1197:A:C8	29:D1:1197:A:H5'	2.51	0.45
29:D1:1287:A:H2'	29:D1:1288:U:H6	1.81	0.45
29:D1:1296:C:O2'	29:D1:1297:C:OP1	2.33	0.45
29:D1:1464:G:H21	29:D1:1466:G:H8	1.64	0.45
29:D1:1480:G:N3	29:D1:1480:G:H2'	2.31	0.45
29:D1:1488:G:C6	29:D1:1855:U:C4	3.04	0.45
29:D1:1499:C:O2'	29:D1:1500:G:H5'	2.16	0.45
29:D1:1839:A:OP1	74:D1:3588:OHX:N6	2.49	0.45
29:D1:2192:C:C2'	29:D1:2193:U:H5'	2.42	0.45
29:D1:2262:A:H5''	29:D1:2263:C:OP2	2.16	0.45
29:D1:2370:G:C6	29:D1:2371:G:C5	3.04	0.45
29:D1:22:G:H2'	29:D1:23:A:O4'	2.16	0.45
29:D1:2628:A:O4'	29:D1:2798:C:C5	2.69	0.45
29:D1:2730:G:C2	29:D1:2731:U:C6	3.04	0.45
29:D1:2808:A:C2'	29:D1:2808:A:N3	2.80	0.45
29:D1:2809:C:C2'	29:D1:2810:C:OP1	2.64	0.45
29:D1:282:G:H4'	29:D1:283:G:O5'	2.12	0.45
29:D1:299:G:C5	29:D1:300:G:N7	2.84	0.45
29:D1:3077:A:N7	29:D1:3080:G:C8	2.84	0.45
29:D1:3090:U:HO2'	29:D1:3091:A:P	2.23	0.45
29:D1:3097:C:C3'	29:D1:3097:C:C6	2.99	0.45
29:D1:3309:G:C5	29:D1:3310:A:C1'	3.00	0.45
29:D1:3323:A:C2	29:D1:3324:C:N1	2.84	0.45
29:D1:32:U:C4	29:D1:33:G:C5	3.05	0.45
29:D1:411:U:C2'	29:D1:412:G:H5'	2.45	0.45
29:D1:597:G:N3	29:D1:598:A:N9	2.64	0.45
29:D1:773:G:H21	29:D1:774:G:C1'	2.28	0.45
29:D1:867:G:C6	29:D1:868:C:C4	3.04	0.45
29:D1:976:U:C4	29:D1:977:C:N4	2.84	0.45
31:D3:131:A:N3	31:D3:132:G:C8	2.84	0.45
31:D3:8:C:C5	31:D3:9:A:N7	2.85	0.45
31:D3:91:C:O5'	31:D3:91:C:H6	2.00	0.45
37:DF:30:LEU:CB	37:DF:31:ARG:CA	2.94	0.45
1:C1:837:G:N1	1:C1:838:G:C5	2.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:648:G:C6	1:A1:649:U:C5	3.04	0.45
1:C1:749:U:O2	1:C1:801:G:N3	2.49	0.45
30:B2:11:A:O3'	30:B2:68:C:H4'	2.16	0.45
30:B2:11:A:O5'	30:B2:13:A:C4	2.70	0.45
30:D2:74:C:C5	30:D2:75:G:N7	2.84	0.45
1:C1:321:C:H2'	1:C1:322:G:C8	2.52	0.45
29:D1:2673:A:C2	29:D1:2676:A:C8	3.03	0.45
29:B1:2676:A:C2'	29:B1:2677:G:OP1	2.64	0.45
1:A1:1722:A:H8	1:A1:1723:U:H6	1.54	0.45
1:A1:333:A:H2'	1:A1:334:G:C8	2.51	0.45
1:C1:1200:G:O3'	1:C1:1201:G:O4'	2.33	0.45
1:C1:1217:A:OP2	1:C1:1218:G:H3'	2.16	0.45
1:C1:1367:G:N7	74:C1:2001:OHX:N3	2.64	0.45
1:C1:1218:G:C6	1:C1:1444:A:H8	2.34	0.45
1:C1:1508:U:O4	74:C1:1903:OHX:N4	2.49	0.45
1:C1:1534:G:H4'	1:C1:1536:G:C6	2.51	0.45
1:C1:1566:U:H2'	1:C1:1567:U:C5'	2.46	0.45
1:A1:1198:G:OP2	1:A1:1199:G:N7	2.50	0.45
1:A1:1232:U:C3'	1:A1:1232:U:O2	2.64	0.45
1:A1:1246:C:C6	1:A1:1247:U:C5	3.03	0.45
1:A1:1272:U:O4	1:A1:1431:C:C2	2.69	0.45
1:A1:1472:C:H5'	1:A1:1474:G:C1'	2.46	0.45
1:A1:1528:U:O5'	1:A1:1528:U:H6	1.99	0.45
11:AJ:10:PHE:N	11:AJ:19:VAL:HA	2.32	0.45
29:B1:3278:C:O3'	29:B1:3279:A:O4'	2.33	0.45
43:BN:86:ALA:HA	43:BN:90:VAL:CB	2.47	0.45
29:D1:3182:G:H8	29:D1:3182:G:O5'	1.99	0.45
29:D1:3205:G:C2	43:DN:89:ALA:HB1	2.51	0.45
29:B1:3030:G:O2'	29:B1:3031:G:O5'	2.34	0.45
29:D1:1393:A:C2'	29:D1:1394:A:H5''	2.46	0.45
29:B1:1272:C:C2'	29:B1:1273:A:O5'	2.64	0.45
29:D1:2521:U:H2'	29:D1:2522:G:C4'	2.47	0.45
1:C1:158:U:HO2'	1:C1:159:U:H3'	1.81	0.45
29:B1:2215:A:C2	29:B1:2216:G:N9	2.83	0.45
29:D1:1628:C:O3'	29:D1:1630:U:H6	1.99	0.45
29:B1:1063:G:C4	29:B1:1063:G:OP1	2.70	0.45
29:D1:2592:G:H4'	29:D1:2594:C:C2	2.52	0.45
29:D1:1948:G:N3	29:D1:1949:G:C8	2.85	0.45
29:D1:1078:U:O4	29:D1:1082:U:C4	2.69	0.45
16:AO:30:SER:O	16:AO:34:ILE:CB	2.64	0.45
29:B1:1715:A:N7	29:B1:1716:U:O4'	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:120:C:H2'	30:B2:121:U:C5	2.51	0.45
36:DE:42:ALA:CB	49:DT:69:LYS:O	2.65	0.45
1:A1:1657:U:N3	74:A1:1949:OHX:N5	2.65	0.45
36:BE:44:TYR:CA	36:BE:45:ASN:CB	2.94	0.45
1:A1:312:A:C2	1:A1:314:C:C2	3.04	0.45
1:A1:353:A:C8	1:A1:354:C:C5	3.04	0.45
29:B1:1342:C:H2'	29:B1:1342:C:O2	2.15	0.45
29:B1:1912:U:O2'	29:B1:1913:A:O4'	2.33	0.45
9:CH:65:GLN:C	9:CH:67:VAL:H	2.20	0.45
29:B1:1020:G:C6	29:B1:1021:G:N7	2.84	0.45
52:DW:68:THR:HA	52:DW:72:ALA:CB	2.46	0.45
29:D1:1746:U:H2'	29:D1:1747:G:O4'	2.16	0.45
29:D1:1008:U:C2	29:D1:1043:C:C2	3.04	0.45
45:BP:172:ARG:O	45:BP:173:ALA:C	2.54	0.45
29:B1:1540:U:C2'	29:B1:1541:G:C5'	2.95	0.45
6:CE:66:ASP:O	6:CE:68:LYS:N	2.49	0.45
43:DN:9:ALA:O	43:DN:14:LEU:CB	2.65	0.45
45:DP:77:SER:O	45:DP:78:ARG:C	2.50	0.45
45:DP:79:ILE:O	45:DP:80:PHE:C	2.52	0.45
1:C1:789:A:C5	1:C1:790:U:C4	3.04	0.45
1:C1:792:U:H2'	1:C1:793:A:C5'	2.46	0.45
34:DC:62:ARG:C	34:DC:64:GLY:H	2.20	0.45
5:AD:89:ILE:O	5:AD:90:ILE:C	2.54	0.45
45:DP:58:LEU:C	45:DP:60:LYS:N	2.70	0.45
29:B1:296:A:N6	29:B1:297:G:H1	2.14	0.45
29:D1:174:C:H6	29:D1:174:C:O5'	1.99	0.45
38:DG:110:ARG:C	38:DG:111:ILE:O	2.55	0.45
34:DC:104:THR:O	34:DC:105:VAL:O	2.34	0.45
1:A1:879:G:C6	1:A1:880:C:C4	3.04	0.45
29:B1:96:G:H8	29:B1:96:G:C5'	2.28	0.45
41:DJ:66:GLU:O	41:DJ:68:ALA:N	2.49	0.45
42:DK:155:THR:HA	42:DK:159:THR:CB	2.46	0.45
29:B1:1003:A:C6	29:B1:1004:U:C2	3.04	0.45
6:CE:99:LEU:O	6:CE:102:GLU:N	2.48	0.45
47:DR:24:VAL:O	47:DR:25:TYR:C	2.54	0.45
44:DO:59:PHE:O	44:DO:60:VAL:CB	2.63	0.45
2:AA:54:TRP:C	2:AA:56:LYS:N	2.68	0.45
8:CG:138:ASN:HA	8:CG:142:GLU:H	1.82	0.45
36:DE:193:GLU:O	36:DE:196:ARG:CB	2.64	0.45
37:DF:24:ALA:N	37:DF:114:LYS:CB	2.79	0.45
29:B1:1753:G:N1	29:B1:1754:G:C5	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DU:130:ALA:O	50:DU:131:SER:C	2.55	0.45
14:CM:15:ILE:C	14:CM:17:ALA:N	2.67	0.45
54:BY:36:GLY:O	54:BY:37:GLY:O	2.35	0.45
1:A1:1277:G:C6	1:A1:1278:G:C2	3.05	0.45
1:A1:1276:U:O2'	1:A1:1277:G:H5'	2.16	0.45
72:DL:123:ARG:O	72:DL:124:THR:C	2.55	0.45
48:DS:12:ALA:O	48:DS:13:SER:C	2.55	0.45
41:DJ:94:PHE:O	41:DJ:126:ALA:O	2.34	0.45
34:BC:278:ILE:O	34:BC:280:HIS:N	2.45	0.45
2:CA:205:ARG:O	2:CA:206:ASP:C	2.55	0.45
29:D1:2320:A:O5'	29:D1:2320:A:H8	1.98	0.45
55:BZ:28:LYS:O	55:BZ:31:VAL:N	2.49	0.45
54:BY:46:ASP:HA	54:BY:47:LYS:HA	1.33	0.45
42:DK:97:SER:C	42:DK:99:THR:H	2.19	0.45
9:AH:98:GLY:O	9:AH:101:ALA:HB3	2.16	0.45
21:AT:63:GLY:O	21:AT:64:HIS:C	2.54	0.45
34:DC:337:THR:O	34:DC:338:LEU:C	2.55	0.45
33:BB:130:SER:O	33:BB:131:GLY:C	2.54	0.45
1:A1:413:U:O2'	1:A1:414:C:H5'	2.17	0.45
38:DG:132:PRO:O	38:DG:229:PHE:CB	2.64	0.45
1:A1:104:A:N6	1:A1:106:U:C2	2.84	0.45
1:A1:1765:A:OP2	74:A1:1931:OHX:N3	2.50	0.45
1:A1:1771:U:C2	1:A1:1772:C:C6	3.04	0.45
1:A1:819:G:N1	1:A1:854:U:N3	2.65	0.45
1:A1:938:G:C2	1:A1:942:G:C6	3.04	0.45
17:AP:107:PHE:O	17:AP:108:GLY:C	2.54	0.45
29:B1:108:A:C2'	29:B1:109:A:H5''	2.47	0.45
29:B1:1112:A:H3'	29:B1:1113:G:C8	2.52	0.45
29:B1:111:C:O2'	29:B1:112:U:H5'	2.16	0.45
29:B1:1685:C:C6	29:B1:1687:U:C5	3.04	0.45
29:B1:1878:G:C3'	29:B1:1879:A:H5'	2.47	0.45
29:B1:2222:A:O2'	29:B1:2223:A:H5''	2.17	0.45
29:B1:1891:A:N6	29:B1:2345:A:N6	2.64	0.45
29:B1:636:C:C5	29:B1:2378:C:C1'	2.94	0.45
29:B1:2805:G:O2'	29:B1:2806:U:C5'	2.65	0.45
29:B1:99:A:H1'	29:B1:281:G:C6	2.50	0.45
29:B1:2840:C:N4	29:B1:2841:G:C5	2.85	0.45
29:B1:3003:G:N1	29:B1:3004:C:C4	2.85	0.45
29:B1:3004:C:H2'	29:B1:3005:A:O5'	2.17	0.45
29:B1:3326:G:N1	29:B1:3327:G:C5	2.85	0.45
29:B1:3386:G:H8	29:B1:3386:G:C3'	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:521:A:N7	29:B1:572:A:C6	2.84	0.45
29:B1:594:U:C4	29:B1:595:G:C2	3.04	0.45
29:B1:643:U:O4	29:B1:644:G:C5	2.69	0.45
29:B1:699:A:C3'	29:B1:699:A:C8	2.99	0.45
29:B1:723:U:C4'	29:B1:723:U:H6	2.29	0.45
29:B1:76:G:H8	29:B1:76:G:OP2	1.99	0.45
31:B3:105:A:O3'	31:B3:106:C:H2'	2.16	0.45
35:BD:7:THR:H	35:BD:19:ALA:HA	1.80	0.45
37:BF:159:LEU:O	37:BF:162:SER:N	2.49	0.45
1:C1:101:U:C2'	1:C1:102:U:O5'	2.64	0.45
1:C1:1118:G:C2	1:C1:1119:G:N9	2.85	0.45
1:C1:129:U:C5	1:C1:264:G:N7	2.84	0.45
1:C1:129:U:O4	1:C1:264:G:C8	2.69	0.45
1:C1:14:C:H2'	1:C1:15:U:H6	1.81	0.45
1:C1:1640:C:H3'	1:C1:1640:C:C6	2.51	0.45
1:C1:174:U:O4	1:C1:175:G:C6	2.69	0.45
1:C1:209:U:H3'	1:C1:210:A:H8	1.81	0.45
1:C1:295:A:O2'	1:C1:296:U:O5'	2.27	0.45
1:C1:397:A:H2'	1:C1:397:A:N3	2.31	0.45
1:C1:456:A:C6	1:C1:457:G:C5	3.04	0.45
1:C1:58:U:O2	1:C1:58:U:C2'	2.63	0.45
1:C1:968:U:C2'	1:C1:969:C:O5'	2.64	0.45
29:D1:1105:A:C4	29:D1:1106:G:C8	3.04	0.45
29:D1:1140:G:C2'	29:D1:1140:G:N3	2.79	0.45
29:D1:118:U:H5'	29:D1:118:U:H6	1.81	0.45
29:D1:1295:G:H2'	29:D1:1296:C:C5	2.50	0.45
29:D1:1315:U:O2'	29:D1:1316:C:C5'	2.65	0.45
29:D1:1449:A:C2	29:D1:2356:A:C5	3.03	0.45
29:D1:154:U:OP1	29:D1:156:G:C6	2.70	0.45
29:D1:1551:C:H6	29:D1:1551:C:OP1	1.99	0.45
29:D1:1908:A:N6	29:D1:1909:A:N1	2.64	0.45
29:D1:2302:G:H2'	29:D1:2303:A:O4'	2.16	0.45
29:D1:2325:G:C4	29:D1:2326:A:C8	3.05	0.45
29:D1:653:A:O4'	29:D1:2360:C:H2'	2.16	0.45
29:D1:2654:C:C4'	29:D1:2657:A:C6	2.99	0.45
29:D1:2658:G:H1	29:D1:2712:U:H3	1.64	0.45
29:D1:2839:G:C6	29:D1:2850:G:N2	2.84	0.45
29:D1:2902:A:O2'	29:D1:2903:A:H5'	2.17	0.45
29:D1:3060:C:C2'	29:D1:3061:G:O5'	2.63	0.45
29:D1:3137:C:H5'	29:D1:3138:U:OP2	2.17	0.45
29:D1:3292:A:C2'	29:D1:3293:U:H4'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:25:U:O4	29:D1:331:G:C8	2.70	0.45
29:D1:3322:A:C4	29:D1:3323:A:N7	2.84	0.45
29:D1:3341:U:C4	29:D1:3362:A:N1	2.84	0.45
29:D1:3390:G:C2	29:D1:3391:A:N3	2.83	0.45
29:D1:3393:U:C2	29:D1:3394:U:C6	3.03	0.45
29:D1:46:U:O4	29:D1:47:C:C4	2.69	0.45
29:D1:546:C:H3'	29:D1:546:C:H6	1.81	0.45
29:D1:532:A:N1	29:D1:560:G:C2	2.85	0.45
29:D1:561:C:O2'	29:D1:562:C:P	2.73	0.45
29:D1:597:G:N3	29:D1:598:A:H1'	2.31	0.45
29:D1:739:G:H2'	29:D1:739:G:N3	2.31	0.45
29:D1:826:G:N3	29:D1:827:A:C8	2.85	0.45
29:D1:945:C:C2'	29:D1:946:U:H6	2.29	0.45
31:D3:145:U:O2'	31:D3:146:U:H5'	2.17	0.45
29:D1:331:G:O6	31:D3:33:A:N1	2.48	0.45
31:D3:69:U:C3'	31:D3:70:G:C4'	2.83	0.45
31:D3:8:C:C4	31:D3:9:A:N7	2.85	0.45
37:DF:156:LYS:O	37:DF:160:SER:N	2.45	0.45
44:DO:85:THR:CB	44:DO:88:GLY:N	2.78	0.45
1:A1:704:C:O2'	1:A1:705:U:H5''	2.16	0.45
1:A1:705:U:O2'	1:A1:706:A:C8	2.68	0.45
1:A1:824:G:N1	1:A1:850:A:C2	2.84	0.45
1:A1:830:U:OP1	1:A1:830:U:H3'	2.16	0.45
1:A1:848:C:N3	1:A1:849:C:C4	2.85	0.45
29:B1:995:U:C4	29:B1:2637:A:C8	3.03	0.45
1:A1:142:G:C6	1:A1:266:A:N7	2.84	0.45
1:A1:126:A:C2	1:A1:292:U:H1'	2.50	0.45
30:D2:80:G:C4	30:D2:81:U:C6	3.04	0.45
30:D2:9:C:O5'	30:D2:10:C:O5'	2.35	0.45
1:C1:243:G:HO2'	1:C1:244:A:H5'	1.81	0.45
1:C1:329:G:C4	1:C1:330:G:N7	2.84	0.45
45:DP:128:ARG:O	45:DP:129:LEU:C	2.54	0.45
1:A1:110:U:C3'	1:A1:111:U:H5''	2.43	0.45
1:C1:1200:G:H5'	1:C1:1201:G:H8	1.74	0.45
1:C1:1201:G:H3'	1:C1:1201:G:C4	2.43	0.45
1:C1:1370:U:N3	1:C1:1371:A:H8	2.15	0.45
1:C1:1370:U:C4	1:C1:1371:A:N7	2.85	0.45
1:C1:1558:U:H5	1:C1:1559:A:H3'	1.81	0.45
1:A1:1236:A:C2	1:A1:1237:G:C4	3.05	0.45
1:A1:1364:G:C6	1:A1:1365:C:C4	3.05	0.45
1:A1:1541:G:C5	1:A1:1542:G:O6	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3244:A:O2'	29:B1:3245:A:C8	2.65	0.45
29:D1:221:A:N3	29:D1:224:C:C5	2.85	0.45
29:D1:223:U:OP1	29:D1:225:C:N4	2.49	0.45
29:B1:1228:C:H2'	29:B1:1229:G:C1'	2.47	0.45
1:C1:947:U:O5'	1:C1:947:U:H6	1.99	0.45
29:D1:2589:G:H2'	29:D1:2589:G:N3	2.31	0.45
29:D1:1242:G:C6	29:D1:1243:G:N1	2.84	0.45
29:B1:2432:A:H2'	29:B1:2432:A:N3	2.32	0.45
29:B1:2590:A:C4	29:B1:2591:A:H8	2.35	0.45
29:D1:3351:U:H1'	29:D1:3352:U:OP1	2.16	0.45
31:B3:24:G:C5'	31:B3:24:G:H8	2.29	0.45
29:D1:1627:U:C5	29:D1:1628:C:C2	3.05	0.45
29:D1:1631:C:C2	29:D1:1645:U:C5	3.05	0.45
29:B1:3263:G:C2	29:B1:3264:G:C4	3.04	0.45
29:D1:2510:U:C2	29:D1:2511:A:H8	2.33	0.45
29:B1:1468:A:C2'	29:B1:1469:C:O5'	2.64	0.45
1:C1:127:G:C5	1:C1:179:A:N7	2.84	0.45
29:D1:2872:A:O4'	29:D1:2873:U:OP1	2.34	0.45
29:B1:1669:C:C4	29:B1:1670:C:C5	3.05	0.45
36:DE:281:GLU:O	36:DE:282:ARG:O	2.35	0.45
1:A1:921:U:C2'	1:A1:922:G:H5'	2.47	0.45
3:AB:215:PHE:C	3:AB:217:ALA:H	2.19	0.45
29:D1:1934:G:H2'	29:D1:1935:G:O4'	2.16	0.45
1:C1:1281:G:C5	1:C1:1282:U:C5	3.05	0.45
29:B1:2735:U:H2'	29:B1:2736:A:C8	2.52	0.45
74:A1:1916:OHX:N5	74:A1:1975:OHX:N1	2.64	0.45
29:B1:3355:U:O2'	29:B1:3356:G:O4'	2.35	0.45
29:D1:252:U:H4'	29:D1:253:A:OP2	2.17	0.45
29:B1:1695:U:O2'	29:B1:1749:A:C6	2.67	0.45
29:B1:3271:G:N3	29:B1:3271:G:C3'	2.79	0.45
42:BK:32:ARG:C	42:BK:34:SER:N	2.67	0.45
11:AJ:89:LEU:O	11:AJ:97:VAL:HA	2.17	0.45
1:A1:774:A:C6	1:A1:787:G:C2	3.04	0.45
1:C1:1277:G:C2	1:C1:1436:A:C4	3.05	0.45
29:B1:2287:C:O2	29:B1:2298:U:H5''	2.17	0.45
29:D1:1020:G:C6	29:D1:1021:G:N7	2.85	0.45
43:BN:65:LEU:O	43:BN:66:THR:O	2.33	0.45
2:AA:13:ASP:O	2:AA:14:ALA:CB	2.65	0.45
2:AA:17:LEU:C	2:AA:19:ALA:H	2.16	0.45
1:A1:237:C:HO2'	1:A1:238:U:P	2.39	0.45
3:AB:195:ASP:O	3:AB:196:VAL:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:280:U:H5'	1:A1:281:G:OP2	2.17	0.45
1:C1:722:G:O2'	1:C1:723:G:H3'	2.15	0.45
21:AT:20:VAL:HA	21:AT:37:SER:CB	2.46	0.45
34:DC:1:MET:H3	34:DC:5:LYS:H	7.37	0.45
32:DA:30:GLU:O	32:DA:31:THR:C	2.54	0.45
47:DR:71:LEU:O	47:DR:72:LYS:C	2.55	0.45
29:D1:1357:G:N3	29:D1:1358:C:C6	2.85	0.45
29:D1:2529:A:C6	29:D1:2530:G:C6	3.04	0.45
29:B1:169:U:HO2'	29:B1:170:G:P	2.40	0.45
29:D1:1724:U:O2'	29:D1:1725:C:C4'	2.64	0.45
21:AT:116:ASP:O	21:AT:118:LYS:N	2.49	0.45
29:B1:2732:G:H2'	29:B1:2733:A:C8	2.51	0.45
32:DA:62:ASN:HA	32:DA:152:ARG:C	2.37	0.45
32:DA:56:PRO:HA	32:DA:155:ILE:N	2.32	0.45
29:B1:2413:A:C2	29:B1:2414:G:C5	3.04	0.45
29:B1:629:U:C3'	29:B1:630:A:H8	2.29	0.45
47:BR:93:ILE:O	47:BR:94:PHE:CB	2.64	0.45
1:A1:1294:G:N2	1:A1:1295:G:C4	2.84	0.45
1:A1:1294:G:N7	74:A1:1952:OHX:N3	2.65	0.45
14:AM:13:ASP:C	14:AM:15:ILE:N	2.70	0.45
1:C1:798:C:O2'	1:C1:799:A:H5'	2.17	0.45
34:DC:231:HIS:O	34:DC:232:ARG:C	2.55	0.45
29:D1:1675:G:C2	29:D1:1773:C:N3	2.84	0.45
1:A1:1277:G:C2'	1:A1:1278:G:H5'	2.47	0.45
29:B1:1759:C:H2'	29:B1:1760:A:H5''	1.98	0.45
43:BN:46:ILE:N	43:BN:56:GLN:H	2.14	0.45
45:BP:130:LYS:HA	45:BP:131:PRO:CB	2.46	0.45
14:AM:116:ILE:O	14:AM:117:SER:O	2.34	0.45
34:DC:80:ASP:O	34:DC:82:PRO:N	2.50	0.45
1:A1:657:U:O2'	1:A1:661:A:N6	2.50	0.45
38:BG:98:LYS:O	38:BG:100:ARG:N	2.49	0.45
34:DC:238:LEU:CB	34:DC:246:LEU:O	2.65	0.45
49:BT:108:ARG:O	49:BT:109:VAL:C	2.55	0.45
1:C1:910:C:H2'	1:C1:910:C:O2	2.16	0.45
39:DH:116:VAL:O	39:DH:119:GLY:N	2.49	0.45
40:DI:104:VAL:CB	40:DI:105:GLU:CA	2.94	0.45
74:D1:3510:OHX:N6	74:D1:3616:OHX:N1	2.64	0.45
29:D1:2976:A:H8	29:D1:2976:A:O5'	1.99	0.45
1:A1:1001:A:C5	1:A1:1002:G:C5	3.04	0.45
1:A1:1076:A:H2'	1:A1:1077:C:C5'	2.46	0.45
1:A1:1091:A:C4'	1:A1:1092:A:O5'	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1120:U:N3	1:A1:1121:C:C5	2.84	0.45
1:A1:1297:G:C8	1:A1:1297:G:H3'	2.51	0.45
1:A1:1672:G:C2	1:A1:1673:G:C6	3.05	0.45
1:A1:55:A:C3'	1:A1:56:U:C5'	2.95	0.45
1:A1:600:U:H2'	1:A1:601:A:H8	1.80	0.45
1:A1:614:C:O2	1:A1:614:C:H2'	2.17	0.45
1:A1:860:U:N3	1:A1:861:U:C2	2.79	0.45
1:A1:9:U:N3	1:A1:11:A:OP2	2.50	0.45
3:AB:160:GLY:O	3:AB:209:ASN:HA	2.16	0.45
29:B1:1191:U:O5'	29:B1:1192:C:OP2	2.35	0.45
29:B1:1393:A:C2	29:B1:1394:A:N9	2.84	0.45
29:B1:1440:G:HO2'	29:B1:1441:G:H5'	1.81	0.45
29:B1:1604:G:H2'	29:B1:1605:A:H5''	1.97	0.45
29:B1:1677:G:C4	29:B1:1678:G:C8	3.04	0.45
29:B1:197:G:C4	29:B1:198:A:C8	3.05	0.45
29:B1:2144:A:C5	29:B1:2281:A:N1	2.84	0.45
29:B1:2410:U:H2'	29:B1:2410:U:O2	2.15	0.45
29:B1:282:G:C3'	29:B1:282:G:P	3.01	0.45
29:B1:2844:C:H42	29:B1:2898:G:N2	2.08	0.45
29:B1:3102:G:O2'	29:B1:3103:A:OP1	2.30	0.45
29:B1:3126:C:N3	29:B1:3127:A:C8	2.85	0.45
29:B1:32:U:H2'	29:B1:33:G:H8	1.82	0.45
29:B1:3306:U:H2'	29:B1:3308:C:OP2	2.17	0.45
29:B1:393:U:N3	29:B1:394:G:C5	2.73	0.45
29:B1:397:A:N1	29:B1:400:G:C2	2.84	0.45
29:B1:813:G:N2	29:B1:814:U:C2	2.84	0.45
31:B3:14:C:C6	31:B3:15:G:N7	2.85	0.45
1:C1:615:A:N1	1:C1:1107:G:C6	2.84	0.45
1:C1:166:C:N4	1:C1:167:U:O4	2.50	0.45
1:C1:168:A:C2'	1:C1:169:A:C8	2.99	0.45
1:C1:168:A:N6	1:C1:169:A:N6	2.64	0.45
1:C1:145:A:N1	1:C1:171:A:N1	2.64	0.45
1:C1:1781:A:N1	1:C1:1782:A:N1	2.65	0.45
1:C1:206:A:C2	1:C1:262:U:C4	3.04	0.45
1:C1:27:U:C2'	1:C1:28:A:H5'	2.46	0.45
1:C1:32:U:H2'	1:C1:33:U:C5'	2.46	0.45
1:C1:378:A:N9	1:C1:378:A:OP1	2.47	0.45
1:C1:36:C:C2	1:C1:473:A:C2	3.04	0.45
1:C1:558:U:C4	1:C1:559:C:N4	2.84	0.45
1:C1:556:A:O2'	1:C1:590:C:O4'	2.18	0.45
1:C1:5:U:C2	1:C1:20:G:N2	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:68:A:H4'	1:C1:69:G:OP1	2.14	0.45
1:C1:765:G:C4'	1:C1:766:U:OP1	2.62	0.45
1:C1:852:C:C4	1:C1:853:G:C2	3.05	0.45
1:C1:98:U:C2	1:C1:99:C:C5	3.05	0.45
29:D1:110:G:C2	29:D1:322:U:O2	2.70	0.45
29:D1:1213:G:H2'	29:D1:1214:U:O5'	2.16	0.45
29:D1:339:C:OP2	29:D1:1380:G:O2'	2.32	0.45
29:D1:1610:G:H2'	29:D1:1611:G:H8	1.79	0.45
29:D1:1781:C:HO2'	29:D1:1782:U:H5'	1.80	0.45
29:D1:1902:G:C2	29:D1:1903:U:H1'	2.52	0.45
29:D1:2251:G:C2	29:D1:2252:A:C8	3.05	0.45
29:D1:2315:G:N2	29:D1:2316:G:C5	2.85	0.45
29:D1:2394:G:C4	34:DC:259:HIS:CB	3.00	0.45
29:D1:265:A:H4'	29:D1:266:A:OP1	2.14	0.45
29:D1:2707:C:O2'	29:D1:2708:C:O5'	2.35	0.45
29:D1:2407:C:C1'	29:D1:2818:U:H3	2.27	0.45
29:D1:288:C:H2'	29:D1:289:A:H8	1.76	0.45
29:D1:2847:A:N7	29:D1:2898:G:C4	2.85	0.45
29:D1:297:G:H4'	29:D1:299:G:C4'	2.47	0.45
29:D1:301:G:H2'	29:D1:302:U:O5'	2.17	0.45
29:D1:3020:U:H2'	29:D1:3021:A:OP1	2.16	0.45
29:D1:3038:U:O2'	29:D1:3039:C:P	2.74	0.45
29:D1:3046:A:C4	29:D1:3047:U:C5	3.05	0.45
29:D1:26:A:O2'	29:D1:329:U:H1'	2.17	0.45
29:D1:359:U:O2'	29:D1:360:G:H5'	2.17	0.45
29:D1:39:A:C8	29:D1:41:G:P	3.10	0.45
29:D1:412:G:N1	29:D1:413:U:C2	2.85	0.45
29:D1:518:G:H1	29:D1:572:A:N6	2.14	0.45
29:D1:53:G:O2'	29:D1:54:C:H5'	2.16	0.45
29:D1:550:A:O2'	29:D1:551:A:H5'	2.17	0.45
29:D1:511:G:N1	29:D1:579:G:N1	2.64	0.45
29:D1:643:U:C6	29:D1:643:U:H3'	2.52	0.45
29:D1:684:G:C4	29:D1:685:G:C8	3.05	0.45
29:D1:783:A:H2'	29:D1:784:A:O5'	2.17	0.45
29:D1:784:A:C2'	29:D1:785:G:C8	2.84	0.45
29:D1:804:C:N4	29:D1:940:G:N1	2.63	0.45
29:D1:88:A:C2	29:D1:281:G:C2	3.00	0.45
29:D1:968:G:C5	29:D1:969:C:C5	3.05	0.45
31:D3:58:G:C2'	31:D3:99:C:HO2'	2.28	0.45
46:DQ:84:PRO:O	46:DQ:85:ALA:HB3	2.16	0.45
31:D3:76:C:C2'	53:DX:76:LEU:CB	2.91	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:825:U:H2'	1:A1:825:U:O2	2.17	0.45
1:A1:828:U:C5	1:A1:829:A:N6	2.85	0.45
1:A1:845:G:C2'	1:A1:846:G:H5''	2.45	0.45
1:C1:824:G:H5''	1:C1:825:U:OP1	2.16	0.45
1:C1:847:A:C2'	1:C1:848:C:H5'	2.42	0.45
1:C1:743:U:C2	1:C1:809:A:N3	2.82	0.45
29:B1:993:G:H1	29:B1:1056:U:H3	1.64	0.45
29:B1:2707:C:O2'	29:B1:2708:C:H5'	2.17	0.45
31:B3:94:C:O5'	31:B3:94:C:C6	2.70	0.45
30:B2:8:G:OP1	49:BT:28:SER:CB	2.65	0.45
1:A1:275:C:C4	1:A1:276:C:N4	2.84	0.45
1:A1:289:U:N3	1:A1:290:G:C8	2.84	0.45
1:A1:89:G:C5	1:A1:90:C:C5	3.05	0.45
30:D2:107:C:H2'	30:D2:108:A:O4'	2.16	0.45
30:D2:75:G:C5'	30:D2:76:A:OP2	2.65	0.45
1:A1:330:G:C5	1:A1:331:A:N7	2.85	0.45
1:C1:1164:G:H2'	1:C1:1165:G:H8	1.82	0.45
1:C1:1240:U:P	1:C1:1241:G:OP2	2.75	0.45
1:C1:1362:U:H3'	1:C1:1363:U:C4'	2.46	0.45
1:A1:1615:C:H3'	1:A1:1616:G:H5''	1.99	0.45
30:B2:87:G:C2	30:B2:95:A:C5	3.04	0.45
30:B2:88:G:C6	30:B2:89:G:C6	3.05	0.45
29:B1:3207:U:C6	29:B1:3209:A:C4	3.04	0.45
29:B1:3026:G:N2	29:B1:3030:G:N7	2.63	0.45
29:B1:3030:G:H2'	29:B1:3031:G:C8	2.52	0.45
29:D1:374:A:H4'	29:D1:375:A:H5'	1.99	0.45
29:D1:3170:A:H2'	29:D1:3171:U:O5'	2.16	0.45
29:B1:1617:G:C2'	29:B1:1618:G:H5'	2.47	0.45
30:D2:35:C:C6	30:D2:35:C:C5'	2.95	0.45
29:B1:2514:U:O2'	29:B1:2515:A:C8	2.70	0.45
29:D1:3240:C:H2'	29:D1:3241:G:H8	1.81	0.45
29:B1:337:G:C2	31:B3:27:U:O2	2.70	0.45
29:B1:2160:G:O6	29:B1:2174:G:O6	2.34	0.45
41:BJ:159:PHE:O	41:BJ:160:PRO:C	2.54	0.45
1:A1:947:U:H6	1:A1:947:U:O5'	2.00	0.45
29:B1:1645:U:C2'	29:B1:1646:G:O5'	2.65	0.45
36:DE:102:GLY:O	36:DE:105:ILE:O	2.35	0.45
43:DN:73:PRO:O	43:DN:74:ARG:C	2.53	0.45
29:D1:650:C:H5'	29:D1:2872:A:P	2.57	0.45
5:CD:164:PRO:O	5:CD:165:LEU:C	2.55	0.45
29:D1:2914:G:H2'	29:D1:2915:U:O4'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:763:G:C4	1:C1:764:U:C5	3.04	0.45
29:D1:2835:U:H2'	29:D1:2835:U:O2	2.16	0.45
1:A1:718:U:H2'	1:A1:719:U:N3	2.31	0.45
1:C1:1733:C:N3	1:C1:1734:U:C4	2.85	0.45
29:B1:1347:U:C3'	29:B1:1348:U:C5	2.99	0.45
42:BK:29:ARG:O	42:BK:30:LEU:C	2.55	0.45
29:B1:2886:U:N3	29:B1:2911:A:C6	2.85	0.45
1:A1:774:A:H2'	1:A1:775:G:C5'	2.46	0.45
36:DE:125:VAL:HA	36:DE:126:GLU:HA	1.61	0.45
29:B1:1421:G:C2	29:B1:1422:G:C5	3.04	0.45
1:A1:1216:C:O3'	1:A1:1217:A:H3'	2.16	0.45
5:CD:91:GLU:O	5:CD:92:ARG:C	2.55	0.45
43:DN:24:LYS:CB	43:DN:31:LYS:CA	2.94	0.45
54:DY:127:ALA:C	54:DY:129:PHE:N	2.70	0.45
10:AI:45:PHE:CB	10:AI:46:ALA:CA	2.88	0.45
29:D1:317:A:C2'	29:D1:318:A:O5'	2.65	0.45
29:B1:1721:U:O2	29:B1:1723:A:C8	2.69	0.45
3:AB:126:ARG:C	3:AB:128:GLY:N	2.68	0.45
1:A1:876:G:H2'	1:A1:936:G:N2	2.32	0.45
29:D1:1830:G:C4	29:D1:1831:U:C5	3.04	0.45
33:DB:44:ILE:HA	33:DB:60:LYS:HA	1.98	0.45
4:AC:92:GLN:O	4:AC:94:ARG:N	2.49	0.45
6:CE:53:ARG:HA	6:CE:56:ALA:HB3	1.98	0.45
36:DE:38:THR:HA	36:DE:41:LYS:CB	2.46	0.45
36:DE:173:VAL:O	36:DE:174:PRO:CB	2.63	0.45
13:AL:46:VAL:O	13:AL:48:LYS:N	2.44	0.45
29:D1:994:G:OP2	29:D1:994:G:H8	2.00	0.45
33:DB:90:ALA:O	33:DB:91:GLY:C	2.54	0.45
38:BG:222:HIS:CB	38:BG:226:GLY:O	2.64	0.45
5:CD:57:SER:O	5:CD:58:LEU:C	2.54	0.45
44:BO:95:GLN:O	44:BO:96:ARG:C	2.55	0.45
21:AT:267:PRO:O	21:AT:269:TYR:N	2.46	0.45
17:AP:114:LYS:CB	17:AP:115:GLY:CA	2.94	0.45
34:BC:289:ASP:CB	34:BC:290:ASP:CB	2.95	0.45
29:D1:3082:C:O2'	29:D1:3083:G:H5'	2.17	0.45
12:AK:38:ILE:O	12:AK:39:ALA:O	2.35	0.45
2:AA:2:SER:C	2:AA:4:PRO:N	2.70	0.45
74:B1:3552:OHX:N5	74:B1:3615:OHX:N1	2.64	0.45
40:BI:150:SER:O	40:BI:151:VAL:C	2.53	0.45
38:BG:193:PRO:C	38:BG:195:PHE:N	2.67	0.45
1:A1:1727:G:C2	1:A1:1728:A:C6	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1778:G:H2'	1:A1:1779:U:C5'	2.45	0.45
1:A1:386:G:C2'	1:A1:387:A:O5'	2.65	0.45
1:A1:553:G:C5	1:A1:554:C:N3	2.84	0.45
1:A1:587:C:C4	1:A1:588:U:C4	3.04	0.45
1:A1:818:C:N4	1:A1:854:U:C4	2.85	0.45
29:B1:1104:G:H2'	29:B1:1105:A:C5'	2.46	0.45
29:B1:1192:C:O4'	29:B1:1298:C:P	2.75	0.45
29:B1:123:A:C2	29:B1:145:G:N1	2.77	0.45
29:B1:1286:A:C4'	29:B1:1287:A:OP1	2.65	0.45
29:B1:1490:A:H61	29:B1:1838:G:H1'	1.81	0.45
29:B1:1506:A:C2'	29:B1:1507:G:H5'	2.47	0.45
29:B1:1654:A:O2'	29:B1:1655:G:O5'	2.28	0.45
29:B1:1662:G:C6	29:B1:1663:C:C4	3.05	0.45
29:B1:1852:G:N3	29:B1:1852:G:H2'	2.32	0.45
29:B1:1857:C:C2'	29:B1:1858:A:C8	3.00	0.45
29:B1:1858:A:H2'	29:B1:1859:A:OP1	2.16	0.45
29:B1:2140:U:H2'	29:B1:2141:U:C5'	2.46	0.45
29:B1:2154:U:C2'	29:B1:2155:G:H5'	2.46	0.45
29:B1:2289:U:C2'	29:B1:2290:C:C5'	2.94	0.45
29:B1:2316:G:H2'	29:B1:2317:A:H8	1.81	0.45
29:B1:2347:U:H2'	29:B1:2348:A:O4'	2.16	0.45
29:B1:2364:G:OP2	29:B1:2364:G:C8	2.70	0.45
29:B1:3299:A:HO2'	29:B1:3300:U:H6	1.61	0.45
29:B1:3323:A:C2	29:B1:3324:C:C6	3.05	0.45
29:B1:41:G:N7	29:B1:42:C:C5	2.84	0.45
29:B1:43:A:OP1	29:B1:43:A:H4'	2.16	0.45
29:B1:54:C:H2'	29:B1:55:G:O5'	2.16	0.45
29:B1:648:C:C6	29:B1:2375:G:P	3.09	0.45
31:B3:10:A:H2'	31:B3:11:C:C6	2.47	0.45
29:B1:19:U:O4	74:B3:211:OHX:N6	2.49	0.45
54:BY:6:THR:C	54:BY:8:THR:N	2.70	0.45
1:C1:149:C:H2'	1:C1:150:U:C6	2.51	0.45
1:C1:425:A:H2'	1:C1:426:G:OP2	2.16	0.45
1:C1:450:U:N3	1:C1:451:A:N6	2.64	0.45
1:C1:551:G:C2	1:C1:552:G:N7	2.84	0.45
1:C1:814:A:N6	1:C1:858:G:N3	2.64	0.45
29:D1:1167:U:O2'	29:D1:1168:U:O5'	2.34	0.45
29:D1:628:A:H5''	29:D1:1399:A:N7	2.31	0.45
29:D1:1787:A:C3'	29:D1:1788:C:H5''	2.45	0.45
29:D1:1792:C:O2	29:D1:1794:G:O2'	2.32	0.45
29:D1:1878:G:H5'	29:D1:1879:A:H5'	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2114:C:H5''	29:D1:2116:G:N7	2.32	0.45
29:D1:2150:G:H8	29:D1:2150:G:OP2	1.99	0.45
29:D1:2198:A:C4	29:D1:2199:G:C8	3.04	0.45
29:D1:2252:A:N1	29:D1:2253:G:C6	2.85	0.45
29:D1:2643:A:H4'	29:D1:2643:A:OP1	2.16	0.45
29:D1:2743:A:N6	29:D1:2751:G:O6	2.49	0.45
29:D1:2783:U:H2'	29:D1:2784:G:O5'	2.16	0.45
29:D1:924:G:N7	29:D1:2809:C:H1'	2.32	0.45
29:D1:3305:A:N9	29:D1:3306:U:O2	2.50	0.45
29:D1:3333:G:H1	29:D1:3370:A:HO2'	1.61	0.45
29:D1:559:A:N9	29:D1:560:G:N7	2.64	0.45
29:D1:563:U:C3'	29:D1:564:G:C4'	2.90	0.45
29:D1:60:A:N1	29:D1:328:U:O2	2.50	0.45
29:D1:995:U:C4	29:D1:2637:A:C5	3.04	0.45
31:D3:48:A:N1	31:D3:51:G:C6	2.84	0.45
29:D1:1399:A:N6	31:D3:7:U:O2'	2.50	0.45
37:DF:134:ARG:HA	37:DF:137:ASP:CB	2.46	0.45
37:DF:3:ALA:O	37:DF:4:GLN:O	2.34	0.45
29:D1:1940:G:P	48:DS:75:HIS:HA	2.56	0.45
1:A1:699:U:H5'	1:A1:700:C:OP2	2.17	0.45
1:A1:702:G:H21	1:A1:737:A:N6	2.15	0.45
1:C1:228:G:C4	1:C1:229:U:C5	3.05	0.45
1:C1:647:G:N1	1:C1:687:G:C6	2.84	0.45
1:C1:651:G:C4	1:C1:684:A:N6	2.85	0.45
1:C1:743:U:O4	1:C1:809:A:C6	2.69	0.45
30:B2:73:C:N4	30:B2:74:C:N4	2.61	0.45
31:B3:82:U:O4	74:B3:205:OHX:N5	2.49	0.45
1:A1:192:U:C3'	1:A1:192:U:C6	3.00	0.45
1:A1:287:G:O2'	1:A1:288:A:H5'	2.16	0.45
1:A1:290:G:H2'	1:A1:291:G:C8	2.50	0.45
30:D2:112:G:OP1	74:D2:207:OHX:N2	2.49	0.45
1:C1:109:G:N3	1:C1:109:G:H2'	2.31	0.45
1:C1:1689:A:C6	1:C1:1716:C:C2	3.05	0.45
1:C1:340:U:O2	1:C1:340:U:H2'	2.14	0.45
29:B1:2681:U:O2'	29:B1:2682:C:OP2	2.35	0.45
29:B1:2674:A:O5'	42:BK:107:ASP:CB	2.65	0.45
29:B1:2675:C:N4	42:BK:24:GLY:HA3	2.32	0.45
1:A1:1721:A:O3'	1:A1:1722:A:H4'	2.08	0.45
1:A1:797:G:C2'	1:A1:798:C:H5'	2.47	0.45
1:C1:1236:A:C4	1:C1:1237:G:C8	3.05	0.45
1:C1:1239:U:C5	1:C1:1241:G:O6	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1252:C:O2'	1:C1:1253:U:H5'	2.17	0.45
1:C1:1257:U:O2'	1:C1:1258:U:C5'	2.65	0.45
1:C1:1270:G:C2	1:C1:1271:G:C8	3.05	0.45
1:C1:1364:G:C6	1:C1:1365:C:C4	3.04	0.45
1:C1:1455:G:C5	1:C1:1456:C:N4	2.85	0.45
1:C1:1477:G:H2'	1:C1:1478:G:C5'	2.44	0.45
1:C1:1483:A:C4	1:C1:1524:A:N6	2.85	0.45
1:A1:1351:G:C6	1:A1:1352:G:C5	3.04	0.45
1:A1:1353:U:H3	1:A1:1371:A:N6	2.15	0.45
1:A1:1444:A:H5''	1:A1:1445:G:OP1	2.17	0.45
1:A1:1202:A:H62	1:A1:1456:C:H2'	1.81	0.45
1:A1:1472:C:P	1:A1:1472:C:H3'	2.56	0.45
1:A1:1591:C:O5'	1:A1:1591:C:H6	2.00	0.45
14:AM:67:MET:HA	14:AM:70:GLN:O	2.16	0.45
37:BF:43:LEU:N	37:BF:84:VAL:CB	2.73	0.45
29:B1:3195:U:H3'	29:B1:3196:U:H3	1.81	0.45
29:B1:2687:G:C3'	29:B1:2687:G:C4	2.99	0.45
30:B2:43:U:H2'	30:B2:43:U:O2	2.17	0.45
29:D1:1394:A:N7	29:D1:1395:G:N7	2.64	0.45
29:D1:210:U:OP2	29:D1:210:U:C5	2.64	0.45
29:B1:1262:G:OP2	29:B1:1262:G:H2'	2.17	0.45
29:B1:1271:A:O5'	29:B1:1271:A:N3	2.49	0.45
29:B1:1593:A:C2'	29:B1:1594:A:C8	2.89	0.45
29:D1:3356:G:H2'	29:D1:3357:U:O4'	2.17	0.45
29:D1:3244:A:O2'	29:D1:3245:A:P	2.75	0.45
31:B3:26:U:H6	31:B3:26:U:O5'	1.99	0.45
29:B1:1080:A:O2'	29:B1:1081:U:O5'	2.34	0.45
29:B1:1081:U:C2'	29:B1:1082:U:OP1	2.64	0.45
1:C1:1753:A:C6	1:C1:1754:A:N1	2.84	0.45
29:B1:1468:A:O2'	29:B1:1469:C:OP1	2.28	0.45
46:BQ:84:PRO:O	46:BQ:85:ALA:HB3	2.17	0.45
29:D1:2095:G:H2'	29:D1:2096:A:H8	1.81	0.45
1:A1:1329:A:H2'	1:A1:1330:G:C5'	2.47	0.45
1:A1:1329:A:C8	1:A1:1330:G:N7	2.85	0.45
1:A1:1334:U:C2	1:A1:1335:U:C5	3.05	0.45
1:A1:1391:A:N7	1:A1:1412:G:C6	2.84	0.45
1:C1:922:G:O2'	1:C1:923:A:C8	2.62	0.45
1:A1:1125:A:N7	1:A1:1126:G:C1'	2.79	0.45
43:DN:78:THR:C	43:DN:80:THR:H	2.20	0.45
1:C1:901:G:C6	1:C1:902:G:C2	3.05	0.45
30:B2:3:U:N3	30:B2:4:U:C5	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BE:281:GLU:O	36:BE:282:ARG:O	2.34	0.45
1:C1:1783:C:C4	1:C1:1784:C:N4	2.84	0.45
29:D1:2441:A:C6	29:D1:2507:C:C2	3.04	0.45
29:B1:1038:C:O2'	29:B1:1039:U:H5'	2.16	0.45
30:D2:118:A:H2'	30:D2:119:U:O4'	2.17	0.45
29:D1:1921:A:C4	29:D1:1932:A:C6	3.04	0.45
29:B1:1947:G:N3	29:B1:1947:G:H2'	2.29	0.45
1:A1:350:U:OP1	1:A1:351:C:O2'	2.21	0.45
29:B1:3347:A:C5	29:B1:3348:G:N7	2.85	0.45
29:B1:1342:C:H3'	29:B1:1343:A:H8	1.82	0.45
29:B1:1913:A:C6	29:B1:2120:A:N7	2.83	0.45
29:B1:1351:U:H2'	29:B1:1352:A:C8	2.52	0.45
29:B1:1031:C:C4	29:B1:1032:C:C5	3.05	0.45
1:C1:1297:G:C2	1:C1:1301:U:N3	2.84	0.45
29:D1:2882:U:C4	29:D1:2883:U:C4	3.05	0.45
29:B1:2562:A:C4	29:B1:2563:G:C8	3.04	0.45
45:DP:77:SER:C	45:DP:79:ILE:H	2.20	0.45
29:D1:291:C:O2'	29:D1:2599:U:H1'	2.17	0.45
13:CL:76:PRO:HA	13:CL:81:ILE:N	2.30	0.45
36:DE:19:PRO:O	36:DE:20:PHE:CB	2.62	0.45
29:B1:2530:G:O2'	29:B1:2531:C:O5'	2.33	0.45
13:AL:68:ARG:C	13:AL:71:GLN:H	2.20	0.45
51:DV:45:ASN:O	51:DV:47:ARG:CB	2.65	0.45
6:AE:55:ALA:O	6:AE:58:ASP:CB	2.65	0.45
46:DQ:128:ARG:CA	46:DQ:139:TYR:H	2.30	0.45
29:D1:1004:U:C2	29:D1:1005:G:C8	3.05	0.45
1:C1:1360:A:H2'	1:C1:1360:A:N3	2.31	0.45
45:DP:95:GLY:C	45:DP:97:ALA:N	2.68	0.45
19:CR:26:THR:HA	19:CR:38:ARG:HA	1.98	0.45
52:DW:56:ARG:HA	52:DW:57:LEU:HA	1.52	0.45
29:B1:2741:C:H2'	29:B1:2742:C:O4'	2.17	0.45
29:D1:2218:G:C2	29:D1:2228:A:N3	2.85	0.45
5:CD:149:VAL:C	5:CD:151:GLY:H	2.20	0.45
52:DW:88:MET:C	52:DW:90:ALA:N	2.70	0.45
35:BD:254:ALA:O	35:BD:255:PHE:C	2.55	0.45
40:DI:187:ILE:HA	40:DI:188:THR:HA	1.47	0.45
41:DJ:39:LYS:C	41:DJ:41:ALA:N	2.70	0.45
38:DG:103:LEU:O	38:DG:107:ARG:N	2.50	0.45
45:BP:156:LEU:O	45:BP:157:GLU:C	2.55	0.45
1:A1:910:C:H2'	1:A1:910:C:O2	2.17	0.45
55:DZ:10:ILE:C	55:DZ:12:GLN:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BI:51:GLN:CB	40:BI:52:LEU:HA	2.46	0.45
53:DX:49:PRO:O	53:DX:50:ILE:C	2.55	0.45
1:A1:1002:G:C4	1:A1:1003:A:C2	3.05	0.45
1:A1:1043:A:C6	1:A1:1044:U:O4	2.70	0.45
1:A1:1109:G:C3'	1:A1:1110:G:C5'	2.95	0.45
1:A1:119:A:O4'	1:A1:397:A:C1'	2.64	0.45
1:A1:123:G:O6	1:A1:295:A:N6	2.50	0.45
1:A1:1645:G:H3'	1:A1:1645:G:H8	1.82	0.45
1:A1:1793:G:N2	1:A1:1794:A:H1'	2.31	0.45
1:A1:472:U:C6	1:A1:473:A:C8	3.04	0.45
1:A1:589:C:H2'	1:A1:590:C:H6	1.81	0.45
1:A1:937:C:H2'	1:A1:938:G:O4'	2.17	0.45
1:A1:939:A:H5''	1:A1:940:A:OP2	2.17	0.45
1:A1:93:A:C2	1:A1:399:A:N1	2.84	0.45
29:B1:1112:A:N6	29:B1:1113:G:C6	2.85	0.45
29:B1:1220:U:H5'	29:B1:1223:A:C4'	2.46	0.45
29:B1:1302:A:C2'	29:B1:1303:A:O5'	2.65	0.45
29:B1:1412:G:C2'	29:B1:1413:G:H8	2.29	0.45
29:B1:144:A:N3	29:B1:145:G:H1'	2.32	0.45
29:B1:1550:C:C1'	29:B1:2166:A:H61	2.29	0.45
29:B1:2107:A:C4	29:B1:2108:C:C6	3.04	0.45
29:B1:2385:G:C6	29:B1:3142:A:N1	2.85	0.45
29:B1:2386:A:N3	31:B3:3:A:H2	2.15	0.45
29:B1:2775:U:HO2'	29:B1:2776:C:P	2.29	0.45
29:B1:29:C:H6	29:B1:29:C:H3'	1.81	0.45
29:B1:3000:A:C6	29:B1:3001:C:N4	2.84	0.45
29:B1:3056:U:OP1	74:B1:3460:OHX:N3	2.49	0.45
29:B1:3087:A:C2	29:B1:3088:G:C4	3.04	0.45
29:B1:3147:G:H2'	29:B1:3148:U:C5'	2.47	0.45
29:B1:319:A:H1'	44:BO:50:ARG:O	2.16	0.45
29:B1:3288:G:H2'	29:B1:3289:G:H5'	1.99	0.45
29:B1:3330:A:C6	29:B1:3331:U:C4	3.05	0.45
29:B1:3298:C:C2	29:B1:3391:A:C2	3.04	0.45
29:B1:39:A:H2	29:B1:44:U:O4	1.99	0.45
29:B1:404:G:H2'	29:B1:405:U:H5'	1.98	0.45
29:B1:516:A:H2	29:B1:574:U:O2	2.00	0.45
29:B1:571:U:C2	29:B1:572:A:C8	3.05	0.45
29:B1:656:A:C2	29:B1:1440:G:C2	3.05	0.45
29:B1:658:G:N2	29:B1:1438:U:C2	2.85	0.45
29:B1:682:U:C5	29:B1:683:U:H5	2.32	0.45
29:B1:709:A:N6	29:B1:710:A:C6	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:901:G:C2	29:B1:902:G:C8	3.05	0.45
29:B1:963:G:H8	29:B1:963:G:C4'	2.28	0.45
31:B3:117:C:C2	31:B3:118:C:C6	3.04	0.45
37:BF:134:ARG:HA	37:BF:137:ASP:CB	2.47	0.45
1:C1:1006:C:OP1	74:C1:1907:OHX:N4	2.50	0.45
1:C1:1104:U:C5	1:C1:1105:C:C6	3.05	0.45
1:C1:1150:G:H2'	1:C1:1151:A:O4'	2.16	0.45
1:C1:170:U:C5'	1:C1:267:U:O2'	2.65	0.45
1:C1:172:C:C2	1:C1:173:A:C8	3.05	0.45
1:C1:174:U:N3	1:C1:175:G:C4	2.84	0.45
1:C1:192:U:C6	1:C1:192:U:H3'	2.52	0.45
1:C1:266:A:C3'	1:C1:267:U:O4'	2.65	0.45
1:C1:297:U:H2'	1:C1:298:C:H5'	1.99	0.45
1:C1:346:G:C6	1:C1:347:G:C6	3.04	0.45
1:C1:409:C:O4'	1:C1:1732:A:H4'	2.15	0.45
1:C1:435:C:H2'	1:C1:436:A:O4'	2.17	0.45
1:C1:479:C:H5''	1:C1:480:G:P	2.57	0.45
1:C1:515:A:OP1	74:C1:1933:OHX:N6	2.50	0.45
1:C1:556:A:O4'	1:C1:556:A:OP1	2.35	0.45
1:C1:29:U:C2	1:C1:597:G:O6	2.68	0.45
1:C1:70:C:H3'	1:C1:71:A:H8	1.81	0.45
1:C1:956:C:C4	1:C1:957:G:N7	2.85	0.45
29:D1:1057:A:C6	29:D1:1058:U:C4	3.04	0.45
29:D1:112:U:HO2'	29:D1:113:C:P	2.38	0.45
29:D1:1132:C:C2'	29:D1:1133:A:O5'	2.64	0.45
29:D1:1174:G:C4	29:D1:1175:C:C5	3.04	0.45
29:D1:1206:G:N3	29:D1:1206:G:C2'	2.79	0.45
29:D1:1189:C:N4	29:D1:1316:C:OP2	2.46	0.45
29:D1:1376:C:C2	29:D1:1377:G:C8	3.05	0.45
29:D1:943:U:C6	29:D1:1432:C:C5	3.04	0.45
29:D1:944:C:OP2	29:D1:1432:C:H4'	2.17	0.45
29:D1:1455:U:C2	29:D1:3078:U:H5	2.35	0.45
29:D1:1468:A:O2'	29:D1:1469:C:OP1	2.33	0.45
29:D1:2246:G:C4	29:D1:2247:G:C8	3.05	0.45
29:D1:2300:G:C2	29:D1:2301:U:C2	3.04	0.45
29:D1:2618:G:H4'	29:D1:2619:G:OP2	2.17	0.45
29:D1:2807:U:C2'	29:D1:2808:A:H5''	2.47	0.45
29:D1:2827:U:H2'	29:D1:2827:U:O2	2.16	0.45
29:D1:2912:G:C1'	29:D1:3131:U:H5'	2.47	0.45
29:D1:2933:A:O3'	74:D1:3619:OHX:N4	2.50	0.45
29:D1:299:G:C6	29:D1:300:G:C6	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3021:A:C8	29:D1:3023:U:N3	2.85	0.45
29:D1:327:A:H8	29:D1:327:A:H5'	1.81	0.45
29:D1:3293:U:H3'	29:D1:3293:U:O2	2.16	0.45
29:D1:3343:G:N7	29:D1:3344:A:C6	2.84	0.45
29:D1:354:U:OP2	29:D1:364:G:C6	2.70	0.45
29:D1:504:A:C2	29:D1:505:G:C2	3.04	0.45
29:D1:585:A:N3	29:D1:585:A:H2'	2.31	0.45
29:D1:585:A:C2'	29:D1:586:C:H6	2.15	0.45
29:D1:592:A:OP2	29:D1:592:A:H3'	2.17	0.45
29:D1:655:C:C2	29:D1:656:A:C8	3.04	0.45
29:D1:692:A:H3'	29:D1:693:A:H8	1.81	0.45
29:D1:739:G:C3'	29:D1:740:G:H8	2.30	0.45
29:D1:827:A:C5'	29:D1:828:A:OP2	2.65	0.45
29:D1:886:C:H2'	29:D1:887:G:H5'	1.96	0.45
29:D1:965:A:N6	29:D1:966:U:H3	2.14	0.45
31:D3:41:A:H2'	31:D3:41:A:N3	2.32	0.45
37:DF:5:LYS:CB	38:DG:77:VAL:N	2.79	0.45
29:D1:1126:G:OP2	41:DJ:13:LYS:O	2.35	0.45
1:A1:703:G:N2	1:A1:735:C:C2	2.84	0.45
1:A1:735:C:O2	1:A1:735:C:O4'	2.33	0.45
1:A1:838:G:C6	1:A1:839:U:N3	2.85	0.45
1:C1:834:G:H2'	1:C1:835:U:O4'	2.17	0.45
1:A1:649:U:C2	1:A1:650:U:C6	3.05	0.45
1:C1:745:U:C2'	1:C1:746:A:H5'	2.47	0.45
30:B2:9:C:C3'	30:B2:10:C:H4'	2.46	0.45
1:A1:205:U:O4	1:A1:206:A:N6	2.50	0.45
1:A1:290:G:C2'	1:A1:291:G:C8	2.99	0.45
30:D2:59:U:H2'	30:D2:60:G:H8	1.78	0.45
1:C1:1691:A:N6	1:C1:1713:G:C4	2.85	0.45
1:A1:1686:C:C4	1:A1:1687:U:C4	3.05	0.45
1:A1:1720:G:N7	1:A1:1721:A:C5	2.85	0.45
1:C1:1494:C:H2'	1:C1:1495:C:O5'	2.17	0.45
1:C1:1535:U:OP1	1:C1:1536:G:C5	2.69	0.45
1:A1:1167:G:N1	1:A1:1168:U:C4	2.85	0.45
1:A1:1231:U:H5''	1:A1:1232:U:C5	2.52	0.45
1:A1:1237:G:N3	1:A1:1238:A:C8	2.85	0.45
1:A1:1250:U:H2'	1:A1:1251:U:O4'	2.16	0.45
1:A1:1270:G:C2	1:A1:1271:G:C8	3.05	0.45
1:A1:1206:U:O4	1:A1:1455:G:O6	2.34	0.45
1:A1:1483:A:C4	1:A1:1524:A:C5	3.05	0.45
1:A1:1592:A:C5	1:A1:1605:G:C2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1557:U:H5	10:A1:81:ARG:O	2.00	0.45
46:BQ:10:ASN:N	46:BQ:12:ALA:N	2.65	0.45
29:D1:617:G:C2'	29:D1:618:C:O5'	2.65	0.45
30:B2:37:G:H2'	30:B2:38:U:O5'	2.17	0.45
29:B1:1324:U:H6	29:B1:1324:U:H5''	1.78	0.45
29:B1:1254:C:C2	29:B1:1255:C:H5	2.32	0.45
29:B1:1270:A:H3'	29:B1:1271:A:O4'	2.17	0.45
29:B1:3384:U:N3	29:B1:3385:U:C4	2.84	0.45
29:B1:2593:A:H4'	29:B1:2594:C:OP2	2.16	0.45
29:D1:3348:G:C5	29:D1:3349:C:C2	3.05	0.45
29:B1:69:C:H5''	29:B1:70:A:OP2	2.17	0.45
1:C1:1334:U:H2'	1:C1:1335:U:H1'	1.99	0.45
1:C1:699:U:O2'	1:C1:700:C:H5'	2.16	0.45
29:D1:2516:U:H6	29:D1:2516:U:O5'	2.00	0.45
29:B1:1624:G:C2	29:B1:1625:A:N3	2.85	0.45
1:A1:1402:G:C4	1:A1:1403:C:C6	3.04	0.45
29:D1:1086:C:H2'	29:D1:1086:C:O2	2.15	0.45
29:D1:1690:C:C4	29:D1:1691:U:C5	3.05	0.45
1:A1:897:C:H6	1:A1:897:C:OP2	2.00	0.45
29:B1:3273:A:OP1	29:B1:3273:A:C4'	2.64	0.45
43:DN:76:ALA:HA	43:DN:79:ALA:CB	2.31	0.45
29:B1:2582:C:C5'	29:B1:2583:C:OP2	2.61	0.45
11:CJ:92:TYR:N	11:CJ:93:HIS:HA	2.31	0.45
1:A1:310:C:C4'	1:A1:310:C:C6	2.99	0.45
1:A1:357:G:C4	1:A1:358:U:C6	3.04	0.45
1:C1:1666:U:C4	1:C1:1736:G:C2	3.05	0.45
29:D1:1024:G:C2'	29:D1:1025:A:H5'	2.44	0.45
11:AJ:93:HIS:HA	11:AJ:96:TYR:O	2.16	0.45
1:A1:763:G:C4	1:A1:764:U:C5	3.05	0.45
13:CL:121:ALA:C	13:CL:123:ARG:N	2.70	0.45
45:DP:166:GLU:C	45:DP:168:TYR:N	2.70	0.45
1:C1:726:C:C4	1:C1:727:U:C4	3.04	0.45
44:BO:34:ASN:O	44:BO:35:VAL:C	2.54	0.45
5:CD:91:GLU:O	5:CD:93:LEU:N	2.50	0.45
53:BX:34:PRO:HA	53:BX:47:ALA:CB	2.46	0.45
1:A1:1693:A:N1	1:A1:1708:U:N3	2.65	0.45
34:DC:68:HIS:O	34:DC:70:ARG:N	2.50	0.45
7:AF:75:VAL:CA	7:AF:86:ILE:HA	2.41	0.45
3:CB:154:LEU:CB	3:CB:169:LEU:C	2.85	0.45
34:BC:198:HIS:C	34:BC:200:GLU:N	2.69	0.45
47:BR:110:ALA:O	47:BR:111:ARG:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1359:C:O2	29:D1:1359:C:C2'	2.64	0.45
47:DR:80:THR:N	47:DR:136:ASN:O	2.45	0.45
1:A1:1623:C:C2	1:A1:1624:C:C6	3.05	0.45
3:CB:235:LEU:O	3:CB:236:PRO:C	2.54	0.45
6:AE:99:LEU:O	6:AE:102:GLU:N	2.50	0.45
41:BJ:142:ASP:C	41:BJ:144:ASN:H	2.20	0.45
29:D1:1530:U:C5'	29:D1:1531:C:OP2	2.65	0.45
3:AB:146:THR:O	3:AB:147:ASN:C	2.55	0.45
2:CA:63:ILE:C	2:CA:65:ALA:H	2.17	0.45
72:DL:89:PRO:O	72:DL:90:ARG:O	2.35	0.45
47:DR:145:ASN:CB	47:DR:147:ARG:H	2.29	0.45
50:DU:127:PRO:O	50:DU:128:ARG:C	2.55	0.45
39:DH:81:THR:O	39:DH:84:ARG:N	2.49	0.45
11:CJ:106:LYS:O	11:CJ:109:PHE:N	2.50	0.45
39:BH:100:GLU:CB	39:BH:103:ALA:HB3	2.47	0.45
29:B1:1053:A:N3	29:B1:1053:A:H2'	2.32	0.45
2:AA:62:ARG:HA	2:AA:65:ALA:HB2	1.98	0.45
8:CG:114:ARG:O	8:CG:117:LEU:N	2.49	0.45
38:DG:41:ARG:O	38:DG:45:LEU:N	2.49	0.45
38:BG:154:GLY:C	38:BG:156:ILE:H	2.20	0.45
38:BG:242:SER:O	38:BG:243:MET:CB	2.64	0.45
31:B3:136:G:C2	31:B3:137:C:C5	3.05	0.45
18:CQ:59:TYR:O	18:CQ:91:PRO:HA	2.16	0.45
1:A1:308:C:H5'	1:A1:308:C:C6	2.51	0.45
13:AL:29:VAL:O	13:AL:43:SER:CB	2.65	0.45
29:D1:2526:C:H3'	29:D1:2527:G:C8	2.52	0.45
52:BW:98:ALA:O	52:BW:101:GLU:N	2.49	0.45
53:DX:116:LYS:O	53:DX:117:ALA:C	2.55	0.45
45:BP:178:VAL:C	45:BP:180:SER:H	2.19	0.45
1:A1:1044:U:O2	1:A1:1045:C:H5	1.98	0.45
1:A1:1092:A:C8	1:A1:1094:G:C8	3.05	0.45
1:A1:117:U:H2'	1:A1:118:U:O4'	2.16	0.45
1:A1:14:C:H5'	3:AB:163:GLY:HA2	1.98	0.45
1:A1:1146:G:C8	1:A1:1635:A:H2	2.31	0.45
1:A1:1644:C:H2'	1:A1:1645:G:O5'	2.17	0.45
1:A1:43:A:H4'	1:A1:99:C:OP1	2.16	0.45
1:A1:36:C:C2	1:A1:473:A:C2	3.05	0.45
1:A1:515:A:N3	1:A1:515:A:C2'	2.80	0.45
1:A1:586:G:H2'	1:A1:587:C:O5'	2.17	0.45
1:A1:589:C:H2'	1:A1:590:C:C6	2.51	0.45
1:A1:604:A:N1	1:A1:605:A:C2	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:635:A:C5	1:A1:863:A:C8	3.05	0.45
1:A1:986:G:O6	74:A1:1905:OHX:N2	2.50	0.45
29:B1:1105:A:C5	29:B1:1106:G:N7	2.85	0.45
29:B1:1174:G:N1	29:B1:1175:C:C4	2.85	0.45
29:B1:1220:U:H5'	29:B1:1223:A:O4'	2.17	0.45
29:B1:1220:U:O4'	29:B1:1223:A:N3	2.50	0.45
29:B1:1379:G:C6	29:B1:1428:A:C2	3.04	0.45
29:B1:1505:C:H2'	29:B1:1505:C:O2	2.17	0.45
29:B1:152:U:H2'	29:B1:153:U:C6	2.39	0.45
29:B1:191:U:O2	29:B1:191:U:H2'	2.17	0.45
29:B1:1941:C:N4	29:B1:1942:U:O4	2.49	0.45
29:B1:19:U:C5	29:B1:20:A:N6	2.76	0.45
29:B1:307:A:H1'	29:B1:2223:A:N3	2.31	0.45
29:B1:222:A:C2'	29:B1:223:U:H5'	2.46	0.45
29:B1:2607:G:C6	29:B1:2608:G:N7	2.85	0.45
29:B1:311:C:C2	29:B1:2779:A:N1	2.85	0.45
29:B1:959:C:OP1	29:B1:2800:G:OP2	2.35	0.45
29:B1:924:G:O6	29:B1:2809:C:O4'	2.35	0.45
29:B1:3059:G:OP2	29:B1:3059:G:O4'	2.35	0.45
29:B1:3308:C:H5	29:B1:3309:G:C4	2.27	0.45
29:B1:3322:A:C6	29:B1:3323:A:C6	3.04	0.45
29:B1:3390:G:C5	29:B1:3391:A:N7	2.85	0.45
29:B1:2255:A:C6	74:B1:3438:OHX:N5	2.85	0.45
29:B1:1444:G:O6	74:B1:3540:OHX:N1	2.50	0.45
29:B1:505:G:C8	29:B1:506:U:C6	3.05	0.45
29:B1:694:C:C2'	29:B1:694:C:O2	2.52	0.45
29:B1:740:G:C2	29:B1:741:U:H6	2.35	0.45
29:B1:763:G:C5	29:B1:764:U:C2	3.05	0.45
29:B1:871:U:C2	29:B1:890:C:H1'	2.52	0.45
29:B1:914:A:C8	29:B1:914:A:O5'	2.69	0.45
31:B3:107:G:N1	31:B3:116:G:N7	2.65	0.45
29:B1:412:G:C5	31:B3:12:A:N1	2.85	0.45
31:B3:149:A:N7	74:B3:212:OHX:N1	2.65	0.45
35:BD:54:GLU:C	35:BD:56:ALA:H	2.19	0.45
44:BO:108:ARG:C	44:BO:110:ALA:N	2.69	0.45
29:B1:3068:U:OP1	48:BS:57:VAL:O	2.35	0.45
1:C1:139:C:C5	1:C1:176:C:N3	2.85	0.45
1:C1:361:C:C4	1:C1:384:G:N1	2.85	0.45
1:C1:39:A:N7	1:C1:467:G:N1	2.60	0.45
1:C1:446:A:H2'	1:C1:447:U:H5'	1.98	0.45
1:C1:812:A:C5	1:C1:858:G:N7	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:867:G:N3	1:C1:868:G:C8	2.84	0.45
29:D1:111:C:C2'	29:D1:111:C:O2	2.58	0.45
29:D1:1174:G:H1'	29:D1:1181:U:C4	2.51	0.45
29:D1:122:A:N3	29:D1:123:A:C8	2.85	0.45
29:D1:1325:U:C2	29:D1:1326:A:N7	2.85	0.45
29:D1:1489:A:OP2	29:D1:1838:G:N2	2.50	0.45
29:D1:1787:A:C6	29:D1:1788:C:C4	3.05	0.45
29:D1:1876:U:C6	29:D1:1876:U:H5'	2.52	0.45
29:D1:2199:G:C2	29:D1:2200:U:C6	3.05	0.45
29:D1:420:G:C2	29:D1:2384:A:H2'	2.52	0.45
29:D1:2641:U:O2	29:D1:2641:U:H2'	2.16	0.45
29:D1:264:G:H3'	29:D1:265:A:N7	2.31	0.45
29:D1:2717:U:O2'	29:D1:2718:U:O4'	2.33	0.45
29:D1:3012:A:H2'	29:D1:3013:U:C5'	2.22	0.45
29:D1:3086:A:C2'	29:D1:3087:A:H8	2.29	0.45
29:D1:3121:U:C2	29:D1:3122:A:C8	3.04	0.45
29:D1:3105:U:C2	29:D1:3129:A:C5	3.05	0.45
29:D1:3150:A:H5''	34:DC:134:SER:CA	2.42	0.45
29:D1:64:G:C5	29:D1:322:U:C4	3.05	0.45
29:D1:3316:A:H1'	29:D1:3317:U:OP2	2.17	0.45
29:D1:3325:G:C4	29:D1:3326:G:C8	3.04	0.45
29:D1:3326:G:N2	29:D1:3327:G:H1'	2.32	0.45
29:D1:3327:G:C5	29:D1:3328:G:C5	3.05	0.45
29:D1:342:A:N7	29:D1:368:G:C6	2.85	0.45
29:D1:760:G:OP2	74:D1:3514:OHX:N2	2.50	0.45
29:D1:552:G:C6	29:D1:553:U:N3	2.85	0.45
29:D1:554:A:H2'	29:D1:555:U:H5''	1.98	0.45
29:D1:569:A:N1	29:D1:570:A:C4	2.85	0.45
29:D1:569:A:C4	29:D1:570:A:C8	3.04	0.45
29:D1:597:G:C2	29:D1:598:A:N9	2.85	0.45
29:D1:740:G:C2	29:D1:741:U:H6	2.34	0.45
29:D1:750:G:N1	29:D1:784:A:C1'	2.78	0.45
29:D1:760:G:O2'	29:D1:761:A:H8	1.97	0.45
29:D1:83:U:H2'	29:D1:84:U:O4'	2.16	0.45
29:D1:900:G:H2'	29:D1:901:G:H8	1.82	0.45
29:D1:956:U:H2'	29:D1:957:C:C6	2.51	0.45
29:D1:967:A:H2'	29:D1:967:A:N3	2.32	0.45
31:D3:12:A:C2'	31:D3:13:A:H5'	2.45	0.45
31:D3:149:A:C6	31:D3:150:G:O6	2.70	0.45
31:D3:1:A:OP1	74:D3:201:OHX:N4	2.50	0.45
31:D3:86:U:HO2'	31:D3:87:G:C5'	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:220:A:N6	1:A1:221:A:N6	2.64	0.45
1:C1:228:G:N1	1:C1:229:U:C2	2.84	0.45
1:C1:651:G:C5	74:C1:1970:OHX:N5	2.85	0.45
29:B1:2727:A:C2	29:B1:2729:U:C5	2.93	0.45
30:B2:75:G:C5'	30:B2:76:A:OP2	2.65	0.45
31:B3:67:U:O3'	31:B3:68:G:O4'	2.33	0.45
1:A1:174:U:C2'	1:A1:174:U:O2	2.58	0.45
1:A1:198:A:C1'	1:A1:199:G:P	3.05	0.45
1:A1:271:A:C2	1:A1:285:G:C5	3.05	0.45
1:A1:457:G:H2'	1:A1:458:G:H5'	1.96	0.45
1:A1:63:G:O2'	1:A1:169:A:O3'	2.35	0.45
45:BP:128:ARG:O	45:BP:129:LEU:C	2.55	0.45
1:C1:1155:G:C6	1:C1:1156:C:N4	2.85	0.45
1:C1:1274:C:C2'	1:C1:1274:C:O2	2.53	0.45
1:C1:1348:A:H8	1:C1:1348:A:P	2.40	0.45
1:C1:1472:C:H5'	1:C1:1474:G:C1'	2.46	0.45
1:C1:1529:C:H2'	1:C1:1530:C:C6	2.52	0.45
1:C1:1471:A:C5	1:C1:1540:G:O4'	2.70	0.45
1:C1:1470:C:H3'	1:C1:1573:A:H62	1.82	0.45
14:CM:69:LYS:CB	14:CM:123:ARG:HA	2.47	0.45
1:A1:1172:G:C5	1:A1:1173:C:C5	3.05	0.45
1:A1:1382:A:C4	1:A1:1383:G:C8	3.04	0.45
1:A1:1449:U:H2'	1:A1:1450:U:O4'	2.17	0.45
1:A1:1489:U:H5''	1:A1:1490:C:OP2	2.17	0.45
1:A1:1525:A:H1'	1:A1:1590:G:H4'	1.98	0.45
1:A1:1543:A:H1'	1:A1:1569:A:N1	2.32	0.45
1:A1:1203:A:N3	1:A1:1555:A:C2	2.85	0.45
1:A1:1583:A:H1'	1:A1:1585:U:C2	2.52	0.45
11:AJ:127:LYS:CA	11:AJ:134:ALA:H	2.27	0.45
29:B1:3212:C:C4	29:B1:3213:A:N1	2.85	0.45
29:D1:438:A:O2'	29:D1:494:G:C1'	2.64	0.45
29:D1:624:G:N2	29:D1:625:G:N9	2.65	0.45
43:BN:95:ALA:C	43:BN:97:SER:N	2.70	0.45
30:B2:46:A:C2'	30:B2:47:C:H5'	2.47	0.45
29:B1:2520:A:C5	29:B1:2521:U:C4	3.05	0.45
29:D1:3229:G:H4'	29:D1:3230:G:OP1	2.15	0.45
30:D2:40:C:C5'	30:D2:41:G:OP2	2.64	0.45
1:A1:637:C:O2'	1:A1:638:U:H5'	2.17	0.45
4:CC:14:ASP:O	4:CC:15:GLY:C	2.55	0.45
29:B1:72:C:N4	29:B1:73:C:O2	2.50	0.45
29:D1:1625:A:C5	29:D1:1626:U:C2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1645:U:C2'	29:D1:1646:G:O5'	2.64	0.45
1:C1:1319:A:H2'	1:C1:1320:U:O4'	2.17	0.45
29:B1:3259:U:O2'	29:B1:3260:G:N7	2.35	0.45
29:D1:2206:G:H2'	29:D1:2206:G:N3	2.31	0.45
29:B1:2553:U:O2'	29:B1:2554:A:P	2.74	0.45
29:B1:986:U:H2'	29:B1:987:U:H6	1.81	0.45
29:B1:1634:G:C5	29:B1:1635:G:N7	2.84	0.45
29:B1:2352:A:N6	29:B1:2353:G:C6	2.84	0.45
29:D1:2092:A:OP2	29:D1:2093:A:C8	2.70	0.45
1:A1:1403:C:OP1	1:A1:1414:U:OP1	2.35	0.45
29:B1:1731:A:H2'	29:B1:1732:U:O4'	2.16	0.45
29:B1:1719:G:C4'	29:B1:1732:U:H4'	2.47	0.45
18:CQ:43:ASP:HA	18:CQ:46:LYS:CB	2.46	0.45
29:D1:2120:A:HO2'	29:D1:2121:G:C5'	2.16	0.45
29:B1:1028:U:H2'	29:B1:1029:G:C5	2.52	0.45
43:BN:38:ILE:HA	43:BN:44:VAL:HA	1.99	0.45
29:D1:2862:U:C2'	29:D1:2863:G:H5'	2.46	0.45
29:D1:134:U:P	29:D1:134:U:H6	2.40	0.45
13:CL:65:GLU:O	13:CL:66:LEU:C	2.55	0.45
29:D1:601:U:C4	29:D1:602:A:C8	3.04	0.45
29:D1:601:U:C2	29:D1:602:A:C8	3.04	0.45
29:B1:293:C:C4	29:B1:294:U:C2	3.05	0.45
29:B1:295:A:O2'	29:B1:296:A:H5'	2.17	0.45
3:CB:124:ALA:O	3:CB:126:ARG:N	2.49	0.45
5:CD:132:VAL:O	5:CD:136:ALA:N	2.50	0.45
1:A1:802:G:H21	16:AO:107:SER:CB	2.29	0.45
1:A1:1304:G:N7	1:A1:1305:U:C4	2.85	0.45
45:BP:69:GLY:O	45:BP:70:PRO:C	2.55	0.45
45:BP:188:SER:C	45:BP:190:VAL:H	2.20	0.45
7:CF:75:VAL:HA	7:CF:86:ILE:CA	2.44	0.45
29:D1:2733:A:C4	29:D1:2734:A:C8	3.05	0.45
29:D1:2732:G:C5	29:D1:2733:A:C5	3.05	0.45
44:DO:146:ALA:HB1	44:DO:149:ASN:CB	2.47	0.45
29:B1:2414:G:O2'	29:B1:2415:C:P	2.74	0.45
21:AT:240:VAL:O	21:AT:241:PHE:O	2.34	0.45
2:CA:199:PRO:HA	2:CA:200:ASP:HA	1.68	0.45
74:B1:3544:OHX:N4	74:B1:3617:OHX:N3	2.65	0.45
1:A1:578:U:H6	1:A1:578:U:H5''	1.82	0.45
53:BX:64:LYS:C	53:BX:66:GLN:N	2.70	0.45
1:C1:1225:U:C5	1:C1:1226:A:C6	3.05	0.45
12:CK:7:LYS:C	12:CK:9:VAL:N	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BJ:56:GLU:N	41:BJ:131:ILE:HA	2.32	0.45
1:A1:430:G:C5	1:A1:431:C:C5	3.04	0.45
11:AJ:131:GLY:HA3	11:AJ:138:PHE:N	2.31	0.45
21:AT:135:THR:C	21:AT:137:LYS:N	2.69	0.45
74:D1:3510:OHX:N4	74:D1:3616:OHX:N4	2.65	0.45
36:DE:53:VAL:CB	36:DE:62:CYS:HA	2.47	0.45
33:DB:98:VAL:C	33:DB:99:GLY:O	2.55	0.45
35:BD:265:GLU:O	35:BD:266:THR:CB	2.65	0.45
3:CB:231:ALA:HB1	3:CB:234:PRO:CB	2.46	0.45
1:A1:1138:A:C6	1:A1:1139:A:N6	2.85	0.45
1:A1:1631:A:C6	1:A1:1636:C:N4	2.81	0.45
1:A1:24:U:C6	1:A1:24:U:C5'	2.99	0.45
1:A1:973:A:N3	1:A1:974:A:N7	2.65	0.45
1:A1:993:A:C4	1:A1:1012:U:O2	2.70	0.45
29:B1:100:A:C2'	29:B1:101:G:C8	2.91	0.45
29:B1:65:A:C4	29:B1:110:G:N7	2.85	0.45
29:B1:1193:A:H8	29:B1:1194:G:N2	2.14	0.45
29:B1:1316:C:H5'	29:B1:1317:A:C5'	2.47	0.45
29:B1:1455:U:C2	29:B1:3078:U:C6	3.05	0.45
29:B1:1481:A:O2'	29:B1:1858:A:C2'	2.56	0.45
29:B1:1566:A:N7	29:B1:1568:U:N3	2.65	0.45
29:B1:156:G:H1'	29:B1:157:A:P	2.56	0.45
29:B1:1782:U:H3'	29:B1:1782:U:P	2.57	0.45
29:B1:1879:A:O2'	29:B1:1880:U:C4'	2.46	0.45
29:B1:2367:A:H2'	29:B1:2368:A:C8	2.52	0.45
29:B1:2397:A:OP1	29:B1:2398:A:H4'	2.17	0.45
29:B1:2407:C:C2	29:B1:2815:G:C2	3.04	0.45
29:B1:2713:U:O5'	29:B1:2713:U:H6	2.00	0.45
29:B1:2872:A:O4'	29:B1:2873:U:OP1	2.35	0.45
29:B1:1302:A:N9	29:B1:2887:A:C2	2.85	0.45
29:B1:78:U:O4	29:B1:325:A:N1	2.49	0.45
29:B1:3289:G:N7	74:B1:3581:OHX:N1	2.65	0.45
29:B1:3360:C:C2'	29:B1:3360:C:O2	2.54	0.45
29:B1:348:A:H1'	29:B1:352:A:N3	2.32	0.45
29:B1:36:C:H4'	29:B1:808:A:N1	2.32	0.45
29:B1:413:U:N3	29:B1:414:U:C5	2.85	0.45
29:B1:428:A:C3'	29:B1:428:A:C8	3.00	0.45
29:B1:597:G:C2'	29:B1:598:A:O4'	2.65	0.45
29:B1:633:C:O2'	29:B1:634:C:H5'	2.16	0.45
29:B1:784:A:H2'	29:B1:784:A:N3	2.31	0.45
29:B1:876:A:H2'	29:B1:877:C:C5'	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:960:U:H5''	29:B1:961:C:OP2	2.17	0.45
29:B1:962:A:C2'	29:B1:963:G:H5''	2.47	0.45
29:B1:975:C:N3	29:B1:976:U:C4	2.85	0.45
31:B3:10:A:C2	31:B3:11:C:C6	3.05	0.45
31:B3:154:C:N3	31:B3:155:A:N7	2.65	0.45
29:B1:209:A:O2'	35:BD:162:THR:CB	2.65	0.45
44:BO:59:PHE:O	44:BO:60:VAL:CB	2.65	0.45
1:C1:1097:U:C2'	1:C1:1098:U:C5'	2.89	0.45
1:C1:1106:U:C2'	1:C1:1107:G:H5'	2.47	0.45
1:C1:168:A:C3'	1:C1:169:A:C8	3.00	0.45
1:C1:1727:G:H2'	1:C1:1728:A:C8	2.52	0.45
1:C1:1728:A:C4	1:C1:1729:C:C6	3.04	0.45
1:C1:380:U:O2'	1:C1:381:C:O5'	2.33	0.45
1:C1:402:C:H2'	1:C1:402:C:O2	2.16	0.45
1:C1:28:A:H5''	1:C1:436:A:O2'	2.17	0.45
1:C1:461:G:N1	1:C1:462:G:C5	2.85	0.45
1:C1:5:U:O2'	1:C1:553:G:O3'	2.34	0.45
1:C1:627:C:N4	1:C1:628:G:C6	2.84	0.45
1:C1:819:G:N1	1:C1:853:G:C2	2.84	0.45
1:C1:853:G:C6	1:C1:854:U:O4	2.70	0.45
1:C1:863:A:N9	1:C1:865:A:C8	2.85	0.45
1:C1:92:A:P	1:C1:398:G:H22	2.39	0.45
3:CB:163:GLY:O	3:CB:164:SER:C	2.56	0.45
29:D1:1206:G:C2	29:D1:1207:G:N7	2.85	0.45
29:D1:1225:A:C5	29:D1:1226:G:C5	3.05	0.45
29:D1:1335:C:C4	29:D1:1336:U:C4	3.05	0.45
29:D1:1479:U:OP2	29:D1:1480:G:C2	2.70	0.45
29:D1:1517:G:C6	29:D1:1518:U:C4	3.05	0.45
29:D1:900:G:N3	29:D1:1589:A:N6	2.65	0.45
29:D1:1604:G:C6	29:D1:1605:A:C6	3.04	0.45
29:D1:1901:A:H3'	29:D1:1901:A:N3	2.32	0.45
29:D1:1909:A:C6	29:D1:1910:A:C4	3.05	0.45
29:D1:1550:C:O2'	29:D1:2166:A:N6	2.50	0.45
29:D1:2191:U:C4	29:D1:2192:C:C5	3.05	0.45
29:D1:2280:A:H3'	29:D1:2280:A:H8	1.81	0.45
29:D1:421:G:N2	29:D1:2365:C:N1	2.65	0.45
29:D1:2743:A:C5	29:D1:2744:U:C5	3.04	0.45
29:D1:2730:G:C6	29:D1:2799:A:N6	2.82	0.45
29:D1:2998:U:OP1	29:D1:3396:U:O2	2.34	0.45
29:D1:3064:U:N3	29:D1:3065:G:N7	2.64	0.45
29:D1:3086:A:N9	29:D1:3087:A:C8	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3088:G:H3'	29:D1:3089:C:H6	1.80	0.45
29:D1:3101:G:C2'	29:D1:3102:G:C5'	2.76	0.45
29:D1:3153:U:H1'	29:D1:3395:G:N2	2.32	0.45
29:D1:3302:U:C2'	29:D1:3303:G:H5''	2.47	0.45
29:D1:3327:G:H5'	29:D1:3328:G:OP2	2.17	0.45
29:D1:383:G:C5'	29:D1:385:A:OP2	2.65	0.45
29:D1:412:G:C4	29:D1:413:U:C5	3.05	0.45
29:D1:431:U:HO2'	29:D1:432:G:P	2.40	0.45
29:D1:506:U:H2'	29:D1:507:U:C6	2.52	0.45
29:D1:706:A:H2'	29:D1:707:U:H5'	1.99	0.45
29:D1:726:G:C2	29:D1:727:G:C5	3.04	0.45
29:D1:881:C:C2	29:D1:1850:A:H8	2.34	0.45
29:D1:920:A:O5'	29:D1:922:U:O4	2.35	0.45
29:D1:993:G:C6	29:D1:2637:A:C5	3.05	0.45
31:D3:79:A:C3'	31:D3:80:A:H8	2.29	0.45
1:A1:728:U:H2'	1:A1:729:G:C8	2.50	0.45
1:C1:850:A:C2	1:C1:851:U:C2	3.05	0.45
1:C1:649:U:O2'	1:C1:650:U:P	2.75	0.45
29:B1:2702:A:C8	29:B1:2704:A:C5	3.03	0.45
30:B2:80:G:C4	30:B2:81:U:C6	3.04	0.45
1:A1:139:C:O4'	1:A1:141:U:H5''	2.17	0.45
1:A1:198:A:H1'	1:A1:199:G:O5'	2.16	0.45
1:A1:283:U:C3'	1:A1:284:G:C5'	2.92	0.45
1:A1:57:G:C6	1:A1:91:G:C6	3.05	0.45
29:D1:2673:A:C2	29:D1:2674:A:N7	2.85	0.45
29:D1:2680:A:C6	42:DK:56:THR:N	2.85	0.45
29:B1:2673:A:N3	29:B1:2674:A:N7	2.65	0.45
29:B1:2674:A:C8	42:BK:108:GLU:CB	2.99	0.45
1:A1:1689:A:C6	1:A1:1716:C:C2	3.05	0.45
1:C1:1369:U:HO2'	1:C1:1370:U:C1'	2.29	0.45
1:C1:1455:G:C5	1:C1:1456:C:C4	3.04	0.45
1:C1:1458:G:C2	1:C1:1459:C:C4	3.05	0.45
1:C1:1472:C:O2	1:C1:1472:C:H2'	2.16	0.45
1:C1:1481:C:H6	1:C1:1482:C:C2	2.34	0.45
1:A1:1239:U:H5	1:A1:1241:G:C6	2.35	0.45
1:A1:1274:C:C5	1:A1:1427:A:N7	2.83	0.45
1:A1:1431:C:C2	1:A1:1437:U:O4	2.70	0.45
1:A1:1455:G:N3	1:A1:1456:C:O2	2.50	0.45
1:A1:1522:U:C6	1:A1:1522:U:OP1	2.69	0.45
1:A1:1523:G:H3'	1:A1:1524:A:H5''	1.99	0.45
1:A1:1540:G:C6	1:A1:1541:G:C5	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3209:A:C2	29:D1:3210:A:N1	2.79	0.45
29:D1:3191:G:N1	29:D1:3202:G:N1	2.64	0.45
30:B2:48:U:C2'	30:B2:49:G:N7	2.80	0.45
29:D1:3236:U:C4	29:D1:3237:U:O4	2.70	0.45
29:D1:3238:G:C6	29:D1:3250:U:N3	2.84	0.45
29:D1:1394:A:O2'	29:D1:1395:G:H5'	2.17	0.45
29:D1:187:A:H1'	29:D1:211:A:H61	1.72	0.45
29:D1:3281:U:C2	29:D1:3282:U:N3	2.85	0.45
30:B2:22:A:H2'	30:B2:23:A:O5'	2.17	0.45
30:D2:46:A:C3'	30:D2:46:A:N3	2.64	0.45
30:D2:47:C:H2'	30:D2:47:C:O2	2.15	0.45
42:DK:68:HIS:O	42:DK:69:VAL:C	2.55	0.45
29:D1:70:A:C2'	29:D1:71:A:H5'	2.46	0.45
29:D1:1232:C:O2'	73:DM:35:SER:C	2.56	0.45
4:CC:96:LEU:O	4:CC:98:ALA:N	2.50	0.45
29:D1:986:U:N3	29:D1:987:U:C5	2.85	0.45
29:B1:344:A:H2'	29:B1:345:G:C5'	2.46	0.45
31:B3:25:G:C5	31:B3:26:U:C4	3.05	0.45
1:A1:1284:C:O2	1:A1:1286:U:N3	2.49	0.45
29:D1:3003:G:O2'	29:D1:3004:C:H5'	2.17	0.45
29:D1:2590:A:C4	29:D1:2591:A:C8	3.04	0.45
29:B1:1622:U:H2'	29:B1:1623:G:C8	2.52	0.45
29:B1:1631:C:H2'	29:B1:1632:A:OP2	2.17	0.45
29:B1:1640:G:C4'	29:B1:1641:U:OP2	2.65	0.45
1:A1:1411:A:C5'	1:A1:1412:G:OP2	2.64	0.45
29:D1:1075:A:C8	29:D1:1076:C:C5	3.04	0.45
29:D1:1076:C:C5'	29:D1:1077:U:OP2	2.63	0.45
36:DE:96:ALA:O	36:DE:99:TYR:N	2.50	0.45
29:D1:2173:U:C2'	29:D1:2174:G:OP1	2.64	0.45
29:D1:2403:G:C8	29:D1:2872:A:C5	3.05	0.45
36:DE:44:TYR:CA	36:DE:45:ASN:CB	2.95	0.45
29:B1:1013:G:O3'	29:B1:1014:U:H4'	2.11	0.45
39:DH:99:PRO:HA	39:DH:236:GLY:H	1.80	0.45
32:BA:68:PHE:HA	32:BA:73:ASP:CB	2.46	0.45
11:CJ:90:VAL:HA	11:CJ:97:VAL:CB	2.47	0.45
29:D1:1718:G:H2'	29:D1:1719:G:H5'	1.99	0.45
1:C1:775:G:C2	1:C1:786:C:N3	2.85	0.45
36:BE:47:PRO:O	36:BE:48:LYS:CB	2.64	0.45
29:D1:1028:U:H2'	29:D1:1029:G:C5	2.51	0.45
29:D1:1029:G:C3'	29:D1:1030:A:H5'	2.47	0.45
29:D1:1029:G:H2'	29:D1:1030:A:H5''	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:59:LEU:O	6:AE:61:THR:N	2.43	0.45
29:B1:1021:G:C5	29:B1:1022:U:C5	3.04	0.45
6:CE:61:THR:CB	6:CE:62:ARG:O	2.65	0.45
29:B1:355:A:C2	29:B1:365:A:C6	3.05	0.45
36:DE:243:ALA:CB	36:DE:247:ILE:CB	2.94	0.45
14:CM:113:ILE:HA	14:CM:125:SER:CB	2.47	0.45
29:D1:601:U:C2	29:D1:602:A:H8	2.34	0.45
29:B1:1724:U:O2'	29:B1:1725:C:C4'	2.62	0.45
46:DQ:44:ALA:O	46:DQ:46:LYS:N	2.50	0.45
29:D1:666:A:H2'	29:D1:667:C:O5'	2.17	0.45
47:BR:23:ASN:O	47:BR:24:VAL:C	2.55	0.45
29:B1:2504:U:C5	29:B1:2505:U:C5	3.05	0.45
4:CC:117:ARG:O	4:CC:118:ALA:C	2.55	0.45
16:CO:53:ILE:N	16:CO:60:LYS:O	2.50	0.45
40:BI:159:ALA:O	40:BI:160:ASP:C	2.55	0.45
32:DA:54:LYS:CA	32:DA:55:LEU:CB	2.95	0.45
6:AE:96:VAL:O	6:AE:97:LEU:C	2.54	0.45
40:DI:157:ASN:O	40:DI:160:ASP:N	2.49	0.45
5:AD:184:PHE:HA	5:AD:185:ARG:HA	1.72	0.45
1:A1:1294:G:C6	74:A1:1952:OHX:N4	2.85	0.45
10:AI:125:PRO:O	10:AI:127:ARG:N	2.50	0.45
2:AA:111:ILE:O	2:AA:112:THR:CB	2.65	0.45
11:AJ:42:GLU:O	11:AJ:44:LEU:N	2.50	0.45
21:CT:92:TRP:HA	21:CT:100:TYR:CB	2.47	0.45
47:DR:77:ALA:C	47:DR:79:LYS:N	2.70	0.45
29:D1:2400:G:O2'	29:D1:2401:A:C5'	2.65	0.45
46:DQ:104:ALA:O	46:DQ:106:GLY:N	2.49	0.45
3:CB:230:TRP:C	3:CB:232:GLU:H	2.20	0.45
21:AT:216:LYS:O	21:AT:218:GLY:N	2.50	0.45
40:BI:51:GLN:N	40:BI:52:LEU:CB	2.80	0.45
12:CK:10:LYS:HA	12:CK:13:SER:CB	2.46	0.45
35:DD:89:ALA:O	35:DD:90:PHE:C	2.54	0.45
41:BJ:114:GLY:O	41:BJ:115:MET:CB	2.65	0.45
36:BE:269:SER:HA	36:BE:270:LYS:HA	1.73	0.45
53:DX:73:VAL:HA	53:DX:80:VAL:HA	1.98	0.45
47:BR:81:VAL:HA	47:BR:138:LEU:O	2.17	0.45
17:CP:92:CYS:C	17:CP:94:ASN:H	2.20	0.45
41:DJ:202:LYS:O	41:DJ:203:LYS:CB	2.65	0.45
41:DJ:217:PHE:O	41:DJ:220:GLN:N	2.49	0.45
1:A1:104:A:C2	1:A1:106:U:H1'	2.52	0.45
1:A1:1131:A:C3'	1:A1:1132:A:H8	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1116:A:C6	1:A1:1131:A:C8	3.04	0.45
1:A1:1149:G:O6	1:A1:1629:G:C2	2.70	0.45
1:A1:1150:G:H2'	1:A1:1151:A:O4'	2.16	0.45
1:A1:119:A:C2'	1:A1:120:U:O5'	2.65	0.45
1:A1:402:C:C2	1:A1:403:G:O4'	2.70	0.45
1:A1:426:G:C2	1:A1:427:C:C6	3.04	0.45
1:A1:426:G:H21	1:A1:459:G:C2'	2.30	0.45
1:A1:868:G:N3	1:A1:868:G:H2'	2.32	0.45
1:A1:995:A:H3'	1:A1:996:U:H6	1.82	0.45
1:A1:1086:A:H5'	3:AB:164:SER:CB	2.47	0.45
29:B1:1105:A:N6	29:B1:1106:G:C6	2.85	0.45
29:B1:947:G:C5	29:B1:1373:A:C2	3.06	0.45
29:B1:1489:A:C5'	29:B1:1490:A:OP2	2.65	0.45
29:B1:1558:A:H5''	29:B1:1559:A:O5'	2.16	0.45
29:B1:211:A:O4'	29:B1:229:G:H1'	2.17	0.45
29:B1:2137:U:C5	29:B1:2142:A:N7	2.85	0.45
29:B1:2278:C:O2'	29:B1:2279:A:H5''	2.16	0.45
29:B1:90:C:H4'	29:B1:282:G:OP1	2.17	0.45
29:B1:2847:A:C5'	29:B1:2848:G:OP2	2.55	0.45
29:B1:2906:C:H2'	29:B1:2907:G:O4'	2.17	0.45
29:B1:2914:G:O2'	29:B1:2933:A:N6	2.50	0.45
29:B1:3046:A:C5	29:B1:3047:U:C4	3.05	0.45
29:B1:307:A:H2'	29:B1:308:A:C5'	2.47	0.45
29:B1:3293:U:O2	29:B1:3293:U:H3'	2.17	0.45
29:B1:942:U:O4	74:B1:3492:OHX:N2	2.50	0.45
29:B1:359:U:O4	29:B1:360:G:N1	2.50	0.45
29:B1:371:G:C3'	29:B1:371:G:C8	3.00	0.45
29:B1:377:A:O2'	29:B1:391:A:N6	2.45	0.45
29:B1:47:C:C5	29:B1:48:A:C5	3.05	0.45
29:B1:533:A:O2'	29:B1:534:U:C2	2.57	0.45
29:B1:53:G:N3	29:B1:54:C:C6	2.85	0.45
29:B1:64:G:N2	29:B1:322:U:C2	2.85	0.45
29:B1:712:G:C5	29:B1:713:U:C5	3.05	0.45
29:B1:716:A:C8	29:B1:717:C:O4'	2.70	0.45
29:B1:84:U:OP1	29:B1:701:G:H5''	2.16	0.45
29:B1:857:G:C4'	29:B1:858:A:OP1	2.65	0.45
31:B3:42:G:H21	31:B3:43:A:H1'	1.82	0.45
34:BC:174:LYS:O	34:BC:175:LYS:CB	2.64	0.45
51:BV:47:ARG:C	51:BV:49:ILE:H	2.20	0.45
1:C1:104:A:N1	1:C1:106:U:H1'	2.31	0.45
1:C1:1087:A:N6	1:C1:1088:A:N6	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1633:A:OP1	1:C1:1633:A:C4'	2.64	0.45
1:C1:1756:A:C8	1:C1:1756:A:H3'	2.52	0.45
1:C1:55:A:C2	1:C1:403:G:C6	3.04	0.45
1:C1:551:G:N3	1:C1:552:G:C8	2.84	0.45
1:C1:61:A:OP2	1:C1:453:U:H6	2.00	0.45
1:C1:756:A:N6	1:C1:757:A:N6	2.65	0.45
29:D1:1103:A:OP1	29:D1:1103:A:O4'	2.35	0.45
29:D1:1194:G:O4'	29:D1:1319:G:O3'	2.35	0.45
29:D1:1779:C:C5'	29:D1:1780:G:H5''	2.47	0.45
29:D1:1798:A:N1	29:D1:1799:A:C6	2.85	0.45
29:D1:2417:U:C4	29:D1:2606:G:N7	2.84	0.45
29:D1:264:G:C6	29:D1:265:A:C5	3.03	0.45
29:D1:2798:C:O5'	29:D1:2799:A:OP1	2.35	0.45
29:D1:2917:G:O6	29:D1:2930:A:C6	2.70	0.45
29:D1:2980:U:H2'	29:D1:2981:U:C5'	2.46	0.45
29:D1:2983:C:O2'	29:D1:2984:C:H5'	2.17	0.45
29:D1:2987:A:C6	29:D1:2988:C:N4	2.85	0.45
29:D1:3021:A:O4'	29:D1:3023:U:C2	2.69	0.45
29:D1:303:G:C2	29:D1:2778:G:C8	3.04	0.45
29:D1:3059:G:C8	29:D1:3059:G:C5'	2.99	0.45
29:D1:3065:G:H2'	29:D1:3066:U:C6	2.52	0.45
29:D1:3117:C:C4	29:D1:3118:C:C5	3.05	0.45
29:D1:3136:G:C2	29:D1:3137:C:C6	3.05	0.45
29:D1:3370:A:N3	29:D1:3370:A:H2'	2.31	0.45
29:D1:385:A:C2'	29:D1:386:A:O5'	2.65	0.45
29:D1:413:U:C2	29:D1:414:U:C5	3.04	0.45
29:D1:547:G:C8	29:D1:548:G:C4	3.05	0.45
29:D1:556:U:C5	29:D1:557:A:H2	2.35	0.45
29:D1:752:C:C6	29:D1:753:C:H5	2.35	0.45
29:D1:880:G:C4	29:D1:882:A:N7	2.85	0.45
31:D3:143:U:H2'	31:D3:144:G:H8	1.80	0.45
31:D3:25:G:H2'	31:D3:26:U:O5'	2.17	0.45
31:D3:43:A:C4	31:D3:44:A:C8	3.05	0.45
44:DO:84:PRO:CA	74:DO:301:OHX:N6	2.77	0.45
1:A1:825:U:C6	1:A1:826:U:C2	3.05	0.45
1:A1:840:U:HO2'	1:A1:841:U:P	2.39	0.45
29:B1:2651:G:N3	29:B1:2796:G:C2	2.84	0.45
30:B2:106:U:C2	30:B2:107:C:C4	3.05	0.45
30:B2:62:U:C5'	30:B2:63:A:OP2	2.65	0.45
30:B2:62:U:C2'	30:B2:62:U:O2	2.65	0.45
30:B2:77:G:C1'	30:B2:78:U:OP2	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:64:U:C4	31:B3:97:A:C2	3.05	0.45
1:A1:210:A:H3'	1:A1:211:U:H5''	1.98	0.45
1:A1:266:A:O3'	1:A1:267:U:O4'	2.35	0.45
1:A1:269:G:C5	1:A1:270:C:C5	3.05	0.45
1:A1:450:U:C2'	1:A1:451:A:H8	2.29	0.45
29:D1:2680:A:C8	42:DK:54:VAL:CB	2.99	0.45
29:D1:2673:A:O3'	42:DK:106:ILE:O	2.35	0.45
1:A1:111:U:O2	1:A1:111:U:H2'	2.16	0.45
1:A1:1720:G:C8	1:A1:1721:A:C8	3.05	0.45
1:A1:333:A:C2	1:A1:334:G:N3	2.85	0.45
1:A1:333:A:N1	1:A1:334:G:C6	2.85	0.45
1:C1:1241:G:O3'	1:C1:1242:A:C8	2.67	0.45
1:C1:1239:U:H5	1:C1:1241:G:O6	2.00	0.45
1:C1:1489:U:H5''	1:C1:1490:C:OP2	2.17	0.45
1:C1:1541:G:C5	1:C1:1542:G:O6	2.70	0.45
10:CI:125:PRO:O	10:CI:127:ARG:N	2.50	0.45
1:A1:1257:U:O2'	1:A1:1258:U:C5'	2.64	0.45
1:A1:1344:A:C2	1:A1:1345:A:H1'	2.51	0.45
1:A1:1370:U:C4	1:A1:1371:A:N7	2.85	0.45
1:A1:1242:A:N1	1:A1:1452:U:H1'	2.32	0.45
1:A1:1481:C:H6	1:A1:1482:C:N1	2.15	0.45
1:A1:1471:A:C8	1:A1:1540:G:H1'	2.52	0.45
1:C1:1065:A:C5	1:C1:1066:C:C5	3.05	0.45
1:C1:1065:A:C6	1:C1:1066:C:C4	3.05	0.45
29:D1:199:A:N1	29:D1:201:A:H1'	2.32	0.45
29:D1:232:G:H2'	29:D1:233:C:H6	1.82	0.45
29:B1:1248:C:HO2'	29:B1:1249:G:H8	1.63	0.45
29:B1:1594:A:O2'	29:B1:1614:C:O2	2.34	0.45
1:C1:889:U:O2'	1:C1:890:C:C5'	2.64	0.45
31:B3:24:G:H2'	31:B3:25:G:O4'	2.17	0.45
2:CA:175:TYR:C	2:CA:177:LEU:N	2.71	0.45
29:B1:2162:U:H2'	29:B1:2163:C:O4'	2.18	0.45
1:C1:1294:G:N3	1:C1:1295:G:C8	2.85	0.45
29:B1:3221:C:H2'	29:B1:3222:U:C5'	2.47	0.45
29:D1:2594:C:C6	29:D1:2595:A:N7	2.85	0.45
1:A1:1332:C:O2'	1:A1:1333:C:P	2.75	0.45
29:D1:1687:U:O2'	29:D1:1688:U:H4'	2.17	0.45
43:DN:73:PRO:C	43:DN:75:GLY:N	2.70	0.45
30:D2:88:G:C4	30:D2:89:G:C8	3.04	0.45
29:B1:1952:G:C6	29:B1:2093:A:N6	2.85	0.45
1:A1:1657:U:C4	74:A1:1949:OHX:N1	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2719:U:C4	29:B1:2720:G:C5	3.05	0.45
29:B1:1946:A:H3'	29:B1:1947:G:H8	1.82	0.45
29:B1:1924:U:N3	29:B1:1926:C:N3	2.65	0.45
29:D1:859:G:N2	29:D1:861:C:C1'	2.77	0.45
9:CH:57:PRO:CB	9:CH:60:ALA:HB3	2.47	0.45
1:C1:778:G:C2	1:C1:783:G:C6	3.05	0.45
1:A1:1215:C:C2'	1:A1:1216:C:H5'	2.47	0.45
29:D1:1650:G:H2'	29:D1:1651:U:C6	2.52	0.45
29:B1:1539:A:C6	29:B1:1540:U:C5	3.05	0.45
54:DY:135:GLU:O	54:DY:137:LYS:N	2.50	0.45
1:C1:723:G:H2'	1:C1:724:C:O4'	2.17	0.45
29:B1:1816:A:OP2	29:B1:1816:A:C8	2.70	0.45
29:B1:3049:A:C2	34:BC:75:ALA:CB	3.00	0.45
33:BB:120:PRO:O	33:BB:121:GLY:C	2.55	0.45
52:DW:54:TYR:O	52:DW:56:ARG:N	2.47	0.45
3:CB:57:PHE:O	3:CB:59:HIS:N	2.50	0.45
1:A1:578:U:OP1	1:A1:578:U:H4'	2.16	0.45
34:DC:44:THR:O	34:DC:45:SER:CB	2.65	0.45
50:BU:127:PRO:O	50:BU:130:ALA:N	2.42	0.45
73:DM:36:GLN:O	73:DM:38:MET:N	2.50	0.45
11:AJ:106:LYS:O	11:AJ:109:PHE:N	2.50	0.45
38:DG:153:PHE:O	38:DG:154:GLY:O	2.35	0.45
1:A1:1225:U:C5	1:A1:1226:A:C6	3.05	0.45
21:AT:84:SER:C	21:AT:86:ASP:H	2.20	0.45
29:B1:180:C:H2'	29:B1:181:U:H6	1.82	0.45
40:BI:29:GLY:O	40:BI:32:GLY:N	2.45	0.45
12:AK:11:ARG:O	12:AK:15:ALA:N	2.50	0.45
43:BN:58:ILE:N	43:BN:59:ASN:CB	2.79	0.45
34:BC:182:GLN:O	34:BC:183:LEU:C	2.55	0.45
11:CJ:98:ASP:C	11:CJ:100:GLN:H	2.21	0.45
34:BC:292:ALA:HA	34:BC:293:ASN:HA	1.32	0.45
14:CM:35:ASP:O	14:CM:36:ILE:CB	2.64	0.45
48:DS:86:GLU:O	48:DS:89:LEU:O	2.34	0.45
7:AF:89:ALA:O	7:AF:90:TYR:O	2.35	0.45
1:A1:36:C:N3	1:A1:472:U:O4	2.49	0.44
1:A1:379:U:OP1	1:A1:379:U:O3'	2.35	0.44
1:A1:438:A:O5'	1:A1:438:A:C8	2.69	0.44
1:A1:518:A:C3'	1:A1:519:C:C5'	2.95	0.44
1:A1:862:A:C8	1:A1:963:A:N6	2.85	0.44
1:A1:960:U:C2'	1:A1:961:U:H5'	2.47	0.44
29:B1:1213:G:H2'	29:B1:1214:U:O5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1315:U:O2'	29:B1:1316:C:C5'	2.65	0.44
29:B1:1189:C:N4	29:B1:1316:C:OP2	2.47	0.44
29:B1:1549:U:H2'	29:B1:1550:C:C6	2.52	0.44
29:B1:1561:G:C5	29:B1:1562:C:C5	3.05	0.44
29:B1:1783:U:H2'	29:B1:1784:G:C8	2.53	0.44
29:B1:1907:C:C6	29:B1:1907:C:H3'	2.49	0.44
29:B1:2107:A:O2'	29:B1:2108:C:H5'	2.17	0.44
29:B1:2249:G:H2'	29:B1:2250:G:O4'	2.16	0.44
29:B1:2252:A:N1	29:B1:2253:G:C6	2.85	0.44
29:B1:2295:A:H2'	29:B1:2296:A:C8	2.52	0.44
29:B1:652:G:H2'	29:B1:2361:A:H5''	1.99	0.44
29:B1:41:G:H4'	29:B1:2410:U:H2'	1.99	0.44
29:B1:2718:U:OP2	74:B1:3592:OHX:N5	2.50	0.44
29:B1:2717:U:O4	29:B1:2740:A:C6	2.70	0.44
29:B1:2808:A:H2'	29:B1:2808:A:N3	2.31	0.44
29:B1:2847:A:C8	29:B1:2898:G:C5	3.05	0.44
29:B1:2894:C:H2'	29:B1:2895:G:C8	2.48	0.44
29:B1:34:A:H5'	29:B1:35:A:OP2	2.16	0.44
29:B1:377:A:HO2'	29:B1:391:A:H61	1.64	0.44
29:B1:394:G:H2'	29:B1:395:A:O5'	2.17	0.44
29:B1:40:A:N6	29:B1:937:G:C2	2.85	0.44
29:B1:409:A:OP2	29:B1:410:U:C5	2.71	0.44
29:B1:532:A:OP2	29:B1:533:A:N6	2.49	0.44
29:B1:585:A:H5''	29:B1:586:C:P	2.58	0.44
29:B1:641:C:O2'	29:B1:642:U:P	2.75	0.44
29:B1:706:A:H4'	29:B1:783:A:O2'	2.18	0.44
29:B1:769:G:N3	29:B1:770:G:N9	2.66	0.44
29:B1:943:U:H6	29:B1:943:U:H5'	1.82	0.44
29:B1:953:G:O3'	29:B1:954:U:O4'	2.35	0.44
31:B3:9:A:C2	31:B3:10:A:N7	2.85	0.44
1:C1:1045:C:N4	1:C1:1074:G:H1	2.15	0.44
1:C1:143:G:H2'	1:C1:144:U:O2'	2.16	0.44
1:C1:1634:C:N1	1:C1:1634:C:O5'	2.50	0.44
1:C1:1744:A:N6	1:C1:1745:G:C6	2.85	0.44
1:C1:380:U:C2'	1:C1:381:C:C6	2.80	0.44
1:C1:542:A:H2'	1:C1:544:A:H5''	1.98	0.44
1:C1:601:A:C5	1:C1:602:U:C5	3.04	0.44
1:C1:964:U:O4'	1:C1:965:U:C2	2.70	0.44
29:D1:1169:A:N1	29:D1:1330:A:C5	2.85	0.44
29:D1:1205:A:C6	29:D1:1206:G:C5	3.05	0.44
29:D1:1224:C:C4	29:D1:1285:G:N1	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1498:A:C2	29:D1:1519:G:C2	3.05	0.44
29:D1:1557:A:C4	29:D1:1558:A:H1'	2.52	0.44
29:D1:18:G:O2'	29:D1:19:U:H5'	2.17	0.44
29:D1:2141:U:O2	29:D1:2956:A:C6	2.70	0.44
29:D1:2144:A:C2	29:D1:2281:A:N7	2.83	0.44
29:D1:22:G:N1	31:D3:35:C:N3	2.62	0.44
29:D1:23:A:C2	29:D1:24:G:N9	2.85	0.44
29:D1:2794:G:C2	29:D1:2795:U:C2	3.05	0.44
29:D1:2808:A:H2'	29:D1:2808:A:N3	2.32	0.44
29:D1:2851:A:C2'	29:D1:2852:C:O4'	2.56	0.44
29:D1:2908:G:C2'	29:D1:2909:U:O5'	2.66	0.44
29:D1:2948:C:C2	29:D1:2949:U:C5	3.05	0.44
29:D1:2997:G:N2	29:D1:2998:U:H4'	2.31	0.44
29:D1:3079:U:O2'	29:D1:3080:G:P	2.75	0.44
29:D1:309:U:C5	29:D1:310:U:C5	3.04	0.44
29:D1:382:U:C4	29:D1:383:G:N9	2.86	0.44
29:D1:539:C:C2'	29:D1:539:C:O2	2.63	0.44
29:D1:559:A:H2'	29:D1:560:G:H8	1.82	0.44
29:D1:584:G:C2	29:D1:585:A:C5	3.05	0.44
29:D1:608:A:C6	29:D1:609:G:C5	3.05	0.44
29:D1:965:A:N3	29:D1:965:A:C2'	2.76	0.44
31:D3:102:U:O4	31:D3:103:G:C6	2.70	0.44
31:D3:54:A:H2'	31:D3:55:U:O5'	2.16	0.44
34:DC:132:LYS:O	34:DC:134:SER:N	2.46	0.44
29:D1:937:G:OP2	54:DY:24:LYS:CB	2.65	0.44
1:A1:221:A:N7	1:A1:832:U:O4	2.50	0.44
1:A1:831:U:H5'	1:A1:832:U:OP2	2.17	0.44
1:C1:649:U:C6	1:C1:650:U:C5	3.05	0.44
29:B1:1057:A:C6	29:B1:1058:U:C5	3.05	0.44
29:B1:2615:G:H2'	29:B1:2616:C:C6	2.52	0.44
29:B1:2690:G:OP2	29:B1:2691:A:N7	2.50	0.44
29:B1:998:A:C2'	29:B1:999:G:C5'	2.93	0.44
30:B2:82:G:C5	30:B2:99:G:N1	2.86	0.44
31:B3:69:U:H2'	31:B3:70:G:C3'	2.47	0.44
29:D1:2680:A:N6	42:DK:55:ARG:C	2.71	0.44
1:A1:321:C:H2'	1:A1:322:G:H5'	1.96	0.44
1:C1:1228:G:H2'	1:C1:1228:G:N3	2.32	0.44
1:C1:1354:G:C5	1:C1:1355:C:C5	3.05	0.44
1:C1:1373:C:C2'	1:C1:1373:C:O2	2.64	0.44
1:C1:1428:G:C2	1:C1:1429:G:N7	2.85	0.44
1:C1:1605:G:H2'	1:C1:1606:C:H5'	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1203:A:C2	1:A1:1556:A:C1'	2.92	0.44
1:A1:1346:A:O4'	1:A1:1346:A:OP1	2.34	0.44
1:A1:1428:G:C2	1:A1:1429:G:C5	3.04	0.44
1:A1:1584:G:N7	11:AJ:123:ARG:O	2.50	0.44
1:A1:1517:U:O2	15:AN:16:GLN:C	2.55	0.44
15:AN:15:GLN:O	15:AN:17:GLN:HA	2.17	0.44
29:B1:1511:U:H5'	29:B1:1512:U:H5	1.81	0.44
29:B1:3207:U:H3'	29:B1:3208:G:H5'	1.99	0.44
29:B1:3202:G:C2	29:B1:3203:U:O2	2.70	0.44
29:B1:3202:G:N1	29:B1:3203:U:N3	2.65	0.44
29:D1:3203:U:C2'	29:D1:3204:C:N1	2.80	0.44
30:D2:22:A:C6	30:D2:23:A:N1	2.85	0.44
29:D1:1393:A:N7	29:D1:1418:A:C4	2.85	0.44
29:B1:1246:G:C2	29:B1:1265:U:C5	3.06	0.44
29:D1:3220:G:N2	29:D1:3221:C:C5	2.85	0.44
1:C1:886:U:H2'	9:CH:122:PRO:CB	2.47	0.44
30:D2:31:U:C5	30:D2:32:U:C5	3.05	0.44
1:A1:642:G:C6	1:A1:643:G:C6	3.05	0.44
1:A1:643:G:C2	1:A1:692:C:C4	3.05	0.44
29:D1:1237:G:H3'	29:D1:1237:G:OP1	2.17	0.44
29:B1:2514:U:O2'	29:B1:2515:A:H8	2.01	0.44
29:B1:72:C:C5	29:B1:73:C:N1	2.85	0.44
29:D1:3245:A:O2'	29:D1:3246:G:O5'	2.36	0.44
1:C1:1390:U:C1'	1:C1:1413:U:C2	3.00	0.44
2:CA:13:ASP:N	2:CA:17:LEU:CB	2.81	0.44
29:B1:1077:U:N3	29:B1:1083:G:N2	2.65	0.44
29:D1:3003:G:N3	29:D1:3004:C:C5	2.84	0.44
29:D1:2206:G:N2	29:D1:2207:A:C8	2.85	0.44
29:B1:1508:C:C2'	29:B1:1509:A:H5'	2.46	0.44
29:D1:1945:A:C6	29:D1:2104:A:C6	3.05	0.44
1:C1:900:A:C4'	1:C1:916:U:H1'	2.46	0.44
1:C1:915:A:N7	1:C1:916:U:N3	2.64	0.44
30:B2:4:U:C2	30:B2:118:A:C2	3.05	0.44
29:D1:1922:A:N7	29:D1:1923:C:C5	2.85	0.44
29:B1:252:U:H4'	29:B1:253:A:OP2	2.17	0.44
36:BE:42:ALA:O	36:BE:43:LYS:CB	2.65	0.44
29:D1:1354:G:H2'	29:D1:1355:A:C4	2.52	0.44
34:BC:301:THR:HA	34:BC:302:LYS:HA	1.59	0.44
36:DE:199:ILE:O	36:DE:201:GLY:N	2.50	0.44
29:B1:1029:G:C3'	29:B1:1030:A:H5'	2.48	0.44
1:A1:1783:C:N4	1:A1:1784:C:N4	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1750:A:C2'	29:D1:1751:G:OP1	2.65	0.44
1:C1:718:U:H4'	1:C1:719:U:OP2	2.16	0.44
29:B1:2900:A:O2'	29:B1:2901:G:O5'	2.35	0.44
29:B1:600:G:N7	74:B1:3620:OHX:N2	2.65	0.44
1:A1:568:G:N1	1:A1:569:C:C4	2.86	0.44
45:DP:184:THR:O	45:DP:187:GLU:CB	2.65	0.44
29:B1:171:G:H2'	29:B1:172:G:O5'	2.17	0.44
1:C1:733:A:C4	1:C1:734:A:C8	3.05	0.44
29:D1:246:U:H3'	29:D1:247:C:C5'	2.42	0.44
73:DM:47:GLY:C	73:DM:49:ALA:H	2.21	0.44
29:B1:2694:A:C5'	29:B1:2695:A:OP2	2.65	0.44
1:C1:903:U:O2	1:C1:906:A:N7	2.50	0.44
33:DB:91:GLY:O	33:DB:93:LYS:N	2.50	0.44
29:B1:1571:A:H2'	29:B1:1571:A:N3	2.31	0.44
45:BP:49:ARG:O	45:BP:52:LEU:N	2.50	0.44
34:BC:122:TRP:HA	34:BC:128:LYS:O	2.16	0.44
51:DV:33:ASN:O	51:DV:34:SER:C	2.54	0.44
1:A1:1294:G:O2'	1:A1:1321:A:N1	2.33	0.44
10:CI:69:GLU:C	10:CI:71:GLU:H	2.20	0.44
48:DS:35:ALA:HB1	48:DS:40:ALA:HB1	1.98	0.44
39:DH:228:GLU:C	39:DH:230:LYS:H	2.19	0.44
34:DC:289:ASP:CA	34:DC:290:ASP:CB	2.95	0.44
34:DC:289:ASP:CB	34:DC:290:ASP:CB	2.95	0.44
44:DO:136:ASP:O	44:DO:137:PRO:C	2.55	0.44
35:DD:89:ALA:O	35:DD:91:GLY:N	2.50	0.44
38:BG:124:LEU:O	38:BG:125:GLU:C	2.54	0.44
39:BH:217:THR:O	39:BH:220:ALA:HB3	2.17	0.44
2:CA:74:VAL:O	2:CA:121:VAL:HA	2.16	0.44
13:AL:108:LYS:O	13:AL:111:ASP:CB	2.65	0.44
11:AJ:86:ALA:C	11:AJ:88:GLY:H	2.19	0.44
1:A1:1109:G:C6	1:A1:1110:G:N7	2.86	0.44
1:A1:1629:G:C2'	1:A1:1630:U:O4'	2.64	0.44
1:A1:1765:A:OP1	74:A1:1931:OHX:N3	2.50	0.44
1:A1:17:C:N3	1:A1:18:C:C5	2.86	0.44
1:A1:363:G:N1	1:A1:382:C:C4	2.85	0.44
1:A1:361:C:C4	1:A1:384:G:C2	3.05	0.44
1:A1:439:U:O2'	1:A1:440:U:H4'	2.17	0.44
29:B1:1121:U:H2'	29:B1:1122:U:C6	2.52	0.44
29:B1:1130:A:C8	29:B1:1132:C:C6	3.05	0.44
29:B1:1158:A:H2'	29:B1:1158:A:N3	2.32	0.44
29:B1:1178:G:N7	29:B1:1179:A:N1	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1453:A:H2	74:B1:3561:OHX:N5	2.15	0.44
29:B1:1656:A:O4'	29:B1:1657:C:C5	2.70	0.44
29:B1:2185:G:C6	29:B1:2186:U:C5	3.05	0.44
29:B1:2222:A:H61	29:B1:2783:U:C5'	2.30	0.44
29:B1:2253:G:C3'	29:B1:2254:U:C6	2.97	0.44
29:B1:2889:C:C2'	29:B1:2890:A:H5'	2.47	0.44
29:B1:2918:G:N3	29:B1:2919:A:H8	2.11	0.44
29:B1:3110:C:C2'	29:B1:3111:U:H5'	2.46	0.44
29:B1:3115:C:O2'	29:B1:3117:C:H5	2.00	0.44
29:B1:3329:U:O4	29:B1:3374:U:C4	2.71	0.44
29:B1:3332:U:C2'	29:B1:3333:G:OP2	2.65	0.44
29:B1:3374:U:C2	29:B1:3375:A:C2	3.06	0.44
29:B1:3142:A:H2	74:B1:3428:OHX:N5	2.15	0.44
74:B1:3536:OHX:N6	44:BO:84:PRO:HA	2.31	0.44
29:B1:396:A:C4'	29:B1:397:A:OP1	2.65	0.44
29:B1:510:G:N1	29:B1:511:G:C4	2.85	0.44
29:B1:512:U:O2	29:B1:579:G:C2	2.69	0.44
29:B1:612:U:C1'	29:B1:613:G:N7	2.75	0.44
29:B1:425:G:C6	29:B1:635:G:N1	2.85	0.44
29:B1:636:C:O2'	29:B1:637:C:O5'	2.35	0.44
29:B1:656:A:H5'	29:B1:657:A:OP2	2.17	0.44
29:B1:674:G:H2'	29:B1:675:C:O4'	2.18	0.44
29:B1:682:U:O5'	29:B1:683:U:OP2	2.35	0.44
29:B1:756:U:C4	29:B1:757:C:C5	3.05	0.44
29:B1:763:G:N7	29:B1:764:U:C2	2.85	0.44
29:B1:779:G:H2'	29:B1:780:A:O4'	2.18	0.44
29:B1:947:G:N3	29:B1:948:C:C6	2.86	0.44
31:B3:42:G:N2	31:B3:43:A:N9	2.66	0.44
29:B1:44:U:OP2	44:BO:83:LYS:CB	2.66	0.44
1:C1:106:U:H2'	1:C1:107:C:O4'	2.17	0.44
1:C1:124:A:H2'	1:C1:124:A:N3	2.32	0.44
1:C1:139:C:H2'	1:C1:139:C:O2	2.17	0.44
1:C1:16:G:N2	1:C1:17:C:N3	2.65	0.44
1:C1:451:A:H2'	1:C1:451:A:N3	2.32	0.44
1:C1:97:C:C5	1:C1:98:U:C5	3.05	0.44
29:D1:1179:A:O4'	29:D1:1328:C:O4'	2.36	0.44
29:D1:1203:A:H2'	29:D1:2855:U:O2'	2.17	0.44
29:D1:659:G:C6	29:D1:1432:C:C2	3.05	0.44
29:D1:1444:G:H3'	29:D1:1444:G:C8	2.52	0.44
29:D1:1449:A:C8	29:D1:1450:G:C4	3.05	0.44
29:D1:1456:A:N6	29:D1:1477:A:H4'	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:155:G:OP2	29:D1:157:A:H2	2.00	0.44
29:D1:1587:A:C2	29:D1:1590:G:C8	3.05	0.44
29:D1:158:G:N7	29:D1:159:A:C1'	2.74	0.44
29:D1:1604:G:C5	29:D1:1605:A:C5	3.04	0.44
29:D1:1878:G:C3'	29:D1:1879:A:H5'	2.47	0.44
29:D1:2261:G:N2	29:D1:2263:C:N3	2.64	0.44
29:D1:420:G:C5	29:D1:2385:G:N1	2.85	0.44
29:D1:2711:C:C4	29:D1:2712:U:C5	3.05	0.44
29:D1:2786:G:N3	29:D1:2786:G:H2'	2.32	0.44
29:D1:2823:G:C5	29:D1:2824:G:C8	3.05	0.44
29:D1:2828:G:H2'	29:D1:2829:U:O5'	2.18	0.44
29:D1:2853:A:C5	29:D1:2854:U:C4	3.04	0.44
29:D1:2916:U:C5	29:D1:2935:U:O2	2.70	0.44
29:D1:2946:A:C2'	29:D1:2982:A:N7	2.80	0.44
29:D1:3034:C:C6	29:D1:3034:C:H3'	2.51	0.44
29:D1:3046:A:C4	29:D1:3047:U:C6	3.05	0.44
29:D1:3126:C:C4	29:D1:3127:A:C8	3.05	0.44
29:D1:313:A:C6	29:D1:314:U:C4	3.05	0.44
29:D1:3310:A:C2	29:D1:3311:C:C1'	3.00	0.44
29:D1:337:G:C2	29:D1:339:C:N3	2.85	0.44
29:D1:863:C:OP1	74:D1:3428:OHX:N3	2.50	0.44
29:D1:577:C:O2'	29:D1:578:A:H2'	2.16	0.44
29:D1:681:U:O2	29:D1:682:U:C6	2.70	0.44
29:D1:774:G:C5	29:D1:775:A:C8	3.04	0.44
29:D1:781:G:O6	29:D1:782:U:C4	2.70	0.44
29:D1:90:C:H2'	29:D1:91:G:H5'	1.99	0.44
29:D1:946:U:C2'	29:D1:947:G:H5'	2.47	0.44
31:D3:103:G:C2	31:D3:105:A:N6	2.85	0.44
31:D3:72:A:O2'	31:D3:73:U:P	2.75	0.44
31:D3:79:A:H2'	31:D3:80:A:C8	2.51	0.44
31:D3:96:A:C3'	31:D3:97:A:H5''	2.39	0.44
34:DC:50:LYS:CB	34:DC:333:LYS:N	2.62	0.44
1:C1:217:A:C1'	1:C1:218:A:C5'	2.96	0.44
29:B1:2632:G:C6	29:B1:2633:U:C4	3.05	0.44
29:B1:2688:U:H2'	29:B1:2688:U:O2	2.18	0.44
30:B2:11:A:O2'	30:B2:68:C:H5'	2.17	0.44
1:A1:202:A:C5	1:A1:203:U:O4	2.70	0.44
1:A1:63:G:C6	1:A1:64:U:C5	3.05	0.44
1:C1:243:G:H8	1:C1:243:G:H5''	1.81	0.44
1:C1:243:G:N2	1:C1:251:A:C4	2.85	0.44
29:D1:2680:A:N6	42:DK:56:THR:N	2.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2679:A:C4'	29:B1:2679:A:OP2	2.65	0.44
1:A1:1684:U:C4	1:A1:1721:A:C2	2.98	0.44
1:A1:1717:G:C6	1:A1:1718:G:C2	3.04	0.44
1:C1:1236:A:C2	1:C1:1237:G:C4	3.04	0.44
1:C1:1609:U:H3'	1:C1:1610:G:H8	1.82	0.44
13:CL:134:ARG:O	13:CL:135:GLY:C	2.55	0.44
1:A1:1174:C:H4'	1:A1:1601:G:C5	2.52	0.44
1:A1:1346:A:H2'	1:A1:1347:U:O5'	2.18	0.44
1:A1:1543:A:H2	1:A1:1544:U:H1'	1.81	0.44
1:A1:1567:U:C2'	1:A1:1568:C:O4'	2.64	0.44
1:A1:1170:G:C6	1:A1:1574:G:C6	3.06	0.44
29:B1:436:A:H2'	29:B1:437:G:O4'	2.18	0.44
29:B1:618:C:C2'	29:B1:619:A:C8	2.73	0.44
29:B1:3212:C:C5	29:B1:3213:A:C2	3.05	0.44
29:B1:3191:G:C2	29:B1:3202:G:N3	2.86	0.44
29:B1:3202:G:H2'	29:B1:3203:U:C6	2.52	0.44
29:D1:397:A:N1	29:D1:400:G:C2	2.84	0.44
29:D1:3218:A:C3'	29:D1:3220:G:C8	3.00	0.44
2:AA:175:TYR:O	2:AA:177:LEU:N	2.50	0.44
31:B3:130:C:H2'	31:B3:131:A:C8	2.52	0.44
29:D1:1275:C:C4	29:D1:1276:U:C5	3.05	0.44
29:B1:2430:A:H2'	29:B1:2431:C:H6	1.82	0.44
29:D1:985:U:C2'	29:D1:986:U:H6	2.25	0.44
31:B3:29:U:N3	31:B3:30:C:H5	2.14	0.44
29:B1:844:G:H5''	29:B1:845:G:P	2.57	0.44
38:DG:33:ARG:O	38:DG:34:LYS:C	2.55	0.44
1:C1:1390:U:C2'	1:C1:1391:A:OP2	2.63	0.44
29:B1:3265:C:C5	29:B1:3266:G:N7	2.85	0.44
29:B1:986:U:N3	29:B1:1099:A:C2	2.84	0.44
29:B1:1621:A:H2'	29:B1:1622:U:C5	2.49	0.44
29:B1:1626:U:C2'	29:B1:1627:U:O4'	2.66	0.44
39:BH:190:VAL:O	39:BH:191:ASN:C	2.55	0.44
1:C1:487:G:N3	1:C1:488:G:N7	2.65	0.44
30:B2:121:U:C3'	36:BE:263:GLU:O	2.65	0.44
30:D2:121:U:OP2	36:DE:260:PHE:HA	2.17	0.44
9:CH:96:PRO:O	9:CH:97:GLY:C	2.55	0.44
1:A1:1324:G:C6	1:A1:1325:A:C8	3.04	0.44
29:B1:2119:A:C4	29:B1:2120:A:H2	2.35	0.44
29:D1:835:G:O2'	29:D1:836:A:P	2.76	0.44
29:B1:2909:U:H2'	29:B1:2910:A:H5'	1.99	0.44
39:BH:215:VAL:O	39:BH:219:ASP:CB	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1009:A:C2	29:D1:1042:U:O2	2.69	0.44
45:BP:58:LEU:CB	45:BP:72:HIS:HA	2.47	0.44
1:C1:310:C:H6	1:C1:310:C:C5'	2.29	0.44
13:CL:75:ASN:C	13:CL:78:HIS:H	2.21	0.44
21:CT:20:VAL:HA	21:CT:37:SER:CB	2.47	0.44
29:D1:2155:G:C5	29:D1:2156:C:C4	3.05	0.44
29:B1:170:G:N2	29:B1:171:G:H1'	2.33	0.44
1:C1:735:C:N3	1:C1:736:C:N4	2.64	0.44
29:D1:1046:A:H2'	29:D1:1049:C:H5	1.82	0.44
29:D1:1409:G:O2'	29:D1:1410:U:H5'	2.17	0.44
29:D1:898:U:N3	29:D1:899:U:C5	2.85	0.44
1:A1:929:A:C6	1:A1:930:A:C4	3.05	0.44
29:B1:2441:A:H3'	29:B1:2442:G:H8	1.83	0.44
29:B1:2218:G:C4	29:B1:2228:A:C2	3.06	0.44
51:BV:41:LYS:O	51:BV:43:ARG:N	2.47	0.44
3:CB:215:PHE:O	3:CB:216:VAL:C	2.55	0.44
41:DJ:146:ASP:O	41:DJ:147:VAL:C	2.54	0.44
6:AE:94:ASP:O	6:AE:95:TYR:C	2.55	0.44
42:BK:76:ALA:C	42:BK:78:GLU:N	2.71	0.44
53:DX:36:SER:O	53:DX:37:LYS:C	2.55	0.44
36:BE:185:PHE:CB	36:BE:186:GLU:CA	2.95	0.44
17:CP:95:PHE:C	17:CP:97:ASP:N	2.71	0.44
1:A1:1276:U:H5'	4:AC:147:ALA:CB	2.47	0.44
36:DE:185:PHE:CB	36:DE:186:GLU:CA	2.96	0.44
29:D1:632:G:C8	29:D1:632:G:H3'	2.52	0.44
29:D1:1673:G:C2	29:D1:1775:G:N3	2.85	0.44
48:DS:12:ALA:HB2	48:DS:19:LYS:HA	1.99	0.44
1:A1:413:U:C2	1:A1:421:A:C2	3.06	0.44
53:BX:70:ILE:O	53:BX:71:SER:C	2.56	0.44
2:CA:210:VAL:O	2:CA:212:GLN:N	2.49	0.44
21:CT:280:GLY:O	21:CT:281:TYR:CB	2.65	0.44
1:C1:254:A:H2'	1:C1:254:A:N3	2.32	0.44
29:D1:616:G:H8	29:D1:616:G:O5'	2.00	0.44
42:BK:94:ARG:HA	42:BK:95:ASN:HA	1.72	0.44
42:BK:97:SER:C	42:BK:99:THR:H	2.20	0.44
36:BE:204:VAL:O	36:BE:207:TYR:N	2.50	0.44
1:A1:1036:A:H5'	1:A1:1037:C:OP2	2.17	0.44
1:A1:1636:C:N3	1:A1:1765:A:C6	2.85	0.44
1:A1:1791:A:O2'	1:A1:1793:G:C5'	2.62	0.44
1:A1:20:G:C3'	1:A1:21:U:H5'	2.46	0.44
1:A1:389:G:C4	1:A1:390:G:C8	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:92:A:P	1:A1:398:G:H22	2.41	0.44
1:A1:437:A:C5'	1:A1:438:A:OP1	2.65	0.44
1:A1:478:A:C2	1:A1:479:C:C4	3.05	0.44
29:B1:1104:G:N7	29:B1:1105:A:C4	2.86	0.44
29:B1:954:U:H5	29:B1:1115:G:O2'	1.99	0.44
29:B1:1131:G:N2	29:B1:2373:A:C5	2.86	0.44
29:B1:1157:G:C6	29:B1:1158:A:C2	3.05	0.44
29:B1:1435:A:N7	29:B1:1437:C:N1	2.64	0.44
29:B1:1779:C:P	29:B1:1780:G:H8	2.41	0.44
29:B1:1905:G:N2	29:B1:1907:C:H5'	2.33	0.44
29:B1:1908:A:C8	29:B1:1909:A:C8	3.04	0.44
29:B1:940:G:OP1	29:B1:2871:G:C6	2.70	0.44
29:B1:2403:G:C8	29:B1:2872:A:C5	3.05	0.44
29:B1:2919:A:C3'	29:B1:2920:U:H5'	2.42	0.44
29:B1:2931:C:O2'	29:B1:2932:U:H5'	2.17	0.44
29:B1:36:C:H4'	29:B1:808:A:H2	1.79	0.44
29:B1:419:G:H5'	29:B1:420:G:OP2	2.17	0.44
29:B1:533:A:H2'	29:B1:534:U:C6	2.52	0.44
29:B1:598:A:C2	29:B1:599:C:C2	3.05	0.44
37:BF:150:LYS:C	37:BF:152:THR:N	2.70	0.44
1:C1:273:G:O2'	1:C1:274:G:P	2.75	0.44
1:C1:391:A:N1	1:C1:392:G:C5	2.85	0.44
1:C1:55:A:HO2'	1:C1:403:G:H1	1.62	0.44
1:C1:468:A:O3'	1:C1:469:C:C4	2.70	0.44
1:C1:589:C:H2'	1:C1:590:C:C6	2.53	0.44
29:D1:1131:G:H2'	29:D1:2825:C:O2'	2.17	0.44
29:D1:1130:A:C2'	29:D1:1132:C:H6	2.27	0.44
29:D1:113:C:O2	29:D1:113:C:H2'	2.16	0.44
29:D1:1586:G:H8	29:D1:1586:G:O5'	2.00	0.44
29:D1:1654:A:C2'	29:D1:1655:G:O4'	2.65	0.44
29:D1:1778:G:H4'	29:D1:1779:C:C2	2.52	0.44
29:D1:1835:A:C5	29:D1:1836:C:C4	3.05	0.44
29:D1:1940:G:C2	29:D1:1941:C:C2	3.05	0.44
29:D1:2197:C:N3	29:D1:2242:A:C2	2.86	0.44
29:D1:2315:G:N3	29:D1:2316:G:C8	2.85	0.44
29:D1:2368:A:H2'	29:D1:2369:G:H5'	1.98	0.44
29:D1:2397:A:OP1	29:D1:2398:A:H4'	2.17	0.44
29:D1:2812:C:C2	29:D1:2813:A:C8	3.05	0.44
29:D1:2405:C:C2	29:D1:2820:A:N1	2.84	0.44
29:D1:2857:C:C2	29:D1:2858:U:C6	3.04	0.44
29:D1:2357:A:C2	29:D1:2983:C:H5	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2986:U:H2'	29:D1:2987:A:H5'	1.99	0.44
29:D1:309:U:C5	29:D1:310:U:C4	3.05	0.44
29:D1:3161:C:OP2	29:D1:3161:C:C5	2.71	0.44
29:D1:3296:A:N3	29:D1:3297:U:H1'	2.32	0.44
29:D1:348:A:H1'	29:D1:352:A:N3	2.33	0.44
29:D1:37:U:N3	29:D1:38:U:C4	2.86	0.44
29:D1:560:G:HO2'	29:D1:561:C:C5'	2.24	0.44
29:D1:589:A:H5''	29:D1:611:A:H2	1.82	0.44
29:D1:659:G:C8	29:D1:659:G:O5'	2.57	0.44
29:D1:718:G:OP1	29:D1:719:U:H4'	2.17	0.44
29:D1:826:G:C6	29:D1:827:A:C5	3.06	0.44
29:D1:869:G:H2'	29:D1:869:G:N3	2.31	0.44
29:D1:887:G:C5	29:D1:888:A:C5	3.04	0.44
29:D1:88:A:C8	29:D1:88:A:C3'	3.00	0.44
29:D1:891:G:O2'	29:D1:892:U:C5'	2.64	0.44
30:D2:82:G:C4	30:D2:99:G:N2	2.85	0.44
31:D3:97:A:H2'	31:D3:98:U:H5'	2.00	0.44
35:DD:101:ALA:C	35:DD:102:PRO:O	2.55	0.44
1:A1:846:G:HO2'	1:A1:847:A:C4'	2.26	0.44
1:A1:652:G:N1	1:A1:683:C:C2	2.85	0.44
29:B1:2704:A:OP2	74:B1:3405:OHX:N4	2.50	0.44
29:B1:993:G:H21	29:B1:2638:C:P	2.40	0.44
30:B2:60:G:C4	30:B2:61:G:C8	3.05	0.44
49:BT:23:GLY:O	49:BT:24:ALA:HB3	2.18	0.44
30:D2:14:U:O2'	30:D2:15:C:O5'	2.35	0.44
30:D2:19:C:H2'	30:D2:20:A:C8	2.52	0.44
1:C1:1679:G:H2'	1:C1:1680:G:O4'	2.17	0.44
1:C1:333:A:O2'	1:C1:334:G:O5'	2.28	0.44
1:A1:1681:A:C8	1:A1:1682:U:N3	2.86	0.44
1:C1:1204:A:C6	1:C1:1205:C:O2	2.70	0.44
1:C1:1241:G:C3'	1:C1:1242:A:H5''	2.47	0.44
1:C1:1249:U:C2'	1:C1:1250:U:H5'	2.47	0.44
1:C1:1255:G:P	1:C1:1255:G:O4'	2.74	0.44
1:C1:1378:U:H3'	1:C1:1379:C:H5''	1.98	0.44
1:C1:1498:G:C2	1:C1:1510:U:O2	2.70	0.44
11:CJ:28:LEU:HA	14:CM:1:MET:HA	1.98	0.44
1:C1:1346:A:C2	15:CN:13:GLU:O	2.58	0.44
1:A1:1167:G:C6	1:A1:1168:U:C4	3.06	0.44
1:A1:1214:U:O5'	1:A1:1245:G:N2	2.50	0.44
1:A1:1245:G:C5	1:A1:1246:C:C6	3.06	0.44
1:A1:1251:U:C2	1:A1:1252:C:C6	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1607:G:C2	1:A1:1608:U:C6	3.05	0.44
30:B2:90:U:C2'	30:B2:90:U:O2	2.62	0.44
30:B2:91:G:C5	30:B2:92:A:C5	3.04	0.44
29:D1:436:A:N1	29:D1:624:G:N1	2.65	0.44
29:D1:3191:G:C6	29:D1:3192:U:N3	2.85	0.44
30:D2:24:A:C4	30:D2:25:G:N7	2.85	0.44
29:D1:3252:G:H2'	29:D1:3253:G:H8	1.79	0.44
29:D1:189:G:C6	29:D1:206:G:C5	3.05	0.44
29:D1:207:U:O2'	29:D1:208:C:H5'	2.18	0.44
29:D1:372:A:H2'	29:D1:372:A:N3	2.33	0.44
29:D1:395:A:H2'	29:D1:396:A:C8	2.52	0.44
29:D1:3224:G:C6	29:D1:3225:C:C5	3.05	0.44
29:D1:3384:U:N3	29:D1:3385:U:C4	2.85	0.44
1:C1:156:A:H2'	1:C1:157:A:C8	2.52	0.44
29:D1:1240:A:H3'	29:D1:1241:U:C5'	2.47	0.44
29:D1:1258:U:N3	29:D1:1260:A:OP2	2.50	0.44
29:B1:2235:C:H2'	29:B1:2236:G:C8	2.52	0.44
29:B1:72:C:C3'	29:B1:73:C:C5'	2.83	0.44
29:B1:2161:G:C6	29:B1:2162:U:C4	3.06	0.44
29:B1:1076:C:C4	29:B1:1077:U:O4	2.70	0.44
29:D1:3141:A:H2	29:D1:3144:G:OP2	2.00	0.44
29:B1:2554:A:N1	33:BB:85:GLY:O	2.50	0.44
1:A1:1391:A:N3	1:A1:1392:U:C5	2.85	0.44
1:A1:1336:A:N1	1:A1:1416:G:C6	2.85	0.44
29:B1:1713:G:C8	29:B1:1714:A:C2	3.05	0.44
21:CT:180:ALA:CB	21:CT:190:ALA:O	2.52	0.44
30:B2:120:C:H5''	30:B2:121:U:OP2	2.17	0.44
36:DE:43:LYS:HA	49:DT:70:SER:N	2.32	0.44
29:B1:2881:C:H2'	29:B1:2882:U:O5'	2.16	0.44
30:D2:121:U:H3'	36:DE:263:GLU:O	2.17	0.44
36:DE:264:GLN:O	36:DE:283:ALA:C	2.56	0.44
29:D1:3271:G:N2	29:D1:3272:C:OP1	2.50	0.44
45:BP:35:VAL:N	45:BP:103:LYS:O	2.50	0.44
29:D1:2581:U:C5'	74:D1:3567:OHX:N1	2.79	0.44
5:AD:117:THR:CB	5:AD:191:ALA:HB1	2.47	0.44
9:CH:61:MET:C	9:CH:63:ALA:N	2.70	0.44
5:CD:117:THR:O	5:CD:121:ILE:CB	2.65	0.44
29:D1:1742:U:H2'	29:D1:1743:G:C8	2.49	0.44
29:B1:1751:G:C5	29:B1:1752:A:N7	2.85	0.44
29:D1:1818:U:H2'	29:D1:1819:U:C6	2.51	0.44
14:CM:99:SER:CA	14:CM:102:ARG:CB	2.91	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1307:G:HO2'	29:D1:1308:A:P	2.33	0.44
36:BE:196:ARG:O	36:BE:197:SER:C	2.55	0.44
44:DO:157:LYS:O	44:DO:159:ARG:N	2.50	0.44
44:DO:160:GLU:O	44:DO:161:ALA:CB	2.64	0.44
29:B1:2115:G:N2	74:B1:3440:OHX:N5	2.65	0.44
1:C1:422:G:HO2'	1:C1:423:G:C5'	2.30	0.44
3:CB:134:LEU:O	3:CB:136:VAL:N	2.50	0.44
29:D1:1357:G:C3'	29:D1:1358:C:H6	2.30	0.44
1:C1:804:A:C5	1:C1:805:U:C5	3.05	0.44
35:BD:117:GLU:C	35:BD:119:ARG:H	2.21	0.44
72:DL:46:ILE:C	72:DL:48:LYS:H	2.20	0.44
29:D1:1805:C:O2'	29:D1:1806:A:H5'	2.18	0.44
15:AN:23:ARG:O	15:AN:24:ILE:C	2.55	0.44
49:DT:11:THR:O	49:DT:13:TYR:N	2.50	0.44
2:CA:72:ASP:HA	2:CA:95:ALA:HA	1.99	0.44
4:AC:93:ASP:O	4:AC:95:GLY:N	2.50	0.44
49:BT:16:GLN:CB	74:BT:201:OHX:N2	2.80	0.44
33:DB:206:PRO:C	33:DB:207:VAL:O	2.54	0.44
35:BD:237:GLN:C	35:BD:239:ALA:N	2.71	0.44
34:DC:128:LYS:HA	34:DC:129:ALA:O	2.17	0.44
2:CA:52:LYS:O	2:CA:54:TRP:N	2.50	0.44
2:AA:82:GLY:HA2	2:AA:85:ALA:HB3	1.98	0.44
44:BO:137:PRO:O	44:BO:139:HIS:N	2.39	0.44
41:DJ:206:LEU:O	41:DJ:207:GLU:C	2.56	0.44
30:B2:18:C:C4	30:B2:19:C:C5	3.05	0.44
34:BC:289:ASP:CA	34:BC:290:ASP:CB	2.96	0.44
21:AT:236:ALA:O	21:AT:237:GLN:CB	2.64	0.44
29:D1:2526:C:H3'	29:D1:2527:G:H8	1.82	0.44
21:CT:95:ALA:C	21:CT:97:GLY:H	2.21	0.44
1:A1:1106:U:H2'	1:A1:1107:G:H5'	1.99	0.44
1:A1:1141:G:C2	1:A1:1142:A:C5	3.05	0.44
1:A1:1632:C:C2'	1:A1:1633:A:H5''	2.48	0.44
1:A1:388:G:C2	1:A1:389:G:N7	2.85	0.44
1:A1:4:C:C2'	1:A1:4:C:O2	2.66	0.44
1:A1:55:A:O2'	1:A1:56:U:OP1	2.36	0.44
1:A1:618:U:O2'	1:A1:619:A:H5''	2.17	0.44
1:A1:636:A:C2	1:A1:861:U:O2	2.70	0.44
3:AB:163:GLY:HA3	3:AB:203:LYS:N	2.32	0.44
29:B1:1129:A:C2'	29:B1:1130:A:C5'	2.94	0.44
29:B1:1212:A:C2	29:B1:1213:G:N9	2.85	0.44
29:B1:1452:A:C4	29:B1:2347:U:H4'	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:158:G:C2'	29:B1:159:A:H4'	2.47	0.44
29:B1:1785:U:O2'	29:B1:1786:G:P	2.76	0.44
29:B1:1844:C:C4	29:B1:1845:G:N7	2.85	0.44
29:B1:2150:G:C3'	29:B1:2151:C:C5'	2.96	0.44
29:B1:2186:U:H2'	29:B1:2187:G:O5'	2.18	0.44
29:B1:2258:U:H3'	29:B1:2259:A:C8	2.50	0.44
29:B1:2297:U:O2	29:B1:2299:A:C5	2.70	0.44
29:B1:2328:U:H2'	29:B1:2329:C:H6	1.82	0.44
29:B1:2376:G:C2	29:B1:2377:G:C2	3.05	0.44
29:B1:2395:G:H8	29:B1:2946:A:H61	1.55	0.44
29:B1:3000:A:HO2'	29:B1:3001:C:H6	1.60	0.44
29:B1:3119:U:H2'	29:B1:3120:C:C5'	2.45	0.44
29:B1:3144:G:OP1	29:B1:3145:C:OP2	2.36	0.44
29:B1:328:U:H2'	29:B1:329:U:H3	1.82	0.44
29:B1:3363:U:C5'	29:B1:3364:C:OP2	2.61	0.44
29:B1:3374:U:O2'	29:B1:3375:A:O5'	2.35	0.44
29:B1:371:G:N1	29:B1:373:A:H3'	2.32	0.44
29:B1:532:A:H3'	29:B1:533:A:N7	2.33	0.44
29:B1:540:U:H2'	29:B1:541:U:H6	1.78	0.44
29:B1:542:G:C4	29:B1:543:C:C5	3.06	0.44
29:B1:573:C:C4	29:B1:574:U:O4	2.70	0.44
29:B1:596:C:H5''	29:B1:596:C:O2	2.18	0.44
29:B1:645:A:C6	29:B1:649:A:N7	2.85	0.44
29:B1:699:A:C6	29:B1:700:C:N3	2.86	0.44
29:B1:934:G:C6	29:B1:935:U:C4	3.06	0.44
31:B3:118:C:O2	31:B3:118:C:C2'	2.66	0.44
31:B3:41:A:H3'	31:B3:42:G:H8	1.83	0.44
38:BG:39:GLU:O	38:BG:40:LYS:C	2.55	0.44
1:C1:1101:G:C2'	1:C1:1102:G:H5'	2.47	0.44
1:C1:1771:U:N3	1:C1:1772:C:C5	2.85	0.44
1:C1:1046:G:O6	74:C1:1905:OHX:N1	2.51	0.44
1:C1:273:G:C4	1:C1:274:G:C8	3.06	0.44
1:C1:434:G:H21	1:C1:437:A:H2	1.66	0.44
1:C1:605:A:N7	1:C1:606:A:C5	2.85	0.44
1:C1:80:A:H5'	1:C1:81:G:OP2	2.17	0.44
1:C1:635:A:C4	1:C1:863:A:C5	3.05	0.44
29:D1:1457:U:C4	29:D1:1476:G:C2	3.06	0.44
29:D1:1528:G:N3	29:D1:1529:A:C8	2.85	0.44
29:D1:1532:C:H2'	29:D1:1533:U:N1	2.31	0.44
29:D1:1906:G:N3	29:D1:1908:A:N6	2.65	0.44
29:D1:2145:A:H2'	29:D1:2145:A:N3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2151:C:O2'	29:D1:2243:A:C6	2.68	0.44
29:D1:2151:C:H1'	29:D1:2313:A:N1	2.32	0.44
29:D1:2394:G:H2'	29:D1:2395:G:O4'	2.17	0.44
29:D1:2407:C:HO2'	29:D1:2818:U:H3	1.64	0.44
29:D1:2655:U:C4'	29:D1:2656:A:H5'	2.46	0.44
29:D1:2910:A:H2'	29:D1:2911:A:OP2	2.17	0.44
29:D1:2933:A:C6	29:D1:2934:A:N1	2.85	0.44
29:D1:2374:C:C4	29:D1:2941:A:C2	3.06	0.44
29:D1:2990:G:C2'	29:D1:2991:A:H5'	2.48	0.44
29:D1:3013:U:O2	29:D1:3013:U:H2'	2.16	0.44
29:D1:3057:U:C5'	29:D1:3057:U:O2	2.66	0.44
29:D1:3153:U:C5'	29:D1:3293:U:C6	3.00	0.44
29:D1:3152:U:H4'	29:D1:3294:A:O4'	2.18	0.44
29:D1:32:U:H3	29:D1:52:A:H61	1.65	0.44
29:D1:3371:G:C6	29:D1:3372:A:C5	3.06	0.44
29:D1:3392:U:C5'	29:D1:3392:U:H6	2.31	0.44
29:D1:2261:G:O6	74:D1:3415:OHX:N5	2.50	0.44
29:D1:2910:A:N6	74:D1:3419:OHX:N4	2.66	0.44
29:D1:1485:G:O6	74:D1:3589:OHX:N1	2.51	0.44
29:D1:505:G:C8	29:D1:506:U:C6	3.06	0.44
29:D1:54:C:C2'	29:D1:55:G:O5'	2.65	0.44
29:D1:565:U:C5	29:D1:565:U:OP2	2.71	0.44
29:D1:642:U:H5''	29:D1:643:U:OP2	2.18	0.44
29:D1:725:G:C2	29:D1:726:G:O4'	2.70	0.44
29:D1:809:G:C4	29:D1:810:A:C8	3.06	0.44
29:D1:814:U:C2'	29:D1:815:G:O5'	2.65	0.44
29:D1:828:A:H5''	29:D1:829:U:P	2.57	0.44
29:D1:932:U:C4	29:D1:934:G:H1'	2.52	0.44
29:D1:952:A:C2'	29:D1:953:G:C5'	2.89	0.44
31:D3:131:A:C2	31:D3:132:G:N7	2.86	0.44
31:D3:37:A:H61	31:D3:104:A:C2'	2.15	0.44
31:D3:41:A:H3'	31:D3:42:G:H8	1.83	0.44
29:D1:1794:G:H5''	33:DB:186:PHE:CB	2.48	0.44
35:DD:84:ARG:C	35:DD:86:GLY:N	2.70	0.44
46:DQ:82:ARG:O	46:DQ:83:TRP:CB	2.65	0.44
1:A1:838:G:C2	1:A1:839:U:C6	3.05	0.44
1:C1:826:U:O2	1:C1:847:A:C2	2.70	0.44
1:C1:826:U:H2'	1:C1:827:C:C5	2.52	0.44
1:C1:640:U:C4	1:C1:641:G:C6	3.05	0.44
1:A1:649:U:O2'	1:A1:650:U:P	2.75	0.44
1:A1:650:U:H2'	1:A1:651:G:C5'	2.22	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:86:U:HO2'	31:B3:87:G:C5'	2.31	0.44
31:B3:96:A:C3'	31:B3:97:A:H5''	2.39	0.44
1:A1:209:U:H3'	1:A1:210:A:H8	1.82	0.44
1:A1:270:C:OP1	1:A1:270:C:H4'	2.17	0.44
1:A1:61:A:N3	1:A1:61:A:C2'	2.75	0.44
30:D2:112:G:O5'	74:D2:207:OHX:N6	2.49	0.44
1:A1:333:A:O2'	1:A1:334:G:O5'	2.30	0.44
1:C1:1201:G:C2'	1:C1:1202:A:H4'	2.12	0.44
1:C1:1353:U:H3	1:C1:1371:A:N6	2.15	0.44
1:C1:1558:U:H2'	1:C1:1559:A:H2	1.75	0.44
1:C1:1604:U:H3'	1:C1:1605:G:C5'	2.29	0.44
1:A1:1164:G:O2'	1:A1:1165:G:H5'	2.18	0.44
1:A1:1186:U:O4'	1:A1:1208:A:C2	2.70	0.44
1:A1:1201:G:N7	1:A1:1202:A:N3	2.64	0.44
1:A1:1372:U:O2	1:A1:1373:C:H1'	2.17	0.44
1:A1:1494:C:H2'	1:A1:1495:C:H6	1.82	0.44
1:A1:1569:A:C2	1:A1:1570:A:C8	3.06	0.44
10:AI:11:VAL:O	10:AI:13:LYS:N	2.47	0.44
30:B2:90:U:H2'	30:B2:91:G:O4'	2.17	0.44
29:B1:3207:U:O4'	29:B1:3209:A:C8	2.71	0.44
29:B1:3177:G:O6	29:B1:3210:A:N6	2.50	0.44
29:B1:3211:C:OP1	29:B1:3211:C:H4'	2.17	0.44
29:B1:3218:A:C4'	29:B1:3220:G:C8	2.95	0.44
29:B1:3197:G:H3'	29:B1:3197:G:N3	2.32	0.44
29:D1:184:U:H2'	29:D1:185:C:H6	1.82	0.44
29:D1:220:G:H5''	29:D1:220:G:H8	1.82	0.44
29:D1:391:A:H2'	29:D1:392:G:OP1	2.17	0.44
29:B1:1234:G:C3'	29:B1:1235:U:C5'	2.92	0.44
29:B1:1275:C:O2	29:B1:1275:C:H2'	2.16	0.44
29:D1:3282:U:O2'	29:D1:3283:U:H5	1.96	0.44
30:D2:44:C:C4	30:D2:45:A:C8	3.04	0.44
15:CN:54:GLY:O	15:CN:91:ILE:HA	2.18	0.44
29:D1:1253:U:O4	29:D1:1264:G:OP1	2.36	0.44
29:B1:2515:A:C2'	29:B1:2516:U:H5'	2.47	0.44
29:D1:1062:A:P	29:D1:1063:G:O6	2.75	0.44
29:B1:335:G:H2'	29:B1:335:G:N3	2.32	0.44
29:D1:1623:G:C8	74:D1:3559:OHX:N1	2.86	0.44
29:B1:2173:U:C5	29:B1:2174:G:C5	3.05	0.44
29:B1:3221:C:C4	29:B1:3222:U:C5	3.04	0.44
29:D1:2516:U:H6	29:D1:2516:U:C5'	2.30	0.44
29:D1:2094:C:N4	29:D1:2095:G:H21	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3070:A:C4	29:D1:3071:U:C5	3.06	0.44
20:CS:37:ASN:CB	20:CS:38:ILE:CA	2.90	0.44
1:C1:896:U:H2'	1:C1:897:C:O4'	2.17	0.44
30:D2:3:U:O2	30:D2:4:U:C6	2.70	0.44
30:D2:5:G:C2'	30:D2:6:C:H5''	2.47	0.44
11:CJ:92:TYR:CB	11:CJ:93:HIS:O	2.66	0.44
1:C1:1662:G:H2'	1:C1:1663:G:C8	2.53	0.44
1:C1:1734:U:H5''	1:C1:1735:U:OP2	2.18	0.44
29:D1:859:G:C2	29:D1:861:C:C6	3.04	0.44
1:C1:1021:C:C4	1:C1:1022:C:N3	2.85	0.44
52:DW:66:PRO:O	52:DW:68:THR:N	2.50	0.44
34:BC:159:ARG:CB	34:BC:180:GLU:O	2.66	0.44
2:AA:25:GLY:O	2:AA:26:ALA:CB	2.65	0.44
36:BE:196:ARG:O	36:BE:199:ILE:N	2.50	0.44
29:B1:1804:A:C4	29:B1:1805:C:C5	3.05	0.44
3:CB:153:SER:O	3:CB:170:ILE:HA	2.18	0.44
6:AE:53:ARG:HA	6:AE:56:ALA:HB3	1.98	0.44
2:AA:132:ALA:O	2:AA:136:ALA:N	2.51	0.44
29:D1:171:G:H2'	29:D1:172:G:O5'	2.16	0.44
29:D1:3248:C:H2'	29:D1:3249:C:O4'	2.17	0.44
29:D1:790:U:H4'	35:DD:112:LYS:O	2.17	0.44
42:BK:133:ARG:H	42:BK:155:THR:CA	2.31	0.44
1:A1:935:U:H2'	1:A1:936:G:C8	2.50	0.44
29:B1:247:C:C3'	29:B1:248:U:H4'	2.47	0.44
43:BN:111:ALA:O	43:BN:112:LEU:C	2.55	0.44
29:B1:2218:G:C5	29:B1:2228:A:C2	3.06	0.44
29:B1:176:G:N3	29:B1:177:U:C6	2.86	0.44
16:AO:112:ASP:O	16:AO:113:HIS:C	2.55	0.44
35:BD:177:ASP:C	35:BD:179:LEU:N	2.70	0.44
29:B1:2414:G:H2'	29:B1:2415:C:C6	2.52	0.44
47:BR:148:GLU:HA	47:BR:149:ALA:HA	1.36	0.44
38:BG:219:LYS:HA	38:BG:227:GLY:C	2.37	0.44
14:CM:137:ALA:O	14:CM:140:LEU:N	2.51	0.44
17:CP:76:LEU:O	17:CP:77:ILE:C	2.55	0.44
39:DH:100:GLU:C	39:DH:103:ALA:H	2.21	0.44
39:BH:228:GLU:C	39:BH:230:LYS:H	2.21	0.44
1:C1:1058:U:C2	1:C1:1060:U:OP2	2.70	0.44
10:CI:10:ARG:O	10:CI:11:VAL:CB	2.65	0.44
44:DO:136:ASP:O	44:DO:138:GLN:N	2.50	0.44
52:DW:83:VAL:O	52:DW:84:PHE:O	2.35	0.44
13:CL:53:ASP:O	13:CL:56:LYS:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:96:THR:O	2:CA:97:PRO:O	2.36	0.44
12:AK:20:TYR:O	12:AK:21:TYR:CB	2.66	0.44
51:DV:58:HIS:HA	51:DV:59:HIS:HA	1.61	0.44
1:A1:624:G:H1'	1:A1:1027:A:C2	2.51	0.44
1:A1:1046:G:C8	1:A1:1073:G:N2	2.85	0.44
1:A1:1063:U:H2'	1:A1:1064:G:H8	1.82	0.44
1:A1:1756:A:N6	74:A1:1901:OHX:N2	2.49	0.44
1:A1:473:A:H3'	1:A1:474:A:H8	1.82	0.44
1:A1:490:C:H5''	1:A1:491:C:OP2	2.17	0.44
1:A1:525:A:OP1	1:A1:527:A:H2	2.00	0.44
1:A1:812:A:C2	1:A1:858:G:O6	2.71	0.44
29:B1:1212:A:C3'	29:B1:1213:G:C5'	2.92	0.44
29:B1:1298:C:N3	29:B1:1299:U:C5	2.85	0.44
29:B1:1448:U:H5	29:B1:2355:G:H21	1.61	0.44
29:B1:1454:A:N1	29:B1:1484:U:O4	2.51	0.44
29:B1:1515:A:H2'	29:B1:1516:C:C6	2.52	0.44
29:B1:1524:A:C5	29:B1:1527:C:C4	3.06	0.44
29:B1:1528:G:C4	29:B1:1529:A:N7	2.85	0.44
29:B1:1599:G:N1	29:B1:1600:U:O2	2.51	0.44
29:B1:1610:G:H2'	29:B1:1611:G:C8	2.52	0.44
29:B1:189:G:N3	29:B1:191:U:O4	2.50	0.44
29:B1:2140:U:C5	29:B1:2956:A:C2	3.05	0.44
29:B1:2148:U:H2'	29:B1:2149:A:C4	2.51	0.44
29:B1:2194:G:H2'	29:B1:2195:C:H5'	1.97	0.44
29:B1:2240:G:H2'	29:B1:2241:U:C5'	2.47	0.44
29:B1:2655:U:O4'	29:B1:2656:A:N3	2.51	0.44
29:B1:2661:G:N3	29:B1:2662:G:C8	2.85	0.44
29:B1:2785:A:N6	29:B1:2786:G:C5	2.86	0.44
29:B1:2822:U:C2'	29:B1:2823:G:O5'	2.66	0.44
29:B1:301:G:H2'	29:B1:302:U:O5'	2.18	0.44
29:B1:279:U:OP1	74:B1:3536:OHX:N1	2.50	0.44
29:B1:421:G:C4'	29:B1:421:G:C8	3.00	0.44
29:B1:428:A:H5'	29:B1:428:A:H8	1.83	0.44
29:B1:44:U:H5''	29:B1:45:A:OP2	2.17	0.44
29:B1:528:U:N3	29:B1:564:G:N1	2.65	0.44
29:B1:945:C:C3'	29:B1:946:U:H6	2.30	0.44
31:B3:19:C:N4	31:B3:20:U:O4	2.51	0.44
1:C1:1073:G:H8	1:C1:1073:G:C5'	2.30	0.44
1:C1:1149:G:N2	1:C1:1151:A:N6	2.65	0.44
1:C1:125:U:C6	1:C1:125:U:C5'	3.00	0.44
1:C1:1640:C:C3'	1:C1:1640:C:C6	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:210:A:N3	1:C1:211:U:C6	2.86	0.44
1:C1:377:G:O2'	1:C1:378:A:P	2.76	0.44
1:C1:21:U:O2	1:C1:605:A:H2	2.01	0.44
1:C1:60:U:C6	1:C1:453:U:H2'	2.52	0.44
1:C1:72:A:N1	1:C1:81:G:O6	2.51	0.44
1:C1:985:G:C6	1:C1:986:G:C5	3.04	0.44
1:C1:988:A:C2	1:C1:989:U:H1'	2.52	0.44
1:C1:989:U:C2	1:C1:990:C:C6	3.05	0.44
29:D1:1106:G:C4	29:D1:1107:C:C6	3.06	0.44
29:D1:1129:A:C5	29:D1:1130:A:C6	3.05	0.44
29:D1:1180:A:O2'	29:D1:1181:U:H5'	2.18	0.44
29:D1:12:A:OP2	29:D1:12:A:C8	2.62	0.44
29:D1:1380:G:C2'	29:D1:1380:G:N3	2.80	0.44
29:D1:1453:A:H2'	29:D1:1878:G:H1	1.83	0.44
29:D1:1654:A:O2'	29:D1:1655:G:C4'	2.65	0.44
29:D1:1779:C:H5'	29:D1:1780:G:O4'	2.18	0.44
29:D1:1619:A:C2	29:D1:1826:C:N3	2.85	0.44
29:D1:2302:G:C6	29:D1:2303:A:C5	3.05	0.44
29:D1:2243:A:C6	29:D1:2313:A:N7	2.85	0.44
29:D1:303:G:N2	29:D1:2778:G:C8	2.85	0.44
29:D1:2780:A:C2	29:D1:2781:U:N3	2.86	0.44
29:D1:2849:C:C2'	29:D1:2849:C:O2	2.66	0.44
29:D1:283:G:C8	29:D1:285:A:C8	3.05	0.44
29:D1:2875:U:O2	29:D1:2875:U:C2'	2.60	0.44
29:D1:2341:A:H4'	29:D1:3090:U:O2'	2.17	0.44
29:D1:3306:U:O4'	29:D1:3306:U:O2	2.33	0.44
29:D1:3316:A:N6	29:D1:3387:U:C4	2.85	0.44
29:D1:3342:A:H2'	29:D1:3343:G:N3	2.33	0.44
29:D1:381:U:H3	29:D1:387:A:N6	2.15	0.44
29:D1:517:G:P	29:D1:517:G:C8	3.06	0.44
29:D1:532:A:C3'	29:D1:533:A:H8	2.29	0.44
29:D1:542:G:C4	29:D1:543:C:C5	3.05	0.44
29:D1:561:C:C2'	29:D1:562:C:OP2	2.66	0.44
29:D1:512:U:O2	29:D1:579:G:C2	2.69	0.44
29:D1:612:U:C2	29:D1:613:G:C5	3.06	0.44
29:D1:77:A:C2	29:D1:78:U:N1	2.86	0.44
29:D1:796:U:C2	29:D1:797:U:C5	3.05	0.44
31:D3:104:A:C8	31:D3:105:A:C8	3.05	0.44
31:D3:72:A:O3'	31:D3:73:U:H4'	2.18	0.44
35:DD:8:VAL:N	35:DD:18:ASN:O	2.50	0.44
1:A1:224:C:O2'	1:A1:225:A:C8	2.69	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:831:U:H5'	1:A1:832:U:P	2.57	0.44
29:B1:2725:U:O4	29:B1:2727:A:N3	2.49	0.44
30:B2:9:C:C5	30:B2:10:C:C1'	3.01	0.44
1:A1:139:C:C4	1:A1:176:C:C2	3.05	0.44
1:A1:195:G:H1'	1:A1:196:G:P	2.57	0.44
1:A1:202:A:C8	1:A1:202:A:H3'	2.52	0.44
1:A1:211:U:H6	1:A1:211:U:H5''	1.82	0.44
1:A1:450:U:C4	1:A1:451:A:N6	2.81	0.44
5:AD:108:LEU:O	5:AD:110:ALA:N	2.42	0.44
1:C1:1719:A:C2'	1:C1:1720:G:C5	2.96	0.44
1:C1:109:G:O2'	1:C1:796:A:N1	2.43	0.44
1:A1:1720:G:H5''	74:A1:1950:OHX:N1	2.32	0.44
1:A1:328:A:N3	1:A1:329:G:C8	2.86	0.44
1:A1:339:C:C2	1:A1:340:U:C6	3.06	0.44
1:C1:1176:G:C5	1:C1:1177:C:C5	3.05	0.44
1:C1:1201:G:C5	1:C1:1201:G:OP2	2.71	0.44
1:C1:1234:A:H5''	1:C1:1235:C:OP1	2.18	0.44
1:C1:1256:A:H5''	1:C1:1257:U:O5'	2.17	0.44
1:C1:1481:C:O2'	1:C1:1482:C:C6	2.69	0.44
1:C1:1536:G:C6	1:C1:1538:U:O2	2.70	0.44
1:A1:1167:G:C6	1:A1:1168:U:O4	2.70	0.44
1:A1:1255:G:C4'	1:A1:1256:A:OP1	2.44	0.44
1:A1:1348:A:C3'	1:A1:1349:G:C5'	2.94	0.44
1:A1:1348:A:H3'	1:A1:1349:G:H5''	1.99	0.44
1:A1:1524:A:N3	1:A1:1590:G:O2'	2.47	0.44
1:A1:1532:U:H2'	1:A1:1533:C:C6	2.52	0.44
1:A1:1600:A:C8	1:A1:1602:C:C5	3.05	0.44
1:C1:1056:U:C4	1:C1:1063:U:N3	2.86	0.44
29:B1:1465:A:C2'	29:B1:1466:G:H5'	2.47	0.44
29:B1:3209:A:C4	29:B1:3210:A:C5	3.04	0.44
29:B1:3196:U:H2'	29:B1:3197:G:C2	2.51	0.44
29:B1:3200:G:H2'	29:B1:3201:C:C6	2.52	0.44
29:B1:3205:G:C2	43:BN:89:ALA:HB1	2.52	0.44
30:D2:28:C:C4	30:D2:29:C:C2	3.06	0.44
29:B1:3250:U:C2'	29:B1:3251:U:O5'	2.66	0.44
30:D2:42:A:C2	30:D2:47:C:C5	3.03	0.44
29:D1:2521:U:H2'	29:D1:2522:G:O5'	2.17	0.44
29:D1:1238:C:O2'	29:D1:1239:C:O5'	2.29	0.44
29:D1:1273:A:N7	29:D1:1274:A:C8	2.85	0.44
29:D1:1276:U:O2'	29:D1:1277:C:H5'	2.17	0.44
29:B1:2513:U:C5	29:B1:2592:G:N3	2.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2594:C:C6	29:B1:2595:A:C8	3.05	0.44
4:AC:7:LYS:O	4:AC:8:LYS:O	2.35	0.44
4:CC:61:GLU:C	4:CC:63:GLY:N	2.71	0.44
9:CH:8:ARG:CB	9:CH:9:ASP:HA	2.46	0.44
31:B3:27:U:H2'	31:B3:28:C:O4'	2.18	0.44
1:C1:699:U:O2	1:C1:740:A:C2	2.70	0.44
1:C1:1652:C:C2'	1:C1:1652:C:O2	2.65	0.44
29:B1:1509:A:N6	29:B1:1510:G:N1	2.65	0.44
16:AO:57:ARG:C	16:AO:59:GLY:H	2.20	0.44
9:AH:8:ARG:CB	9:AH:9:ASP:HA	2.46	0.44
29:D1:1687:U:O2	29:D1:3069:G:C2	2.71	0.44
29:D1:3070:A:C4	29:D1:3071:U:C6	3.05	0.44
1:A1:895:G:N2	1:A1:917:U:N3	2.64	0.44
1:C1:894:U:O4	1:C1:915:A:OP1	2.35	0.44
29:B1:1922:A:H2'	29:B1:1923:C:C5'	2.47	0.44
29:D1:1217:A:H5'	29:D1:1218:U:OP2	2.17	0.44
1:C1:1575:G:C5'	1:C1:1576:A:OP2	2.66	0.44
34:DC:294:GLY:C	34:DC:305:ILE:H	2.21	0.44
29:B1:1018:G:C5	74:B1:3529:OHX:N1	2.86	0.44
29:B1:355:A:C6	29:B1:365:A:C8	3.05	0.44
29:B1:1424:C:C4	29:B1:1425:U:C5	3.05	0.44
36:BE:234:ASP:C	36:BE:236:LEU:N	2.71	0.44
29:D1:1739:U:C3'	29:D1:1739:U:C6	3.00	0.44
29:D1:1753:G:C4	29:D1:1754:G:C8	3.06	0.44
34:BC:90:VAL:CB	34:BC:103:THR:N	2.80	0.44
34:BC:104:THR:O	34:BC:105:VAL:O	2.36	0.44
29:D1:365:A:C2	29:D1:366:A:N9	2.86	0.44
41:BJ:66:GLU:O	41:BJ:68:ALA:N	2.51	0.44
29:B1:1180:A:C2	29:B1:1182:A:C5	3.05	0.44
29:D1:96:G:N2	29:D1:97:U:C1'	2.72	0.44
2:CA:25:GLY:O	2:CA:26:ALA:CB	2.66	0.44
48:DS:151:ARG:O	48:DS:154:ALA:N	2.50	0.44
5:CD:93:LEU:O	5:CD:96:SER:N	2.28	0.44
14:AM:58:ALA:O	14:AM:62:ALA:CB	2.59	0.44
14:AM:129:GLN:O	14:AM:133:ASP:CB	2.65	0.44
1:A1:1693:A:N3	1:A1:1694:A:N7	2.65	0.44
34:DC:62:ARG:C	34:DC:64:GLY:N	2.68	0.44
21:AT:187:GLN:O	21:AT:189:GLU:N	2.51	0.44
1:A1:569:C:C2'	1:A1:570:A:O5'	2.65	0.44
29:D1:318:A:C8	29:D1:318:A:OP2	2.63	0.44
29:B1:1916:U:C2	29:B1:1917:C:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AS:37:ASN:C	74:AS:101:OHX:N3	2.70	0.44
3:AB:118:ALA:HB2	3:AB:124:ALA:CA	2.46	0.44
2:AA:106:SER:O	2:AA:108:THR:N	2.50	0.44
73:DM:11:TYR:O	73:DM:13:ALA:N	2.45	0.44
33:DB:188:LYS:O	33:DB:190:ARG:N	2.50	0.44
1:C1:713:A:H3'	1:C1:714:G:H5''	1.98	0.44
48:BS:124:TYR:HA	48:BS:127:SER:CB	2.48	0.44
46:BQ:30:ARG:O	46:BQ:32:THR:N	2.51	0.44
16:CO:106:THR:HA	16:CO:122:SER:O	2.17	0.44
45:DP:92:THR:O	45:DP:95:GLY:N	2.50	0.44
6:CE:103:ASP:O	6:CE:105:LEU:N	2.50	0.44
35:DD:190:GLY:O	35:DD:192:GLY:N	2.50	0.44
39:BH:94:PHE:O	39:BH:96:LYS:N	2.45	0.44
29:B1:790:U:H2'	29:B1:791:A:O4'	2.18	0.44
29:B1:2117:A:C2	29:B1:2118:C:H1'	2.52	0.44
38:BG:180:SER:C	38:BG:183:ASP:H	2.18	0.44
29:D1:2720:G:C5	29:D1:2721:A:N7	2.86	0.44
29:D1:2723:U:O4	74:D1:3585:OHX:N3	2.51	0.44
6:CE:42:ILE:C	6:CE:45:ILE:H	2.21	0.44
29:D1:632:G:C8	29:D1:632:G:C3'	3.01	0.44
34:BC:269:GLN:O	34:BC:270:ARG:O	2.35	0.44
21:CT:216:LYS:O	21:CT:218:GLY:N	2.51	0.44
29:B1:1734:G:C5	29:B1:1735:G:N7	2.85	0.44
52:BW:129:ASP:O	52:BW:130:TYR:C	2.56	0.44
54:DY:49:HIS:O	54:DY:51:GLY:N	2.51	0.44
11:AJ:69:VAL:O	11:AJ:70:THR:CB	2.65	0.44
29:B1:2459:A:N6	29:B1:2486:A:H2	2.15	0.44
4:CC:166:ASP:O	4:CC:167:PHE:CB	2.65	0.44
44:DO:74:PRO:O	44:DO:75:VAL:CB	2.65	0.44
5:AD:55:ASP:O	5:AD:56:ALA:C	2.56	0.44
41:BJ:83:ASP:O	41:BJ:84:ALA:HB2	2.17	0.44
1:C1:762:A:N3	1:C1:762:A:H2'	2.31	0.44
38:DG:137:GLY:C	38:DG:236:ILE:CB	2.86	0.44
15:CN:40:ASN:O	15:CN:41:ILE:CB	2.65	0.44
1:A1:1030:A:C3'	1:A1:1031:U:H5'	2.39	0.44
1:A1:104:A:N1	1:A1:106:U:H1'	2.33	0.44
1:A1:1798:U:H5'	1:A1:1799:U:OP2	2.17	0.44
1:A1:488:G:O2'	1:A1:489:C:P	2.76	0.44
1:A1:585:A:H2'	1:A1:586:G:C8	2.52	0.44
1:A1:940:A:H2'	1:A1:941:A:C8	2.52	0.44
3:AB:160:GLY:O	3:AB:161:LYS:CB	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1104:G:C2'	29:B1:1105:A:O5'	2.63	0.44
29:B1:1168:U:OP1	38:BG:212:GLY:O	2.36	0.44
29:B1:117:U:C4	29:B1:118:U:H5	2.36	0.44
29:B1:1317:A:N7	29:B1:1319:G:N7	2.66	0.44
29:B1:1394:A:O2'	29:B1:1395:G:H5'	2.17	0.44
29:B1:1587:A:C2	29:B1:1590:G:C8	3.06	0.44
29:B1:1654:A:C2'	29:B1:1655:G:O4'	2.65	0.44
29:B1:1787:A:N6	29:B1:1788:C:N4	2.66	0.44
29:B1:1909:A:C6	29:B1:1910:A:C4	3.06	0.44
29:B1:2111:G:H21	51:BV:49:ILE:CA	2.24	0.44
29:B1:2224:A:H3'	29:B1:2225:U:H6	1.83	0.44
29:B1:2342:U:O2'	29:B1:2343:C:C5'	2.66	0.44
29:B1:2419:A:C5	29:B1:2804:A:N7	2.86	0.44
29:B1:257:U:C2'	29:B1:258:G:H8	2.20	0.44
29:B1:2903:A:C5	29:B1:2904:U:C5	3.05	0.44
29:B1:3100:U:O2	29:B1:3101:G:C8	2.71	0.44
29:B1:3113:A:C2'	29:B1:3114:A:H5'	2.47	0.44
29:B1:311:C:C5	29:B1:312:C:C5	3.06	0.44
29:B1:3292:A:O3'	29:B1:3293:U:O3'	2.35	0.44
29:B1:3296:A:N3	29:B1:3297:U:C6	2.86	0.44
29:B1:3309:G:N3	29:B1:3309:G:H5''	2.32	0.44
29:B1:423:A:C6	29:B1:424:G:N1	2.85	0.44
29:B1:424:G:O5'	29:B1:424:G:H8	2.00	0.44
29:B1:520:U:C1'	29:B1:521:A:OP2	2.66	0.44
29:B1:54:C:C2'	29:B1:55:G:O5'	2.66	0.44
29:B1:558:U:O2'	29:B1:558:U:O2	2.36	0.44
29:B1:595:G:O6	29:B1:609:G:C4	2.69	0.44
29:B1:637:C:N3	29:B1:638:C:N4	2.65	0.44
29:B1:692:A:C2	29:B1:693:A:N9	2.85	0.44
29:B1:703:G:C6	29:B1:704:U:N3	2.86	0.44
29:B1:740:G:C5	29:B1:741:U:C5	3.05	0.44
29:B1:760:G:OP2	74:B1:3479:OHX:N2	2.50	0.44
29:B1:772:U:H5	74:B1:3523:OHX:N4	2.15	0.44
29:B1:774:G:C2	29:B1:775:A:C8	3.05	0.44
29:B1:78:U:H3	29:B1:325:A:N6	2.13	0.44
29:B1:818:C:C5	29:B1:819:U:C4	3.06	0.44
29:B1:91:G:C8	29:B1:93:C:C6	3.05	0.44
31:B3:149:A:H2'	31:B3:150:G:C8	2.53	0.44
37:BF:143:LYS:O	37:BF:144:ALA:O	2.36	0.44
29:B1:578:A:H1'	37:BF:156:LYS:CB	2.48	0.44
44:BO:53:TYR:O	44:BO:54:LYS:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1045:C:HO2'	1:C1:1046:G:P	2.41	0.44
1:C1:104:A:C5	1:C1:106:U:C6	3.05	0.44
1:C1:119:A:C2'	1:C1:120:U:O5'	2.66	0.44
1:C1:275:C:C4	1:C1:276:C:N4	2.86	0.44
1:C1:33:U:C6	1:C1:33:U:C3'	3.00	0.44
1:C1:353:A:O5'	1:C1:353:A:H8	2.00	0.44
1:C1:36:C:N3	1:C1:472:U:O4	2.51	0.44
1:C1:43:A:C5	1:C1:378:A:N1	2.86	0.44
1:C1:612:U:OP1	1:C1:1100:G:N2	2.51	0.44
1:C1:869:A:N7	1:C1:870:C:C5	2.85	0.44
1:C1:968:U:H2'	1:C1:969:C:O5'	2.18	0.44
3:CB:165:VAL:CA	3:CB:202:GLY:HA3	2.47	0.44
29:D1:1152:G:O2'	29:D1:1153:A:C5'	2.65	0.44
29:D1:1172:G:C2'	29:D1:1173:U:O5'	2.65	0.44
29:D1:1204:A:H62	29:D1:1300:G:N2	2.11	0.44
29:D1:1505:C:H2'	29:D1:1505:C:O2	2.17	0.44
29:D1:1550:C:H2'	29:D1:1551:C:H5'	1.96	0.44
29:D1:1561:G:C6	29:D1:1562:C:C4	3.05	0.44
29:D1:1898:G:C5	29:D1:1899:G:C5	3.06	0.44
29:D1:2284:C:H2'	29:D1:2285:C:C2	2.53	0.44
29:D1:2413:A:O2'	29:D1:2414:G:C5'	2.65	0.44
29:D1:26:A:N1	29:D1:331:G:N7	2.66	0.44
29:D1:1302:A:C2'	29:D1:2887:A:C2	3.00	0.44
29:D1:2847:A:N6	29:D1:2898:G:N3	2.64	0.44
29:D1:2949:U:C2	29:D1:2950:G:N7	2.86	0.44
29:D1:303:G:N2	29:D1:2778:G:C5	2.86	0.44
29:D1:3058:U:C1'	29:D1:3059:G:O5'	2.66	0.44
29:D1:3291:G:O2'	29:D1:3292:A:O4'	2.30	0.44
29:D1:3294:A:C2'	29:D1:3295:A:H5'	2.47	0.44
29:D1:3377:G:C5	74:D1:3452:OHX:N6	2.85	0.44
29:D1:385:A:C4	29:D1:386:A:N7	2.85	0.44
29:D1:41:G:OP1	29:D1:42:C:OP2	2.35	0.44
29:D1:533:A:C2'	29:D1:534:U:C6	3.00	0.44
29:D1:534:U:OP2	29:D1:555:U:C4	2.70	0.44
29:D1:597:G:C2'	29:D1:598:A:O4'	2.65	0.44
29:D1:61:A:C6	29:D1:62:A:C4	3.05	0.44
29:D1:627:U:H2'	29:D1:628:A:H8	1.79	0.44
29:D1:652:G:H2'	29:D1:2361:A:H5''	1.98	0.44
29:D1:697:A:C8	29:D1:698:U:H3'	2.51	0.44
29:D1:752:C:O2'	29:D1:753:C:C6	2.69	0.44
29:D1:91:G:C2'	29:D1:92:G:OP2	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:935:U:H2'	29:D1:936:A:H8	1.81	0.44
29:D1:950:G:C8	29:D1:950:G:O5'	2.68	0.44
31:D3:145:U:N3	31:D3:146:U:C2	2.86	0.44
31:D3:1:A:C2'	31:D3:2:A:O5'	2.65	0.44
35:DD:6:VAL:CB	35:DD:20:LEU:N	2.80	0.44
29:D1:149:U:C6	44:DO:55:ALA:HB2	2.52	0.44
48:DS:59:SER:C	48:DS:61:SER:H	2.19	0.44
1:A1:837:G:N1	1:A1:838:G:C5	2.85	0.44
1:A1:850:A:O2'	1:A1:851:U:H5'	2.17	0.44
1:C1:825:U:O2	1:C1:825:U:H2'	2.17	0.44
29:B1:955:U:C2	29:B1:956:U:C6	3.05	0.44
29:B1:995:U:C4	29:B1:2637:A:C5	3.06	0.44
29:B1:995:U:O2'	29:B1:996:A:P	2.76	0.44
30:B2:77:G:C2'	30:B2:78:U:OP2	2.66	0.44
30:B2:80:G:H2'	30:B2:81:U:O4'	2.17	0.44
35:BD:69:ARG:O	35:BD:70:ALA:HB3	2.18	0.44
41:DJ:172:GLY:C	41:DJ:174:THR:H	2.20	0.44
1:A1:202:A:H8	1:A1:202:A:H3'	1.82	0.44
1:A1:80:A:H3'	1:A1:81:G:C8	2.48	0.44
30:D2:81:U:H2'	30:D2:81:U:O2	2.17	0.44
1:C1:243:G:N1	1:C1:251:A:C5	2.79	0.44
29:B1:2677:G:C2	29:B1:2678:A:H5'	2.53	0.44
1:A1:1716:C:C2	1:A1:1717:G:C8	3.05	0.44
1:C1:1205:C:H6	1:C1:1205:C:H2'	1.55	0.44
1:C1:1254:U:O2'	1:C1:1255:G:OP2	2.35	0.44
1:C1:1347:U:O3'	1:C1:1348:A:C8	2.70	0.44
1:C1:1426:C:C2	1:C1:1428:G:N7	2.85	0.44
1:C1:1478:G:C2'	1:C1:1479:A:O5'	2.65	0.44
1:C1:1558:U:C5	1:C1:1559:A:N3	2.86	0.44
1:A1:1179:G:H21	1:A1:1460:A:N6	2.15	0.44
1:A1:1205:C:H6	1:A1:1205:C:H2'	1.50	0.44
1:A1:1234:A:H5''	1:A1:1235:C:OP1	2.17	0.44
1:A1:1381:U:C5	1:A1:1382:A:N7	2.85	0.44
1:A1:1575:G:C2	1:A1:1576:A:N9	2.86	0.44
1:A1:1553:G:H1'	1:A1:1597:A:H2	1.83	0.44
29:B1:3234:A:C2	29:B1:3235:C:C4	3.06	0.44
30:B2:38:U:H3	30:B2:44:C:N4	2.16	0.44
74:D1:3555:OHX:N2	74:D1:3625:OHX:N1	2.65	0.44
29:D1:372:A:N6	29:D1:373:A:N1	2.65	0.44
29:D1:3214:U:O2'	29:D1:3218:A:C5'	2.65	0.44
29:B1:2771:U:HO2'	29:B1:2772:C:P	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1275:C:C5'	29:D1:1275:C:H6	2.31	0.44
29:D1:1279:C:HO2'	29:D1:1280:C:H6	1.65	0.44
29:B1:2595:A:H2'	29:B1:2596:U:H6	1.83	0.44
29:D1:1063:G:C8	29:D1:1064:A:C1'	3.01	0.44
29:D1:3241:G:N2	29:D1:3246:G:N2	2.65	0.44
29:D1:1626:U:N3	29:D1:1627:U:C4	2.85	0.44
1:C1:1340:U:C2	1:C1:1342:C:C5	3.05	0.44
44:DO:39:ALA:HA	44:DO:61:ILE:O	2.18	0.44
29:B1:2353:G:C4	29:B1:2354:C:C5	3.02	0.44
1:A1:1310:U:H2'	1:A1:1311:U:C6	2.44	0.44
1:A1:1392:U:C2	1:A1:1393:C:C5	3.05	0.44
1:A1:1393:C:H2'	1:A1:1394:G:H8	1.83	0.44
1:A1:1403:C:O2'	1:A1:1404:C:H5'	2.18	0.44
29:D1:1076:C:H3'	29:D1:1077:U:C5	2.53	0.44
1:C1:1219:A:C4'	1:C1:1220:C:C5	3.01	0.44
29:B1:1809:A:C2	29:B1:1810:A:H1'	2.53	0.44
20:CS:38:ILE:O	20:CS:39:CYS:C	2.55	0.44
29:D1:1933:A:C3'	29:D1:1934:G:H5'	2.47	0.44
29:D1:1728:G:N7	55:DZ:85:PHE:CB	2.80	0.44
1:C1:1664:C:H5''	1:C1:1665:U:OP2	2.18	0.44
29:D1:859:G:C6	29:D1:861:C:C5	3.06	0.44
54:BY:130:VAL:O	54:BY:132:LYS:N	2.42	0.44
34:BC:159:ARG:CB	34:BC:181:ILE:O	2.65	0.44
29:B1:2888:U:C2	29:B1:2910:A:C2	3.05	0.44
29:B1:1423:C:C2	29:B1:1424:C:C5	3.05	0.44
29:D1:1633:C:N4	29:D1:1634:G:C6	2.86	0.44
36:BE:123:GLU:O	36:BE:124:GLU:C	2.56	0.44
36:BE:87:GLY:O	36:BE:241:THR:CB	2.66	0.44
1:A1:237:C:O2'	1:A1:238:U:P	2.76	0.44
48:BS:66:HIS:O	48:BS:69:SER:N	2.50	0.44
1:A1:745:U:C2'	1:A1:746:A:H5'	2.47	0.44
29:B1:668:G:H2'	29:B1:669:U:O5'	2.18	0.44
20:AS:21:CYS:O	20:AS:22:ARG:C	2.56	0.44
29:B1:3050:U:H3'	29:B1:3051:U:H6	1.82	0.44
3:CB:118:ALA:CB	3:CB:124:ALA:H	2.29	0.44
42:DK:101:ASN:O	42:DK:103:GLY:O	2.35	0.44
29:D1:172:G:N2	29:D1:173:G:C4	2.85	0.44
29:D1:1724:U:H2'	29:D1:1725:C:O4'	2.18	0.44
29:D1:790:U:N3	29:D1:791:A:C8	2.84	0.44
1:C1:706:A:N7	1:C1:733:A:C2	2.85	0.44
29:B1:3166:C:H2'	29:B1:3167:A:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:170:PRO:CB	34:DC:316:GLU:H	2.31	0.44
29:B1:729:C:N4	29:B1:730:C:N4	2.65	0.44
29:D1:1123:U:H6	29:D1:1123:U:OP2	2.01	0.44
29:B1:440:A:H5'	29:B1:441:U:C4'	2.48	0.44
53:DX:36:SER:O	53:DX:39:LEU:N	2.51	0.44
3:AB:62:PRO:CB	3:AB:63:VAL:CB	2.95	0.44
3:CB:101:VAL:HA	3:CB:114:GLY:O	2.17	0.44
8:CG:85:PRO:O	8:CG:87:ASP:N	2.51	0.44
2:AA:65:ALA:O	2:AA:67:ILE:N	2.50	0.44
36:BE:227:LEU:HA	36:BE:228:ALA:HB3	1.98	0.44
29:D1:670:C:H2'	29:D1:671:U:C6	2.53	0.44
1:A1:1550:A:C2'	1:A1:1551:U:H5'	2.48	0.44
43:BN:46:ILE:H	43:BN:56:GLN:H	1.65	0.44
29:B1:1573:G:C8	29:B1:1574:C:C6	3.06	0.44
45:BP:11:GLY:O	45:BP:13:GLY:N	2.50	0.44
3:CB:229:LEU:O	3:CB:232:GLU:CB	2.65	0.44
29:D1:2843:U:P	29:D1:2843:U:H3'	2.57	0.44
34:DC:245:GLY:HA3	34:DC:246:LEU:HA	1.77	0.44
55:BZ:68:TYR:O	55:BZ:69:TYR:C	2.56	0.44
48:BS:5:ARG:O	48:BS:8:LYS:N	2.51	0.44
31:D3:136:G:C2	31:D3:137:C:C5	3.06	0.44
54:DY:93:SER:O	54:DY:94:ALA:O	2.35	0.44
42:DK:39:GLN:C	42:DK:41:SER:H	2.21	0.44
1:C1:581:U:H2'	1:C1:581:U:O2	2.17	0.44
1:C1:893:U:H2'	1:C1:893:U:O2	2.16	0.44
21:CT:24:ALA:HB2	21:CT:71:CYS:O	2.18	0.44
48:DS:119:LEU:O	48:DS:123:LEU:CB	2.65	0.44
21:CT:227:ALA:O	21:CT:228:LYS:C	2.56	0.44
1:A1:1008:G:N1	1:A1:1009:U:C2	2.86	0.44
1:A1:1056:U:C4	1:A1:1063:U:N3	2.85	0.44
1:A1:1071:U:H5'	1:A1:1072:C:OP2	2.17	0.44
1:A1:1109:G:C2	1:A1:1110:G:C5	3.06	0.44
1:A1:1756:A:C6	74:A1:1901:OHX:N5	2.82	0.44
1:A1:512:A:O2'	1:A1:512:A:N3	2.48	0.44
1:A1:601:A:C5'	1:A1:602:U:OP2	2.66	0.44
3:AB:203:LYS:O	3:AB:205:ARG:N	2.51	0.44
29:B1:115:A:C2'	29:B1:116:A:H2	2.27	0.44
29:B1:1218:U:H2'	29:B1:1218:U:O2	2.18	0.44
29:B1:1313:G:C2'	29:B1:1314:C:O5'	2.66	0.44
29:B1:1388:U:C2	29:B1:1389:G:N7	2.85	0.44
29:B1:1454:A:C8	29:B1:1454:A:C3'	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1478:C:C6	29:B1:1478:C:H5'	2.52	0.44
29:B1:1522:U:C5	29:B1:1835:A:O4'	2.71	0.44
29:B1:1524:A:O4'	29:B1:1607:U:O2	2.35	0.44
29:B1:1601:U:O2'	29:B1:1602:A:O5'	2.35	0.44
29:B1:1779:C:H5'	29:B1:1780:G:O4'	2.17	0.44
29:B1:1779:C:OP1	29:B1:1779:C:H4'	2.16	0.44
29:B1:1836:C:H2'	29:B1:1837:U:O4'	2.17	0.44
29:B1:1841:A:C6	29:B1:1848:G:C5	3.06	0.44
29:B1:1853:U:O4	74:B1:3559:OHX:N6	2.51	0.44
29:B1:2145:A:H2'	29:B1:2145:A:N3	2.33	0.44
29:B1:2246:G:C4	29:B1:2247:G:C8	3.06	0.44
29:B1:2247:G:H5''	29:B1:2248:C:OP2	2.17	0.44
29:B1:2300:G:N3	29:B1:2300:G:H2'	2.32	0.44
29:B1:2316:G:N3	29:B1:2317:A:C8	2.85	0.44
29:B1:2423:U:H6	29:B1:2423:U:O5'	2.00	0.44
29:B1:303:G:C2	29:B1:2778:G:N7	2.86	0.44
29:B1:2835:U:H2'	29:B1:2835:U:O2	2.17	0.44
29:B1:2891:U:H3	29:B1:3130:A:N6	2.16	0.44
29:B1:2961:G:H5''	29:B1:2962:U:P	2.58	0.44
29:B1:2997:G:H21	29:B1:2998:U:H4'	1.82	0.44
29:B1:3063:C:O2	29:B1:3064:U:C5	2.70	0.44
29:B1:3077:A:N7	29:B1:3080:G:C8	2.85	0.44
29:B1:3147:G:C2'	29:B1:3148:U:O5'	2.65	0.44
29:B1:3344:A:O2'	29:B1:3345:G:N7	2.37	0.44
29:B1:3387:U:C2	29:B1:3388:C:N4	2.86	0.44
29:B1:423:A:C6	29:B1:424:G:C6	3.05	0.44
29:B1:431:U:C4'	29:B1:431:U:C6	3.01	0.44
29:B1:43:A:C8	29:B1:2803:A:N6	2.85	0.44
29:B1:535:G:C2	29:B1:559:A:H5'	2.53	0.44
29:B1:550:A:O2'	29:B1:551:A:H5'	2.17	0.44
29:B1:554:A:N6	29:B1:555:U:H3	2.15	0.44
29:B1:592:A:C6	29:B1:593:C:C5	3.06	0.44
29:B1:67:A:C2	29:B1:317:A:N7	2.85	0.44
29:B1:92:G:N7	29:B1:94:G:N2	2.66	0.44
1:C1:1138:A:O2'	1:C1:1139:A:C5'	2.63	0.44
1:C1:42:G:O6	74:C1:1910:OHX:N5	2.50	0.44
1:C1:198:A:C1'	1:C1:199:G:P	3.06	0.44
1:C1:267:U:O4'	1:C1:267:U:P	2.76	0.44
1:C1:514:G:N3	1:C1:515:A:C8	2.86	0.44
1:C1:609:U:C5'	1:C1:610:G:C5	2.89	0.44
1:C1:862:A:C5	1:C1:963:A:N6	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1225:A:H2'	29:D1:1226:G:H8	1.81	0.44
29:D1:1226:G:N1	29:D1:1227:C:C4	2.85	0.44
29:D1:1293:U:H2'	29:D1:1294:A:O5'	2.17	0.44
29:D1:1300:G:C5	29:D1:1301:A:N7	2.86	0.44
29:D1:1506:A:C6	29:D1:1513:G:N1	2.86	0.44
29:D1:1537:A:C5	29:D1:1538:G:C8	3.06	0.44
29:D1:1590:G:N3	29:D1:1591:G:C8	2.86	0.44
29:D1:158:G:C2'	29:D1:159:A:H4'	2.46	0.44
29:D1:2133:U:O2'	29:D1:2134:G:H5'	2.18	0.44
29:D1:2386:A:C5	29:D1:2387:A:C8	3.05	0.44
29:D1:25:U:C2	29:D1:330:G:O3'	2.71	0.44
29:D1:2697:A:H2'	29:D1:2698:G:O4'	2.18	0.44
29:D1:2727:A:C2	29:D1:2729:U:C5	2.92	0.44
29:D1:2741:C:H4'	37:DF:19:LYS:H	76.49	0.44
29:D1:3034:C:C6	29:D1:3034:C:C3'	3.00	0.44
29:D1:3039:C:H2'	29:D1:3040:A:H8	1.82	0.44
29:D1:3106:A:C6	29:D1:3107:U:C2	3.05	0.44
29:D1:2912:G:N3	29:D1:3130:A:H2'	2.33	0.44
29:D1:26:A:H2	29:D1:330:G:N2	2.16	0.44
29:D1:2108:C:H1'	29:D1:3342:A:N7	2.33	0.44
29:D1:3368:U:H3'	29:D1:3369:G:C5'	2.47	0.44
29:D1:362:U:H2'	29:D1:363:G:O4'	2.18	0.44
29:D1:384:A:H8	29:D1:384:A:P	2.37	0.44
29:D1:422:A:C4	29:D1:423:A:H5''	2.53	0.44
29:D1:48:A:H5'	29:D1:50:U:O4'	2.18	0.44
29:D1:51:A:H2'	29:D1:52:A:H5'	1.98	0.44
29:D1:768:C:H2'	29:D1:769:G:C4	2.52	0.44
29:D1:769:G:N3	29:D1:770:G:N9	2.65	0.44
29:D1:816:A:H5'	29:D1:906:A:H61	1.81	0.44
29:D1:850:U:H2'	29:D1:851:C:C6	2.52	0.44
29:D1:895:A:C4	29:D1:897:U:C6	3.05	0.44
31:D3:114:G:H2'	31:D3:115:C:C5'	2.48	0.44
35:DD:39:PHE:O	35:DD:41:SER:C	2.56	0.44
29:D1:15:C:C2	52:DW:46:TYR:HA	2.53	0.44
1:C1:224:C:C2'	1:C1:225:A:C8	2.90	0.44
1:C1:640:U:C5	1:C1:641:G:C6	3.05	0.44
1:C1:648:G:C6	1:C1:649:U:C5	3.05	0.44
29:B1:2617:U:O2	29:B1:2617:U:O4'	2.32	0.44
29:B1:995:U:C4	29:B1:2637:A:N9	2.86	0.44
30:B2:65:G:N2	30:B2:66:A:N9	2.65	0.44
30:B2:66:A:C4	30:B2:67:G:H8	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:56:G:H2'	31:B3:57:C:C6	2.49	0.44
31:B3:58:G:C2'	31:B3:99:C:HO2'	2.31	0.44
29:B1:2727:A:P	49:BT:80:VAL:O	2.76	0.44
1:A1:151:G:C6	1:A1:164:A:N1	2.86	0.44
1:A1:148:A:N6	1:A1:167:U:N3	2.66	0.44
1:A1:276:C:O2	1:A1:277:U:H3'	2.18	0.44
1:A1:451:A:H61	1:A1:456:A:N6	2.15	0.44
30:D2:103:A:H2'	30:D2:104:A:H8	1.83	0.44
30:D2:9:C:OP2	30:D2:10:C:O4'	2.36	0.44
1:C1:1682:U:O4	74:C1:1951:OHX:N3	2.51	0.44
29:D1:2680:A:H61	42:DK:56:THR:N	2.16	0.44
29:D1:2673:A:N6	29:D1:2681:U:N3	2.49	0.44
29:B1:2672:G:C3'	29:B1:2672:G:C8	3.00	0.44
1:A1:1683:C:O4'	1:A1:1721:A:N1	2.50	0.44
1:A1:302:U:O4	1:A1:303:U:O2	2.35	0.44
1:C1:1179:G:N7	1:C1:1180:C:C5	2.86	0.44
1:C1:1203:A:N3	1:C1:1555:A:C2	2.85	0.44
1:C1:1211:A:C6	1:C1:1212:G:N7	2.86	0.44
1:C1:1558:U:H5	1:C1:1559:A:C3'	2.31	0.44
1:C1:1609:U:H2'	1:C1:1610:G:C8	2.52	0.44
1:A1:1239:U:C5	1:A1:1241:G:O6	2.70	0.44
1:A1:1267:G:N2	1:A1:1448:G:H5''	2.32	0.44
1:A1:1466:G:H2'	1:A1:1467:C:H6	1.79	0.44
1:A1:1467:C:C5'	1:A1:1602:C:OP1	2.54	0.44
1:C1:1056:U:C5	1:C1:1057:U:C4	3.06	0.44
29:B1:3219:G:N2	29:B1:3258:U:OP2	2.50	0.44
29:B1:3188:G:H2'	29:B1:3189:G:H8	1.83	0.44
43:BN:93:LYS:O	43:BN:94:TRP:C	2.55	0.44
29:D1:3197:G:H21	29:D1:3198:U:H6	1.65	0.44
29:D1:1394:A:N7	29:D1:1395:G:C8	2.86	0.44
29:D1:1415:U:C2	29:D1:1416:C:C6	3.06	0.44
29:D1:1390:A:N7	29:D1:1418:A:C8	2.86	0.44
29:D1:189:G:C4	29:D1:191:U:O4	2.71	0.44
29:D1:395:A:H2'	29:D1:395:A:N3	2.33	0.44
30:D2:35:C:H6	30:D2:35:C:C5'	2.29	0.44
29:D1:1251:A:H5''	74:D1:3557:OHX:N6	2.33	0.44
29:D1:1266:G:C2	29:D1:1267:U:C6	3.06	0.44
29:B1:2211:U:O2'	29:B1:2212:C:H5'	2.17	0.44
29:B1:1065:A:O2'	29:B1:1093:A:N1	2.50	0.44
1:A1:887:A:H2'	1:A1:887:A:N3	2.32	0.44
29:D1:2214:A:H2'	29:D1:2215:A:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2594:C:C6	29:D1:2595:A:C8	3.06	0.44
29:B1:1623:G:C2	29:B1:1823:A:C2	3.05	0.44
29:D1:3273:A:C2'	29:D1:3274:A:C4'	2.95	0.44
29:D1:3273:A:C4'	29:D1:3273:A:OP1	2.66	0.44
1:A1:1330:G:O2'	1:A1:1331:A:H5'	2.18	0.44
29:D1:1076:C:N3	29:D1:1077:U:C4	2.86	0.44
29:D1:1684:U:H2'	29:D1:1685:C:O2	2.17	0.44
1:C1:900:A:C2	1:C1:901:G:H1'	2.53	0.44
39:BH:98:ARG:O	39:BH:99:PRO:O	2.35	0.44
29:D1:2541:U:C2'	29:D1:2541:U:O2	2.57	0.44
29:D1:2119:A:C8	29:D1:2120:A:H2	2.35	0.44
1:A1:311:U:HO2'	1:A1:312:A:C5'	2.30	0.44
29:D1:2561:A:C8	29:D1:2561:A:OP1	2.70	0.44
29:B1:1019:G:N2	29:B1:1033:U:O2	2.31	0.44
1:A1:775:G:C2	1:A1:786:C:N3	2.86	0.44
1:C1:1693:A:N3	1:C1:1694:A:N7	2.66	0.44
48:BS:65:ALA:O	48:BS:68:GLN:CB	2.65	0.44
29:B1:605:U:C5'	29:B1:605:U:C6	2.92	0.44
45:DP:58:LEU:H	45:DP:60:LYS:N	2.16	0.44
29:B1:1914:G:H2'	29:B1:1914:G:N3	2.33	0.44
17:CP:46:SER:C	17:CP:48:HIS:N	2.70	0.44
29:B1:2488:A:N3	29:B1:2488:A:H2'	2.33	0.44
3:AB:126:ARG:C	3:AB:128:GLY:H	2.21	0.44
29:D1:1706:C:C3'	29:D1:1707:A:H5'	2.48	0.44
10:CI:36:LEU:HA	10:CI:37:ALA:CB	2.34	0.44
35:DD:121:ALA:O	35:DD:122:THR:C	2.56	0.44
32:DA:55:LEU:HA	32:DA:166:ALA:O	2.18	0.44
1:A1:1623:C:C4	1:A1:1624:C:C5	3.05	0.44
1:A1:1623:C:C2	1:A1:1624:C:C5	3.05	0.44
14:CM:101:ASN:C	14:CM:103:LYS:N	2.70	0.44
47:DR:25:TYR:O	47:DR:26:LEU:C	2.56	0.44
29:B1:237:G:O2'	29:B1:238:A:H5'	2.18	0.44
47:BR:102:ALA:O	47:BR:103:ALA:HB2	2.17	0.44
45:BP:158:ALA:O	45:BP:160:ARG:N	2.51	0.44
29:D1:1763:U:H2'	29:D1:1764:U:O4'	2.18	0.44
50:BU:130:ALA:O	50:BU:131:SER:C	2.55	0.44
41:DJ:56:GLU:O	41:DJ:58:GLU:N	2.50	0.44
16:CO:117:ARG:O	16:CO:118:ARG:O	2.35	0.44
8:AG:142:GLU:C	8:AG:144:ALA:N	2.70	0.44
51:BV:3:VAL:O	51:BV:4:GLU:CB	2.66	0.44
1:A1:1277:G:H2'	1:A1:1278:G:O4'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1007:U:H4'	29:D1:1007:U:OP1	2.18	0.44
72:DL:28:LEU:CB	72:DL:42:VAL:O	2.66	0.44
4:AC:119:ALA:C	4:AC:121:GLY:N	2.68	0.44
48:BS:141:HIS:O	48:BS:142:ILE:C	2.55	0.44
1:A1:1441:C:H2'	1:A1:1442:U:C6	2.52	0.44
29:B1:2459:A:N6	29:B1:2486:A:C2	2.86	0.44
21:CT:224:ASN:CB	21:CT:227:ALA:HB3	2.48	0.44
33:BB:15:ILE:O	33:BB:16:PHE:CB	2.63	0.44
72:DL:31:LYS:O	72:DL:32:ILE:C	2.56	0.44
2:AA:70:PRO:O	2:AA:71:GLU:CB	2.65	0.44
36:BE:154:THR:O	36:BE:155:THR:C	2.56	0.44
1:C1:348:U:O2'	1:C1:349:U:H5'	2.18	0.44
6:AE:26:ALA:O	6:AE:29:LYS:N	2.50	0.44
40:BI:126:VAL:O	40:BI:127:PRO:O	2.36	0.44
29:D1:3156:U:H3'	29:D1:3156:U:O2	2.17	0.44
40:DI:121:LYS:O	40:DI:122:LYS:O	2.34	0.44
29:B1:787:G:H2'	29:B1:788:C:C6	2.53	0.44
11:AJ:32:ASN:H	11:AJ:68:ARG:HA	1.83	0.44
1:A1:101:U:H5''	74:A1:1978:OHX:N1	2.32	0.44
1:A1:1140:G:N3	1:A1:1141:G:C8	2.86	0.44
1:A1:381:C:C5'	1:A1:382:C:OP2	2.65	0.44
1:A1:498:G:H1'	1:A1:499:U:C5	2.46	0.44
1:A1:6:G:H5'	1:A1:553:G:H4'	1.99	0.44
1:A1:862:A:H2'	1:A1:862:A:N3	2.33	0.44
29:B1:1295:G:C5	29:B1:1296:C:N4	2.86	0.44
29:B1:1315:U:O2'	29:B1:1316:C:O5'	2.36	0.44
29:B1:1367:G:C2'	29:B1:1368:U:OP2	2.65	0.44
29:B1:656:A:C6	29:B1:1440:G:C6	3.06	0.44
29:B1:1483:G:C8	29:B1:1485:G:C5	3.06	0.44
29:B1:1528:G:C2'	29:B1:1529:A:H5'	2.47	0.44
29:B1:1609:C:HO2'	29:B1:1610:G:P	2.41	0.44
29:B1:1688:U:H2'	29:B1:1688:U:O2	2.18	0.44
29:B1:1795:U:O4'	29:B1:1796:G:C2	2.71	0.44
29:B1:1494:U:O2	29:B1:1835:A:C2	2.71	0.44
29:B1:1877:U:OP2	74:B1:3485:OHX:N3	2.49	0.44
29:B1:1453:A:C2	29:B1:1878:G:C2	3.06	0.44
29:B1:1900:A:N1	29:B1:1908:A:N1	2.66	0.44
29:B1:819:U:H4'	29:B1:2138:A:C2	2.52	0.44
29:B1:2270:A:C6	29:B1:2271:A:C6	3.05	0.44
29:B1:2285:C:H41	29:B1:2286:U:H3	1.65	0.44
29:B1:2777:G:H4'	29:B1:2778:G:H5''	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2611:U:O2'	29:B1:2803:A:N1	2.51	0.44
29:B1:3045:G:C8	29:B1:3045:G:C3'	3.01	0.44
29:B1:3105:U:H2'	29:B1:3106:A:C8	2.53	0.44
29:B1:3289:G:C6	29:B1:3290:G:C5	3.06	0.44
29:B1:3292:A:O2'	29:B1:3293:U:H4'	2.18	0.44
29:B1:3326:G:C2	29:B1:3327:G:N9	2.85	0.44
29:B1:353:G:H4'	29:B1:353:G:OP1	2.17	0.44
29:B1:556:U:OP2	29:B1:557:A:OP2	2.36	0.44
29:B1:559:A:C8	29:B1:560:G:N7	2.86	0.44
29:B1:815:G:C6	29:B1:906:A:C4	3.06	0.44
29:B1:884:A:O3'	29:B1:885:U:H6	2.01	0.44
29:B1:88:A:C2	29:B1:281:G:C2	3.05	0.44
31:B3:115:C:C2'	31:B3:116:G:O5'	2.66	0.44
29:B1:22:G:O2'	31:B3:40:A:N1	2.47	0.44
35:BD:16:THR:CB	35:BD:153:SER:H	2.30	0.44
1:C1:1076:A:H2'	1:C1:1077:C:C5'	2.48	0.44
1:C1:290:G:H2'	1:C1:291:G:C8	2.53	0.44
1:C1:4:C:O2	1:C1:4:C:C2'	2.65	0.44
1:C1:519:C:N4	1:C1:534:A:N1	2.66	0.44
1:C1:541:A:C4	1:C1:541:A:OP2	2.71	0.44
1:C1:544:A:OP1	1:C1:544:A:C8	2.71	0.44
1:C1:544:A:N1	1:C1:545:A:H8	2.16	0.44
1:C1:624:G:C5	1:C1:625:C:C5	3.06	0.44
1:C1:90:C:H1'	1:C1:452:A:OP1	2.18	0.44
1:C1:925:G:N3	1:C1:988:A:H1'	2.33	0.44
29:D1:106:A:C2'	29:D1:107:A:O5'	2.65	0.44
29:D1:1121:U:H2'	29:D1:1122:U:H6	1.81	0.44
29:D1:1130:A:H8	29:D1:1130:A:C5'	2.31	0.44
29:D1:1141:C:C4	29:D1:1142:G:N7	2.86	0.44
29:D1:1220:U:O2	29:D1:1220:U:H2'	2.17	0.44
29:D1:1444:G:H1	29:D1:2359:C:H42	1.66	0.44
29:D1:159:A:C4	29:D1:160:G:N7	2.86	0.44
29:D1:1890:U:C4	29:D1:1891:A:N7	2.86	0.44
29:D1:2137:U:C5	29:D1:2142:A:N7	2.86	0.44
29:D1:2361:A:C5	29:D1:2362:C:C4	3.06	0.44
29:D1:2391:G:C6	29:D1:2392:C:N3	2.86	0.44
29:D1:1054:A:H5''	29:D1:2637:A:H61	1.82	0.44
29:D1:2689:A:C4	29:D1:2702:A:N1	2.85	0.44
29:D1:270:U:H3'	29:D1:270:U:H6	1.83	0.44
29:D1:2730:G:H2'	29:D1:2731:U:O5'	2.18	0.44
29:D1:2823:G:C4	29:D1:2824:G:C8	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3035:A:C4	29:D1:3036:G:N7	2.86	0.44
29:D1:3048:A:O4'	29:D1:3048:A:N3	2.50	0.44
29:D1:3056:U:OP2	74:D1:3454:OHX:N5	2.50	0.44
29:D1:305:U:C2'	29:D1:305:U:O2	2.50	0.44
29:D1:35:A:C6	29:D1:36:C:C4	3.05	0.44
29:D1:407:A:H8	29:D1:407:A:C5'	2.30	0.44
29:D1:523:A:C2	29:D1:524:U:N1	2.86	0.44
29:D1:544:C:H2'	29:D1:545:U:H3'	2.00	0.44
29:D1:609:G:C5	29:D1:610:G:O6	2.70	0.44
29:D1:656:A:H5'	29:D1:657:A:OP2	2.18	0.44
29:D1:771:A:H61	29:D1:772:U:H3	1.65	0.44
29:D1:894:G:H1'	29:D1:895:A:N7	2.33	0.44
29:D1:9:U:O2	29:D1:9:U:C3'	2.66	0.44
31:D3:106:C:C1'	31:D3:107:G:OP2	2.66	0.44
31:D3:139:U:H2'	31:D3:140:G:O4'	2.18	0.44
74:D3:204:OHX:N2	74:D3:209:OHX:N1	2.65	0.44
31:D3:47:C:H1'	31:D3:61:A:H2'	2.00	0.44
1:C1:839:U:C4	1:C1:840:U:O4	2.71	0.44
1:C1:220:A:N1	1:C1:842:C:O2	2.51	0.44
1:C1:652:G:N1	1:C1:683:C:C2	2.84	0.44
1:C1:753:A:H2'	1:C1:754:A:C8	2.52	0.44
29:B1:2643:A:C4'	29:B1:2644:C:OP2	2.66	0.44
30:B2:114:U:H2'	30:B2:115:G:H1'	1.98	0.44
30:B2:60:G:N1	30:B2:61:G:C5	2.86	0.44
31:B3:82:U:O4	74:B3:205:OHX:N2	2.50	0.44
31:B3:96:A:H2'	31:B3:96:A:N3	2.33	0.44
35:BD:75:PRO:O	35:BD:88:GLY:HA2	2.17	0.44
1:A1:451:A:N6	1:A1:456:A:N6	2.65	0.44
30:D2:106:U:C2	30:D2:107:C:C4	3.04	0.44
30:D2:114:U:H2'	30:D2:115:G:C1'	2.48	0.44
30:D2:14:U:O2'	30:D2:15:C:O4'	2.36	0.44
30:D2:112:G:OP1	74:D2:207:OHX:N4	2.51	0.44
1:C1:329:G:C4	1:C1:330:G:C8	3.05	0.44
1:C1:332:U:C2	1:C1:334:G:OP2	2.71	0.44
29:D1:2679:A:C4'	29:D1:2679:A:OP2	2.66	0.44
1:C1:1195:C:N4	11:CJ:143:ARG:H	2.16	0.44
1:C1:1213:G:O2'	1:C1:1245:G:N2	2.48	0.44
1:C1:1348:A:C3'	1:C1:1349:G:C5'	2.95	0.44
1:C1:1428:G:C2	1:C1:1429:G:C5	3.05	0.44
1:C1:1594:G:H2'	1:C1:1595:U:H5'	1.99	0.44
1:C1:1584:G:C4	11:CJ:123:ARG:O	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1065:A:C2'	1:C1:1066:C:C6	2.98	0.44
29:D1:1183:C:H2'	29:D1:1183:C:O2	2.17	0.44
30:B2:95:A:C2	30:B2:96:U:N3	2.86	0.44
29:B1:3207:U:C6	29:B1:3209:A:C2	3.06	0.44
29:B1:3198:U:O2	29:B1:3199:G:N7	2.51	0.44
29:B1:3235:C:H2'	29:B1:3236:U:O4'	2.17	0.44
30:B2:48:U:C6	30:B2:49:G:C6	3.05	0.44
29:B1:3021:A:C8	29:B1:3023:U:N3	2.86	0.44
29:D1:1419:A:C6	29:D1:1420:C:C4	3.06	0.44
29:D1:196:G:O6	29:D1:199:A:OP2	2.36	0.44
29:D1:215:G:H2'	29:D1:215:G:N3	2.32	0.44
29:D1:222:A:C5	29:D1:223:U:C5	3.06	0.44
29:B1:1228:C:C4	29:B1:1282:G:N1	2.85	0.44
29:D1:3174:A:O2'	29:D1:3175:U:C5'	2.64	0.44
1:C1:156:A:H5'	1:C1:416:A:H8	1.81	0.44
1:A1:694:U:H3'	1:A1:695:U:C6	2.52	0.44
29:D1:1235:U:OP2	29:D1:1235:U:H3'	2.18	0.44
29:D1:1276:U:C2'	29:D1:1277:C:H5'	2.48	0.44
21:AT:301:LEU:O	21:AT:312:VAL:CA	2.65	0.44
4:CC:66:ILE:O	4:CC:68:GLU:N	2.51	0.44
29:D1:3314:A:H3'	34:DC:118:PHE:C	2.37	0.44
29:B1:2161:G:N3	29:B1:2161:G:H2'	2.32	0.44
1:C1:1329:A:H2'	1:C1:1330:G:C5'	2.48	0.44
1:C1:1341:A:C2	21:CT:63:GLY:HA2	2.53	0.44
1:C1:1336:A:N1	1:C1:1416:G:C6	2.86	0.44
29:B1:1084:A:C5	29:B1:1085:A:C5	3.05	0.44
1:C1:1648:A:H2'	1:C1:1649:G:C8	2.53	0.44
29:D1:3141:A:N3	29:D1:3143:C:O2'	2.51	0.44
29:D1:3005:A:C2	29:D1:3140:G:C2	3.05	0.44
29:B1:1099:A:H1'	38:BG:122:ALA:CB	2.48	0.44
29:D1:124:U:C4	29:D1:125:C:C5	3.05	0.44
29:D1:1687:U:C3'	29:D1:1688:U:H4'	2.48	0.44
1:C1:492:A:N7	1:C1:494:U:OP2	2.51	0.44
1:C1:498:G:N3	1:C1:499:U:O4	2.51	0.44
29:B1:1042:U:C5	29:B1:1042:U:OP2	2.69	0.44
1:A1:356:G:OP2	74:A1:1916:OHX:N6	2.51	0.44
29:D1:1719:G:C4'	29:D1:1732:U:H4'	2.48	0.44
1:C1:1740:A:H2'	1:C1:1741:U:H6	1.82	0.44
11:AJ:12:LYS:CB	11:AJ:16:ALA:O	2.66	0.44
9:CH:60:ALA:HA	9:CH:63:ALA:HB2	2.00	0.44
1:A1:760:A:C2'	1:A1:761:G:H5'	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:792:U:H2'	1:A1:793:A:C5'	2.48	0.44
36:DE:125:VAL:O	36:DE:246:ALA:CB	2.65	0.44
29:B1:2550:U:C5'	29:B1:2551:U:OP2	2.65	0.44
29:D1:2491:A:H1'	32:DA:205:VAL:CB	2.47	0.44
29:B1:1805:C:O2'	29:B1:1806:A:H5'	2.18	0.44
1:C1:719:U:H2'	1:C1:719:U:O2	2.17	0.44
1:A1:806:A:H2'	1:A1:807:A:C8	2.46	0.44
10:CI:77:ARG:CB	10:CI:95:GLY:HA3	2.48	0.44
21:CT:37:SER:C	21:CT:39:ASP:N	2.71	0.44
35:DD:115:HIS:C	35:DD:117:GLU:N	2.66	0.44
72:DL:70:ALA:O	72:DL:72:SER:N	2.46	0.44
3:CB:62:PRO:CB	3:CB:63:VAL:CB	2.96	0.44
5:CD:149:VAL:CB	5:CD:157:ARG:H	2.30	0.44
48:BS:25:ASP:O	48:BS:27:ASN:N	2.51	0.44
1:A1:464:A:H2'	1:A1:464:A:N3	2.33	0.44
2:AA:73:VAL:O	2:AA:95:ALA:HB1	2.18	0.44
4:CC:22:ASN:O	4:CC:26:THR:N	2.51	0.44
1:A1:1058:U:C2	1:A1:1060:U:OP2	2.71	0.44
48:DS:39:ASN:O	48:DS:42:ARG:N	2.51	0.44
1:A1:430:G:O2'	1:A1:431:C:H5'	2.18	0.44
29:D1:2399:A:C6	29:D1:2400:G:C6	3.06	0.44
29:B1:166:C:C4	29:B1:167:U:C4	3.06	0.44
29:B1:1360:C:H2'	29:B1:1361:U:C6	2.53	0.44
38:BG:167:ALA:HB1	38:BG:178:ILE:O	2.18	0.44
51:BV:39:LEU:O	51:BV:40:PHE:C	2.56	0.44
38:BG:194:HIS:O	38:BG:195:PHE:C	2.57	0.44
38:BG:126:LEU:O	38:BG:127:LEU:C	2.54	0.44
47:BR:41:ASP:O	47:BR:42:ALA:HB3	2.18	0.44
42:DK:147:THR:O	42:DK:148:VAL:O	2.35	0.44
29:D1:689:U:C5	35:DD:227:THR:O	2.71	0.44
21:AT:111:MET:O	21:AT:112:SER:CB	2.66	0.44
11:CJ:102:LYS:C	11:CJ:104:GLU:N	2.71	0.44
51:DV:14:TYR:O	51:DV:15:PRO:C	2.56	0.44
9:AH:33:LEU:O	9:AH:34:SER:C	2.56	0.44
44:BO:105:ARG:O	44:BO:106:VAL:C	2.55	0.44
10:CI:84:ILE:O	10:CI:85:ILE:C	2.56	0.44
1:A1:993:A:C5	1:A1:1012:U:O2	2.71	0.44
1:A1:618:U:OP1	1:A1:1030:A:C2	2.70	0.44
1:A1:1039:A:C5	1:A1:1091:A:C2	3.06	0.44
1:A1:1066:C:C2'	1:A1:1067:C:H5'	2.47	0.44
1:A1:1087:A:C3'	1:A1:1088:A:C8	2.94	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1113:A:N3	1:A1:1115:U:C5	2.86	0.44
1:A1:1139:A:O2'	1:A1:1140:G:H5'	2.18	0.44
1:A1:1731:A:H3'	1:A1:1732:A:H8	1.83	0.44
1:A1:1793:G:O2'	1:A1:1794:A:OP2	2.36	0.44
1:A1:479:C:H2'	1:A1:480:G:C8	2.52	0.44
1:A1:95:G:N3	1:A1:95:G:H2'	2.33	0.44
29:B1:1224:C:H6	29:B1:1224:C:OP2	2.01	0.44
29:B1:1413:G:C2	29:B1:1414:G:N7	2.86	0.44
29:B1:1442:U:O2'	29:B1:1443:G:O5'	2.33	0.44
29:B1:1561:G:C5	29:B1:1562:C:C4	3.06	0.44
29:B1:1658:G:C5	29:B1:1659:U:C4	3.05	0.44
29:B1:884:A:C5	29:B1:2139:A:N3	2.85	0.44
29:B1:2143:A:O2'	29:B1:2144:A:C5'	2.66	0.44
29:B1:2223:A:C2	29:B1:2224:A:C5	3.06	0.44
29:B1:2270:A:H2'	29:B1:2271:A:H8	1.71	0.44
29:B1:2316:G:C2	29:B1:2317:A:C5	3.05	0.44
29:B1:2325:G:N3	29:B1:2326:A:C8	2.86	0.44
29:B1:2717:U:O4	29:B1:2740:A:N6	2.51	0.44
29:B1:2837:A:H2'	29:B1:2845:A:C6	2.52	0.44
29:B1:2891:U:N3	29:B1:3130:A:N6	2.65	0.44
29:B1:2925:C:C5	29:B1:2926:A:C5	3.06	0.44
29:B1:3055:U:O2	29:B1:3085:G:C2	2.71	0.44
29:B1:3106:A:C6	29:B1:3107:U:C2	3.06	0.44
29:B1:3128:G:N3	29:B1:3128:G:H2'	2.31	0.44
29:B1:3302:U:O2'	29:B1:3303:G:C4'	2.65	0.44
29:B1:3331:U:O5'	29:B1:3331:U:H6	2.00	0.44
29:B1:359:U:O2	29:B1:920:A:N6	2.50	0.44
29:B1:39:A:C2	29:B1:44:U:O4	2.70	0.44
29:B1:609:G:C6	29:B1:610:G:O6	2.71	0.44
29:B1:86:G:H4'	29:B1:86:G:OP1	2.17	0.44
31:B3:41:A:H5'	31:B3:42:G:OP2	2.17	0.44
38:BG:43:ILE:C	38:BG:45:LEU:N	2.71	0.44
54:BY:5:PHE:O	54:BY:6:THR:C	2.56	0.44
1:C1:100:A:C6	1:C1:101:U:C4	3.05	0.44
1:C1:1136:U:H2'	1:C1:1137:A:H5'	1.99	0.44
1:C1:977:A:C5	1:C1:1025:A:C2	3.06	0.44
29:D1:1159:A:N3	29:D1:1159:A:C2'	2.75	0.44
29:D1:1192:C:C2'	29:D1:1193:A:H1'	2.48	0.44
29:D1:1225:A:C4	29:D1:1226:G:N7	2.86	0.44
29:D1:1337:A:H2'	29:D1:1338:C:C6	2.45	0.44
29:D1:1451:C:C2'	29:D1:1451:C:O2	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1489:A:H2'	29:D1:1490:A:H8	1.83	0.44
29:D1:1496:C:P	29:D1:1514:G:H5'	2.57	0.44
29:D1:1499:C:C2	29:D1:1500:G:C8	3.06	0.44
29:D1:1604:G:N1	29:D1:1605:A:C6	2.86	0.44
29:D1:1506:A:C1'	29:D1:1848:G:O6	2.66	0.44
29:D1:1876:U:H6	29:D1:1876:U:C5'	2.31	0.44
29:D1:2149:A:H2'	29:D1:2150:G:O4'	2.18	0.44
29:D1:2262:A:N3	29:D1:2263:C:H5''	2.33	0.44
29:D1:2340:U:O2'	29:D1:2341:A:H5'	2.18	0.44
29:D1:2390:A:C2	29:D1:2990:G:C2	3.06	0.44
29:D1:2396:G:HO2'	29:D1:2397:A:P	2.40	0.44
29:D1:23:A:N3	29:D1:24:G:H1'	2.33	0.44
29:D1:2651:G:C5	29:D1:2796:G:N2	2.86	0.44
29:D1:2688:U:H2'	29:D1:2688:U:O2	2.17	0.44
29:D1:2853:A:C5	29:D1:2854:U:N3	2.86	0.44
29:D1:2909:U:H2'	29:D1:2910:A:C5'	2.47	0.44
29:D1:2923:U:H2'	29:D1:2924:U:H6	1.83	0.44
29:D1:2998:U:H6	29:D1:2998:U:OP1	2.01	0.44
29:D1:3030:G:O2'	29:D1:3031:G:O5'	2.35	0.44
29:D1:3032:A:H3'	29:D1:3032:A:H8	1.83	0.44
29:D1:3289:G:C6	29:D1:3290:G:C5	3.06	0.44
29:D1:3305:A:C5	29:D1:3306:U:C2	3.06	0.44
29:D1:3324:C:HO2'	29:D1:3325:G:H5'	1.76	0.44
29:D1:3321:C:H42	29:D1:3386:G:H22	1.65	0.44
29:D1:34:A:C6	29:D1:35:A:C5	3.05	0.44
29:D1:421:G:C8	29:D1:421:G:H5''	2.53	0.44
29:D1:428:A:C8	29:D1:428:A:C3'	3.01	0.44
29:D1:592:A:C2	29:D1:593:C:C6	3.06	0.44
29:D1:606:C:H6	29:D1:606:C:C4'	2.22	0.44
29:D1:60:A:C8	29:D1:61:A:C8	3.06	0.44
29:D1:703:G:C6	29:D1:704:U:N3	2.86	0.44
29:D1:722:G:C6	29:D1:748:U:N3	2.86	0.44
29:D1:66:A:N6	29:D1:76:G:H21	2.09	0.44
29:D1:888:A:N6	29:D1:889:U:C4	2.85	0.44
29:D1:934:G:N3	29:D1:934:G:H2'	2.32	0.44
29:D1:953:G:O3'	29:D1:954:U:O4'	2.36	0.44
31:D3:14:C:C3'	31:D3:15:G:H8	2.17	0.44
31:D3:68:G:O5'	74:D3:204:OHX:N3	2.50	0.44
31:D3:40:A:HO2'	31:D3:41:A:P	2.40	0.44
31:D3:56:G:H21	31:D3:57:C:H1'	1.82	0.44
31:D3:75:G:OP2	31:D3:76:C:P	2.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DF:30:LEU:CB	37:DF:31:ARG:HA	2.47	0.44
1:A1:708:C:N3	1:A1:731:C:C6	2.86	0.44
1:A1:723:G:N2	1:A1:724:C:C2	2.86	0.44
1:A1:733:A:H2'	1:A1:733:A:N3	2.31	0.44
1:A1:826:U:O2	1:A1:847:A:C2	2.71	0.44
1:A1:646:C:C3'	1:A1:647:G:C5'	2.91	0.44
29:B1:993:G:C4	29:B1:2637:A:C4	3.06	0.44
29:B1:2667:A:C2'	29:B1:2667:A:N3	2.80	0.44
29:B1:968:G:C6	29:B1:969:C:N4	2.85	0.44
30:B2:14:U:O2'	30:B2:15:C:H4'	2.18	0.44
31:B3:79:A:C2'	31:B3:80:A:C8	3.01	0.44
1:A1:143:G:C2	1:A1:144:U:H1'	2.53	0.44
1:A1:148:A:H3'	1:A1:149:C:H6	1.81	0.44
1:C1:1683:C:H2'	1:C1:1719:A:C6	2.53	0.44
42:DK:50:ALA:N	42:DK:62:ASN:HA	2.33	0.44
1:A1:1718:G:C2	1:A1:1719:A:N7	2.86	0.44
1:A1:337:G:H8	1:A1:337:G:O5'	2.00	0.44
1:C1:1268:G:C2	1:C1:1270:G:N7	2.85	0.44
1:C1:1378:U:C3'	1:C1:1379:C:C5'	2.91	0.44
1:C1:1467:C:C2	1:C1:1468:U:C5	3.05	0.44
1:C1:1497:U:C4	1:C1:1498:G:C5	3.06	0.44
1:C1:1573:A:O4'	1:C1:1574:G:C2	2.71	0.44
1:A1:1486:G:C6	1:A1:1487:A:C5	3.06	0.44
1:A1:1538:U:C6	1:A1:1538:U:H3'	2.53	0.44
1:A1:1543:A:H1'	1:A1:1569:A:C6	2.53	0.44
1:A1:1572:G:OP1	1:A1:1572:G:H3'	2.17	0.44
1:A1:1573:A:C5'	1:A1:1574:G:H5'	2.48	0.44
29:D1:3211:C:O2'	29:D1:3212:C:O5'	2.33	0.44
29:B1:3211:C:P	29:B1:3211:C:O4'	2.76	0.44
29:B1:3201:C:N4	29:B1:3202:G:O6	2.51	0.44
29:B1:3239:G:C2'	29:B1:3240:C:H5'	2.48	0.44
29:B1:3021:A:C5	29:B1:3023:U:O4	2.71	0.44
29:D1:198:A:C2	29:D1:219:A:C5	3.06	0.44
29:D1:377:A:H2'	29:D1:391:A:H61	1.82	0.44
29:B1:1260:A:H3'	29:B1:1261:G:C2	2.53	0.44
29:D1:3279:A:C5	29:D1:3280:U:O4	2.70	0.44
30:B2:26:C:C4'	30:B2:27:A:OP1	2.59	0.44
30:D2:40:C:HO2'	42:DK:44:THR:C	2.19	0.44
30:D2:43:U:C4	30:D2:44:C:C4	3.06	0.44
29:B1:2516:U:H6	29:B1:2516:U:C5'	2.31	0.44
29:D1:1631:C:H2'	29:D1:1632:A:OP2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1064:A:O2'	29:B1:1065:A:O5'	2.36	0.44
29:B1:1083:G:C2'	29:B1:1084:A:O5'	2.66	0.44
1:C1:1649:G:C2	1:C1:1650:U:C4	3.06	0.44
29:B1:1099:A:C6	29:B1:1100:U:C4	3.05	0.44
29:B1:1627:U:C5	29:B1:1628:C:C2	3.06	0.44
1:A1:1390:U:O4'	1:A1:1413:U:C2	2.71	0.44
36:DE:98:ALA:O	36:DE:162:ALA:HA	2.18	0.44
29:B1:1728:G:N2	29:B1:1730:G:H21	2.14	0.44
1:C1:1039:A:C5	1:C1:1091:A:C2	3.05	0.44
29:D1:649:A:N3	29:D1:650:C:C6	2.86	0.44
1:C1:1128:C:H2'	1:C1:1129:U:O4'	2.17	0.44
43:DN:33:ALA:HA	43:DN:48:GLY:N	2.32	0.44
1:A1:1663:G:C6	1:A1:1664:C:C4	3.06	0.44
29:B1:1036:A:C6	29:B1:1037:C:N4	2.86	0.44
29:D1:1929:G:H3'	29:D1:1930:A:H2'	1.99	0.44
29:D1:1713:G:C6	29:D1:1730:G:N3	2.86	0.44
29:B1:1339:C:C2	29:B1:1340:G:N7	2.86	0.44
34:BC:295:ALA:N	34:BC:306:THR:H	2.15	0.44
34:BC:300:ARG:O	34:BC:301:THR:CB	2.65	0.44
29:B1:1695:U:O2	29:B1:1749:A:C2	2.71	0.44
29:B1:1703:U:O2'	29:B1:1743:G:C2	2.68	0.44
9:CH:64:ALA:O	9:CH:68:ALA:N	2.50	0.44
29:D1:2942:C:O5'	29:D1:2942:C:H6	2.01	0.44
9:CH:71:CYS:C	9:CH:73:GLU:N	2.69	0.44
1:A1:1783:C:N4	1:A1:1784:C:H41	2.15	0.44
29:D1:3179:U:C6	29:D1:3179:U:O5'	2.67	0.44
29:D1:1743:G:H2'	29:D1:1744:G:H5'	2.00	0.44
29:D1:1747:G:N7	29:D1:1748:G:N7	2.65	0.44
29:D1:1001:G:C8	29:D1:1041:U:O3'	2.70	0.44
2:AA:3:LEU:C	2:AA:5:ALA:H	2.21	0.44
43:BN:9:ALA:O	43:BN:14:LEU:CB	2.66	0.44
29:D1:661:G:C6	29:D1:802:C:C5	3.05	0.44
11:AJ:54:LEU:C	11:AJ:56:GLY:H	2.21	0.44
29:D1:1815:U:H3'	29:D1:1816:A:C5'	2.44	0.44
29:D1:2969:A:C4	29:D1:2970:C:C5	3.05	0.44
29:D1:2937:G:N7	34:DC:5:LYS:CB	2.81	0.44
42:DK:101:ASN:O	42:DK:102:PHE:C	2.55	0.44
1:C1:878:G:C6	1:C1:951:A:C6	3.06	0.44
29:B1:1492:G:H3'	29:B1:1493:G:C2	2.52	0.44
1:C1:706:A:C5	1:C1:733:A:C2	3.05	0.44
47:DR:149:ALA:H	47:DR:150:VAL:HA	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DB:231:SER:C	33:DB:233:GLN:H	2.21	0.44
35:DD:117:GLU:C	35:DD:119:ARG:H	2.20	0.44
42:DK:156:LYS:O	42:DK:158:ASP:N	2.51	0.44
45:BP:137:THR:O	45:BP:138:LEU:C	2.55	0.44
1:A1:278:U:C3'	1:A1:278:U:O2	2.63	0.44
1:A1:926:A:C5	1:A1:927:C:C6	3.05	0.44
29:D1:2443:A:O2'	29:D1:2444:C:H5'	2.18	0.44
47:DR:31:LYS:O	47:DR:35:PHE:CB	2.66	0.44
4:AC:80:ALA:C	4:AC:82:GLY:N	2.68	0.44
38:DG:160:ARG:O	38:DG:161:VAL:C	2.55	0.44
29:D1:1868:G:C5	29:D1:1869:C:C6	3.05	0.44
52:BW:87:SER:O	52:BW:90:ALA:N	2.51	0.44
44:BO:143:ARG:CA	44:BO:146:ALA:HB2	2.48	0.44
8:CG:69:ASN:O	8:CG:71:ILE:N	2.51	0.44
45:BP:161:LYS:O	45:BP:164:SER:CB	2.66	0.44
29:B1:2209:U:N1	29:B1:2209:U:OP2	2.51	0.44
8:CG:127:ARG:O	8:CG:129:TYR:N	2.49	0.44
34:DC:122:TRP:HA	34:DC:128:LYS:O	2.18	0.44
21:CT:267:PRO:O	21:CT:269:TYR:N	2.49	0.44
29:D1:1345:G:C5	74:D1:3480:OHX:N6	2.86	0.44
17:AP:79:ASN:O	17:AP:81:LYS:N	2.47	0.44
50:BU:39:VAL:HA	50:BU:58:VAL:HA	1.99	0.44
1:A1:3:U:C4'	3:AB:180:ALA:HA	2.47	0.44
13:CL:18:LEU:O	13:CL:21:ASN:CB	2.66	0.44
4:AC:121:GLY:O	4:AC:122:VAL:C	2.56	0.44
30:D2:52:G:N2	30:D2:53:U:C2	2.86	0.44
6:AE:117:GLY:O	6:AE:118:LEU:C	2.56	0.44
52:BW:74:LYS:O	52:BW:75:LYS:C	2.55	0.44
29:B1:2526:C:H3'	29:B1:2527:G:C8	2.53	0.44
29:D1:167:U:H2'	29:D1:168:U:C6	2.53	0.44
38:BG:124:LEU:O	38:BG:127:LEU:N	2.51	0.44
6:AE:156:ILE:O	6:AE:158:PHE:N	2.51	0.44
34:BC:114:VAL:N	34:BC:115:LYS:CB	2.81	0.44
21:AT:280:GLY:O	21:AT:281:TYR:CB	2.66	0.44
21:CT:167:VAL:O	21:CT:182:ASN:HA	2.18	0.44
46:DQ:55:GLN:O	46:DQ:56:ARG:CB	2.65	0.44
18:AQ:45:GLU:O	18:AQ:48:ASP:N	2.50	0.44
48:DS:135:LYS:C	48:DS:137:ALA:N	2.69	0.44
44:BO:111:ALA:C	44:BO:113:LEU:N	2.70	0.44
16:CO:14:ILE:O	16:CO:15:ASN:C	2.56	0.44
1:A1:977:A:C5	1:A1:1025:A:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1043:A:C4	1:A1:1044:U:C5	3.06	0.43
1:A1:1056:U:C5	1:A1:1057:U:C4	3.06	0.43
1:A1:1113:A:C2	1:A1:1115:U:C4	3.05	0.43
1:A1:1138:A:O2'	1:A1:1139:A:C5'	2.60	0.43
1:A1:1671:A:N6	1:A1:1672:G:C2	2.85	0.43
1:A1:380:U:HO2'	1:A1:381:C:H6	1.65	0.43
1:A1:498:G:N3	1:A1:499:U:O4	2.51	0.43
1:A1:925:G:H5'	1:A1:987:G:OP1	2.18	0.43
1:A1:991:G:O2'	1:A1:1013:A:N6	2.44	0.43
29:B1:1152:G:C8	29:B1:1152:G:P	3.11	0.43
29:B1:1206:G:C2'	29:B1:1206:G:N3	2.81	0.43
29:B1:1412:G:C6	29:B1:1413:G:C5	3.06	0.43
29:B1:1414:G:H2'	29:B1:1415:U:O4'	2.18	0.43
29:B1:1379:G:C6	29:B1:1428:A:N1	2.86	0.43
29:B1:1430:U:H6	29:B1:1430:U:H5'	1.83	0.43
29:B1:1444:G:C2'	29:B1:1445:U:O5'	2.65	0.43
29:B1:1506:A:H3'	29:B1:1507:G:O4'	2.17	0.43
29:B1:1517:G:N1	29:B1:1518:U:C4	2.86	0.43
29:B1:1907:C:C5	29:B1:1908:A:C4	3.05	0.43
29:B1:1909:A:N6	29:B1:1910:A:C6	2.86	0.43
29:B1:2107:A:C5	29:B1:2108:C:C5	3.06	0.43
29:B1:2381:G:C2'	29:B1:2382:G:H5'	2.48	0.43
29:B1:2389:C:H2'	29:B1:2390:A:O5'	2.17	0.43
29:B1:2406:C:H1'	29:B1:2819:A:C5	2.52	0.43
29:B1:2715:A:H4'	29:B1:2716:U:OP2	2.18	0.43
29:B1:2801:A:O2'	29:B1:2802:A:H2'	2.17	0.43
29:B1:2830:G:H2'	29:B1:2831:G:H8	1.83	0.43
29:B1:2916:U:C5	29:B1:2935:U:O2	2.71	0.43
29:B1:2945:G:O4'	29:B1:2945:G:N3	2.49	0.43
29:B1:3005:A:O2'	29:B1:3140:G:N2	2.40	0.43
29:B1:3146:G:C2	29:B1:3147:G:C8	3.06	0.43
29:B1:3160:U:N3	29:B1:3161:C:C4	2.86	0.43
29:B1:3295:A:H2'	29:B1:3296:A:C8	2.50	0.43
29:B1:3303:G:C5	29:B1:3305:A:C6	3.05	0.43
29:B1:3374:U:O2'	29:B1:3375:A:N3	2.43	0.43
29:B1:3377:G:O2'	29:B1:3378:C:P	2.73	0.43
29:B1:941:G:N7	74:B1:3492:OHX:N6	2.65	0.43
29:B1:416:A:N3	29:B1:416:A:H2'	2.32	0.43
29:B1:48:A:C4	29:B1:50:U:C4	3.05	0.43
29:B1:507:U:C2	29:B1:584:G:N1	2.86	0.43
29:B1:30:G:N1	29:B1:55:G:C6	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:776:U:H6	29:B1:777:U:N1	2.16	0.43
29:B1:877:C:C3'	29:B1:877:C:H6	2.30	0.43
29:B1:880:G:C4	29:B1:882:A:N7	2.86	0.43
31:B3:20:U:C2	31:B3:21:C:C6	3.06	0.43
33:BB:170:ALA:O	33:BB:171:GLY:O	2.35	0.43
34:BC:245:GLY:HA3	34:BC:246:LEU:HA	1.77	0.43
1:C1:1116:A:C5	1:C1:1117:U:C4	3.05	0.43
1:C1:198:A:H1'	1:C1:199:G:O5'	2.17	0.43
1:C1:551:G:N1	1:C1:552:G:C6	2.86	0.43
1:C1:55:A:C2	1:C1:403:G:C4	3.05	0.43
1:C1:571:G:C3'	1:C1:572:C:H6	2.30	0.43
1:C1:607:G:N7	1:C1:613:G:C8	2.86	0.43
1:C1:62:A:H2	1:C1:63:G:C5	2.35	0.43
1:C1:756:A:N7	1:C1:757:A:N7	2.66	0.43
1:C1:852:C:H2'	1:C1:853:G:O4'	2.18	0.43
1:C1:84:A:N6	1:C1:85:A:C6	2.86	0.43
1:C1:997:G:C2	1:C1:1008:G:C8	3.06	0.43
3:CB:162:CYS:CB	3:CB:205:ARG:O	2.66	0.43
17:CP:107:PHE:O	17:CP:108:GLY:O	2.36	0.43
29:D1:1108:U:C2	29:D1:1109:U:C6	3.06	0.43
29:D1:1291:A:HO2'	29:D1:1292:C:P	2.40	0.43
29:D1:1329:U:O2'	29:D1:1330:A:O5'	2.34	0.43
29:D1:1455:U:O4'	29:D1:1455:U:P	2.76	0.43
29:D1:1513:G:C5	29:D1:1515:A:C4	3.06	0.43
29:D1:156:G:H1'	29:D1:157:A:P	2.57	0.43
29:D1:1536:G:C5	29:D1:1586:G:N2	2.86	0.43
29:D1:1782:U:C2'	29:D1:1783:U:O4'	2.56	0.43
29:D1:1453:A:N3	29:D1:1878:G:C2	2.85	0.43
29:D1:1887:A:N7	29:D1:2348:A:C2	2.84	0.43
29:D1:2197:C:C2	29:D1:2242:A:C2	3.06	0.43
29:D1:2223:A:C2	29:D1:2224:A:C4	3.06	0.43
29:D1:2248:C:C4'	29:D1:2271:A:H2	2.31	0.43
29:D1:2276:G:C4	29:D1:2277:C:C5	3.06	0.43
29:D1:1449:A:C6	29:D1:2356:A:C8	3.06	0.43
29:D1:2373:A:O2'	29:D1:2374:C:OP1	2.33	0.43
29:D1:26:A:C8	29:D1:27:C:H5	2.32	0.43
29:D1:2702:A:O4'	29:D1:2704:A:N7	2.51	0.43
29:D1:2727:A:C6	29:D1:2728:G:C6	3.01	0.43
29:D1:2739:A:H5''	29:D1:2740:A:P	2.57	0.43
29:D1:2804:A:O2'	29:D1:2805:G:H5''	2.18	0.43
29:D1:2930:A:C6	29:D1:2931:C:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3038:U:O2'	29:D1:3039:C:O5'	2.35	0.43
29:D1:310:U:C5	29:D1:311:C:C5	3.06	0.43
29:D1:3295:A:C4	29:D1:3296:A:C8	3.06	0.43
29:D1:3372:A:C6	29:D1:3373:U:C4	3.06	0.43
29:D1:2700:G:N7	74:D1:3416:OHX:N3	2.66	0.43
29:D1:36:C:H2'	29:D1:37:U:H5'	1.99	0.43
29:D1:423:A:C6	29:D1:424:G:C2	3.06	0.43
29:D1:532:A:C5	29:D1:533:A:C5	3.06	0.43
29:D1:727:G:OP1	29:D1:727:G:H4'	2.17	0.43
29:D1:820:A:C2	29:D1:911:C:O2'	2.69	0.43
29:D1:828:A:H2'	29:D1:828:A:N3	2.33	0.43
29:D1:843:A:C2'	29:D1:844:G:H5'	2.47	0.43
29:D1:866:A:N7	29:D1:867:G:C8	2.83	0.43
29:D1:869:G:C3'	29:D1:870:G:H8	2.31	0.43
29:D1:878:G:C1'	29:D1:880:G:N2	2.81	0.43
29:D1:945:C:H2'	29:D1:946:U:H6	1.81	0.43
31:D3:147:U:N3	31:D3:148:G:N7	2.65	0.43
31:D3:70:G:N7	31:D3:71:A:C6	2.86	0.43
31:D3:87:G:O2'	31:D3:88:A:OP1	2.32	0.43
37:DF:10:TYR:O	37:DF:11:PRO:CB	2.66	0.43
29:D1:1306:G:C6	45:DP:63:ALA:HA	2.52	0.43
1:A1:704:C:H1'	1:A1:705:U:OP1	2.17	0.43
1:C1:218:A:N1	1:C1:844:A:H1'	2.33	0.43
1:C1:651:G:C2	1:C1:684:A:N7	2.86	0.43
1:A1:651:G:N2	1:A1:652:G:C6	2.85	0.43
1:A1:450:U:H2'	1:A1:451:A:N7	2.30	0.43
1:C1:1675:C:O2'	1:C1:1678:A:H8	2.01	0.43
1:C1:1718:G:N1	1:C1:1719:A:N7	2.66	0.43
1:C1:251:A:C2'	1:C1:252:U:H5'	2.46	0.43
1:C1:333:A:H2'	1:C1:334:G:C8	2.53	0.43
29:B1:2672:G:O6	29:B1:2683:U:O4	2.36	0.43
1:A1:1681:A:C8	1:A1:1682:U:C2	3.06	0.43
1:A1:328:A:N6	1:A1:341:A:H61	2.14	0.43
1:A1:752:A:H8	1:A1:752:A:O5'	1.99	0.43
1:C1:1161:C:O2	1:C1:1161:C:H2'	2.17	0.43
1:C1:1232:U:O4	1:C1:1253:U:C2	2.71	0.43
1:C1:1270:G:C6	1:C1:1271:G:N7	2.86	0.43
1:C1:1454:G:C2	1:C1:1455:G:C1'	3.01	0.43
1:C1:1528:U:H6	1:C1:1528:U:O5'	2.01	0.43
1:C1:1564:U:C2'	1:C1:1565:C:C6	2.91	0.43
1:C1:1587:A:C5	1:C1:1588:G:N7	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1248:C:H2'	1:A1:1249:U:C6	2.53	0.43
1:A1:1481:C:C4'	1:A1:1482:C:OP1	2.64	0.43
1:A1:1566:U:H2'	1:A1:1567:U:H5''	1.97	0.43
1:A1:1603:U:C2'	1:A1:1603:U:O2	2.60	0.43
1:C1:1051:G:N3	1:C1:1052:U:C2	2.86	0.43
29:B1:3215:A:H5''	29:B1:3218:A:H5''	1.96	0.43
29:B1:3278:C:C4	29:B1:3279:A:N6	2.86	0.43
29:D1:3195:U:H3'	29:D1:3196:U:H3	1.83	0.43
29:D1:3235:C:H2'	29:D1:3236:U:O4'	2.17	0.43
29:D1:208:C:C2	29:D1:209:A:N7	2.86	0.43
29:D1:196:G:C2	29:D1:219:A:N6	2.82	0.43
29:B1:1260:A:H2	29:B1:1278:A:C5	2.36	0.43
29:D1:3221:C:H2'	29:D1:3222:U:H5'	1.99	0.43
30:B2:27:A:N3	30:B2:27:A:H2'	2.33	0.43
29:B1:1696:A:N1	29:B1:1697:A:C6	2.86	0.43
30:D2:44:C:C2	30:D2:45:A:C8	3.06	0.43
29:D1:1277:C:OP2	29:D1:1277:C:C2'	2.61	0.43
29:B1:2434:U:C2	29:B1:2593:A:O2'	2.71	0.43
29:B1:2514:U:P	29:B1:2586:G:H22	2.41	0.43
29:B1:2516:U:O5'	29:B1:2516:U:H6	2.00	0.43
29:B1:843:A:O2'	29:B1:844:G:H5'	2.19	0.43
44:DO:183:THR:CB	44:DO:185:ALA:HB3	2.48	0.43
1:C1:1326:A:HO2'	1:C1:1327:C:H5'	1.83	0.43
29:D1:2515:A:C2'	29:D1:2516:U:H5'	2.47	0.43
36:DE:102:GLY:HA2	36:DE:166:ALA:HB2	2.00	0.43
30:B2:2:G:N3	30:B2:3:U:C5	2.86	0.43
1:A1:1659:A:C2	1:A1:1660:A:C8	3.06	0.43
1:A1:1658:G:OP1	1:A1:1659:A:OP2	2.35	0.43
36:DE:282:ARG:O	36:DE:285:ARG:O	2.36	0.43
29:D1:1922:A:C8	29:D1:1923:C:C5	3.06	0.43
1:A1:350:U:C5'	1:A1:352:A:O4'	2.66	0.43
29:D1:2576:G:C4	29:D1:2577:C:C5	3.06	0.43
1:A1:720:G:H8	1:A1:720:G:OP1	2.01	0.43
43:DN:26:GLY:C	43:DN:27:GLN:O	2.55	0.43
29:D1:365:A:C6	29:D1:366:A:C6	3.06	0.43
45:BP:166:GLU:O	45:BP:168:TYR:N	2.50	0.43
43:DN:61:GLY:O	43:DN:62:GLN:CB	2.65	0.43
29:B1:2461:A:C2	29:B1:2485:A:H2'	2.53	0.43
1:A1:108:A:H3'	1:A1:109:G:C8	2.51	0.43
34:BC:191:LYS:O	34:BC:192:VAL:O	2.36	0.43
45:DP:59:ARG:N	45:DP:61:ALA:H	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2469:G:H2'	29:B1:2470:C:C6	2.53	0.43
45:DP:196:ALA:C	45:DP:198:GLY:H	2.22	0.43
29:B1:245:U:C5	74:B1:3489:OHX:N1	2.85	0.43
29:B1:2722:U:O3'	49:BT:88:ARG:O	2.34	0.43
29:B1:96:G:C2'	29:B1:97:U:O5'	2.66	0.43
36:BE:109:THR:C	36:BE:252:ALA:HB2	2.37	0.43
1:C1:567:A:N1	1:C1:583:C:H1'	2.33	0.43
29:D1:1810:A:C6	29:D1:1811:G:C6	3.06	0.43
45:DP:162:VAL:O	45:DP:164:SER:N	2.51	0.43
32:DA:154:THR:HA	32:DA:155:ILE:CB	2.48	0.43
38:DG:199:ASN:C	38:DG:201:PHE:N	2.69	0.43
29:D1:2443:A:C6	29:D1:2444:C:N4	2.86	0.43
36:DE:217:GLU:HA	36:DE:220:SER:CB	2.48	0.43
35:BD:257:LYS:O	35:BD:258:LEU:O	2.36	0.43
11:AJ:28:LEU:CA	14:AM:1:MET:HA	2.48	0.43
21:CT:266:ASP:HA	21:CT:267:PRO:HA	1.81	0.43
29:D1:1720:U:H6	29:D1:1720:U:H3'	1.83	0.43
38:BG:148:VAL:O	38:BG:152:GLY:CA	2.66	0.43
48:DS:127:SER:C	48:DS:129:GLY:N	2.71	0.43
48:BS:39:ASN:O	48:BS:40:ALA:C	2.56	0.43
38:BG:192:GLY:O	38:BG:195:PHE:CB	2.65	0.43
53:BX:70:ILE:HA	53:BX:82:VAL:HA	2.00	0.43
42:DK:147:THR:C	42:DK:148:VAL:O	2.57	0.43
41:DJ:148:VAL:O	41:DJ:149:VAL:C	2.54	0.43
53:DX:52:ARG:C	53:DX:54:ASP:H	2.21	0.43
21:AT:2:ALA:C	21:AT:4:ASN:H	2.21	0.43
35:BD:220:ARG:C	35:BD:222:VAL:H	2.21	0.43
1:A1:1009:U:H2'	1:A1:1010:C:C6	2.53	0.43
1:A1:1044:U:O2	1:A1:1045:C:C5	2.71	0.43
1:A1:1046:G:N7	1:A1:1073:G:N2	2.67	0.43
1:A1:1057:U:H1'	1:A1:1062:A:H61	1.84	0.43
1:A1:1112:G:C6	1:A1:1113:A:N6	2.81	0.43
1:A1:1112:G:N2	1:A1:1134:C:N3	2.67	0.43
1:A1:1131:A:H2'	1:A1:1132:A:C8	2.53	0.43
1:A1:14:C:C2	1:A1:15:U:C5	3.06	0.43
1:A1:1798:U:O4'	1:A1:1798:U:O2	2.34	0.43
1:A1:509:G:C5	1:A1:510:G:N7	2.86	0.43
1:A1:521:A:O2'	1:A1:522:U:C5	2.67	0.43
1:A1:590:C:C2	1:A1:591:A:N7	2.86	0.43
1:A1:861:U:H2'	1:A1:862:A:C5'	2.48	0.43
29:B1:1112:A:C5	29:B1:1113:G:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:112:U:C4	29:B1:320:G:N1	2.86	0.43
29:B1:1174:G:N2	29:B1:1175:C:C2	2.86	0.43
29:B1:1172:G:N3	29:B1:1179:A:C2	2.85	0.43
29:B1:120:G:H5'	29:B1:121:A:P	2.58	0.43
29:B1:1218:U:O2'	29:B1:1219:C:C5'	2.66	0.43
29:B1:1310:G:H3'	29:B1:1310:G:C8	2.53	0.43
29:B1:1143:A:C8	29:B1:1368:U:C2	3.06	0.43
29:B1:1477:A:C2'	29:B1:1478:C:H5''	2.48	0.43
29:B1:1654:A:O2'	29:B1:1655:G:C4'	2.66	0.43
29:B1:1886:A:C6	29:B1:1887:A:N7	2.86	0.43
29:B1:1887:A:H4'	34:BC:227:GLU:HA	2.00	0.43
29:B1:1899:G:OP1	50:BU:22:ILE:N	2.43	0.43
29:B1:196:G:C2	29:B1:219:A:N6	2.80	0.43
29:B1:2145:A:N3	29:B1:2146:C:C6	2.85	0.43
29:B1:2308:C:C3'	29:B1:2309:A:H5''	2.47	0.43
29:B1:2325:G:N3	29:B1:2325:G:H2'	2.33	0.43
29:B1:2386:A:C5	29:B1:2387:A:C8	3.05	0.43
29:B1:2406:C:H2'	29:B1:2407:C:H6	1.82	0.43
29:B1:2836:C:O2	29:B1:2836:C:C3'	2.65	0.43
29:B1:2868:U:C4	29:B1:2869:U:C5	3.06	0.43
29:B1:2971:A:P	29:B1:2971:A:H3'	2.59	0.43
29:B1:3064:U:N3	29:B1:3065:G:N7	2.66	0.43
29:B1:3325:G:N2	29:B1:3326:G:N3	2.66	0.43
29:B1:546:C:H6	29:B1:546:C:H3'	1.82	0.43
29:B1:684:G:C6	29:B1:685:G:N7	2.86	0.43
29:B1:705:A:C2	29:B1:714:G:N3	2.86	0.43
29:B1:705:A:N6	29:B1:715:A:C8	2.86	0.43
29:B1:753:C:H2'	29:B1:754:G:O4'	2.19	0.43
29:B1:861:C:C2	29:B1:862:U:C6	3.06	0.43
29:B1:90:C:H2'	29:B1:91:G:H5'	2.00	0.43
31:B3:144:G:H2'	31:B3:145:U:H5'	1.98	0.43
31:B3:3:A:N6	31:B3:4:C:N3	2.65	0.43
1:C1:1111:G:O2'	1:C1:1112:G:H5'	2.17	0.43
1:C1:144:U:C4	1:C1:145:A:C8	3.07	0.43
1:C1:195:G:H1'	1:C1:196:G:P	2.58	0.43
1:C1:206:A:C4	1:C1:262:U:C4	3.07	0.43
1:C1:274:G:C4	1:C1:275:C:C5	3.05	0.43
1:C1:34:G:O6	1:C1:474:A:C2	2.67	0.43
1:C1:365:G:O6	1:C1:377:G:O6	2.35	0.43
1:C1:450:U:C4	1:C1:451:A:N6	2.82	0.43
1:C1:475:A:N1	1:C1:476:U:O2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:521:A:N3	1:C1:521:A:H2'	2.33	0.43
1:C1:52:U:O2'	1:C1:53:G:H5'	2.17	0.43
1:C1:610:G:O2'	1:C1:611:U:OP2	2.20	0.43
1:C1:940:A:C2	1:C1:941:A:N9	2.86	0.43
1:C1:940:A:N1	1:C1:941:A:C5	2.85	0.43
1:C1:963:A:O2'	1:C1:964:U:C6	2.43	0.43
29:D1:952:A:C1'	29:D1:1114:U:O2'	2.56	0.43
29:D1:1192:C:O2	29:D1:1193:A:C2	2.71	0.43
29:D1:1226:G:C4'	29:D1:3116:G:N7	2.81	0.43
29:D1:1296:C:HO2'	29:D1:1297:C:P	2.40	0.43
29:D1:1340:G:N2	29:D1:1341:U:C2	2.86	0.43
29:D1:1143:A:O4'	29:D1:1368:U:C6	2.71	0.43
29:D1:1453:A:C2	29:D1:1878:G:C2	3.06	0.43
29:D1:1878:G:P	29:D1:1879:A:C2	3.12	0.43
29:D1:2257:C:H5'	29:D1:2258:U:C5	2.48	0.43
29:D1:2300:G:N2	29:D1:2301:U:C1'	2.81	0.43
29:D1:2353:G:C2	29:D1:2354:C:C6	3.06	0.43
29:D1:2615:G:C4	29:D1:2616:C:C5	3.06	0.43
29:D1:995:U:C4	29:D1:2637:A:C8	3.06	0.43
29:D1:2665:U:H4'	29:D1:2666:C:OP1	2.18	0.43
29:D1:2741:C:H4'	37:DF:19:LYS:HA	77.32	0.43
29:D1:2814:G:C2	29:D1:2815:G:C5	3.06	0.43
29:D1:2909:U:C2'	29:D1:2910:A:H5'	2.46	0.43
29:D1:3091:A:O2'	29:D1:3094:A:N7	2.51	0.43
29:D1:3299:A:O2'	29:D1:3300:U:OP2	2.36	0.43
29:D1:3335:A:H3'	29:D1:3335:A:C8	2.53	0.43
29:D1:3393:U:H2'	29:D1:3394:U:H6	1.82	0.43
29:D1:41:G:N7	29:D1:42:C:C5	2.86	0.43
29:D1:424:G:C3'	29:D1:424:G:C8	3.02	0.43
29:D1:535:G:N1	29:D1:559:A:H5'	2.33	0.43
29:D1:554:A:C3'	29:D1:555:U:H5''	2.48	0.43
29:D1:563:U:N3	29:D1:564:G:O4'	2.51	0.43
29:D1:637:C:N4	29:D1:638:C:N4	2.66	0.43
29:D1:762:U:C4	74:D1:3514:OHX:N4	2.86	0.43
29:D1:707:U:C5'	29:D1:782:U:O2'	2.62	0.43
29:D1:844:G:C6	29:D1:845:G:N1	2.86	0.43
29:D1:915:A:C2	29:D1:917:A:H1'	2.54	0.43
29:D1:943:U:C2'	29:D1:944:C:OP1	2.66	0.43
29:D1:92:G:C5	29:D1:94:G:N2	2.86	0.43
29:D1:957:C:H6	29:D1:957:C:O5'	2.01	0.43
29:D1:95:A:H5''	54:DY:34:MET:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:65:A:C8	31:D3:66:A:N7	2.86	0.43
44:DO:52:GLY:O	44:DO:53:TYR:O	2.35	0.43
1:A1:220:A:C5	1:A1:221:A:N7	2.86	0.43
29:B1:1047:A:N6	29:B1:2646:C:H1'	2.26	0.43
29:B1:2703:A:C4'	29:B1:2704:A:H5'	2.47	0.43
29:B1:2725:U:C6	29:B1:2725:U:C3'	3.01	0.43
30:B2:73:C:C2	30:B2:74:C:C5	3.06	0.43
30:B2:73:C:C4	30:B2:74:C:C5	3.06	0.43
31:B3:74:U:H1'	31:B3:89:A:C5	2.52	0.43
53:BX:75:ARG:C	53:BX:77:LYS:N	2.70	0.43
41:DJ:170:LYS:CB	41:DJ:176:LEU:O	2.66	0.43
1:A1:267:U:P	1:A1:267:U:O4'	2.75	0.43
1:A1:449:C:C2	1:A1:450:U:C5	3.06	0.43
1:A1:450:U:C2'	1:A1:451:A:C8	2.91	0.43
1:A1:57:G:C6	1:A1:91:G:C2	3.06	0.43
30:D2:74:C:C3'	30:D2:75:G:H5'	2.46	0.43
29:D1:2678:A:C5'	29:D1:2679:A:C2	3.00	0.43
29:B1:2681:U:HO2'	29:B1:2682:C:H5''	1.80	0.43
1:A1:1720:G:O3'	74:A1:1950:OHX:N5	2.51	0.43
1:A1:302:U:C2'	1:A1:303:U:H5'	2.47	0.43
1:A1:340:U:C2	1:A1:341:A:N7	2.85	0.43
1:C1:1163:A:N6	1:C1:1164:G:C5	2.86	0.43
1:C1:1185:U:C1'	1:C1:1186:U:OP2	2.67	0.43
1:C1:1250:U:H2'	1:C1:1251:U:O4'	2.18	0.43
10:CI:78:THR:O	10:CI:79:HIS:C	2.57	0.43
1:A1:1347:U:C4	1:A1:1376:C:N4	2.86	0.43
1:A1:1484:G:N2	1:A1:1485:C:C2	2.86	0.43
1:A1:1608:U:C2	1:A1:1609:U:C5	3.06	0.43
29:D1:3211:C:OP1	29:D1:3211:C:C4'	2.67	0.43
29:B1:1196:C:N3	30:B2:86:U:C6	2.86	0.43
29:B1:3174:A:H1'	29:B1:3175:U:C5'	2.37	0.43
30:D2:58:C:H5''	74:D2:204:OHX:N6	2.33	0.43
29:B1:2589:G:H2'	29:B1:2589:G:N3	2.32	0.43
29:D1:1390:A:C5	29:D1:1418:A:C4	3.07	0.43
29:D1:1393:A:O2'	29:D1:1419:A:C2	2.70	0.43
29:B1:1244:A:C2	29:B1:1248:C:OP1	2.71	0.43
29:D1:3278:C:C5'	29:D1:3279:A:OP2	2.53	0.43
29:D1:3281:U:C4	29:D1:3282:U:C4	3.06	0.43
30:B2:25:G:C2	30:B2:26:C:C2	3.04	0.43
30:D2:42:A:C2	30:D2:47:C:C4	2.94	0.43
1:A1:640:U:H3'	1:A1:641:G:H8	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3383:G:N2	29:B1:3384:U:C4	2.86	0.43
1:C1:1329:A:H2'	1:C1:1330:G:H5'	2.00	0.43
1:C1:1342:C:H2'	1:C1:1343:U:H6	1.83	0.43
1:C1:1390:U:O2	1:C1:1390:U:H2'	2.18	0.43
1:C1:1410:A:C6	1:C1:1411:A:C2	3.05	0.43
1:C1:1388:A:C6	1:C1:1411:A:N7	2.87	0.43
16:CO:29:PRO:O	16:CO:57:ARG:O	2.35	0.43
29:B1:1085:A:H3'	29:B1:1086:C:H6	1.81	0.43
29:B1:983:A:C2	29:B1:985:U:O4	2.71	0.43
29:D1:2097:U:H2'	29:D1:2098:C:C6	2.52	0.43
36:DE:94:ASN:O	36:DE:97:ALA:N	2.43	0.43
29:B1:3273:A:N3	29:B1:3273:A:H2'	2.34	0.43
29:D1:2173:U:C4	29:D1:2174:G:C5	3.06	0.43
29:D1:2503:G:H2'	29:D1:2504:U:H6	1.77	0.43
29:B1:1953:G:N2	29:B1:2092:A:N7	2.66	0.43
30:D2:120:C:H2'	30:D2:121:U:C5	2.52	0.43
29:D1:1938:U:O4	74:D1:3448:OHX:N3	2.51	0.43
34:BC:297:SER:O	34:BC:299:ASP:CB	2.65	0.43
29:B1:1704:A:O2'	29:B1:1705:U:H5'	2.17	0.43
29:B1:1739:U:H3'	29:B1:1739:U:C6	2.54	0.43
29:B1:1739:U:H2'	29:B1:1740:U:C4'	2.48	0.43
29:D1:2602:G:N3	29:D1:2603:G:C8	2.86	0.43
33:BB:65:ASP:O	33:BB:66:PRO:CB	2.67	0.43
29:D1:1640:G:P	29:D1:1738:C:H5''	2.58	0.43
42:BK:84:LEU:O	42:BK:88:GLU:N	2.52	0.43
44:BO:80:THR:C	44:BO:81:TYR:O	2.54	0.43
10:CL:19:GLY:HA2	13:CL:97:ASP:O	2.18	0.43
17:AP:87:VAL:HA	17:AP:124:VAL:CB	2.48	0.43
29:B1:1544:G:H2'	29:B1:1544:G:N3	2.33	0.43
1:C1:310:C:C4'	1:C1:310:C:C6	3.00	0.43
13:CL:68:ARG:O	13:CL:71:GLN:CB	2.66	0.43
29:B1:1914:G:C6	29:B1:1915:A:C6	3.06	0.43
29:D1:2469:G:H2'	29:D1:2470:C:C6	2.53	0.43
29:D1:2155:G:C6	29:D1:2156:C:N4	2.86	0.43
29:D1:1358:C:C2'	29:D1:1359:C:H6	2.31	0.43
29:B1:733:G:C3'	29:B1:733:G:N3	2.80	0.43
29:D1:169:U:O5'	29:D1:169:U:H6	2.01	0.43
29:D1:2571:U:H2'	29:D1:2572:C:C5'	2.48	0.43
1:C1:1358:G:C2'	1:C1:1358:G:N3	2.74	0.43
29:B1:3166:C:OP2	29:B1:3166:C:H3'	2.18	0.43
1:C1:567:A:H8	1:C1:567:A:O5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:75:TYR:O	41:DJ:77:THR:N	2.51	0.43
29:B1:2441:A:C6	29:B1:2507:C:C2	3.06	0.43
29:B1:2507:C:C2	29:B1:2508:U:C5	3.06	0.43
73:DM:102:SER:O	73:DM:104:ARG:N	2.51	0.43
29:B1:2217:U:H2'	29:B1:2218:G:H8	1.83	0.43
45:DP:97:ALA:O	45:DP:98:ALA:C	2.55	0.43
39:DH:215:VAL:O	39:DH:219:ASP:CB	2.67	0.43
32:DA:150:ASP:C	32:DA:152:ARG:H	2.21	0.43
29:D1:440:A:H5'	29:D1:441:U:C4'	2.48	0.43
29:B1:2117:A:N3	29:B1:2117:A:C2'	2.79	0.43
8:AG:91:LEU:O	8:AG:95:ALA:HB2	2.17	0.43
42:DK:118:PRO:CA	42:DK:119:SER:CB	2.95	0.43
29:D1:1059:G:C2'	29:D1:1059:G:N3	2.79	0.43
41:BJ:164:LYS:O	41:BJ:165:ILE:C	2.57	0.43
42:BK:120:ILE:O	42:BK:121:GLY:C	2.56	0.43
46:BQ:22:LEU:O	46:BQ:144:SER:N	2.47	0.43
14:AM:20:SER:O	14:AM:24:ARG:HA	2.18	0.43
51:BV:32:GLN:O	51:BV:33:ASN:CB	2.66	0.43
5:AD:39:GLU:CA	5:AD:40:ILE:CB	2.96	0.43
37:DF:64:LEU:HA	37:DF:78:ARG:HA	1.99	0.43
29:D1:2559:U:O2	29:D1:2559:U:C2'	2.66	0.43
48:BS:145:ALA:O	48:BS:146:LYS:C	2.56	0.43
29:B1:2558:U:H4'	29:B1:2559:U:OP2	2.18	0.43
21:AT:135:THR:C	21:AT:137:LYS:H	2.22	0.43
29:D1:2459:A:N6	29:D1:2486:A:C2	2.86	0.43
38:BG:98:LYS:O	38:BG:99:PRO:C	2.55	0.43
29:D1:2957:G:H8	29:D1:2957:G:H5'	1.83	0.43
53:DX:112:ASP:O	53:DX:114:ASP:N	2.51	0.43
45:BP:176:LYS:O	45:BP:177:LYS:C	2.57	0.43
6:AE:31:ALA:O	6:AE:34:PHE:CB	2.67	0.43
6:AE:49:LEU:O	6:AE:50:SER:C	2.55	0.43
49:BT:110:LYS:O	49:BT:111:ALA:C	2.57	0.43
29:D1:1802:C:O2	29:D1:1802:C:H2'	2.17	0.43
6:CE:33:GLU:HA	6:CE:36:LEU:CB	2.49	0.43
29:D1:273:A:H2'	29:D1:274:G:H8	1.83	0.43
73:DM:187:VAL:O	73:DM:188:VAL:CB	2.66	0.43
11:CJ:128:LYS:O	11:CJ:130:GLY:N	2.51	0.43
13:CL:69:ILE:O	13:CL:73:MET:CB	2.67	0.43
39:DH:158:ASP:HA	39:DH:159:PRO:C	2.36	0.43
1:A1:1051:G:N3	1:A1:1052:U:C2	2.86	0.43
1:A1:1773:C:N1	1:A1:1789:G:N2	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:34:G:O6	1:A1:474:A:C2	2.64	0.43
1:A1:869:A:C4	1:A1:870:C:C6	3.06	0.43
17:AP:107:PHE:O	17:AP:108:GLY:O	2.35	0.43
29:B1:1129:A:N6	29:B1:1130:A:N1	2.67	0.43
29:B1:12:A:OP2	29:B1:12:A:C8	2.62	0.43
29:B1:1143:A:O4'	29:B1:1368:U:C6	2.71	0.43
29:B1:1393:A:C3'	29:B1:1394:A:H5''	2.48	0.43
29:B1:1404:G:N1	29:B1:1408:G:C5	2.87	0.43
29:B1:1489:A:C4	29:B1:1490:A:C8	3.06	0.43
29:B1:1498:A:C2	29:B1:1519:G:N3	2.87	0.43
29:B1:1504:A:C4	29:B1:1505:C:H5	2.33	0.43
29:B1:1654:A:C2	29:B1:1655:G:N3	2.87	0.43
29:B1:1678:G:C4	29:B1:1679:A:C8	3.05	0.43
29:B1:1684:U:H2'	29:B1:1685:C:O2	2.18	0.43
29:B1:1688:U:C3'	29:B1:1689:U:H5	2.31	0.43
29:B1:1488:G:OP2	29:B1:1837:U:OP2	2.36	0.43
29:B1:2177:G:HO2'	29:B1:2178:A:P	2.41	0.43
29:B1:2182:A:N1	29:B1:2183:A:C5	2.86	0.43
29:B1:2197:C:N3	29:B1:2242:A:C2	2.86	0.43
29:B1:2300:G:N2	29:B1:2301:U:H1'	2.34	0.43
29:B1:2386:A:H2'	29:B1:2387:A:O4'	2.18	0.43
29:B1:2395:G:OP2	29:B1:2946:A:N6	2.48	0.43
29:B1:2420:C:C3'	29:B1:2421:U:H5'	2.49	0.43
29:B1:311:C:C2	29:B1:2779:A:C2	3.06	0.43
29:B1:2831:G:C2	29:B1:2832:C:C2	3.06	0.43
29:B1:2890:A:C6	29:B1:2891:U:C4	3.06	0.43
29:B1:2895:G:H2'	29:B1:2896:A:C8	2.53	0.43
29:B1:2898:G:OP2	29:B1:2899:C:H6	2.02	0.43
29:B1:2912:G:N3	29:B1:3130:A:H2'	2.32	0.43
29:B1:3056:U:C2	29:B1:3079:U:N3	2.87	0.43
29:B1:3066:U:H3	29:B1:3075:G:H1	1.66	0.43
29:B1:3094:A:C4	29:B1:3095:U:C5	3.05	0.43
29:B1:3294:A:C6	29:B1:3295:A:C4	3.06	0.43
29:B1:3315:G:H5''	29:B1:3319:U:O3'	2.18	0.43
29:B1:429:U:O2'	29:B1:430:U:H5'	2.17	0.43
29:B1:532:A:C3'	29:B1:533:A:H8	2.30	0.43
29:B1:64:G:O5'	29:B1:64:G:H8	2.00	0.43
29:B1:749:C:O2	29:B1:750:G:C8	2.71	0.43
29:B1:808:A:C5	29:B1:809:G:C8	3.06	0.43
29:B1:884:A:H8	29:B1:884:A:H5''	1.83	0.43
29:B1:943:U:C2	29:B1:1432:C:C5	3.04	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:974:G:C2	29:B1:975:C:C5	3.06	0.43
31:B3:152:G:N2	31:B3:153:U:H1'	2.31	0.43
35:BD:8:VAL:H	35:BD:19:ALA:HA	1.83	0.43
1:C1:1032:G:N3	1:C1:1033:C:C5	2.86	0.43
1:C1:287:G:H2'	1:C1:288:A:C5'	2.47	0.43
1:C1:60:U:C5	1:C1:453:U:H2'	2.53	0.43
1:C1:524:U:C4	1:C1:527:A:C6	3.06	0.43
1:C1:463:U:O2'	1:C1:527:A:H4'	2.18	0.43
1:C1:57:G:C6	1:C1:91:G:C2	3.06	0.43
1:C1:85:A:C2	1:C1:86:A:H1'	2.53	0.43
1:C1:93:A:O4'	1:C1:399:A:C2	2.71	0.43
29:D1:1055:A:C8	29:D1:1056:U:C5	3.07	0.43
29:D1:1178:G:C2'	29:D1:1179:A:C5'	2.94	0.43
29:D1:117:U:C3'	29:D1:117:U:C6	3.01	0.43
29:D1:1209:G:H8	29:D1:1209:G:OP1	2.01	0.43
29:D1:123:A:C2	29:D1:146:U:O2	2.71	0.43
29:D1:1524:A:C5	29:D1:1527:C:C4	3.06	0.43
29:D1:1543:G:N3	29:D1:1544:G:C8	2.86	0.43
29:D1:1611:G:H2'	29:D1:1612:A:C8	2.53	0.43
29:D1:1654:A:O2'	29:D1:1655:G:O4'	2.36	0.43
29:D1:1658:G:C4	29:D1:1659:U:C6	3.06	0.43
29:D1:1910:A:C6	29:D1:1911:A:N1	2.86	0.43
29:D1:2223:A:C2'	29:D1:2224:A:C8	3.01	0.43
29:D1:2261:G:N2	29:D1:2263:C:C2	2.86	0.43
29:D1:2423:U:O2'	29:D1:2424:A:O5'	2.36	0.43
29:D1:2708:C:C2'	29:D1:2709:C:O5'	2.66	0.43
29:D1:2762:A:C5	29:D1:2763:U:C5	3.06	0.43
29:D1:49:A:N6	29:D1:279:U:HO2'	2.15	0.43
29:D1:2821:C:C6	29:D1:2821:C:C3'	3.01	0.43
29:D1:2992:U:C6	29:D1:2992:U:H3'	2.53	0.43
29:D1:3012:A:C2	29:D1:3043:C:C2	3.06	0.43
29:D1:3057:U:O2'	29:D1:3058:U:C4'	2.64	0.43
29:D1:311:C:C2	29:D1:2779:A:C2	3.06	0.43
29:D1:3129:A:C2'	29:D1:3129:A:N3	2.82	0.43
29:D1:3310:A:N1	29:D1:3311:C:C6	2.86	0.43
29:D1:3321:C:O2	29:D1:3322:A:C8	2.70	0.43
29:D1:3330:A:C6	29:D1:3331:U:C4	3.07	0.43
29:D1:3367:C:C2	29:D1:3368:U:C5	3.06	0.43
29:D1:339:C:N4	29:D1:340:C:H41	2.15	0.43
29:D1:428:A:H2'	29:D1:429:U:O4'	2.18	0.43
29:D1:523:A:N3	29:D1:524:U:C6	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:541:U:H2'	29:D1:542:G:C8	2.54	0.43
29:D1:578:A:H1'	37:DF:156:LYS:CB	2.49	0.43
29:D1:607:A:C6	29:D1:608:A:C4	3.05	0.43
29:D1:627:U:O2'	29:D1:628:A:H5'	2.18	0.43
29:D1:717:C:H41	29:D1:721:G:C5'	2.03	0.43
29:D1:78:U:O4	29:D1:325:A:N1	2.52	0.43
29:D1:98:G:H5''	29:D1:99:A:OP1	2.18	0.43
31:D3:44:A:H5''	31:D3:45:C:OP2	2.18	0.43
34:DC:12:GLY:O	34:DC:13:HIS:O	2.35	0.43
31:D3:11:C:O2'	46:DQ:4:TYR:HA	2.19	0.43
1:A1:702:G:C2	1:A1:703:G:C6	3.06	0.43
29:B1:2794:G:O6	74:B1:3553:OHX:N1	2.51	0.43
31:B3:56:G:H21	31:B3:57:C:H1'	1.82	0.43
1:A1:190:C:N4	1:A1:192:U:O4	2.51	0.43
1:A1:195:G:C4'	1:A1:196:G:OP1	2.66	0.43
1:A1:200:A:O2'	1:A1:201:G:P	2.76	0.43
1:A1:63:G:C6	1:A1:88:U:C2	3.06	0.43
1:A1:63:G:C6	1:A1:64:U:C6	3.06	0.43
1:A1:85:A:O2'	1:A1:86:A:OP2	2.37	0.43
30:D2:69:C:O2	30:D2:110:G:N2	2.51	0.43
1:C1:328:A:C6	1:C1:329:G:C5	3.07	0.43
1:C1:330:G:C5	1:C1:331:A:N7	2.86	0.43
29:D1:2672:G:C8	29:D1:2672:G:C3'	3.00	0.43
29:B1:2674:A:N9	42:BK:108:GLU:CB	2.82	0.43
1:A1:1720:G:C8	1:A1:1721:A:N7	2.87	0.43
1:A1:341:A:C5	1:A1:342:C:C5	3.07	0.43
1:C1:1207:C:C2	1:C1:1208:A:C6	3.06	0.43
1:C1:1211:A:N6	1:C1:1453:G:C6	2.86	0.43
1:C1:1228:G:C5	1:C1:1229:G:C8	3.06	0.43
1:C1:1377:U:H2'	1:C1:1378:U:O2'	2.18	0.43
1:C1:1380:U:O2'	1:C1:1381:U:H5'	2.18	0.43
1:C1:1383:G:C6	1:C1:1384:A:C5	3.07	0.43
1:C1:1478:G:C2'	1:C1:1479:A:O4'	2.67	0.43
1:C1:1536:G:N3	1:C1:1536:G:C2'	2.75	0.43
1:C1:1568:C:H4'	1:C1:1568:C:OP1	2.18	0.43
1:C1:1592:A:O2'	1:C1:1593:A:H5'	2.18	0.43
1:A1:1228:G:N3	1:A1:1228:G:H2'	2.32	0.43
1:A1:1237:G:C6	1:A1:1238:A:C5	3.07	0.43
1:A1:1237:G:N1	1:A1:1238:A:C5	2.86	0.43
1:A1:1557:U:O2	1:A1:1557:U:C3'	2.66	0.43
1:A1:1587:A:C6	1:A1:1588:G:N7	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:A1:1935:OHX:N2	74:A1:1959:OHX:N4	2.65	0.43
29:B1:3256:G:C2'	29:B1:3256:G:N3	2.73	0.43
29:D1:225:C:C2'	29:D1:226:C:O5'	2.67	0.43
29:D1:3259:U:O2'	29:D1:3260:G:N7	2.45	0.43
29:D1:3381:U:C2	29:D1:3383:G:N1	2.86	0.43
30:B2:23:A:N7	30:B2:24:A:N7	2.66	0.43
30:D2:41:G:C6	30:D2:43:U:C5	3.07	0.43
29:D1:1257:C:N3	29:D1:1261:G:N2	2.66	0.43
29:B1:2430:A:C5	29:B1:2431:C:C5	3.06	0.43
29:D1:1063:G:P	29:D1:1063:G:O4'	2.76	0.43
29:B1:850:U:H2'	29:B1:851:C:C6	2.54	0.43
29:D1:1627:U:OP1	29:D1:1628:C:OP2	2.36	0.43
1:C1:1325:A:N3	1:C1:1326:A:N7	2.66	0.43
1:C1:1411:A:H5'	1:C1:1412:G:OP2	2.18	0.43
1:A1:1649:G:C4	1:A1:1650:U:C5	3.06	0.43
1:A1:1650:U:C2	1:A1:1651:A:N7	2.86	0.43
1:A1:127:G:C5	1:A1:179:A:N7	2.86	0.43
1:A1:1389:C:N4	1:A1:1391:A:C1'	2.81	0.43
29:D1:1678:G:OP2	29:D1:1678:G:H8	2.02	0.43
29:D1:1689:U:C4	29:D1:1690:C:C4	3.06	0.43
29:B1:3273:A:C2'	29:B1:3274:A:C4'	2.95	0.43
29:B1:1713:G:C4	29:B1:1730:G:N2	2.86	0.43
20:CS:37:ASN:C	74:CS:101:OHX:N5	2.71	0.43
1:C1:490:C:H5''	1:C1:491:C:OP2	2.17	0.43
30:B2:117:A:N6	30:B2:118:A:N6	2.66	0.43
29:D1:650:C:C5'	29:D1:2872:A:OP2	2.66	0.43
29:D1:3271:G:H3'	29:D1:3271:G:N3	2.32	0.43
32:BA:68:PHE:H	32:BA:112:ALA:HB2	1.83	0.43
29:B1:1948:G:H2'	29:B1:1949:G:H8	1.82	0.43
1:A1:353:A:O5'	1:A1:353:A:H8	2.01	0.43
29:D1:1730:G:O6	55:DZ:26:GLY:CA	2.66	0.43
29:D1:2834:G:C5	29:D1:2835:U:C5	3.04	0.43
1:A1:1433:G:O6	15:AN:71:PRO:CB	2.67	0.43
29:D1:1218:U:O2	29:D1:1218:U:H2'	2.17	0.43
34:BC:298:PHE:CA	34:BC:299:ASP:CB	2.96	0.43
1:C1:1433:G:O6	15:CN:71:PRO:CB	2.66	0.43
29:D1:1695:U:C2	29:D1:1749:A:N1	2.86	0.43
29:D1:355:A:C8	29:D1:356:C:C5	3.06	0.43
29:B1:1539:A:N7	29:B1:1540:U:H5	2.15	0.43
1:A1:1358:G:N3	1:A1:1358:G:C2'	2.73	0.43
1:C1:760:A:C4	1:C1:791:A:C2	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1644:C:N3	74:B1:3505:OHX:N1	2.66	0.43
1:C1:719:U:C1'	1:C1:720:G:P	3.06	0.43
32:BA:32:VAL:HA	32:BA:208:SER:HA	2.00	0.43
1:A1:108:A:C3'	1:A1:109:G:C8	3.00	0.43
47:DR:63:SER:O	47:DR:66:ARG:N	2.51	0.43
29:B1:2450:G:H8	29:B1:2450:G:OP2	2.01	0.43
29:D1:1357:G:C4	29:D1:1358:C:C6	3.06	0.43
48:BS:130:ASN:C	48:BS:132:PHE:N	2.70	0.43
8:AG:127:ARG:O	8:AG:131:THR:N	2.51	0.43
4:AC:93:ASP:O	4:AC:94:ARG:C	2.56	0.43
45:BP:97:ALA:O	45:BP:98:ALA:C	2.56	0.43
33:DB:4:VAL:C	33:DB:5:ILE:O	2.56	0.43
33:DB:6:ARG:O	33:DB:7:ASN:C	2.57	0.43
29:B1:869:G:C3'	29:B1:870:G:H8	2.31	0.43
14:CM:10:ALA:O	14:CM:13:ASP:N	2.46	0.43
37:BF:131:LYS:O	38:BG:70:LYS:O	2.36	0.43
41:BJ:24:ARG:O	41:BJ:25:ALA:CB	2.65	0.43
29:B1:1360:C:C2'	29:B1:1360:C:O2	2.62	0.43
40:DI:51:GLN:N	40:DI:52:LEU:CB	2.81	0.43
29:B1:203:G:C2	29:B1:204:A:H1'	2.53	0.43
44:BO:36:ILE:HA	44:BO:64:VAL:HA	2.00	0.43
41:DJ:28:ASP:O	41:DJ:29:SER:O	2.36	0.43
3:CB:181:SER:O	3:CB:182:PRO:C	2.56	0.43
29:D1:2463:G:O2'	29:D1:2464:U:H5'	2.18	0.43
6:AE:42:ILE:C	6:AE:45:ILE:H	2.22	0.43
8:CG:97:SER:O	8:CG:99:ARG:N	2.51	0.43
21:CT:2:ALA:C	21:CT:4:ASN:H	2.22	0.43
29:D1:2625:C:H6	29:D1:2625:C:O5'	2.01	0.43
11:CJ:80:ALA:C	11:CJ:82:ARG:N	2.72	0.43
41:DJ:114:GLY:O	41:DJ:115:MET:CB	2.65	0.43
1:A1:1002:G:C5	1:A1:1003:A:C2	3.07	0.43
1:A1:1042:G:C6	1:A1:1043:A:C5	3.06	0.43
1:A1:1096:C:O2	1:A1:1098:U:OP2	2.35	0.43
1:A1:478:A:C2	1:A1:510:G:C2	3.07	0.43
1:A1:542:A:N3	1:A1:542:A:H2'	2.33	0.43
1:A1:628:G:N2	1:A1:970:A:OP2	2.51	0.43
29:B1:1114:U:C5	29:B1:1115:G:N2	2.86	0.43
29:B1:1145:G:N3	29:B1:1160:C:C4	2.87	0.43
29:B1:117:U:C5	29:B1:118:U:H5	2.36	0.43
29:B1:1393:A:H2	29:B1:1394:A:C1'	2.32	0.43
29:B1:1495:U:O3'	29:B1:1514:G:C5'	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:192:C:N3	29:B1:193:C:C5	2.87	0.43
29:B1:2182:A:C2	29:B1:2183:A:C5	3.06	0.43
29:B1:198:A:H2	29:B1:219:A:C8	2.36	0.43
29:B1:2199:G:C2	29:B1:2200:U:C6	3.06	0.43
29:B1:2256:A:O2'	29:B1:2257:C:OP2	2.36	0.43
29:B1:2255:A:N1	29:B1:2260:U:O4	2.52	0.43
29:B1:2278:C:C4	29:B1:2305:G:C5	3.06	0.43
29:B1:2284:C:C5'	29:B1:2285:C:OP2	2.66	0.43
29:B1:2372:A:O2'	29:B1:2373:A:P	2.77	0.43
29:B1:2406:C:H2'	29:B1:2407:C:C6	2.52	0.43
29:B1:282:G:H4'	29:B1:283:G:OP2	2.17	0.43
29:B1:2857:C:C2	29:B1:2858:U:C6	3.06	0.43
29:B1:2917:G:HO2'	29:B1:2918:G:P	2.41	0.43
29:B1:2947:G:N3	29:B1:2948:C:C5	2.86	0.43
29:B1:2997:G:C1'	29:B1:2998:U:OP2	2.66	0.43
29:B1:3055:U:H5''	29:B1:3056:U:C5	2.53	0.43
29:B1:1896:A:N3	29:B1:3093:C:C5	2.86	0.43
29:B1:3141:A:H5'	29:B1:3143:C:C1'	2.48	0.43
29:B1:422:A:C4	29:B1:423:A:H5''	2.53	0.43
29:B1:428:A:H2'	29:B1:429:U:O4'	2.18	0.43
29:B1:589:A:C5'	29:B1:611:A:H2	2.31	0.43
29:B1:606:C:C4'	29:B1:606:C:H6	2.26	0.43
29:B1:632:G:C2'	29:B1:633:C:O5'	2.67	0.43
29:B1:830:A:C4	29:B1:865:U:O2	2.71	0.43
35:BD:18:ASN:O	35:BD:19:ALA:HB2	2.18	0.43
54:BY:25:HIS:C	54:BY:27:LYS:N	2.70	0.43
1:C1:147:A:H2'	1:C1:148:A:H1'	1.99	0.43
1:C1:287:G:C2'	1:C1:288:A:H5'	2.48	0.43
1:C1:50:C:C5	1:C1:424:C:C5	3.06	0.43
1:C1:755:A:C1'	1:C1:756:A:C8	3.00	0.43
1:C1:853:G:N1	1:C1:854:U:O4	2.51	0.43
1:C1:862:A:H1'	1:C1:963:A:N1	2.33	0.43
29:D1:112:U:C4	29:D1:320:G:C6	3.07	0.43
29:D1:1131:G:C4	29:D1:2373:A:N1	2.85	0.43
29:D1:1155:C:O5'	29:D1:1156:C:OP2	2.37	0.43
29:D1:1157:G:H2'	29:D1:1158:A:C1'	2.45	0.43
29:D1:1325:U:C2	29:D1:1326:A:C8	3.07	0.43
29:D1:155:G:C8	29:D1:157:A:C2	3.05	0.43
29:D1:1661:G:N2	29:D1:1789:G:H1'	2.33	0.43
29:D1:1779:C:C4'	29:D1:1780:G:C5'	2.81	0.43
29:D1:1454:A:C5'	29:D1:1878:G:H1	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1882:G:H5''	29:D1:1883:A:OP2	2.18	0.43
29:D1:2259:A:C8	29:D1:2260:U:C4	3.06	0.43
29:D1:2289:U:O2'	29:D1:2290:C:C5'	2.65	0.43
29:D1:2291:A:C2	29:D1:2292:U:C2	3.07	0.43
29:D1:2297:U:N3	29:D1:2299:A:N6	2.66	0.43
29:D1:2383:C:C5	29:D1:2384:A:N7	2.87	0.43
29:D1:2390:A:N6	29:D1:2391:G:C6	2.85	0.43
29:D1:2854:U:C2'	29:D1:2855:U:H5'	2.48	0.43
29:D1:644:G:N1	29:D1:2868:U:OP1	2.45	0.43
29:D1:2959:C:H5''	29:D1:2960:C:OP2	2.18	0.43
29:D1:2981:U:C2'	29:D1:2982:A:H5''	2.48	0.43
29:D1:2992:U:OP1	29:D1:3310:A:O2'	2.25	0.43
29:D1:3041:U:HO2'	29:D1:3042:U:H5'	1.81	0.43
29:D1:3110:C:N3	29:D1:3111:U:C5	2.86	0.43
29:D1:32:U:H2'	29:D1:33:G:H8	1.83	0.43
29:D1:701:G:C5	29:D1:702:C:C4	3.06	0.43
29:D1:716:A:C5	29:D1:721:G:N2	2.78	0.43
29:D1:843:A:O2'	29:D1:844:G:H5'	2.18	0.43
29:D1:88:A:C8	29:D1:99:A:N6	2.86	0.43
29:D1:804:C:N3	29:D1:940:G:C2	2.86	0.43
31:D3:35:C:C5	31:D3:36:G:N7	2.87	0.43
31:D3:42:G:C2	31:D3:43:A:C8	3.06	0.43
44:DO:85:THR:CA	44:DO:86:ASN:CB	2.96	0.43
51:DV:49:ILE:C	51:DV:51:TRP:H	2.21	0.43
1:A1:827:C:C4'	1:A1:828:U:OP1	2.66	0.43
1:C1:642:G:C6	1:C1:643:G:C6	3.06	0.43
1:C1:800:U:O2	1:C1:800:U:H2'	2.19	0.43
29:B1:2630:C:C4	29:B1:2649:A:N1	2.86	0.43
1:A1:169:A:C8	1:A1:171:A:N6	2.85	0.43
30:D2:76:A:C5	30:D2:78:U:O4	2.72	0.43
1:C1:1722:A:H3'	1:C1:1723:U:H6	1.82	0.43
1:C1:250:C:O2	1:C1:251:A:N9	2.52	0.43
1:A1:323:A:O2'	1:A1:324:U:C5'	2.67	0.43
1:A1:321:C:N4	1:A1:341:A:OP2	2.50	0.43
1:C1:1201:G:O5'	1:C1:1201:G:N3	2.51	0.43
1:C1:1237:G:N3	1:C1:1238:A:C8	2.87	0.43
1:C1:1245:G:N7	1:C1:1246:C:C5	2.87	0.43
1:C1:1231:U:C2	1:C1:1258:U:H5'	2.53	0.43
1:C1:1272:U:O4	1:C1:1431:C:O2	2.36	0.43
1:C1:1437:U:O2'	1:C1:1438:G:H5''	2.18	0.43
1:C1:1491:U:H3'	1:C1:1492:A:H5''	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1205:C:H6	1:A1:1206:U:C2	2.36	0.43
1:A1:1228:G:C5	1:A1:1229:G:C8	3.05	0.43
1:A1:1266:U:H5''	1:A1:1267:G:OP2	2.18	0.43
1:A1:1536:G:C2	1:A1:1538:U:N3	2.82	0.43
1:A1:1558:U:C6	1:A1:1559:A:N3	2.86	0.43
1:A1:1596:C:O2'	1:A1:1597:A:H3'	2.19	0.43
29:B1:382:U:C4	29:B1:383:G:N9	2.87	0.43
29:B1:3187:A:C2	29:B1:3188:G:N9	2.85	0.43
29:B1:3191:G:C5	29:B1:3202:G:N2	2.85	0.43
29:D1:3181:C:C1'	45:DP:167:TYR:CB	2.95	0.43
29:D1:3182:G:O2'	29:D1:3183:A:C5'	2.66	0.43
29:D1:3184:A:C5'	29:D1:3184:A:H8	2.23	0.43
30:B2:30:G:C6	30:B2:49:G:N1	2.85	0.43
29:D1:1415:U:H5''	29:D1:1416:C:OP2	2.18	0.43
29:D1:192:C:C4	29:D1:204:A:C2	3.06	0.43
29:D1:212:G:C4	29:D1:222:A:C8	3.06	0.43
29:D1:401:U:O4'	29:D1:401:U:O2	2.32	0.43
6:AE:123:HIS:C	6:AE:125:ALA:N	2.71	0.43
30:D2:30:G:C5	30:D2:31:U:N3	2.87	0.43
36:DE:157:ALA:O	36:DE:158:ARG:C	2.57	0.43
1:A1:158:U:HO2'	1:A1:159:U:H3'	1.84	0.43
29:D1:2687:G:C4	29:D1:2687:G:C3'	3.01	0.43
29:B1:2517:U:O2	29:B1:2517:U:C2'	2.63	0.43
29:D1:1063:G:OP2	29:D1:1098:A:OP2	2.36	0.43
29:B1:340:C:H5''	29:B1:340:C:H6	1.83	0.43
29:B1:844:G:C6	29:B1:845:G:C6	3.06	0.43
29:B1:3225:C:H5	74:B1:3420:OHX:N3	2.17	0.43
1:A1:946:U:C2'	1:A1:946:U:O2	2.66	0.43
29:D1:2515:A:N6	29:D1:2593:A:C8	2.86	0.43
29:D1:2434:U:C2	29:D1:2593:A:O2'	2.71	0.43
29:B1:1627:U:C3'	29:B1:1628:C:O4'	2.66	0.43
29:D1:2130:G:O6	29:D1:2323:G:C6	2.72	0.43
1:C1:179:A:N6	1:C1:180:A:H62	2.16	0.43
1:A1:900:A:O2'	1:A1:916:U:H4'	2.18	0.43
1:A1:900:A:C2	1:A1:901:G:H1'	2.53	0.43
18:CQ:41:ILE:C	18:CQ:43:ASP:H	2.21	0.43
30:D2:90:U:C2'	30:D2:90:U:O2	2.66	0.43
29:D1:2441:A:H3'	29:D1:2442:G:H8	1.83	0.43
29:D1:2506:U:H6	29:D1:2506:U:O5'	2.01	0.43
29:D1:131:C:O2	29:D1:132:C:H1'	2.19	0.43
29:D1:138:U:C2	29:D1:139:G:C8	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2719:U:C5	29:B1:2720:G:N7	2.86	0.43
1:A1:1579:U:O4	1:A1:1580:C:N4	2.51	0.43
1:A1:717:C:H3'	1:A1:717:C:O2	2.19	0.43
36:BE:226:TYR:CB	36:BE:232:ASP:H	2.32	0.43
1:C1:727:U:H2'	1:C1:728:U:H6	1.83	0.43
29:B1:1183:C:C3'	29:B1:1184:A:C5'	2.96	0.43
10:CI:18:ARG:O	10:CI:21:ASP:CB	2.65	0.43
29:B1:1543:G:N3	29:B1:1544:G:C8	2.86	0.43
33:DB:65:ASP:O	33:DB:66:PRO:CB	2.65	0.43
1:C1:1707:A:H2'	1:C1:1708:U:O2	2.17	0.43
29:B1:1804:A:C4	29:B1:1805:C:C6	3.06	0.43
29:D1:1090:G:O2'	29:D1:1091:A:H5'	2.18	0.43
74:B1:3459:OHX:N5	74:B1:3619:OHX:N5	2.66	0.43
20:AS:23:VAL:CB	74:AS:101:OHX:N1	2.80	0.43
29:D1:2469:G:N2	29:D1:2488:A:C2	2.86	0.43
2:AA:126:PRO:O	2:AA:130:ALA:HB2	2.18	0.43
1:C1:929:A:N7	1:C1:930:A:C5	2.86	0.43
1:C1:1624:C:O2	1:C1:1624:C:C2'	2.66	0.43
49:DT:13:TYR:O	49:DT:16:GLN:CB	2.66	0.43
1:A1:1287:A:O2'	1:A1:1288:G:C8	2.71	0.43
29:B1:789:A:H2'	29:B1:790:U:H6	1.79	0.43
35:BD:123:ALA:C	35:BD:125:ALA:N	2.71	0.43
44:BO:146:ALA:HB1	44:BO:149:ASN:CB	2.48	0.43
29:D1:2202:C:H5''	33:DB:225:ILE:CA	2.48	0.43
45:BP:27:LEU:O	45:BP:30:GLY:N	2.48	0.43
1:A1:577:G:H3'	1:A1:577:G:P	2.59	0.43
11:AJ:35:PRO:O	11:AJ:38:LEU:N	2.51	0.43
29:D1:2175:U:C3'	29:D1:2176:U:H5'	2.47	0.43
1:A1:1294:G:N3	1:A1:1295:G:C8	2.86	0.43
33:DB:5:ILE:O	33:DB:6:ARG:CB	2.65	0.43
51:BV:5:ILE:O	51:BV:6:ASP:CB	2.66	0.43
38:BG:152:GLY:O	38:BG:153:PHE:CB	2.65	0.43
1:C1:308:C:C6	1:C1:308:C:H5'	2.54	0.43
21:CT:218:GLY:O	21:CT:236:ALA:HB3	2.17	0.43
29:B1:1397:C:C4	29:B1:1398:U:O4	2.72	0.43
29:D1:1573:G:C8	29:D1:1574:C:C6	3.06	0.43
38:BG:187:GLU:O	38:BG:188:ILE:C	2.56	0.43
9:AH:83:ILE:O	9:AH:117:ASP:HA	2.19	0.43
49:BT:20:ARG:O	49:BT:22:HIS:N	2.47	0.43
16:CO:119:LYS:O	16:CO:121:VAL:N	2.51	0.43
38:DG:98:LYS:O	38:DG:100:ARG:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CP:99:ASN:O	17:CP:100:ASP:O	2.35	0.43
48:DS:120:TYR:O	48:DS:121:HIS:C	2.57	0.43
1:A1:1008:G:C2	1:A1:1009:U:C1'	2.98	0.43
1:A1:1042:G:H2'	1:A1:1043:A:H8	1.80	0.43
1:A1:1086:A:N7	1:A1:1087:A:C5	2.87	0.43
1:A1:623:A:N1	1:A1:1105:C:C4'	2.81	0.43
1:A1:9:U:C2	1:A1:11:A:OP2	2.71	0.43
1:A1:1630:U:C4'	1:A1:1765:A:OP1	2.56	0.43
1:A1:378:A:C2	1:A1:379:U:H5''	2.53	0.43
1:A1:387:A:C2	1:A1:402:C:H5	2.36	0.43
1:A1:407:A:C4	1:A1:408:C:C5	3.06	0.43
1:A1:550:A:O4'	1:A1:556:A:C2	2.72	0.43
1:A1:634:G:C2	1:A1:966:A:C5	3.06	0.43
29:B1:107:A:H1'	29:B1:325:A:N3	2.33	0.43
29:B1:1176:C:C3'	29:B1:1177:G:H5''	2.49	0.43
29:B1:1193:A:N7	29:B1:1194:G:C6	2.85	0.43
29:B1:1212:A:H3'	29:B1:1213:G:H5''	1.99	0.43
29:B1:1225:A:C2	29:B1:1226:G:H1'	2.53	0.43
29:B1:1506:A:C6	29:B1:1513:G:C6	3.06	0.43
29:B1:1557:A:C5	29:B1:1558:A:H1'	2.53	0.43
29:B1:1687:U:O2	29:B1:3069:G:C2	2.71	0.43
29:B1:1687:U:C3'	29:B1:1688:U:H4'	2.47	0.43
29:B1:1857:C:H2'	29:B1:1858:A:C8	2.53	0.43
29:B1:197:G:H21	29:B1:218:G:H21	1.65	0.43
29:B1:2133:U:H2'	29:B1:2134:G:H5'	2.00	0.43
29:B1:22:G:H2'	29:B1:23:A:O4'	2.18	0.43
29:B1:2192:C:O2'	29:B1:2312:A:C2	2.67	0.43
29:B1:2125:A:C2	29:B1:2329:C:C2	3.06	0.43
29:B1:2348:A:H3'	29:B1:2349:U:H6	1.84	0.43
29:B1:282:G:N2	29:B1:286:U:C4'	2.59	0.43
29:B1:3010:U:C2'	29:B1:3011:A:H5'	2.49	0.43
29:B1:3157:U:N3	29:B1:3293:U:N1	2.66	0.43
29:B1:3302:U:HO2'	29:B1:3303:G:C4'	2.30	0.43
29:B1:3342:A:P	29:B1:3343:G:N2	2.91	0.43
29:B1:412:G:C4	29:B1:413:U:C5	3.06	0.43
29:B1:47:C:C6	29:B1:48:A:C8	3.07	0.43
29:B1:509:U:O2	29:B1:509:U:C2'	2.66	0.43
29:B1:521:A:N7	29:B1:572:A:C5	2.86	0.43
29:B1:580:C:N4	29:B1:581:U:O4	2.51	0.43
29:B1:634:C:C2	29:B1:635:G:C8	3.07	0.43
29:B1:682:U:C6	29:B1:683:U:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:682:U:C6	29:B1:683:U:H5	2.36	0.43
29:B1:712:G:C5	29:B1:713:U:C4	3.06	0.43
29:B1:75:G:C6	29:B1:76:G:N1	2.86	0.43
29:B1:825:U:C2	29:B1:826:G:C8	3.07	0.43
29:B1:832:G:N2	29:B1:863:C:C2	2.86	0.43
29:B1:866:A:C5'	29:B1:867:G:OP2	2.66	0.43
29:B1:941:G:C5	29:B1:942:U:C5	3.07	0.43
31:B3:18:U:C2	31:B3:19:C:C5	3.06	0.43
54:BY:20:GLY:O	54:BY:22:ILE:N	2.50	0.43
1:C1:1016:C:H2'	1:C1:1017:U:H5'	1.99	0.43
1:C1:1765:A:P	74:C1:1983:OHX:N4	2.92	0.43
1:C1:281:G:H2'	1:C1:281:G:N3	2.33	0.43
1:C1:269:G:C4	1:C1:287:G:N2	2.87	0.43
1:C1:288:A:HO2'	1:C1:289:U:P	2.41	0.43
1:C1:295:A:C2	1:C1:296:U:O4'	2.71	0.43
1:C1:371:G:C6	1:C1:372:G:C2	3.07	0.43
1:C1:428:A:O3'	1:C1:439:U:H2'	2.19	0.43
1:C1:469:C:N3	1:C1:469:C:P	2.92	0.43
1:C1:519:C:C4	1:C1:534:A:C2	3.07	0.43
1:C1:536:C:C4	1:C1:537:G:N7	2.87	0.43
1:C1:542:A:H2'	1:C1:542:A:N3	2.34	0.43
1:C1:755:A:C4	1:C1:756:A:C8	3.07	0.43
1:C1:814:A:C6	1:C1:858:G:C2	3.06	0.43
1:C1:812:A:C6	1:C1:859:A:N7	2.87	0.43
29:D1:108:A:C2'	29:D1:109:A:H5''	2.49	0.43
29:D1:1112:A:N3	29:D1:1370:G:O2'	2.52	0.43
29:D1:1164:G:C4	29:D1:1165:A:N7	2.87	0.43
29:D1:1212:A:C2	29:D1:1213:G:N9	2.87	0.43
29:D1:947:G:C5	29:D1:1373:A:C2	3.06	0.43
29:D1:1377:G:C6	29:D1:1431:G:O6	2.71	0.43
29:D1:1470:U:H2'	29:D1:1471:U:C6	2.53	0.43
29:D1:1483:G:C8	29:D1:1485:G:C8	3.06	0.43
29:D1:1497:C:O2'	29:D1:1498:A:H5'	2.18	0.43
29:D1:1528:G:C6	29:D1:1529:A:C5	3.07	0.43
29:D1:1658:G:C5	29:D1:1796:G:O6	2.72	0.43
29:D1:1898:G:C8	29:D1:1899:G:C8	3.07	0.43
29:D1:2289:U:O2	29:D1:2290:C:C6	2.72	0.43
29:D1:2290:C:H2'	29:D1:2291:A:C8	2.50	0.43
29:D1:2717:U:C5'	29:D1:2717:U:C6	3.01	0.43
29:D1:2749:G:C8	29:D1:2750:U:C5	3.07	0.43
29:D1:2823:G:C6	29:D1:2824:G:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2922:G:C2	29:D1:2923:U:O2	2.72	0.43
29:D1:296:A:C5	29:D1:297:G:C2	3.06	0.43
29:D1:296:A:C5	29:D1:297:G:N1	2.86	0.43
29:D1:2997:G:O2'	29:D1:2998:U:O5'	2.35	0.43
29:D1:64:G:N1	29:D1:322:U:C5	2.87	0.43
29:D1:3344:A:N6	29:D1:3362:A:C6	2.78	0.43
29:D1:346:C:C4	29:D1:348:A:C8	3.05	0.43
29:D1:39:A:C5'	29:D1:40:A:H4'	2.48	0.43
29:D1:692:A:C2'	29:D1:693:A:H8	2.31	0.43
29:D1:728:G:C2	29:D1:742:G:C6	3.07	0.43
29:D1:736:A:N7	29:D1:737:G:N7	2.67	0.43
29:D1:819:U:HO2'	29:D1:918:C:HO2'	1.67	0.43
29:D1:901:G:C5	29:D1:902:G:N7	2.85	0.43
29:D1:939:U:H2'	29:D1:940:G:O5'	2.18	0.43
29:D1:943:U:H5'	29:D1:943:U:H6	1.84	0.43
30:D2:98:C:C2'	30:D2:98:C:O2	2.52	0.43
35:DD:25:VAL:O	35:DD:28:ALA:N	2.33	0.43
1:A1:702:G:N1	1:A1:703:G:C6	2.86	0.43
30:B2:78:U:O2'	30:B2:79:A:O5'	2.36	0.43
34:BC:186:GLY:O	34:BC:187:SER:O	2.37	0.43
34:BC:39:LYS:O	34:BC:40:PRO:C	2.56	0.43
1:A1:145:A:N1	1:A1:171:A:N1	2.66	0.43
1:A1:204:G:N2	1:A1:264:G:C2	2.86	0.43
1:C1:328:A:C6	1:C1:341:A:N6	2.86	0.43
1:A1:250:C:H3'	1:A1:250:C:P	2.54	0.43
1:A1:798:C:O2'	1:A1:799:A:H5'	2.19	0.43
1:C1:1185:U:H1'	1:C1:1186:U:OP2	2.19	0.43
1:C1:1245:G:C5	1:C1:1246:C:C6	3.06	0.43
1:C1:1251:U:C4	1:C1:1252:C:C5	3.07	0.43
1:C1:1345:A:C2'	1:C1:1346:A:C8	3.00	0.43
1:C1:1550:A:C2	1:C1:1562:G:C6	3.06	0.43
1:C1:1485:C:H42	1:C1:1592:A:C4'	2.31	0.43
1:C1:1598:U:H2'	1:C1:1599:C:O5'	2.18	0.43
1:A1:1155:G:H2'	1:A1:1156:C:C6	2.53	0.43
1:A1:1179:G:C2	1:A1:1180:C:H1'	2.53	0.43
1:A1:1362:U:C3'	1:A1:1363:U:O4'	2.50	0.43
1:A1:1592:A:C4	1:A1:1593:A:C8	3.06	0.43
30:B2:88:G:C6	30:B2:89:G:C5	3.07	0.43
29:B1:1463:U:N3	29:B1:1464:G:N7	2.67	0.43
29:D1:3202:G:C3'	29:D1:3202:G:P	3.07	0.43
29:D1:3203:U:O5'	29:D1:3204:C:OP2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DQ:14:SER:CB	46:DQ:151:THR:HA	2.48	0.43
29:B1:3253:G:H5''	29:B1:3254:G:OP2	2.19	0.43
29:B1:3030:G:C2'	29:B1:3031:G:O4'	2.66	0.43
2:AA:175:TYR:C	2:AA:177:LEU:N	2.71	0.43
29:D1:72:C:C5	29:D1:73:C:N1	2.87	0.43
29:D1:72:C:C4	29:D1:73:C:C1'	3.01	0.43
29:B1:3381:U:C2	29:B1:3383:G:N1	2.86	0.43
29:D1:1259:A:N3	29:D1:1280:C:O2'	2.39	0.43
4:AC:7:LYS:O	4:AC:8:LYS:C	2.56	0.43
29:D1:1066:G:H2'	29:D1:1067:U:C1'	2.49	0.43
29:D1:3314:A:C2'	34:DC:119:TYR:O	2.66	0.43
1:C1:1291:G:N2	1:C1:1324:G:N1	2.48	0.43
29:D1:3144:G:C5	74:D1:3431:OHX:N1	2.86	0.43
47:DR:117:ALA:CB	47:DR:118:GLY:CA	2.93	0.43
29:D1:2211:U:O2'	29:D1:2212:C:H5'	2.19	0.43
29:D1:2213:A:N1	29:D1:2214:A:C6	2.86	0.43
29:D1:2207:A:C8	29:D1:2237:C:C2	3.06	0.43
29:B1:987:U:C2	29:B1:988:U:C5	3.07	0.43
29:D1:1687:U:C2'	29:D1:1688:U:O2'	2.67	0.43
1:A1:1124:A:N6	1:A1:1125:A:N1	2.65	0.43
29:B1:1728:G:H5''	29:B1:1729:A:H3'	2.00	0.43
1:C1:899:G:H5'	9:CH:45:GLY:HA2	2.00	0.43
1:C1:488:G:O2'	1:C1:489:C:P	2.76	0.43
29:B1:25:U:O4	29:B1:331:G:C8	2.72	0.43
1:A1:1736:G:O2'	1:A1:1737:G:H5'	2.19	0.43
30:D2:1:G:C2'	30:D2:1:G:N3	2.77	0.43
29:D1:6:A:N1	31:D3:154:C:C2	2.87	0.43
1:A1:359:A:N3	1:A1:359:A:C2'	2.82	0.43
1:A1:359:A:H2'	1:A1:359:A:N3	2.34	0.43
43:BN:48:GLY:C	43:BN:50:LYS:CA	2.80	0.43
29:D1:1736:G:C4	29:D1:1737:U:C5	3.07	0.43
29:D1:2881:C:O2	29:D1:2882:U:C6	2.71	0.43
73:DM:191:TYR:O	73:DM:192:ASP:CB	2.66	0.43
29:D1:1009:A:C2	29:D1:1042:U:C2	3.07	0.43
29:B1:102:C:C1'	29:B1:103:G:P	3.06	0.43
6:CE:68:LYS:O	6:CE:70:LEU:N	2.52	0.43
29:B1:2576:G:C2	29:B1:2577:C:C2	3.06	0.43
43:DN:24:LYS:O	43:DN:25:LYS:O	2.37	0.43
17:AP:48:HIS:HA	17:AP:105:ALA:CB	2.41	0.43
1:C1:1693:A:N1	1:C1:1708:U:N3	2.66	0.43
29:B1:2901:G:H2'	29:B1:2902:A:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:568:G:H2'	1:A1:569:C:H5'	1.98	0.43
29:B1:665:A:N6	29:B1:666:A:C6	2.86	0.43
29:B1:297:G:H4'	29:B1:299:G:C4'	2.47	0.43
29:D1:2531:C:H42	29:D1:2548:C:N4	2.17	0.43
1:A1:1028:C:C1'	1:A1:1029:U:H5''	2.44	0.43
29:B1:97:U:H2'	29:B1:97:U:O2	2.19	0.43
47:DR:148:GLU:HA	47:DR:149:ALA:HA	1.45	0.43
1:A1:878:G:P	1:A1:943:C:HO2'	2.40	0.43
38:BG:111:ILE:O	38:BG:113:SER:N	2.51	0.43
8:AG:126:ALA:O	8:AG:127:ARG:C	2.57	0.43
17:CP:71:CYS:HA	17:CP:86:PHE:HA	2.00	0.43
1:A1:765:G:C4'	1:A1:766:U:OP1	2.64	0.43
35:DD:134:LEU:C	35:DD:136:LEU:H	2.20	0.43
29:D1:2471:U:H4'	32:DA:23:THR:CB	2.49	0.43
44:DO:144:ARG:C	44:DO:146:ALA:H	2.21	0.43
52:BW:88:MET:O	52:BW:90:ALA:N	2.46	0.43
36:BE:40:HIS:N	36:BE:41:LYS:CB	2.82	0.43
44:BO:146:ALA:C	44:BO:148:TYR:N	2.72	0.43
29:D1:1053:A:N3	29:D1:1053:A:C2'	2.81	0.43
29:B1:1049:C:N3	29:B1:1050:U:C5	2.86	0.43
49:BT:75:ILE:HA	49:BT:89:LEU:O	2.18	0.43
29:D1:1135:A:H2'	29:D1:1136:A:H5'	1.98	0.43
29:D1:238:A:O2'	29:D1:239:G:O5'	2.36	0.43
41:DJ:39:LYS:O	41:DJ:41:ALA:N	2.51	0.43
12:AK:50:ILE:O	12:AK:54:THR:N	2.39	0.43
29:B1:1673:G:C6	29:B1:1775:G:C6	3.06	0.43
16:CO:17:ALA:O	16:CO:19:LYS:N	2.51	0.43
6:CE:135:ALA:O	6:CE:155:HIS:O	2.36	0.43
55:DZ:82:GLY:O	55:DZ:83:LYS:C	2.56	0.43
44:BO:121:VAL:O	44:BO:122:ASN:CB	2.67	0.43
21:CT:297:ASP:O	21:CT:299:GLN:N	2.51	0.43
29:B1:1397:C:H2'	29:B1:1398:U:C6	2.53	0.43
50:BU:24:ASN:O	50:BU:99:ALA:HA	2.19	0.43
21:AT:27:ALA:HB2	21:AT:296:ALA:HB1	1.99	0.43
1:C1:1705:C:C5	1:C1:1706:C:C5	3.07	0.43
31:D3:136:G:OP1	52:DW:52:PRO:CB	2.67	0.43
53:BX:116:LYS:O	53:BX:117:ALA:C	2.57	0.43
48:DS:158:GLU:O	48:DS:161:ALA:HB3	2.19	0.43
36:DE:67:SER:O	36:DE:68:THR:CB	2.66	0.43
2:AA:75:ALA:HB1	2:AA:122:ILE:O	2.18	0.43
10:AI:91:GLY:HA2	10:AI:107:ILE:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DQ:65:SER:O	46:DQ:66:SER:CB	2.67	0.43
1:A1:1116:A:C2	1:A1:1117:U:C2	3.06	0.43
1:A1:1151:A:C2	1:A1:1152:A:C8	3.07	0.43
1:A1:1745:G:O5'	1:A1:1745:G:H8	2.01	0.43
1:A1:1756:A:H2'	1:A1:1757:G:C5'	2.45	0.43
1:A1:1777:G:C6	1:A1:1778:G:N7	2.87	0.43
1:A1:123:G:N1	1:A1:295:A:C6	2.86	0.43
1:A1:295:A:O2'	1:A1:296:U:O5'	2.37	0.43
1:A1:32:U:H2'	1:A1:33:U:O5'	2.19	0.43
1:A1:409:C:H4'	1:A1:1732:A:O3'	2.19	0.43
1:A1:427:C:O2'	1:A1:428:A:O4'	2.30	0.43
1:A1:478:A:C2	1:A1:479:C:N3	2.87	0.43
1:A1:522:U:C6	1:A1:522:U:H3'	2.53	0.43
1:A1:54:C:H2'	1:A1:54:C:O2	2.17	0.43
1:A1:938:G:N2	1:A1:942:G:N3	2.65	0.43
1:A1:93:A:C4	1:A1:399:A:N3	2.86	0.43
29:B1:12:A:C2'	29:B1:13:A:O5'	2.66	0.43
29:B1:1489:A:N3	29:B1:1489:A:C2'	2.82	0.43
29:B1:158:G:C2	29:B1:160:G:H5''	2.53	0.43
29:B1:161:G:O2'	29:B1:162:G:H5'	2.19	0.43
29:B1:1683:A:H5''	29:B1:1684:U:OP1	2.18	0.43
29:B1:1692:U:O2'	29:B1:1693:C:H5'	2.19	0.43
29:B1:2111:G:H22	51:BV:50:ALA:N	2.13	0.43
29:B1:187:A:C4	29:B1:211:A:C6	3.07	0.43
29:B1:2281:A:H1'	29:B1:2282:U:OP1	2.18	0.43
29:B1:2279:A:C2	29:B1:2283:G:N2	2.86	0.43
29:B1:2346:C:C2'	29:B1:2347:U:H5'	2.49	0.43
29:B1:2365:C:C2'	29:B1:2366:C:O5'	2.66	0.43
29:B1:2786:G:C6	29:B1:2787:G:N7	2.87	0.43
29:B1:2917:G:O6	29:B1:2930:A:C6	2.71	0.43
29:B1:2960:C:H3'	29:B1:2961:G:C8	2.50	0.43
29:B1:2140:U:O2'	29:B1:2978:U:H5'	2.18	0.43
29:B1:2978:U:H4'	29:B1:2979:U:OP2	2.19	0.43
29:B1:3006:A:N1	29:B1:3143:C:C2'	2.82	0.43
29:B1:3007:U:O5'	29:B1:3007:U:H6	2.02	0.43
29:B1:3119:U:O2	29:B1:3121:U:OP1	2.37	0.43
29:B1:3377:G:C2'	74:B1:3450:OHX:N4	2.82	0.43
29:B1:419:G:N7	74:B3:202:OHX:N6	2.65	0.43
29:B1:511:G:O2'	29:B1:512:U:H5'	2.19	0.43
29:B1:552:G:C6	29:B1:553:U:N3	2.87	0.43
29:B1:559:A:O2'	29:B1:560:G:O5'	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:61:A:C4	29:B1:62:A:C8	3.06	0.43
29:B1:716:A:O3'	29:B1:717:C:H4'	2.16	0.43
29:B1:718:G:OP1	29:B1:719:U:H4'	2.18	0.43
29:B1:771:A:C6	29:B1:772:U:N3	2.86	0.43
29:B1:804:C:N4	29:B1:940:G:N1	2.66	0.43
29:B1:952:A:C5'	29:B1:952:A:C8	2.97	0.43
31:B3:109:A:H2'	31:B3:110:C:O4'	2.18	0.43
31:B3:140:G:C5	31:B3:141:C:C5	3.07	0.43
33:BB:78:ALA:HB1	33:BB:167:GLY:O	2.17	0.43
33:BB:181:LYS:O	33:BB:182:ALA:O	2.37	0.43
35:BD:163:LYS:C	35:BD:165:ALA:N	2.72	0.43
37:BF:134:ARG:C	37:BF:136:GLU:N	2.68	0.43
37:BF:156:LYS:O	37:BF:159:LEU:CA	2.66	0.43
1:C1:106:U:H3'	1:C1:107:C:C6	2.54	0.43
1:C1:169:A:C8	1:C1:171:A:N6	2.85	0.43
1:C1:16:G:O2'	1:C1:17:C:O4'	2.30	0.43
1:C1:190:C:N4	1:C1:192:U:O4	2.52	0.43
1:C1:390:G:N2	1:C1:407:A:N6	2.66	0.43
1:C1:451:A:C6	1:C1:456:A:N1	2.87	0.43
1:C1:47:A:C4	1:C1:425:A:C6	3.06	0.43
1:C1:53:G:C5	1:C1:54:C:C6	3.06	0.43
1:C1:635:A:C6	1:C1:863:A:C8	3.06	0.43
29:D1:112:U:O4	29:D1:320:G:C6	2.71	0.43
29:D1:1197:A:HO2'	29:D1:1198:C:P	2.41	0.43
29:D1:1225:A:C6	29:D1:1226:G:C5	3.07	0.43
29:D1:1284:C:N3	29:D1:1285:G:C8	2.87	0.43
29:D1:1298:C:N3	29:D1:1299:U:C5	2.86	0.43
29:D1:1302:A:H1'	29:D1:2887:A:H2	1.78	0.43
29:D1:1329:U:HO2'	29:D1:1330:A:P	2.41	0.43
29:D1:1594:A:O2'	29:D1:1614:C:O2	2.35	0.43
29:D1:1793:C:H2'	29:D1:1793:C:H6	1.52	0.43
29:D1:2144:A:C4	29:D1:2281:A:N6	2.86	0.43
29:D1:160:G:H1	29:D1:263:C:HO2'	1.58	0.43
29:D1:2644:C:O3'	41:DJ:117:GLY:HA3	2.19	0.43
29:D1:2654:C:H3'	29:D1:2654:C:C6	2.53	0.43
29:D1:2696:A:H3'	29:D1:2696:A:C8	2.53	0.43
29:D1:2707:C:O2'	29:D1:2708:C:H5'	2.19	0.43
29:D1:2817:A:HO2'	29:D1:2818:U:H5	1.61	0.43
29:D1:2281:A:C6	29:D1:2959:C:H1'	2.53	0.43
29:D1:268:A:N6	29:D1:296:A:OP2	2.51	0.43
29:D1:3153:U:H5''	29:D1:3293:U:C6	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3295:A:H2'	29:D1:3296:A:C8	2.47	0.43
29:D1:1853:U:O4	74:D1:3576:OHX:N3	2.52	0.43
29:D1:384:A:H1'	29:D1:1465:A:C5	2.53	0.43
29:D1:517:G:O3'	29:D1:518:G:O4'	2.36	0.43
29:D1:548:G:C5	29:D1:549:U:H1'	2.53	0.43
29:D1:54:C:O2'	29:D1:55:G:C5'	2.65	0.43
29:D1:576:C:HO2'	29:D1:577:C:H5''	1.83	0.43
29:D1:84:U:OP1	29:D1:701:G:H5''	2.18	0.43
29:D1:846:A:C5	29:D1:847:A:C8	3.07	0.43
29:D1:873:C:C3'	29:D1:874:U:H4'	2.49	0.43
30:D2:82:G:C5	30:D2:99:G:N1	2.87	0.43
31:D3:117:C:C2	31:D3:118:C:C6	3.07	0.43
31:D3:18:U:C2	31:D3:19:C:C5	3.06	0.43
31:D3:40:A:O2'	31:D3:41:A:OP1	2.36	0.43
31:D3:48:A:N1	31:D3:51:G:C5	2.86	0.43
31:D3:79:A:H2'	31:D3:80:A:O4'	2.18	0.43
38:DG:209:ASN:O	38:DG:211:SER:N	2.41	0.43
29:D1:2382:G:O2'	45:DP:70:PRO:N	2.52	0.43
1:A1:228:G:N1	1:A1:229:U:C2	2.87	0.43
1:C1:692:C:N4	1:C1:693:U:O4	2.51	0.43
29:B1:956:U:C2'	29:B1:957:C:O5'	2.66	0.43
31:B3:56:G:C4	31:B3:57:C:C5	3.07	0.43
1:A1:204:G:N2	1:A1:205:U:O2	2.51	0.43
1:A1:269:G:C6	1:A1:287:G:C2	3.06	0.43
1:A1:452:A:C2'	1:A1:453:U:C5'	2.87	0.43
1:A1:60:U:O5'	1:A1:454:U:O4'	2.37	0.43
30:D2:65:G:N3	30:D2:65:G:H2'	2.34	0.43
30:D2:75:G:N2	30:D2:105:C:N4	2.65	0.43
29:D1:2673:A:C2	29:D1:2674:A:N6	2.86	0.43
29:D1:2673:A:C2	29:D1:2676:A:H8	2.36	0.43
29:D1:2677:G:C6	29:D1:2679:A:C5	3.07	0.43
1:A1:1723:U:C4	1:A1:1724:U:C5	3.07	0.43
1:C1:1164:G:C2'	1:C1:1165:G:O5'	2.67	0.43
1:C1:1192:C:H3'	1:C1:1193:A:H2'	2.00	0.43
1:C1:1206:U:C6	1:C1:1207:C:C6	3.06	0.43
1:C1:1248:C:H2'	1:C1:1249:U:C6	2.53	0.43
1:C1:1378:U:C2'	1:C1:1378:U:O2	2.66	0.43
1:C1:1498:G:C6	1:C1:1510:U:N3	2.86	0.43
1:C1:1541:G:H2'	1:C1:1542:G:C8	2.53	0.43
1:C1:1556:A:C2	1:C1:1560:U:H1'	2.54	0.43
1:A1:1477:G:C2'	1:A1:1478:G:C5'	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1525:A:C2	1:A1:1526:A:C5	3.06	0.43
1:A1:1585:U:C2'	1:A1:1586:A:H5'	2.49	0.43
1:A1:1594:G:C6	1:A1:1595:U:C2	3.06	0.43
30:B2:87:G:N1	30:B2:95:A:C6	2.87	0.43
29:B1:3214:U:HO2'	29:B1:3217:C:H4'	1.83	0.43
29:D1:3189:G:C2	29:D1:3190:C:C5	3.07	0.43
29:D1:3191:G:C5	29:D1:3202:G:C2	3.07	0.43
29:D1:3205:G:H2'	29:D1:3205:G:N3	2.34	0.43
29:D1:3206:C:O2'	74:D1:3597:OHX:N3	2.51	0.43
46:DQ:9:THR:HA	46:DQ:13:LYS:CA	2.48	0.43
46:DQ:8:SER:O	46:DQ:14:SER:O	2.37	0.43
29:D1:1412:G:H2'	29:D1:1413:G:O4'	2.18	0.43
29:D1:1422:G:C4	29:D1:1423:C:C5	3.06	0.43
30:B2:26:C:O5'	30:B2:26:C:C6	2.72	0.43
6:AE:121:SER:O	6:AE:122:VAL:C	2.57	0.43
30:D2:46:A:C4	30:D2:46:A:OP2	2.72	0.43
1:A1:1219:A:N3	1:A1:1219:A:O5'	2.51	0.43
29:D1:1231:A:N6	29:D1:1279:C:N4	2.67	0.43
29:D1:1629:U:H3'	29:D1:1630:U:C5'	2.47	0.43
29:D1:1631:C:P	29:D1:1631:C:H3'	2.58	0.43
38:BG:28:ALA:O	38:BG:29:GLU:C	2.56	0.43
29:B1:1079:A:C5	29:B1:1080:A:N6	2.87	0.43
1:A1:948:G:C4	1:A1:949:C:C5	3.07	0.43
1:C1:1751:C:O2	1:C1:1751:C:C2'	2.61	0.43
29:D1:1688:U:H2'	29:D1:1688:U:O2	2.17	0.43
1:A1:896:U:C5	1:A1:897:C:C4	3.06	0.43
29:B1:1730:G:O6	55:BZ:26:GLY:HA2	2.19	0.43
29:B1:822:G:C2	29:B1:823:C:C2	3.06	0.43
1:C1:900:A:O2'	1:C1:916:U:H4'	2.19	0.43
1:C1:498:G:C1'	1:C1:499:U:H5	2.27	0.43
30:B2:2:G:N2	30:B2:3:U:C2	2.87	0.43
29:B1:25:U:C2	29:B1:330:G:O3'	2.71	0.43
29:D1:1922:A:H8	29:D1:1922:A:O5'	2.02	0.43
29:B1:3353:G:C6	29:B1:3356:G:C6	3.07	0.43
29:B1:2564:G:H2'	29:B1:2565:U:O4'	2.19	0.43
29:B1:1919:G:N2	29:B1:1920:U:C2	2.87	0.43
29:B1:1740:U:C3'	29:B1:1741:A:C5'	2.96	0.43
34:DC:295:ALA:N	34:DC:306:THR:H	2.16	0.43
29:D1:1029:G:P	29:D1:1029:G:H8	2.41	0.43
11:AJ:92:TYR:CB	11:AJ:93:HIS:O	2.67	0.43
29:D1:1695:U:O2'	29:D1:1749:A:C6	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BH:221:ASN:O	39:BH:225:LYS:CB	2.67	0.43
29:D1:1651:U:H2'	29:D1:1652:G:C8	2.54	0.43
3:AB:170:ILE:O	3:AB:196:VAL:HA	2.18	0.43
1:C1:789:A:N3	1:C1:790:U:C6	2.87	0.43
1:A1:133:U:C1'	1:A1:134:U:P	3.06	0.43
29:D1:853:G:H2'	29:D1:854:G:O4'	2.19	0.43
29:B1:2900:A:N1	29:B1:2901:G:C5	2.85	0.43
29:D1:1815:U:OP2	29:D1:1816:A:C4	2.72	0.43
29:B1:601:U:C2	29:B1:602:A:C8	3.06	0.43
29:B1:603:A:H2'	29:B1:604:G:O4'	2.19	0.43
5:AD:91:GLU:O	5:AD:92:ARG:C	2.56	0.43
36:DE:255:PRO:O	36:DE:256:THR:C	2.57	0.43
3:CB:128:GLY:O	3:CB:129:ILE:C	2.55	0.43
29:D1:2182:A:C2	29:D1:2183:A:C8	3.06	0.43
29:B1:2571:U:H2'	29:B1:2572:C:C5'	2.48	0.43
1:C1:710:U:C4	1:C1:729:G:O6	2.71	0.43
1:C1:500:C:O2	1:C1:501:U:C5	2.71	0.43
29:B1:2189:U:H2'	29:B1:2189:U:O2	2.17	0.43
19:AR:28:VAL:O	19:AR:29:ARG:CB	2.66	0.43
29:D1:440:A:C2'	29:D1:440:A:N3	2.82	0.43
51:BV:21:PHE:O	51:BV:22:VAL:CB	2.64	0.43
29:D1:2219:A:C2'	29:D1:2220:A:H5'	2.49	0.43
35:BD:84:ARG:CB	35:BD:85:SER:HA	2.49	0.43
29:B1:2752:U:C3'	29:B1:2752:U:O2	2.65	0.43
47:BR:149:ALA:HB3	47:BR:150:VAL:HA	2.00	0.43
29:B1:2209:U:C6	29:B1:2209:U:C3'	3.01	0.43
29:D1:1759:C:C3'	29:D1:1760:A:H5''	2.49	0.43
29:D1:1759:C:H2'	29:D1:1760:A:H5''	1.99	0.43
49:BT:115:LYS:C	49:BT:117:ALA:N	2.70	0.43
49:DT:58:GLN:O	49:DT:60:LYS:N	2.52	0.43
47:BR:37:ALA:O	47:BR:38:ARG:CB	2.66	0.43
48:DS:70:LYS:C	48:DS:72:GLU:N	2.71	0.43
35:DD:234:ASN:O	35:DD:237:GLN:N	2.50	0.43
39:BH:168:ALA:C	39:BH:170:CYS:N	2.72	0.43
47:BR:75:GLY:O	47:BR:76:ALA:CB	2.66	0.43
29:B1:1052:U:C5	29:B1:1053:A:C8	3.06	0.43
41:BJ:56:GLU:O	41:BJ:58:GLU:N	2.52	0.43
34:DC:149:ALA:O	34:DC:150:ARG:C	2.55	0.43
3:AB:152:HIS:C	3:AB:154:LEU:N	2.71	0.43
48:BS:141:HIS:O	48:BS:145:ALA:CB	2.67	0.43
44:BO:48:ALA:O	44:BO:51:LEU:O	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:215:GLU:C	41:DJ:217:PHE:H	2.21	0.43
72:DL:30:PRO:O	72:DL:32:ILE:O	2.36	0.43
29:B1:2463:G:O2'	29:B1:2464:U:H5'	2.19	0.43
35:BD:106:TRP:O	35:BD:107:ARG:O	2.36	0.43
6:AE:38:ASN:O	6:AE:39:LYS:O	2.37	0.43
4:AC:102:ALA:O	4:AC:106:LYS:CB	2.66	0.43
41:BJ:202:LYS:O	41:BJ:203:LYS:CB	2.65	0.43
33:DB:175:VAL:O	33:DB:176:ASP:CB	2.65	0.43
10:CI:91:GLY:HA2	10:CI:107:ILE:O	2.18	0.43
42:DK:109:HIS:O	42:DK:110:ILE:CB	2.66	0.43
17:AP:54:LEU:H	17:AP:74:VAL:HA	1.84	0.43
1:A1:1035:G:C6	1:A1:1101:G:C6	3.07	0.43
1:A1:1142:A:C2'	1:A1:1143:A:O4'	2.67	0.43
1:A1:1631:A:H5'	1:A1:1764:C:HO2'	1.80	0.43
1:A1:1781:A:N1	1:A1:1782:A:N1	2.66	0.43
1:A1:34:G:C4	1:A1:35:U:C5	3.07	0.43
1:A1:528:U:H3	1:A1:530:C:H42	1.67	0.43
1:A1:558:U:N3	1:A1:559:C:C4	2.87	0.43
1:A1:551:G:C4'	1:A1:581:U:O2	2.67	0.43
1:A1:92:A:H5''	1:A1:93:A:H5''	2.01	0.43
1:A1:985:G:C6	1:A1:986:G:O6	2.72	0.43
29:B1:1150:A:C2	29:B1:1151:U:C1'	3.02	0.43
29:B1:117:U:C6	29:B1:117:U:C3'	3.01	0.43
29:B1:1303:A:N7	29:B1:1304:A:N1	2.66	0.43
29:B1:1368:U:H2'	29:B1:1369:A:C8	2.42	0.43
29:B1:1412:G:H2'	29:B1:1413:G:O4'	2.18	0.43
29:B1:149:U:O4'	29:B1:149:U:OP2	2.37	0.43
29:B1:1505:C:O2'	29:B1:1506:A:H5'	2.18	0.43
29:B1:1547:G:C2'	29:B1:1548:C:C6	2.94	0.43
29:B1:1799:A:C2	29:B1:1800:A:C4	3.06	0.43
29:B1:1881:A:C4	29:B1:1882:G:C8	3.07	0.43
29:B1:2182:A:C2'	29:B1:2183:A:H5'	2.48	0.43
29:B1:2191:U:N3	29:B1:2192:C:C5	2.87	0.43
29:B1:2197:C:C2	29:B1:2242:A:C2	3.06	0.43
29:B1:2254:U:H2'	29:B1:2255:A:OP1	2.18	0.43
29:B1:2286:U:O4	29:B1:2288:G:H1'	2.18	0.43
29:B1:2372:A:O2'	29:B1:2373:A:OP1	2.36	0.43
29:B1:2394:G:O4'	34:BC:253:GLY:HA3	2.18	0.43
29:B1:710:A:H2	29:B1:2774:C:O4'	2.02	0.43
29:B1:278:U:C4	29:B1:279:U:O4	2.71	0.43
29:B1:2828:G:H2'	29:B1:2829:U:O5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2837:A:C8	29:B1:2845:A:H2	2.36	0.43
29:B1:2846:U:H2'	29:B1:2847:A:OP2	2.19	0.43
29:B1:2851:A:H3'	29:B1:2852:C:C5'	2.48	0.43
29:B1:2912:G:C6	29:B1:3130:A:C6	3.05	0.43
29:B1:2955:U:O2	29:B1:2956:A:C8	2.71	0.43
29:B1:2418:G:O6	29:B1:2965:U:C6	2.72	0.43
29:B1:3038:U:C2	29:B1:3039:C:C6	3.07	0.43
29:B1:3068:U:C2'	29:B1:3069:G:OP1	2.67	0.43
29:B1:3296:A:C5	29:B1:3297:U:C5	3.07	0.43
29:B1:1942:U:O4'	29:B1:3342:A:C2	2.71	0.43
29:B1:407:A:H5'	29:B1:1396:C:O2'	2.18	0.43
29:B1:515:C:C2	29:B1:516:A:H8	2.31	0.43
29:B1:547:G:C8	29:B1:548:G:C4	3.06	0.43
29:B1:562:C:H6	29:B1:562:C:OP2	2.01	0.43
29:B1:66:A:H62	29:B1:76:G:N2	2.16	0.43
29:B1:916:G:C5	29:B1:924:G:C4	3.06	0.43
29:B1:934:G:C2	29:B1:935:U:C6	3.07	0.43
31:B3:108:C:C2'	31:B3:109:A:O5'	2.67	0.43
31:B3:145:U:N3	31:B3:146:U:C2	2.87	0.43
31:B3:40:A:C5'	31:B3:40:A:C8	2.92	0.43
35:BD:164:GLU:O	35:BD:168:ALA:HB2	2.19	0.43
1:C1:1014:G:C5	1:C1:1015:U:C5	3.06	0.43
1:C1:1035:G:N1	1:C1:1101:G:C5	2.87	0.43
1:C1:1756:A:N7	74:C1:1901:OHX:N2	2.66	0.43
1:C1:1770:U:C5	1:C1:1793:G:N2	2.86	0.43
1:C1:205:U:O4	1:C1:206:A:N6	2.52	0.43
1:C1:317:C:C4	1:C1:318:U:C4	3.07	0.43
1:C1:25:C:C5	1:C1:367:A:H1'	2.53	0.43
1:C1:439:U:C4	1:C1:465:G:C2	3.07	0.43
1:C1:446:A:C4	1:C1:447:U:H5	2.29	0.43
1:C1:463:U:C2	1:C1:464:A:C8	3.06	0.43
1:C1:478:A:H2	1:C1:479:C:C2	2.36	0.43
1:C1:759:U:H2'	1:C1:759:U:O2	2.18	0.43
29:D1:1139:G:C2	29:D1:1140:G:N9	2.86	0.43
29:D1:1287:A:C5	29:D1:1288:U:C5	3.07	0.43
29:D1:1520:G:C2	29:D1:1521:G:C4	3.06	0.43
29:D1:1838:G:C5'	29:D1:1839:A:O4'	2.66	0.43
29:D1:1882:G:N3	29:D1:1882:G:H2'	2.34	0.43
29:D1:1895:A:O3'	29:D1:1896:A:H8	2.01	0.43
29:D1:2135:U:H2'	29:D1:2136:C:C6	2.45	0.43
29:D1:2254:U:H2'	29:D1:2255:A:OP1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2279:A:H4'	29:D1:2280:A:C5'	2.41	0.43
29:D1:2299:A:C2'	29:D1:2300:G:O5'	2.67	0.43
29:D1:2414:G:C2	29:D1:2415:C:H1'	2.54	0.43
29:D1:2706:G:C4	29:D1:2707:C:C5	3.07	0.43
29:D1:2950:G:N3	29:D1:2950:G:C2'	2.80	0.43
29:D1:301:G:C5	29:D1:302:U:C5	3.07	0.43
29:D1:328:U:H2'	29:D1:329:U:H3	1.84	0.43
29:D1:3387:U:C2'	29:D1:3388:C:H5	2.29	0.43
29:D1:380:U:C2	29:D1:381:U:H5	2.36	0.43
29:D1:411:U:HO2'	29:D1:412:G:H5'	1.82	0.43
29:D1:513:G:N1	29:D1:577:C:N4	2.65	0.43
29:D1:929:A:C6	29:D1:930:U:C4	3.07	0.43
29:D1:808:A:N6	29:D1:934:G:C8	2.87	0.43
31:D3:24:G:C2	31:D3:25:G:H1'	2.54	0.43
31:D3:81:U:C5	31:D3:82:U:C6	3.07	0.43
1:A1:844:A:N7	74:A1:1932:OHX:N2	2.66	0.43
1:A1:704:C:O2'	1:A1:705:U:H6	2.02	0.43
1:A1:841:U:O4	1:A1:842:C:C4	2.72	0.43
1:C1:827:C:C4'	1:C1:828:U:OP1	2.66	0.43
1:C1:685:A:O2'	1:C1:686:C:O5'	2.37	0.43
29:B1:2631:U:C4	29:B1:2648:G:C2	3.07	0.43
29:B1:955:U:C5	29:B1:967:A:N1	2.87	0.43
30:B2:15:C:C5	30:B2:16:U:C5	3.07	0.43
31:B3:72:A:H61	31:B3:85:G:H5'	1.84	0.43
1:A1:276:C:O2'	1:A1:277:U:O5'	2.37	0.43
30:D2:110:G:O6	30:D2:111:U:C4	2.71	0.43
1:C1:1722:A:H5'	1:C1:1723:U:H5	1.84	0.43
1:C1:1682:U:O4	74:C1:1951:OHX:N6	2.52	0.43
1:C1:320:U:O4'	1:C1:320:U:OP1	2.36	0.43
29:B1:2671:A:C6	29:B1:2684:C:N4	2.87	0.43
29:B1:2674:A:H2	29:B1:2675:C:C6	2.36	0.43
1:C1:1266:U:H5''	1:C1:1267:G:OP2	2.18	0.43
1:C1:1346:A:O4'	1:C1:1346:A:OP1	2.37	0.43
1:C1:1455:G:N3	1:C1:1456:C:O2	2.51	0.43
1:C1:1558:U:H3'	1:C1:1559:A:H5''	2.00	0.43
1:C1:1591:C:O2'	1:C1:1592:A:H5'	2.19	0.43
1:A1:1198:G:OP1	1:A1:1200:G:N2	2.51	0.43
1:A1:1201:G:O5'	1:A1:1201:G:N3	2.52	0.43
1:A1:1265:G:C5	1:A1:1266:U:C5	3.07	0.43
1:A1:1265:G:C6	1:A1:1266:U:C4	3.06	0.43
1:A1:1378:U:H3'	1:A1:1379:C:H5''	1.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1449:U:H2'	1:A1:1450:U:C6	2.48	0.43
1:A1:1492:A:C1'	1:A1:1493:A:O5'	2.67	0.43
1:C1:1050:G:C5	1:C1:1051:G:H1'	2.50	0.43
29:B1:3278:C:O2	29:B1:3279:A:N7	2.52	0.43
29:D1:3184:A:C2'	29:D1:3185:U:H5'	2.49	0.43
29:D1:1394:A:N7	29:D1:1395:G:C5	2.87	0.43
29:D1:392:G:O6	74:D1:3523:OHX:N3	2.51	0.43
29:B1:1236:G:H1'	29:B1:1245:A:C4'	2.48	0.43
29:B1:1252:A:H2'	29:B1:1253:U:O2	2.18	0.43
1:C1:883:C:H5''	1:C1:884:A:OP2	2.18	0.43
1:C1:414:C:H2'	1:C1:415:C:O4'	2.18	0.43
36:BE:102:GLY:O	36:BE:103:LEU:C	2.57	0.43
29:D1:1271:A:H61	29:D1:1272:C:H42	1.66	0.43
72:DL:96:LYS:O	72:DL:97:ASN:CB	2.66	0.43
29:B1:2211:U:H2'	29:B1:2212:C:C6	2.54	0.43
29:D1:1063:G:C5'	29:D1:1098:A:O5'	2.54	0.43
29:D1:985:U:C2	29:D1:986:U:C5	3.06	0.43
29:B1:340:C:C4	31:B3:25:G:N1	2.86	0.43
1:C1:1310:U:O5'	1:C1:1310:U:C6	2.67	0.43
1:C1:1333:C:H2'	1:C1:1334:U:C6	2.53	0.43
1:C1:1332:C:O2'	1:C1:1333:C:P	2.77	0.43
1:A1:1650:U:C2	1:A1:1651:A:C8	3.06	0.43
29:D1:2105:G:C2	29:D1:2106:A:C4	3.06	0.43
29:D1:1683:A:C5	29:D1:1684:U:N3	2.86	0.43
29:D1:1383:G:C2'	29:D1:1384:U:H5'	2.47	0.43
29:D1:2735:U:H2'	29:D1:2736:A:C8	2.53	0.43
49:DT:71:SER:O	49:DT:73:GLY:N	2.52	0.43
29:D1:1931:U:O2'	29:D1:2121:G:N2	2.49	0.43
11:CJ:89:LEU:O	11:CJ:97:VAL:HA	2.19	0.43
29:D1:2580:A:O2'	29:D1:2581:U:OP1	2.26	0.43
29:D1:1351:U:H2'	29:D1:1352:A:C8	2.53	0.43
29:B1:1337:A:N6	29:B1:1338:C:N4	2.67	0.43
34:BC:178:LEU:O	34:BC:179:ALA:O	2.37	0.43
29:B1:1024:G:N7	29:B1:1025:A:N7	2.67	0.43
29:D1:1008:U:H5''	29:D1:1008:U:H6	1.82	0.43
29:B1:1538:G:H5'	29:B1:1539:A:OP1	2.19	0.43
1:A1:1707:A:H2'	1:A1:1708:U:O2	2.18	0.43
29:B1:1815:U:OP2	29:B1:1816:A:C4	2.71	0.43
46:BQ:99:ALA:O	46:BQ:102:ALA:CB	2.61	0.43
29:D1:1047:A:N1	29:D1:2646:C:O2	2.51	0.43
45:DP:194:LEU:O	45:DP:195:ALA:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:132:ALA:O	2:CA:136:ALA:N	2.51	0.43
43:DN:109:ARG:O	43:DN:113:THR:CB	2.67	0.43
72:DL:24:ALA:O	72:DL:25:SER:CB	2.66	0.43
2:CA:106:SER:C	2:CA:108:THR:N	2.60	0.43
29:D1:2209:U:H3'	29:D1:2209:U:H6	1.83	0.43
29:B1:2095:G:H2'	29:B1:2096:A:H8	1.83	0.43
29:B1:2218:G:C6	29:B1:2228:A:C6	3.07	0.43
45:DP:158:ALA:O	45:DP:160:ARG:N	2.51	0.43
29:B1:496:C:H2'	29:B1:497:C:O5'	2.19	0.43
35:DD:251:THR:C	35:DD:254:ALA:HB3	2.39	0.43
54:BY:73:LEU:HA	54:BY:116:GLY:HA2	2.01	0.43
41:BJ:174:THR:C	41:BJ:176:LEU:CB	2.87	0.43
40:DI:48:VAL:C	40:DI:50:ASN:H	2.22	0.43
41:DJ:12:GLN:O	41:DJ:14:ASN:O	2.37	0.43
45:BP:49:ARG:C	45:BP:51:LYS:N	2.71	0.43
40:DI:185:GLY:O	40:DI:187:ILE:N	2.52	0.43
16:AO:13:ALA:O	16:AO:17:ALA:CB	2.66	0.43
40:DI:115:ARG:O	40:DI:116:ASN:CB	2.65	0.43
21:CT:135:THR:C	21:CT:137:LYS:H	2.21	0.43
36:BE:227:LEU:CA	36:BE:228:ALA:HB3	2.48	0.43
48:DS:145:ALA:O	48:DS:146:LYS:C	2.57	0.43
1:A1:1442:U:N3	1:A1:1443:U:O4	2.52	0.43
55:BZ:56:LEU:O	55:BZ:57:GLU:C	2.57	0.43
19:CR:33:LEU:O	19:CR:34:GLU:CB	2.66	0.43
54:DY:45:MET:N	54:DY:46:ASP:CB	2.82	0.43
54:DY:46:ASP:HA	54:DY:47:LYS:HA	1.32	0.43
1:A1:1101:G:C2'	1:A1:1102:G:H5'	2.48	0.43
1:A1:615:A:N1	1:A1:1107:G:C6	2.87	0.43
1:A1:407:A:O4'	1:A1:1672:G:H4'	2.19	0.43
1:A1:446:A:C6	1:A1:447:U:C4	3.07	0.43
1:A1:755:A:C4	1:A1:756:A:C8	3.06	0.43
1:A1:819:G:N1	1:A1:853:G:C2	2.87	0.43
1:A1:985:G:C6	1:A1:986:G:C5	3.07	0.43
29:B1:114:A:H2	29:B1:267:G:C4	2.36	0.43
29:B1:1175:C:P	29:B1:1175:C:H3'	2.58	0.43
29:B1:1294:A:C8	29:B1:1294:A:H5''	2.43	0.43
29:B1:1192:C:O4'	29:B1:1298:C:OP1	2.37	0.43
29:B1:1169:A:C6	29:B1:1330:A:N7	2.87	0.43
29:B1:1498:A:C5	29:B1:1499:C:C5	3.07	0.43
29:B1:158:G:H2'	29:B1:159:A:O5'	2.19	0.43
29:B1:1687:U:O2'	29:B1:1688:U:H4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1771:C:H2'	29:B1:1772:U:O4'	2.18	0.43
29:B1:1771:C:N4	29:B1:1772:U:C4	2.87	0.43
29:B1:1846:C:H5'	29:B1:1849:C:N4	2.34	0.43
29:B1:1896:A:C5	29:B1:3093:C:C5	3.06	0.43
29:B1:2148:U:O3'	29:B1:2149:A:N7	2.51	0.43
29:B1:2178:A:H1'	29:B1:2180:G:C4	2.54	0.43
29:B1:2151:C:O2	29:B1:2243:A:H2	2.02	0.43
29:B1:190:U:C6	29:B1:224:C:C1'	3.01	0.43
29:B1:2394:G:C4	34:BC:259:HIS:CB	3.02	0.43
29:B1:2812:C:C2	29:B1:2813:A:N7	2.87	0.43
29:B1:283:G:OP2	29:B1:285:A:C2'	2.66	0.43
29:B1:283:G:C2	29:B1:285:A:N6	2.87	0.43
29:B1:2864:A:C5	29:B1:2865:U:C4	3.07	0.43
29:B1:2932:U:C2'	29:B1:2933:A:O5'	2.67	0.43
29:B1:1304:A:C2	29:B1:2938:G:N3	2.85	0.43
29:B1:2966:G:O5'	29:B1:2966:G:H8	2.00	0.43
29:B1:2968:G:O2'	29:B1:2969:A:H5'	2.18	0.43
29:B1:2998:U:OP1	29:B1:2998:U:C6	2.71	0.43
29:B1:3060:C:C2	29:B1:3061:G:C8	3.07	0.43
29:B1:309:U:H5	29:B1:310:U:C5	2.36	0.43
29:B1:3149:G:N1	29:B1:3150:A:C4	2.87	0.43
29:B1:324:A:C5'	29:B1:325:A:OP2	2.67	0.43
29:B1:327:A:H8	29:B1:327:A:H5'	1.82	0.43
29:B1:3311:C:C2'	29:B1:3312:U:O4'	2.64	0.43
29:B1:3314:A:C2'	34:BC:119:TYR:H	2.27	0.43
29:B1:3342:A:C2'	29:B1:3343:G:O4'	2.66	0.43
29:B1:411:U:N3	31:B3:13:A:C2	2.86	0.43
29:B1:43:A:N7	29:B1:2803:A:C6	2.87	0.43
29:B1:517:G:C2'	29:B1:518:G:O4'	2.66	0.43
29:B1:688:G:C6	29:B1:690:A:C5	3.07	0.43
29:B1:722:G:C6	29:B1:748:U:N3	2.86	0.43
29:B1:779:G:C4	29:B1:780:A:N7	2.86	0.43
29:B1:86:G:H1	29:B1:98:G:H3'	1.84	0.43
29:B1:910:G:C3'	29:B1:911:C:H6	2.32	0.43
29:B1:8:C:O2	31:B3:152:G:N1	2.51	0.43
31:B3:1:A:C2	31:B3:2:A:N3	2.86	0.43
31:B3:43:A:H2'	31:B3:44:A:O4'	2.17	0.43
34:BC:257:PRO:CB	34:BC:258:ALA:C	2.87	0.43
38:BG:43:ILE:C	38:BG:45:LEU:H	2.22	0.43
38:BG:73:GLY:CA	38:BG:74:SER:C	2.86	0.43
44:BO:86:ASN:O	44:BO:88:GLY:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:104:A:N7	1:C1:106:U:C5	2.87	0.43
1:C1:288:A:O2'	1:C1:289:U:P	2.77	0.43
1:C1:590:C:C2	1:C1:591:A:C8	3.07	0.43
1:C1:66:U:HO2'	1:C1:67:A:P	2.41	0.43
1:C1:71:A:C1'	1:C1:72:A:OP1	2.67	0.43
1:C1:80:A:H3'	1:C1:81:G:C8	2.46	0.43
1:C1:956:C:N3	1:C1:957:G:N7	2.67	0.43
1:C1:985:G:O6	1:C1:986:G:O6	2.36	0.43
29:D1:1142:G:H3'	29:D1:1143:A:C5'	2.46	0.43
29:D1:1170:A:C8	29:D1:1170:A:H3'	2.54	0.43
29:D1:1207:G:H8	29:D1:1207:G:H5'	1.82	0.43
29:D1:1489:A:C2'	29:D1:1490:A:H8	2.32	0.43
29:D1:1511:U:H3'	29:D1:1512:U:C6	2.53	0.43
29:D1:1566:A:N7	29:D1:1568:U:N3	2.66	0.43
29:D1:1596:C:H2'	29:D1:1597:C:C5	2.53	0.43
29:D1:1833:G:C5	29:D1:1834:U:N3	2.87	0.43
29:D1:1846:C:H5'	29:D1:1849:C:N4	2.33	0.43
29:D1:2254:U:N3	74:D1:3583:OHX:N6	2.66	0.43
29:D1:1895:A:C2	29:D1:2335:G:O6	2.71	0.43
29:D1:2360:C:C6	29:D1:2360:C:OP2	2.72	0.43
29:D1:2375:G:C5	29:D1:2378:C:C5	3.07	0.43
29:D1:2741:C:H2'	29:D1:2742:C:O4'	2.19	0.43
29:D1:2743:A:C4	29:D1:2744:U:C5	3.07	0.43
29:D1:2630:C:O4'	29:D1:2758:A:H1'	2.19	0.43
29:D1:303:G:N2	29:D1:2778:G:C4	2.87	0.43
29:D1:3088:G:C5	29:D1:3089:C:C5	3.07	0.43
29:D1:3110:C:O2'	29:D1:3111:U:H5'	2.19	0.43
29:D1:3153:U:O4	29:D1:3160:U:H1'	2.17	0.43
29:D1:3304:U:C4	34:DC:333:LYS:O	2.71	0.43
29:D1:3321:C:N4	29:D1:3386:G:H22	2.16	0.43
29:D1:3321:C:N1	29:D1:3322:A:C8	2.84	0.43
29:D1:3333:G:H1	29:D1:3370:A:C1'	2.31	0.43
29:D1:733:G:C2	29:D1:736:A:N1	2.86	0.43
29:D1:66:A:C2	29:D1:77:A:O3'	2.71	0.43
29:D1:926:A:C2	29:D1:927:C:C2	3.07	0.43
31:D3:130:C:H2'	31:D3:131:A:C8	2.51	0.43
29:D1:419:G:C2	31:D3:5:U:O2	2.72	0.43
29:D1:44:U:P	44:DO:83:LYS:CB	3.07	0.43
29:D1:40:A:C6	54:DY:30:GLY:HA2	2.53	0.43
1:A1:834:G:H2'	1:A1:835:U:O4'	2.19	0.43
1:A1:647:G:OP1	1:A1:647:G:H4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:748:U:H3	1:C1:801:G:H1	1.66	0.43
29:B1:2688:U:O2'	29:B1:2689:A:OP1	2.27	0.43
29:B1:966:U:C2'	29:B1:967:A:H8	2.23	0.43
29:B1:992:A:O2'	49:BT:59:GLY:HA3	2.19	0.43
30:B2:60:G:H2'	30:B2:61:G:C8	2.44	0.43
1:C1:1681:A:C8	1:C1:1682:U:N3	2.87	0.43
1:C1:1716:C:C2	1:C1:1717:G:C8	3.07	0.43
1:C1:328:A:N6	1:C1:341:A:H61	2.16	0.43
29:D1:2676:A:C2'	29:D1:2677:G:OP1	2.66	0.43
42:DK:50:ALA:HB3	42:DK:63:GLU:N	2.09	0.43
1:A1:1686:C:C4	1:A1:1687:U:O4	2.71	0.43
1:A1:1685:G:C2	1:A1:1719:A:N1	2.87	0.43
1:A1:1723:U:N3	1:A1:1724:U:C5	2.86	0.43
1:A1:328:A:H61	1:A1:341:A:N6	2.16	0.43
1:C1:1377:U:O2	1:C1:1378:U:O4'	2.37	0.43
1:C1:1438:G:C5	1:C1:1439:C:C4	3.07	0.43
1:C1:1455:G:C6	1:C1:1456:C:N4	2.83	0.43
1:C1:1584:G:C3'	1:C1:1584:G:C4	2.99	0.43
1:A1:1196:A:O4'	1:A1:1197:C:O5'	2.37	0.43
1:A1:1254:U:O2'	1:A1:1255:G:OP2	2.37	0.43
1:A1:1486:G:H1'	1:A1:1592:A:O2'	2.18	0.43
1:A1:1366:U:O4	74:A1:1935:OHX:N6	2.52	0.43
30:B2:95:A:O2'	30:B2:96:U:O5'	2.36	0.43
29:D1:3195:U:C2'	29:D1:3196:U:O2	2.43	0.43
29:D1:3197:G:H2'	29:D1:3198:U:OP1	2.18	0.43
30:D2:26:C:H2'	30:D2:27:A:C8	2.54	0.43
30:B2:31:U:C5	30:B2:32:U:C5	3.07	0.43
30:B2:35:C:N4	30:B2:47:C:C1'	2.52	0.43
29:D1:1414:G:H2'	29:D1:1415:U:O4'	2.18	0.43
29:D1:1421:G:N2	29:D1:1422:G:C5	2.87	0.43
29:D1:184:U:N3	29:D1:185:C:C5	2.87	0.43
29:D1:371:G:N1	29:D1:373:A:H3'	2.33	0.43
29:B1:1239:C:C5	29:B1:1240:A:C4	3.07	0.43
29:D1:3260:G:C8	29:D1:3260:G:OP2	2.71	0.43
29:D1:3262:U:C2	29:D1:3263:G:N7	2.87	0.43
29:B1:1593:A:N3	29:B1:1615:C:O2'	2.45	0.43
29:D1:1254:C:C2	29:D1:1263:A:C2	3.07	0.43
29:B1:2212:C:O2'	29:B1:2233:A:N6	2.51	0.43
4:AC:10:LYS:O	4:AC:13:ALA:HB3	2.19	0.43
29:D1:3246:G:H2'	29:D1:3247:G:C8	2.47	0.43
31:B3:30:C:C2'	31:B3:31:G:O5'	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1334:U:H2'	1:C1:1334:U:O2	2.19	0.43
1:C1:1649:G:N7	74:C1:1997:OHX:N4	2.67	0.43
29:D1:3143:C:H6	29:D1:3143:C:H5'	1.84	0.43
29:D1:2210:G:C5	29:D1:2211:U:C5	3.06	0.43
33:BB:53:GLY:C	33:BB:54:ARG:O	2.57	0.43
29:D1:2504:U:C5	29:D1:2505:U:C5	3.06	0.43
29:D1:645:A:N7	29:D1:649:A:C5	2.87	0.43
1:A1:1660:A:H2'	1:A1:1661:U:O4'	2.18	0.43
1:A1:1324:G:O6	1:A1:1325:A:N7	2.52	0.43
29:D1:1715:A:N7	29:D1:1716:U:O4'	2.52	0.43
1:C1:1657:U:C4	74:C1:1955:OHX:N5	2.87	0.43
29:B1:1703:U:H1'	29:B1:1743:G:C6	2.54	0.43
29:B1:1348:U:HO2'	29:B1:1349:G:H8	1.67	0.43
9:CH:57:PRO:O	9:CH:59:ALA:N	2.52	0.43
6:AE:61:THR:CB	6:AE:62:ARG:CA	2.96	0.43
6:AE:61:THR:CB	6:AE:62:ARG:O	2.67	0.43
5:CD:111:VAL:O	5:CD:112:ARG:C	2.56	0.43
17:CP:132:LEU:N	17:CP:133:LEU:C	2.71	0.43
29:B1:1357:G:C2	29:B1:1358:C:C2	3.06	0.43
29:B1:1357:G:H3'	29:B1:1358:C:H6	1.83	0.43
29:B1:853:G:H2'	29:B1:854:G:O4'	2.18	0.43
34:BC:64:GLY:O	34:BC:65:SER:CB	2.67	0.43
29:B1:1543:G:C2	29:B1:1544:G:N7	2.86	0.43
34:DC:62:ARG:O	34:DC:63:PRO:C	2.57	0.43
29:D1:1363:A:H2'	29:D1:1364:C:C6	2.54	0.43
1:A1:375:U:O2	1:A1:375:U:C2'	2.64	0.43
13:AL:62:THR:O	13:AL:65:GLU:CB	2.66	0.43
20:AS:24:CYS:O	74:AS:101:OHX:N2	2.52	0.43
3:CB:126:ARG:O	3:CB:127:ALA:C	2.57	0.43
29:D1:1721:U:O2	29:D1:1723:A:C8	2.72	0.43
1:C1:1358:G:C2	1:C1:1359:C:C5	3.07	0.43
40:DI:86:TYR:CB	40:DI:87:LYS:CB	2.96	0.43
35:DD:118:LYS:HA	35:DD:121:ALA:HB3	2.01	0.43
1:C1:568:G:C2	1:C1:569:C:C5	3.06	0.43
1:C1:568:G:N1	1:C1:569:C:C5	2.86	0.43
21:CT:116:ASP:O	21:CT:118:LYS:N	2.51	0.43
47:BR:80:THR:N	47:BR:136:ASN:O	2.44	0.43
38:DG:161:VAL:O	38:DG:165:ASP:CB	2.66	0.43
1:A1:903:U:O4	9:AH:50:ALA:O	2.36	0.43
29:D1:2568:C:H2'	29:D1:2569:A:H4'	2.01	0.43
2:AA:51:GLY:O	2:AA:54:TRP:N	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DC:27:ALA:HB2	34:DC:219:ALA:CA	2.48	0.43
2:CA:63:ILE:C	2:CA:65:ALA:N	2.71	0.43
53:BX:23:PRO:O	53:BX:24:SER:C	2.57	0.43
32:BA:188:ASN:C	32:BA:190:PHE:N	2.72	0.43
40:BI:44:THR:C	40:BI:45:PHE:O	2.54	0.43
29:B1:630:A:H5'	29:B1:631:U:OP2	2.18	0.43
35:BD:130:ALA:O	35:BD:132:ALA:N	2.52	0.43
12:AK:7:LYS:C	12:AK:9:VAL:N	2.72	0.43
17:AP:79:ASN:C	17:AP:81:LYS:N	2.72	0.43
38:DG:39:GLU:O	38:DG:40:LYS:C	2.57	0.43
45:DP:49:ARG:C	45:DP:51:LYS:N	2.69	0.43
1:C1:503:G:C5	1:C1:504:U:C6	3.07	0.43
44:BO:137:PRO:C	44:BO:139:HIS:N	2.72	0.43
4:CC:56:GLN:C	4:CC:58:VAL:N	2.65	0.43
21:CT:27:ALA:O	21:CT:28:GLY:O	2.37	0.43
5:CD:183:ALA:O	5:CD:184:PHE:CB	2.66	0.43
11:AJ:137:ARG:O	11:AJ:138:PHE:O	2.37	0.43
21:AT:297:ASP:O	21:AT:299:GLN:N	2.52	0.43
11:CJ:74:HIS:O	11:CJ:77:GLN:N	2.51	0.43
17:CP:53:VAL:CB	17:CP:100:ASP:O	2.67	0.43
16:CO:7:LEU:C	16:CO:9:ASP:N	2.71	0.43
21:AT:279:ALA:HA	74:AT:401:OHX:N5	2.34	0.43
73:DM:67:LEU:O	73:DM:68:SER:C	2.56	0.43
16:CO:70:ASN:HA	16:CO:71:LYS:HA	1.42	0.43
13:AL:53:ASP:O	13:AL:56:LYS:N	2.48	0.43
37:BF:27:PRO:O	37:BF:29:LYS:N	2.52	0.43
1:C1:794:U:H2'	1:C1:794:U:O2	2.18	0.43
34:BC:327:CYS:O	34:BC:328:ILE:C	2.57	0.43
3:CB:97:ARG:O	3:CB:98:PHE:CB	2.66	0.43
1:A1:1086:A:C2	1:A1:1141:G:N3	2.86	0.43
1:A1:1118:G:C4	1:A1:1119:G:C8	3.07	0.43
1:A1:119:A:H1'	1:A1:397:A:C8	2.54	0.43
1:A1:1671:A:C4	1:A1:1731:A:N1	2.87	0.43
1:A1:1764:C:H5'	1:A1:1767:G:C8	2.54	0.43
1:A1:614:C:N3	1:A1:615:A:C8	2.87	0.43
29:B1:65:A:H2'	29:B1:111:C:C5	2.54	0.43
29:B1:1295:G:C5	29:B1:1296:C:C4	3.06	0.43
29:B1:1317:A:OP2	29:B1:1317:A:H3'	2.19	0.43
29:B1:1415:U:C2	29:B1:1416:C:C6	3.07	0.43
29:B1:1432:C:O2'	29:B1:1433:A:H3'	2.19	0.43
29:B1:145:G:N3	29:B1:145:G:C2'	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1499:C:N3	29:B1:1500:G:N7	2.67	0.43
29:B1:120:G:N1	29:B1:150:A:H5''	2.34	0.43
29:B1:157:A:C2'	29:B1:158:G:C8	3.02	0.43
29:B1:1690:C:C4	29:B1:1691:U:C5	3.06	0.43
29:B1:198:A:C2	29:B1:219:A:N7	2.86	0.43
29:B1:206:G:N2	29:B1:207:U:H1'	2.34	0.43
29:B1:208:C:C2'	29:B1:209:A:O5'	2.66	0.43
29:B1:2113:A:H2'	29:B1:2114:C:H5''	1.96	0.43
29:B1:2114:C:C4'	29:B1:2116:G:C4	3.00	0.43
29:B1:2152:A:H1'	29:B1:2243:A:C2	2.54	0.43
29:B1:2201:G:C4	29:B1:2202:C:C6	3.07	0.43
29:B1:2247:G:C6	29:B1:2248:C:N4	2.87	0.43
29:B1:2257:C:O4'	29:B1:2257:C:O2	2.36	0.43
29:B1:2390:A:C2	29:B1:2990:G:C2	3.07	0.43
29:B1:2659:G:H2'	29:B1:2660:G:H8	1.84	0.43
29:B1:2749:G:C6	29:B1:2750:U:C4	3.07	0.43
29:B1:2824:G:H5''	29:B1:2825:C:P	2.59	0.43
29:B1:2830:G:H2'	29:B1:2831:G:O5'	2.19	0.43
29:B1:2856:G:N2	29:B1:2857:C:C2	2.87	0.43
29:B1:2946:A:C2'	29:B1:2982:A:N7	2.81	0.43
29:B1:3014:U:O2	29:B1:3041:U:O2	2.36	0.43
29:B1:3064:U:C2'	29:B1:3065:G:H5'	2.49	0.43
29:B1:3110:C:C4	29:B1:3111:U:C5	3.06	0.43
74:B1:3536:OHX:N4	44:BO:84:PRO:CA	2.80	0.43
29:B1:37:U:N3	29:B1:38:U:C4	2.87	0.43
29:B1:561:C:O2'	29:B1:562:C:P	2.76	0.43
29:B1:570:A:C4	29:B1:571:U:C6	3.07	0.43
29:B1:576:C:HO2'	29:B1:577:C:H5''	1.84	0.43
29:B1:596:C:C4'	29:B1:596:C:O2	2.66	0.43
29:B1:645:A:H1'	29:B1:647:A:OP2	2.19	0.43
29:B1:706:A:C6	29:B1:714:G:C2	3.07	0.43
29:B1:717:C:N4	29:B1:721:G:OP1	2.52	0.43
29:B1:723:U:C6	29:B1:723:U:C4'	3.01	0.43
29:B1:901:G:N3	29:B1:902:G:C8	2.87	0.43
34:BC:118:PHE:CB	34:BC:119:TYR:O	2.67	0.43
1:C1:977:A:C2	1:C1:1025:A:C2	3.06	0.43
1:C1:1113:A:C2	1:C1:1115:U:C4	3.06	0.43
1:C1:130:C:H3'	1:C1:131:C:C5'	2.49	0.43
1:C1:172:C:O2	1:C1:173:A:C1'	2.67	0.43
1:C1:1793:G:O2'	1:C1:1794:A:OP2	2.36	0.43
1:C1:283:U:H3'	1:C1:284:G:C4'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:60:U:O5'	1:C1:454:U:O4'	2.37	0.43
1:C1:47:A:O5'	1:C1:48:G:H5''	2.18	0.43
1:C1:482:U:C3'	1:C1:483:A:C8	3.02	0.43
1:C1:539:G:H5''	1:C1:543:C:H41	1.83	0.43
1:C1:635:A:H61	1:C1:861:U:H3	1.65	0.43
1:C1:768:C:C2	6:CE:143:ILE:CB	3.02	0.43
29:D1:65:A:C2'	29:D1:111:C:H41	2.31	0.43
29:D1:1562:C:H2'	29:D1:1563:C:O4'	2.19	0.43
29:D1:158:G:H2''	29:D1:159:A:O5'	2.18	0.43
29:D1:1594:A:H5''	29:D1:1595:U:OP2	2.19	0.43
29:D1:1841:A:C6	29:D1:1848:G:C5	3.07	0.43
29:D1:1480:G:N1	29:D1:1871:U:P	2.92	0.43
29:D1:1881:A:C4	29:D1:1882:G:C8	3.06	0.43
29:D1:1904:C:C4	29:D1:1905:G:N7	2.87	0.43
29:D1:1941:C:OP2	48:DS:75:HIS:CA	2.67	0.43
29:D1:2221:G:N2	29:D1:2223:A:H2'	2.34	0.43
29:D1:2311:G:C2'	29:D1:2312:A:O5'	2.66	0.43
29:D1:1895:A:C5	29:D1:2335:G:N7	2.87	0.43
29:D1:2395:G:C2'	29:D1:2396:G:C5'	2.94	0.43
29:D1:259:C:H2'	29:D1:260:C:C6	2.52	0.43
29:D1:2639:G:N1	29:D1:2640:A:C5	2.87	0.43
29:D1:2728:G:C2	29:D1:2729:U:C5	3.07	0.43
29:D1:2813:A:N1	29:D1:2814:G:C5	2.86	0.43
29:D1:2838:A:N1	29:D1:2851:A:C8	2.87	0.43
29:D1:2897:A:N7	29:D1:2899:C:C1'	2.82	0.43
29:D1:2393:G:H2'	29:D1:2947:G:H5''	2.01	0.43
29:D1:307:A:H2'	29:D1:308:A:O4'	2.19	0.43
29:D1:3093:C:O2'	29:D1:3094:A:O5'	2.34	0.43
29:D1:3122:A:N1	40:DI:70:THR:CB	2.82	0.43
29:D1:3311:C:C2'	29:D1:3312:U:O4'	2.66	0.43
29:D1:3328:G:N3	29:D1:3328:G:C2'	2.77	0.43
29:D1:3330:A:C6	29:D1:3331:U:O4	2.72	0.43
29:D1:3371:G:O6	29:D1:3372:A:C2	2.71	0.43
29:D1:512:U:C2	29:D1:579:G:N2	2.84	0.43
29:D1:531:G:N1	29:D1:560:G:N2	2.64	0.43
29:D1:557:A:H3'	29:D1:557:A:H8	1.79	0.43
29:D1:569:A:H2'	29:D1:570:A:C5'	2.48	0.43
29:D1:699:A:H3'	29:D1:699:A:H8	1.81	0.43
29:D1:780:A:N6	29:D1:781:G:C6	2.86	0.43
29:D1:78:U:H2'	29:D1:79:U:H5'	2.00	0.43
1:C1:973:A:O2'	29:D1:848:A:H1'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:87:U:O2	29:D1:87:U:C2'	2.67	0.43
29:D1:880:G:OP2	46:DQ:131:ARG:CB	2.67	0.43
29:D1:900:G:H2'	29:D1:901:G:C8	2.53	0.43
31:D3:116:G:C2'	31:D3:117:C:O5'	2.67	0.43
31:D3:76:C:N4	53:DX:75:ARG:CB	2.82	0.43
31:D3:88:A:C8	31:D3:89:A:N1	2.86	0.43
1:A1:740:A:N1	1:A1:741:C:C4	2.87	0.43
1:C1:230:C:O2'	1:C1:231:U:H5'	2.19	0.43
1:A1:647:G:C6	1:A1:687:G:C6	3.07	0.43
1:C1:807:A:C8	1:C1:807:A:C5'	3.02	0.43
30:B2:15:C:C2	30:B2:66:A:C2	3.06	0.43
31:B3:65:A:N6	31:B3:66:A:N6	2.67	0.43
31:B3:76:C:N4	53:BX:75:ARG:CB	2.82	0.43
1:A1:139:C:C5	1:A1:176:C:C2	3.06	0.43
1:A1:186:C:N4	1:A1:187:G:C6	2.80	0.43
30:D2:18:C:N4	30:D2:19:C:N4	2.67	0.43
1:C1:111:U:O4	1:C1:112:A:N6	2.52	0.43
1:C1:330:G:C4	1:C1:331:A:N7	2.87	0.43
29:B1:2671:A:C6	29:B1:2672:G:N7	2.86	0.43
45:BP:124:LEU:CA	45:BP:125:ARG:C	2.80	0.43
1:C1:1204:A:C5	1:C1:1205:C:C2	3.07	0.43
1:C1:1205:C:C5	1:C1:1206:U:O2	2.71	0.43
1:C1:1239:U:H2'	1:C1:1240:U:C5	2.54	0.43
1:C1:1271:G:C6	1:C1:1272:U:C4	3.06	0.43
1:C1:1372:U:O2	1:C1:1373:C:H1'	2.18	0.43
1:C1:1452:U:C2	1:C1:1453:G:C8	3.07	0.43
1:C1:1491:U:O2'	1:C1:1492:A:C8	2.72	0.43
1:C1:1493:A:OP2	1:C1:1494:C:O5'	2.36	0.43
1:C1:1615:C:H3'	1:C1:1616:G:C5'	2.49	0.43
1:A1:1201:G:OP2	1:A1:1201:G:C5	2.72	0.43
1:A1:1431:C:H4'	1:A1:1432:U:H5'	2.00	0.43
1:A1:1529:C:H2'	1:A1:1530:C:C6	2.54	0.43
1:A1:1558:U:H5	1:A1:1559:A:H3'	1.84	0.43
29:B1:1461:A:C4	29:B1:1462:A:N7	2.87	0.43
29:D1:3205:G:OP2	29:D1:3206:C:OP2	2.36	0.43
29:D1:405:U:C5	29:D1:406:G:N9	2.87	0.43
29:B1:3234:A:H2	29:B1:3253:G:N2	2.10	0.43
30:B2:46:A:C4	30:B2:46:A:C3'	3.02	0.43
29:B1:3026:G:H3'	29:B1:3026:G:C8	2.53	0.43
29:D1:222:A:H2'	29:D1:222:A:N3	2.34	0.43
30:B2:22:A:C5	30:B2:23:A:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B2:26:C:O2'	30:B2:27:A:C5'	2.67	0.43
29:B1:2770:G:C6	29:B1:2771:U:O4	2.72	0.43
29:D1:2588:U:C5'	29:D1:2589:G:OP2	2.62	0.43
1:C1:417:A:H8	1:C1:417:A:P	2.41	0.43
29:B1:2513:U:C5	29:B1:2591:A:N6	2.84	0.43
1:C1:1341:A:N3	1:C1:1341:A:C2'	2.79	0.43
29:B1:1062:A:P	29:B1:1063:G:O6	2.76	0.43
29:B1:1067:U:H5''	29:B1:1068:C:OP2	2.18	0.43
1:A1:180:A:O2'	1:A1:181:A:C8	2.71	0.43
1:A1:1407:U:H2'	1:A1:1408:G:O4'	2.19	0.43
29:D1:1083:G:C2'	29:D1:1084:A:O5'	2.66	0.43
9:AH:25:ASP:O	9:AH:26:THR:CB	2.66	0.43
1:A1:898:A:N6	1:A1:914:G:C2	2.87	0.43
1:C1:898:A:N6	1:C1:914:G:C2	2.86	0.43
29:B1:2583:C:H2'	29:B1:2584:G:N7	2.32	0.43
36:BE:43:LYS:N	49:BT:70:SER:N	2.67	0.43
29:D1:1714:A:C5	29:D1:1728:G:C6	3.06	0.43
29:D1:1731:A:C6	29:D1:1732:U:N3	2.86	0.43
29:B1:1335:C:C4	29:B1:1336:U:C5	3.06	0.43
29:D1:1217:A:H2'	29:D1:1217:A:N3	2.34	0.43
1:C1:1665:U:H1'	1:C1:1737:G:N2	2.34	0.43
29:D1:2601:A:C2	29:D1:2602:G:C5	3.07	0.43
42:BK:89:TYR:CB	42:BK:168:ASP:CB	2.97	0.43
36:BE:87:GLY:O	36:BE:88:ILE:CB	2.66	0.43
1:C1:121:U:C2	1:C1:122:U:H1'	2.54	0.43
2:AA:13:ASP:C	2:AA:17:LEU:O	2.57	0.43
29:B1:1586:G:H8	29:B1:1586:G:O5'	2.02	0.43
45:DP:142:SER:O	45:DP:143:THR:C	2.55	0.43
52:BW:69:SER:N	52:BW:72:ALA:HB3	2.24	0.43
1:C1:722:G:C4	1:C1:723:G:C8	3.07	0.43
29:B1:1818:U:H2'	29:B1:1819:U:C6	2.54	0.43
29:B1:601:U:C4	29:B1:602:A:C8	3.06	0.43
46:BQ:99:ALA:O	46:BQ:102:ALA:N	2.51	0.43
29:D1:600:G:N2	29:D1:604:G:C5	2.86	0.43
29:B1:299:G:H2'	29:B1:300:G:O4'	2.18	0.43
1:C1:880:C:C2	1:C1:881:A:C8	3.06	0.43
29:D1:1358:C:N3	29:D1:1359:C:C5	2.87	0.43
1:C1:929:A:C5	1:C1:930:A:C5	3.06	0.43
1:A1:1068:C:C2	1:A1:1069:A:C8	3.06	0.43
1:C1:708:C:C4	1:C1:709:C:O2	2.71	0.43
73:DM:13:ALA:O	73:DM:17:GLU:CB	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2571:U:C2'	29:D1:2571:U:O2	2.64	0.43
8:AG:107:LYS:O	8:AG:109:LYS:N	2.45	0.43
7:CF:110:HIS:CB	7:CF:111:VAL:CB	2.96	0.43
15:AN:25:THR:H	15:AN:115:GLU:CB	2.32	0.43
29:B1:1867:A:C5	29:B1:1868:G:C5	3.07	0.43
8:AG:93:LYS:O	8:AG:94:LYS:C	2.57	0.43
29:B1:2741:C:H6	29:B1:2741:C:O5'	2.02	0.43
29:B1:790:U:C2'	29:B1:791:A:O5'	2.67	0.43
37:DF:164:SER:CA	38:DG:182:ASP:CB	2.94	0.43
8:AG:84:ILE:HA	8:AG:85:PRO:HA	1.83	0.43
2:AA:84:ARG:O	2:AA:86:VAL:N	2.52	0.43
50:DU:81:GLN:O	50:DU:82:ALA:CB	2.65	0.43
4:AC:56:GLN:C	4:AC:58:VAL:N	2.69	0.43
52:BW:61:LYS:CB	52:BW:62:VAL:CA	2.96	0.43
40:BI:104:VAL:CB	40:BI:105:GLU:CB	2.97	0.43
21:AT:86:ASP:O	21:AT:87:LYS:CB	2.66	0.43
48:DS:12:ALA:C	48:DS:14:VAL:N	2.71	0.43
8:AG:117:LEU:C	8:AG:119:GLU:N	2.70	0.43
3:AB:154:LEU:CB	3:AB:169:LEU:C	2.87	0.43
32:BA:126:PRO:O	32:BA:128:LEU:N	2.52	0.43
74:B1:3552:OHX:N6	74:B1:3615:OHX:N3	2.66	0.43
55:DZ:10:ILE:C	55:DZ:12:GLN:N	2.71	0.43
34:BC:288:GLY:H	34:BC:291:GLU:CB	2.32	0.43
17:AP:52:ILE:O	17:AP:74:VAL:CB	2.67	0.43
4:CC:161:GLY:O	4:CC:163:PRO:N	2.51	0.43
49:DT:18:ASP:O	49:DT:19:PHE:CB	2.66	0.43
21:AT:207:ASP:C	21:AT:209:THR:H	2.22	0.43
48:DS:30:SER:O	48:DS:33:ALA:HB3	2.19	0.43
48:BS:93:VAL:O	48:BS:94:VAL:C	2.57	0.43
10:CI:75:PRO:O	10:CI:93:VAL:O	2.36	0.43
1:A1:1033:C:O2'	1:A1:1034:C:H5'	2.19	0.43
1:A1:104:A:C5	1:A1:106:U:C6	3.06	0.43
1:A1:1121:C:O2	1:A1:1127:G:C2	2.72	0.43
1:A1:1116:A:C5	1:A1:1131:A:N7	2.87	0.43
1:A1:511:A:H4'	1:A1:511:A:OP1	2.15	0.43
1:A1:514:G:N7	1:A1:538:A:H2	2.16	0.43
29:B1:1130:A:C8	29:B1:1130:A:H5'	2.54	0.43
29:B1:1287:A:N6	29:B1:1288:U:O4	2.52	0.43
29:B1:1302:A:C1'	29:B1:2887:A:H2	2.27	0.43
29:B1:1317:A:C5	29:B1:1319:G:C8	3.07	0.43
29:B1:220:G:C6	29:B1:1389:G:C2	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1412:G:C4	29:B1:1413:G:N7	2.83	0.43
29:B1:1555:U:H5''	29:B1:1580:A:N1	2.34	0.43
29:B1:1656:A:O4'	29:B1:1657:C:C4	2.72	0.43
29:B1:1688:U:C3'	29:B1:1689:U:C5	3.02	0.43
29:B1:2136:C:H2'	29:B1:2137:U:C6	2.54	0.43
29:B1:198:A:N1	29:B1:219:A:C4	2.87	0.43
29:B1:2262:A:C3'	29:B1:2263:C:C5'	2.88	0.43
29:B1:2243:A:C6	29:B1:2313:A:N7	2.87	0.43
29:B1:2659:G:H4'	29:B1:2751:G:O2'	2.19	0.43
29:B1:2712:U:H2'	29:B1:2713:U:O5'	2.18	0.43
29:B1:2810:C:OP1	29:B1:2810:C:H4'	2.19	0.43
29:B1:1302:A:C2'	29:B1:2887:A:C2	3.01	0.43
29:B1:2919:A:H2'	29:B1:2920:U:H5''	2.01	0.43
29:B1:3055:U:C2	29:B1:3085:G:C2	3.07	0.43
29:B1:3105:U:H5	29:B1:3128:G:N2	2.00	0.43
29:B1:373:A:N6	29:B1:375:A:N6	2.66	0.43
29:B1:408:A:N1	29:B1:409:A:N1	2.67	0.43
29:B1:413:U:O5'	29:B1:413:U:C6	2.72	0.43
29:B1:574:U:H6	29:B1:574:U:H5'	1.84	0.43
29:B1:612:U:O2	29:B1:613:G:C5	2.72	0.43
29:B1:635:G:C2'	29:B1:636:C:H5'	2.48	0.43
29:B1:83:U:C2'	29:B1:84:U:H5'	2.48	0.43
44:BO:84:PRO:O	44:BO:86:ASN:CB	2.67	0.43
1:C1:1025:A:H2'	1:C1:1027:A:O5'	2.19	0.43
1:C1:1645:G:C2	1:C1:1757:G:C2	3.07	0.43
1:C1:186:C:N4	1:C1:187:G:C6	2.79	0.43
1:C1:195:G:C4'	1:C1:196:G:OP1	2.67	0.43
1:C1:282:C:C2'	1:C1:282:C:O2	2.66	0.43
1:C1:379:U:OP2	1:C1:380:U:P	2.77	0.43
1:C1:38:C:O5'	1:C1:38:C:H6	2.02	0.43
1:C1:445:A:H1'	1:C1:524:U:O3'	2.19	0.43
1:C1:539:G:N7	1:C1:542:A:N6	2.66	0.43
1:C1:555:A:H4'	1:C1:556:A:OP2	2.18	0.43
1:C1:371:G:N2	1:C1:612:U:C2	2.87	0.43
1:C1:71:A:H2	1:C1:72:A:N6	2.11	0.43
1:C1:13:C:C5'	3:CB:162:CYS:HA	2.48	0.43
29:D1:107:A:C2'	29:D1:108:A:O5'	2.66	0.43
29:D1:109:A:O3'	29:D1:110:G:O4'	2.36	0.43
29:D1:117:U:H3'	29:D1:117:U:C6	2.54	0.43
29:D1:1213:G:C2	29:D1:1293:U:C2	3.06	0.43
29:D1:1296:C:H2'	29:D1:1297:C:O4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1316:C:H5'	29:D1:1317:A:H5''	2.01	0.43
29:D1:1343:A:H2'	29:D1:1344:G:C8	2.54	0.43
29:D1:1454:A:C2	29:D1:1484:U:O4	2.71	0.43
29:D1:1455:U:C3'	29:D1:1456:A:C8	2.94	0.43
29:D1:1539:A:C3'	29:D1:1540:U:H5'	2.48	0.43
29:D1:1555:U:H5''	29:D1:1580:A:N1	2.33	0.43
29:D1:1610:G:O2'	29:D1:1611:G:H5'	2.18	0.43
29:D1:1618:G:C2	29:D1:1619:A:C4	3.07	0.43
29:D1:1658:G:C2	29:D1:1659:U:C2	3.07	0.43
29:D1:165:A:N1	29:D1:257:U:O4	2.51	0.43
29:D1:1797:A:C6	29:D1:1798:A:C5	3.07	0.43
29:D1:1836:C:H2'	29:D1:1837:U:O4'	2.19	0.43
29:D1:1605:A:OP1	29:D1:1836:C:OP2	2.37	0.43
29:D1:2135:U:N3	29:D1:2136:C:C5	2.87	0.43
29:D1:2240:G:O2'	29:D1:2241:U:H5'	2.19	0.43
29:D1:2284:C:C2	29:D1:2308:C:C1'	3.01	0.43
29:D1:2632:G:C5	29:D1:2633:U:C5	3.07	0.43
29:D1:2633:U:C2'	29:D1:2634:U:H5'	2.45	0.43
29:D1:2704:A:HO2'	29:D1:2705:A:P	2.42	0.43
29:D1:1302:A:N9	29:D1:2887:A:C2	2.87	0.43
29:D1:2899:C:C2	40:DI:171:ASP:CB	3.02	0.43
29:D1:3048:A:C8	29:D1:3090:U:C4	3.06	0.43
29:D1:3111:U:O4	29:D1:3121:U:H5	2.02	0.43
29:D1:3327:G:C5	29:D1:3328:G:O6	2.72	0.43
29:D1:3369:G:O2'	29:D1:3370:A:P	2.77	0.43
29:D1:508:U:H2'	29:D1:508:U:O2	2.17	0.43
29:D1:528:U:N3	29:D1:564:G:N1	2.67	0.43
29:D1:673:U:C2'	29:D1:674:G:C5'	2.93	0.43
29:D1:780:A:C2	29:D1:781:G:C4	3.07	0.43
29:D1:88:A:N7	29:D1:99:A:N6	2.66	0.43
31:D3:100:U:H2'	31:D3:101:U:C6	2.54	0.43
31:D3:74:U:OP1	31:D3:76:C:C5	2.72	0.43
31:D3:9:A:C2	31:D3:10:A:N7	2.87	0.43
33:DB:170:ALA:O	33:DB:171:GLY:O	2.36	0.43
33:DB:184:ARG:O	33:DB:185:ALA:C	2.58	0.43
29:D1:3025:C:P	40:DI:96:HIS:CB	3.07	0.43
29:D1:943:U:OP2	54:DY:10:LYS:N	2.52	0.43
1:C1:228:G:C2	1:C1:229:U:O2	2.72	0.43
1:C1:690:G:C6	1:C1:691:C:C4	3.06	0.43
29:B1:2619:G:N3	29:B1:2619:G:H2'	2.34	0.43
29:B1:2620:G:H2'	29:B1:2621:G:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2665:U:H4'	29:B1:2666:C:OP1	2.18	0.43
29:B1:2690:G:O2'	29:B1:2691:A:P	2.74	0.43
29:B1:2704:A:HO2'	29:B1:2705:A:P	2.42	0.43
30:B2:9:C:C5	30:B2:10:C:H1'	2.54	0.43
31:B3:64:U:C2'	31:B3:64:U:O2	2.57	0.43
1:A1:125:U:C6	1:A1:125:U:C5'	3.02	0.43
1:A1:292:U:C6	1:A1:292:U:O5'	2.67	0.43
1:A1:71:A:H1'	1:A1:72:A:OP1	2.19	0.43
30:D2:106:U:O2'	30:D2:107:C:P	2.77	0.43
30:D2:14:U:P	30:D2:14:U:O4'	2.76	0.43
29:B1:2684:C:C6	29:B1:2684:C:C4'	2.96	0.43
1:A1:214:G:H3'	1:A1:215:A:C5'	2.49	0.43
1:A1:247:A:C3'	1:A1:247:A:C8	3.01	0.43
1:A1:328:A:N1	1:A1:329:G:C5	2.87	0.43
1:C1:1201:G:C3'	1:C1:1201:G:C4	3.02	0.43
1:C1:1241:G:N3	1:C1:1243:G:C8	2.85	0.43
1:C1:1345:A:H2	1:C1:1380:U:O4	2.02	0.43
1:C1:1472:C:OP1	1:C1:1472:C:H3'	2.19	0.43
1:C1:1474:G:C2	1:C1:1475:A:C6	3.07	0.43
1:C1:1497:U:C4	1:C1:1511:U:O2	2.72	0.43
1:C1:1348:A:O5'	15:CN:10:GLU:O	2.37	0.43
1:A1:1205:C:H6	1:A1:1206:U:O2	2.01	0.43
1:A1:1346:A:N7	1:A1:1347:U:N1	2.67	0.43
1:A1:1429:G:N3	1:A1:1430:U:C6	2.87	0.43
1:A1:1491:U:H3'	1:A1:1492:A:H5''	2.01	0.43
10:AI:78:THR:O	10:AI:79:HIS:C	2.57	0.43
13:AL:134:ARG:O	13:AL:135:GLY:C	2.58	0.43
14:AM:69:LYS:O	14:AM:70:GLN:CB	2.66	0.43
21:AT:288:HIS:O	21:AT:289:ALA:C	2.56	0.43
29:D1:406:G:C2	31:D3:16:G:C4	3.07	0.43
29:B1:3242:G:C2'	29:B1:3246:G:H22	2.32	0.43
29:D1:371:G:C8	29:D1:371:G:H3'	2.54	0.43
29:D1:375:A:C2'	29:D1:376:G:OP1	2.66	0.43
30:D2:38:U:H2'	30:D2:41:G:OP2	2.19	0.43
1:A1:692:C:N3	1:A1:693:U:N3	2.67	0.43
29:D1:1239:C:H6	29:D1:1239:C:OP2	2.02	0.43
29:B1:2592:G:C5	74:B1:3449:OHX:N4	2.86	0.43
29:D1:1624:G:N7	74:D1:3559:OHX:N1	2.67	0.43
1:C1:1332:C:O2'	1:C1:1333:C:C6	2.51	0.43
29:D1:2436:U:C5'	29:D1:2437:G:OP2	2.63	0.43
29:B1:2554:A:C2	33:BB:85:GLY:O	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1622:U:H2'	29:B1:1623:G:H8	1.84	0.43
1:C1:1752:U:C2	1:C1:1753:A:N7	2.87	0.43
1:A1:1334:U:H2'	1:A1:1335:U:H1'	2.01	0.43
29:D1:1073:U:C5'	29:D1:1074:U:OP2	2.67	0.43
1:C1:486:G:C6	1:C1:487:G:C4	3.07	0.43
43:DN:33:ALA:CB	43:DN:48:GLY:N	2.70	0.43
1:A1:1662:G:H2'	1:A1:1663:G:H8	1.83	0.43
29:B1:2880:U:H1'	34:BC:250:ALA:CB	2.48	0.43
1:C1:1284:C:O2	1:C1:1286:U:C2	2.72	0.43
29:B1:2737:C:P	49:BT:72:VAL:CB	3.07	0.43
34:DC:305:ILE:C	34:DC:307:PRO:N	2.71	0.43
29:D1:2601:A:H2'	29:D1:2602:G:H8	1.83	0.43
29:B1:1031:C:N4	29:B1:1032:C:C4	2.87	0.43
1:C1:782:U:C1'	1:C1:783:G:OP2	2.65	0.43
29:B1:1029:G:C2'	29:B1:1030:A:H5'	2.49	0.43
29:B1:1357:G:C4	29:B1:1358:C:C6	3.07	0.43
29:D1:1365:G:H8	29:D1:1365:G:OP2	2.02	0.43
1:A1:747:C:C2	1:A1:748:U:C5	3.07	0.43
45:DP:58:LEU:N	45:DP:60:LYS:H	2.17	0.43
3:CB:118:ALA:HB2	3:CB:124:ALA:CA	2.48	0.43
35:BD:115:HIS:O	35:BD:118:LYS:N	2.52	0.43
35:BD:190:GLY:C	35:BD:192:GLY:N	2.72	0.43
1:C1:929:A:C6	1:C1:930:A:C4	3.07	0.43
29:D1:1724:U:HO2'	29:D1:1725:C:C4'	2.32	0.43
46:DQ:52:LEU:O	46:DQ:53:ASP:C	2.57	0.43
29:D1:789:A:C2	29:D1:790:U:C4	3.07	0.43
1:C1:736:C:H2'	1:C1:737:A:O4'	2.19	0.43
29:D1:1050:U:O2	29:D1:1051:U:H5	2.02	0.43
10:AI:19:GLY:C	10:AI:21:ASP:N	2.73	0.43
1:A1:929:A:N7	1:A1:930:A:C5	2.87	0.43
42:DK:156:LYS:C	42:DK:158:ASP:N	2.72	0.43
29:B1:1306:G:O6	45:BP:63:ALA:HA	2.19	0.43
32:DA:55:LEU:H	32:DA:167:VAL:CA	2.28	0.43
1:A1:1622:G:N3	1:A1:1622:G:H2'	2.33	0.43
29:B1:789:A:N1	29:B1:790:U:C4	2.87	0.43
29:B1:2443:A:O2'	29:B1:2444:C:H5'	2.18	0.43
29:B1:2511:A:C2'	29:B1:2512:C:H5'	2.49	0.43
45:BP:22:VAL:O	45:BP:23:VAL:C	2.57	0.43
29:D1:2694:A:C5'	29:D1:2695:A:OP2	2.67	0.43
36:BE:173:VAL:O	36:BE:174:PRO:CB	2.66	0.43
3:AB:147:ASN:C	3:AB:149:GLY:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1671:C:C4	29:B1:1672:U:C5	3.07	0.43
29:B1:1759:C:C3'	29:B1:1760:A:H5''	2.49	0.43
52:DW:94:GLN:O	52:DW:97:LYS:N	2.52	0.43
55:DZ:50:VAL:O	55:DZ:53:LYS:CB	2.67	0.43
29:D1:633:C:O2'	29:D1:634:C:H5'	2.18	0.43
36:DE:289:LYS:O	36:DE:291:ALA:N	2.52	0.43
35:BD:144:LYS:O	35:BD:145:ILE:CB	2.66	0.43
51:BV:24:GLY:O	51:BV:25:ASP:O	2.35	0.43
15:AN:36:ASN:C	15:AN:38:SER:H	2.21	0.43
29:D1:148:G:H2'	29:D1:148:G:N3	2.33	0.43
14:AM:138:GLN:O	14:AM:142:GLU:CB	2.67	0.43
44:DO:173:GLY:HA3	44:DO:181:ASN:O	2.18	0.43
1:A1:1118:G:N3	1:A1:1119:G:C8	2.87	0.42
1:A1:364:G:H21	1:A1:381:C:C1'	2.31	0.42
1:A1:468:A:O3'	1:A1:469:C:C4	2.72	0.42
1:A1:518:A:H3'	1:A1:519:C:C5'	2.49	0.42
1:A1:604:A:H2'	1:A1:605:A:C1'	2.48	0.42
1:A1:756:A:C4	1:A1:757:A:C8	3.06	0.42
29:B1:1106:G:C4	29:B1:1107:C:C6	3.07	0.42
29:B1:118:U:H5'	29:B1:118:U:H6	1.83	0.42
29:B1:1194:G:C8	29:B1:1319:G:C4'	2.96	0.42
29:B1:1390:A:N6	29:B1:1418:A:O2'	2.49	0.42
29:B1:1528:G:C6	29:B1:1529:A:C5	3.07	0.42
29:B1:1560:G:C6	29:B1:1579:C:N3	2.87	0.42
29:B1:164:A:N6	29:B1:165:A:N1	2.66	0.42
29:B1:1891:A:C6	29:B1:2345:A:N6	2.87	0.42
29:B1:2249:G:N9	29:B1:2272:G:N7	2.66	0.42
29:B1:2285:C:C5	29:B1:2286:U:C6	3.07	0.42
29:B1:2186:U:H5'	29:B1:2314:U:OP2	2.18	0.42
29:B1:2325:G:C5	29:B1:2326:A:N7	2.87	0.42
29:B1:2654:C:H4'	29:B1:2657:A:C5	2.54	0.42
29:B1:2969:A:C4	29:B1:2970:C:C5	3.07	0.42
29:B1:3011:A:H1'	29:B1:3012:A:C4'	2.49	0.42
29:B1:3127:A:C4	29:B1:3128:G:C8	3.07	0.42
29:B1:31:C:C4	29:B1:32:U:C5	3.07	0.42
29:B1:64:G:C2	29:B1:322:U:C2	3.07	0.42
29:B1:3309:G:H2'	29:B1:3310:A:O4'	2.18	0.42
29:B1:1898:G:OP2	74:B1:3464:OHX:N3	2.52	0.42
74:B1:3492:OHX:N1	54:BY:19:LYS:C	2.73	0.42
29:B1:363:G:H3'	29:B1:364:G:C5'	2.49	0.42
29:B1:374:A:H4'	29:B1:375:A:H5'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:395:A:C6	29:B1:396:A:N6	2.87	0.42
29:B1:415:G:O6	31:B3:9:A:N6	2.52	0.42
29:B1:431:U:C2	29:B1:432:G:N7	2.87	0.42
29:B1:544:C:H2'	29:B1:545:U:H3'	2.00	0.42
29:B1:548:G:C5	29:B1:549:U:H1'	2.53	0.42
29:B1:571:U:C2'	29:B1:571:U:O2	2.65	0.42
29:B1:607:A:C6	29:B1:608:A:C4	3.05	0.42
29:B1:609:G:N7	29:B1:610:G:N1	2.67	0.42
29:B1:684:G:C4	29:B1:685:G:C8	3.07	0.42
29:B1:804:C:N3	29:B1:940:G:C2	2.87	0.42
29:B1:944:C:OP1	29:B1:1432:C:H5'	2.18	0.42
29:B1:947:G:C4	29:B1:948:C:C6	3.07	0.42
31:B3:145:U:C4	31:B3:146:U:N3	2.87	0.42
37:BF:32:ALA:O	37:BF:33:SER:O	2.37	0.42
1:C1:1045:C:N4	1:C1:1075:C:N3	2.67	0.42
1:C1:355:G:P	74:C1:1924:OHX:N3	2.92	0.42
1:C1:25:C:H5	1:C1:367:A:HO2'	1.66	0.42
1:C1:204:G:N2	1:C1:264:G:C2	2.87	0.42
1:C1:270:C:H2'	1:C1:271:A:O4'	2.19	0.42
1:C1:313:U:H4'	1:C1:314:C:C5'	2.49	0.42
1:C1:365:G:C4	1:C1:377:G:N1	2.86	0.42
1:C1:57:G:C4	1:C1:58:U:C6	3.07	0.42
1:C1:603:U:H2'	1:C1:604:A:H8	1.84	0.42
1:C1:65:A:H2	1:C1:84:A:N6	2.11	0.42
1:C1:78:A:C2	1:C1:78:A:OP1	2.72	0.42
29:D1:1054:A:C2	29:D1:1055:A:H1'	2.54	0.42
29:D1:1168:U:O4	29:D1:1330:A:C8	2.72	0.42
29:D1:118:U:C6	29:D1:118:U:C3'	3.02	0.42
29:D1:1296:C:C2'	29:D1:1297:C:O5'	2.66	0.42
29:D1:1298:C:H6	29:D1:1298:C:O5'	2.02	0.42
29:D1:1498:A:H2'	29:D1:1499:C:H6	1.83	0.42
29:D1:1590:G:C6	29:D1:1591:G:N7	2.87	0.42
29:D1:1779:C:C5'	29:D1:1780:G:O4'	2.66	0.42
29:D1:896:A:N7	29:D1:2134:G:H1'	2.34	0.42
29:D1:21:G:H2'	29:D1:21:G:N3	2.33	0.42
29:D1:2365:C:C2'	29:D1:2366:C:O5'	2.67	0.42
29:D1:648:C:H5	29:D1:2375:G:O5'	1.97	0.42
29:D1:2383:C:C6	29:D1:2384:A:N7	2.87	0.42
29:D1:2639:G:C2	29:D1:2640:A:C4	3.07	0.42
29:D1:2762:A:N6	29:D1:2800:G:H2'	2.33	0.42
29:D1:1199:C:C6	29:D1:2825:C:O5'	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3011:A:H8	29:D1:3012:A:C1'	2.15	0.42
29:D1:3024:A:C6	29:D1:3032:A:N3	2.87	0.42
29:D1:307:A:C2'	29:D1:308:A:H5'	2.48	0.42
29:D1:3320:A:C6	29:D1:3321:C:C4	3.05	0.42
29:D1:3329:U:O4	29:D1:3374:U:C4	2.72	0.42
29:D1:2311:G:OP2	74:D1:3408:OHX:N5	2.52	0.42
29:D1:345:G:O6	29:D1:348:A:OP1	2.37	0.42
29:D1:41:G:H1'	29:D1:2801:A:N6	2.34	0.42
29:D1:577:C:C6	29:D1:577:C:C5'	3.01	0.42
29:D1:62:A:C4	29:D1:63:A:N7	2.87	0.42
29:D1:692:A:C2	29:D1:693:A:C1'	3.01	0.42
29:D1:721:G:H2'	29:D1:722:G:OP2	2.18	0.42
29:D1:759:U:C2	29:D1:773:G:C2	3.06	0.42
29:D1:80:G:N1	29:D1:81:C:C5	2.87	0.42
1:C1:974:A:P	29:D1:848:A:O2'	2.76	0.42
29:D1:871:U:C2	29:D1:890:C:H1'	2.54	0.42
29:D1:880:G:C4	29:D1:882:A:C5	3.06	0.42
29:D1:951:A:O2'	29:D1:952:A:H5''	2.18	0.42
31:D3:106:C:O5'	31:D3:106:C:H6	2.02	0.42
31:D3:138:A:C2	31:D3:139:U:N1	2.84	0.42
29:D1:2386:A:N3	31:D3:3:A:H2	2.17	0.42
29:D1:3317:U:N3	34:DC:123:TYR:HA	2.24	0.42
37:DF:166:LYS:O	37:DF:167:ASN:O	2.36	0.42
44:DO:86:ASN:O	44:DO:87:GLN:C	2.56	0.42
1:A1:225:A:N1	1:A1:836:U:O2	2.52	0.42
1:A1:838:G:O6	74:A1:1917:OHX:N5	2.52	0.42
1:A1:841:U:C4	1:A1:842:C:N3	2.87	0.42
1:C1:837:G:O2'	1:C1:838:G:H5'	2.20	0.42
1:C1:809:A:C6	1:C1:810:G:C6	3.07	0.42
29:B1:2634:U:H1'	29:B1:2645:G:N1	2.34	0.42
29:B1:2726:C:H5''	29:B1:2727:A:C5'	2.44	0.42
30:B2:59:U:C2	30:B2:60:G:N7	2.87	0.42
30:B2:60:G:C4	30:B2:61:G:N7	2.87	0.42
31:B3:68:G:O2'	31:B3:69:U:H5'	2.19	0.42
1:A1:168:A:C5	1:A1:169:A:N6	2.87	0.42
1:A1:262:U:C4	1:A1:263:C:C4	3.06	0.42
1:A1:70:C:H3'	1:A1:71:A:H8	1.83	0.42
1:A1:87:C:H3'	1:A1:88:U:C5'	2.32	0.42
1:A1:89:G:H2'	1:A1:90:C:C6	2.50	0.42
1:C1:1687:U:C5	1:C1:1688:U:C2	3.07	0.42
1:C1:1683:C:O2	1:C1:1720:G:N7	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:339:C:N3	1:C1:340:U:C5	2.87	0.42
1:C1:341:A:C6	1:C1:342:C:N4	2.86	0.42
1:C1:1179:G:H3'	1:C1:1180:C:H6	1.84	0.42
1:C1:1232:U:O2'	1:C1:1233:G:H5'	2.19	0.42
1:A1:1369:U:O2	1:A1:1370:U:N3	2.52	0.42
1:A1:1556:A:C2'	1:A1:1560:U:C4	2.97	0.42
1:A1:1503:A:C2	10:AI:13:LYS:CB	3.02	0.42
1:A1:1515:A:C6	15:AN:16:GLN:O	2.72	0.42
30:B2:92:A:O2'	30:B2:93:C:H4'	2.19	0.42
29:B1:1461:A:N6	29:B1:1462:A:N6	2.67	0.42
29:B1:1465:A:C6	29:B1:1466:G:C2	3.07	0.42
30:D2:55:A:H2	30:D2:56:A:N3	2.17	0.42
30:B2:37:G:N2	30:B2:45:A:H61	2.17	0.42
29:D1:189:G:N3	29:D1:191:U:C5	2.87	0.42
31:B3:123:G:H3'	31:B3:124:G:C5'	2.47	0.42
1:C1:887:A:H2'	1:C1:888:U:C6	2.54	0.42
30:D2:33:U:O2'	30:D2:34:C:O4'	2.36	0.42
1:C1:156:A:H2	1:C1:419:G:H21	1.63	0.42
29:D1:1245:A:H4'	29:D1:1246:G:H5''	2.01	0.42
29:D1:1264:G:H2'	29:D1:1264:G:P	2.55	0.42
29:D1:1269:U:O4	29:D1:1272:C:C5	2.72	0.42
73:DM:34:SER:O	73:DM:35:SER:C	2.56	0.42
31:B3:25:G:H2'	31:B3:26:U:O5'	2.20	0.42
1:C1:1411:A:C5'	1:C1:1412:G:OP2	2.67	0.42
29:D1:1099:A:C6	29:D1:1100:U:N3	2.87	0.42
1:C1:1651:A:C2	1:C1:1652:C:C2	3.07	0.42
29:D1:2430:A:C2'	29:D1:2431:C:H5'	2.48	0.42
29:B1:1099:A:N6	29:B1:1100:U:C4	2.87	0.42
29:B1:1624:G:N2	29:B1:1625:A:C2	2.86	0.42
1:A1:1334:U:H2'	1:A1:1335:U:C6	2.54	0.42
1:A1:1390:U:O2	1:A1:1390:U:H2'	2.19	0.42
29:B1:1714:A:C6	29:B1:1728:G:C6	3.07	0.42
29:B1:1728:G:C4'	29:B1:1729:A:OP2	2.65	0.42
29:B1:1731:A:C5	29:B1:1732:U:C6	3.07	0.42
1:C1:916:U:H3'	1:C1:916:U:H6	1.84	0.42
29:B1:1668:G:O2'	29:B1:1669:C:H5'	2.18	0.42
1:A1:1733:C:H2'	1:A1:1734:U:C6	2.54	0.42
29:D1:1913:A:C6	29:D1:2120:A:N7	2.87	0.42
11:CJ:91:ALA:HB3	11:CJ:96:TYR:O	2.19	0.42
29:D1:1351:U:O2	29:D1:1352:A:C6	2.72	0.42
1:A1:782:U:H4'	1:A1:783:G:C5'	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:164:PRO:C	5:AD:166:ARG:N	2.72	0.42
29:B1:1347:U:H6	29:B1:1347:U:P	2.42	0.42
29:B1:1352:A:OP2	29:B1:1352:A:C8	2.72	0.42
6:CE:61:THR:CB	6:CE:62:ARG:CA	2.97	0.42
54:DY:111:LYS:O	54:DY:112:ILE:C	2.58	0.42
36:DE:241:THR:O	36:DE:243:ALA:C	2.57	0.42
1:C1:1774:G:N7	1:C1:1775:U:C4	2.87	0.42
29:D1:1021:G:N2	29:D1:1032:C:H1'	2.34	0.42
29:B1:1358:C:C2	29:B1:1359:C:C6	3.07	0.42
1:A1:239:C:H1'	1:A1:240:U:H6	1.81	0.42
29:D1:2953:U:H2'	29:D1:2954:U:H2'	2.01	0.42
40:BI:86:TYR:CB	40:BI:148:GLY:H	2.31	0.42
29:B1:299:G:C8	29:B1:299:G:O5'	2.65	0.42
29:B1:169:U:O2'	29:B1:170:G:P	2.77	0.42
36:BE:18:THR:CB	36:BE:19:PRO:CA	2.93	0.42
8:AG:109:LYS:C	8:AG:111:ALA:N	2.71	0.42
1:C1:569:C:H1'	1:C1:583:C:C5'	2.46	0.42
29:D1:1334:U:H5''	38:DG:206:LYS:C	2.39	0.42
54:DY:90:TYR:O	54:DY:91:LEU:CB	2.66	0.42
6:CE:103:ASP:O	6:CE:104:PHE:C	2.56	0.42
52:DW:54:TYR:C	52:DW:56:ARG:H	2.23	0.42
9:CH:103:ARG:O	9:CH:106:ALA:HB3	2.19	0.42
29:B1:238:A:O2'	29:B1:239:G:P	2.77	0.42
29:B1:2413:A:N3	29:B1:2414:G:N7	2.67	0.42
52:DW:132:ALA:O	52:DW:133:LEU:C	2.57	0.42
40:DI:4:ILE:O	40:DI:5:GLN:CB	2.67	0.42
36:DE:156:GLY:HA3	36:DE:181:PRO:HA	2.01	0.42
1:A1:1294:G:C4	1:A1:1295:G:C8	3.07	0.42
73:DM:94:THR:O	73:DM:98:ASN:N	2.52	0.42
36:BE:139:PRO:HA	36:BE:140:ARG:CB	2.49	0.42
10:AI:115:TYR:O	10:AI:116:LEU:C	2.57	0.42
29:D1:1644:C:N4	74:D1:3526:OHX:N1	2.62	0.42
29:B1:2175:U:H3'	29:B1:2176:U:H5'	1.99	0.42
21:AT:27:ALA:O	21:AT:28:GLY:C	2.57	0.42
29:D1:2229:A:H2'	29:D1:2230:C:C1'	2.48	0.42
40:BI:150:SER:O	40:BI:153:ASP:N	2.52	0.42
43:DN:119:GLN:O	43:DN:120:VAL:C	2.57	0.42
14:AM:35:ASP:O	14:AM:36:ILE:CB	2.68	0.42
8:AG:149:LEU:HA	8:AG:150:VAL:HA	1.82	0.42
29:D1:2461:A:C2	29:D1:2485:A:H2'	2.54	0.42
29:B1:3156:U:C2'	29:B1:3156:U:O2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BE:289:LYS:C	36:BE:291:ALA:N	2.72	0.42
1:A1:1118:G:C2	1:A1:1119:G:C5	3.06	0.42
1:A1:1118:G:C2	1:A1:1119:G:N9	2.87	0.42
1:A1:1626:U:O2'	1:A1:1627:U:H5'	2.19	0.42
1:A1:518:A:C8	1:A1:519:C:H6	2.37	0.42
1:A1:629:U:O2	1:A1:971:A:N3	2.52	0.42
1:A1:857:U:H6	1:A1:857:U:H3'	1.84	0.42
1:A1:96:G:O2'	1:A1:97:C:H5'	2.18	0.42
29:B1:107:A:H8	29:B1:107:A:O5'	2.02	0.42
29:B1:1120:A:C2	29:B1:1121:U:C5	3.07	0.42
29:B1:1174:G:N1	29:B1:1318:A:C2	2.88	0.42
29:B1:1192:C:O3'	29:B1:1193:A:C4'	2.66	0.42
29:B1:1220:U:C1'	29:B1:1223:A:N3	2.82	0.42
29:B1:1315:U:O2'	29:B1:1316:C:H5'	2.19	0.42
29:B1:13:A:C5'	29:B1:14:U:OP1	2.63	0.42
29:B1:1591:G:N7	29:B1:1592:G:C5	2.87	0.42
29:B1:159:A:O2'	29:B1:160:G:H8	2.02	0.42
29:B1:1685:C:C6	29:B1:1687:U:C4	3.07	0.42
29:B1:1841:A:C6	29:B1:1848:G:C6	3.07	0.42
29:B1:1859:A:N3	29:B1:1859:A:H2'	2.34	0.42
29:B1:1899:G:H5'	50:BU:21:ALA:HA	2.01	0.42
29:B1:2361:A:H2'	29:B1:2362:C:H6	1.82	0.42
29:B1:2420:C:N4	29:B1:2421:U:O4	2.51	0.42
29:B1:2654:C:H5'	29:B1:2657:A:N6	2.34	0.42
29:B1:2309:A:C2	29:B1:2961:G:H2'	2.43	0.42
29:B1:2967:A:OP1	33:BB:213:GLY:HA3	2.19	0.42
29:B1:3335:A:N7	29:B1:3336:A:C5	2.87	0.42
29:B1:23:A:P	74:B1:3406:OHX:N5	2.92	0.42
29:B1:563:U:H3'	29:B1:564:G:H4'	1.95	0.42
29:B1:565:U:H2'	29:B1:566:G:O4'	2.19	0.42
29:B1:592:A:H3'	29:B1:593:C:C5'	2.48	0.42
29:B1:634:C:C4	29:B1:635:G:N7	2.87	0.42
29:B1:645:A:C6	29:B1:2372:A:C2	3.06	0.42
29:B1:701:G:C5	29:B1:702:C:C4	3.07	0.42
29:B1:809:G:H2'	29:B1:810:A:C8	2.54	0.42
29:B1:836:A:H2'	29:B1:836:A:N3	2.34	0.42
29:B1:900:G:N2	29:B1:1589:A:C5	2.87	0.42
29:B1:937:G:OP2	54:BY:24:LYS:CB	2.67	0.42
31:B3:13:A:C2	31:B3:14:C:N3	2.88	0.42
38:BG:74:SER:CB	38:BG:75:TYR:O	2.67	0.42
1:C1:1044:U:O2	1:C1:1045:C:C5	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:10:G:C4	1:C1:11:A:C8	3.07	0.42
1:C1:125:U:C6	1:C1:125:U:O5'	2.52	0.42
1:C1:13:C:C4	1:C1:14:C:C5	3.07	0.42
1:C1:479:C:H2'	1:C1:480:G:N9	2.33	0.42
1:C1:533:U:H2'	1:C1:534:A:C8	2.54	0.42
1:C1:534:A:C2'	1:C1:535:A:H8	2.29	0.42
1:C1:615:A:C2	1:C1:616:G:C8	3.06	0.42
1:C1:627:C:C2	1:C1:973:A:C2	3.07	0.42
1:C1:636:A:H2'	1:C1:637:C:H5'	2.02	0.42
1:C1:812:A:C6	1:C1:859:A:C8	3.07	0.42
1:C1:14:C:H5'	3:CB:163:GLY:HA2	2.00	0.42
29:D1:111:C:C2'	29:D1:112:U:O5'	2.67	0.42
29:D1:1193:A:H5''	29:D1:1194:G:OP2	2.18	0.42
29:D1:1439:U:C2	29:D1:1440:G:C8	3.07	0.42
29:D1:1444:G:H2'	29:D1:1445:U:O4'	2.18	0.42
29:D1:1489:A:H2'	29:D1:1490:A:C8	2.54	0.42
29:D1:1504:A:H5''	29:D1:1504:A:H8	1.84	0.42
29:D1:1515:A:H2'	29:D1:1516:C:H6	1.84	0.42
29:D1:158:G:C2	29:D1:160:G:H5''	2.54	0.42
29:D1:1789:G:H2'	29:D1:1790:G:H8	1.84	0.42
29:D1:1901:A:O3'	29:D1:2918:G:C5'	2.63	0.42
29:D1:20:A:N1	31:D3:140:G:C6	2.87	0.42
29:D1:2226:U:O2'	29:D1:2227:C:C6	2.70	0.42
29:D1:2260:U:HO2'	29:D1:2261:G:H8	1.60	0.42
29:D1:2278:C:N3	29:D1:2307:G:N2	2.68	0.42
29:D1:2366:C:H1'	29:D1:2382:G:N2	2.33	0.42
29:D1:2762:A:H1'	29:D1:2800:G:O6	2.20	0.42
29:D1:2776:C:H5'	29:D1:2777:G:H5'	2.01	0.42
29:D1:2823:G:C5	29:D1:2824:G:N7	2.87	0.42
29:D1:2985:C:C2'	29:D1:2986:U:O5'	2.67	0.42
29:D1:3088:G:H3'	29:D1:3089:C:C6	2.54	0.42
29:D1:325:A:C5'	29:D1:327:A:OP2	2.67	0.42
29:D1:3303:G:OP1	29:D1:3377:G:O3'	2.37	0.42
29:D1:1942:U:C1'	29:D1:3342:A:C2	3.02	0.42
29:D1:3377:G:O5'	74:D1:3452:OHX:N1	2.52	0.42
29:D1:360:G:HO2'	29:D1:361:A:H5'	1.83	0.42
29:D1:527:A:H3'	29:D1:528:U:H6	1.83	0.42
29:D1:543:C:C5	29:D1:544:C:C4	3.07	0.42
29:D1:564:G:OP2	29:D1:565:U:OP1	2.36	0.42
29:D1:570:A:C5	29:D1:571:U:C5	3.07	0.42
29:D1:594:U:O2	29:D1:595:G:N9	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:641:C:HO2'	29:D1:642:U:P	2.37	0.42
29:D1:84:U:C5	29:D1:85:A:C5	3.07	0.42
29:D1:877:C:H2'	29:D1:878:G:H5'	2.01	0.42
31:D3:129:C:H2'	31:D3:130:C:C5	2.51	0.42
31:D3:86:U:O2'	31:D3:87:G:P	2.77	0.42
36:DE:28:THR:O	36:DE:30:TYR:N	2.52	0.42
44:DO:49:ARG:O	44:DO:50:ARG:C	2.56	0.42
1:A1:228:G:C4	1:A1:229:U:C5	3.07	0.42
1:A1:714:G:C4	1:A1:715:U:H1'	2.54	0.42
1:A1:737:A:C2	1:A1:738:G:C5	3.07	0.42
1:C1:837:G:O6	74:C1:1928:OHX:N1	2.53	0.42
30:B2:77:G:H22	30:B2:101:G:C3'	2.32	0.42
31:B3:70:G:H3'	31:B3:71:A:O4'	2.18	0.42
31:B3:78:G:C5	31:B3:79:A:N7	2.88	0.42
31:B3:86:U:O2'	31:B3:87:G:P	2.77	0.42
30:D2:20:A:C2	30:D2:60:G:C2	3.07	0.42
29:D1:2677:G:H22	29:D1:2679:A:C1'	2.33	0.42
1:A1:1683:C:O2	1:A1:1720:G:N7	2.51	0.42
1:A1:340:U:O2	1:A1:340:U:H2'	2.17	0.42
1:A1:795:U:C6	1:A1:796:A:C8	3.07	0.42
1:A1:749:U:N3	1:A1:801:G:C6	2.87	0.42
1:C1:1164:G:C2	1:C1:1165:G:C4	3.07	0.42
1:C1:1227:A:C8	1:C1:1229:G:P	3.13	0.42
1:C1:1557:U:H5'	1:C1:1560:U:OP2	2.19	0.42
1:C1:1565:C:O2'	10:CI:15:HIS:HA	2.18	0.42
1:C1:1570:A:H5''	1:C1:1571:C:OP2	2.19	0.42
1:C1:1585:U:O2'	1:C1:1586:A:H5'	2.20	0.42
1:A1:1160:A:C6	1:A1:1161:C:N4	2.87	0.42
1:A1:1362:U:H3'	1:A1:1363:U:C4'	2.49	0.42
1:A1:1444:A:N3	1:A1:1444:A:H2'	2.34	0.42
1:A1:1462:G:C6	1:A1:1463:C:C4	3.08	0.42
1:A1:1494:C:C2'	1:A1:1495:C:O5'	2.67	0.42
1:A1:1480:G:C2	1:A1:1528:U:C2	3.07	0.42
1:A1:1533:C:H4'	1:A1:1539:G:C6	2.54	0.42
29:B1:1464:G:H21	29:B1:1466:G:H8	1.67	0.42
29:B1:380:U:N1	29:B1:381:U:H5	2.17	0.42
6:AE:82:ARG:O	6:AE:84:GLY:N	2.50	0.42
29:D1:3196:U:H6	29:D1:3197:G:C2	2.38	0.42
15:AN:54:GLY:O	15:AN:91:ILE:HA	2.20	0.42
30:B2:37:G:N2	30:B2:38:U:C4	2.87	0.42
29:D1:3253:G:C5	29:D1:3254:G:N7	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1416:C:O2	29:D1:1417:G:C4	2.72	0.42
29:D1:213:A:H2'	29:D1:214:G:O5'	2.19	0.42
29:D1:398:A:H4'	29:D1:399:A:C5'	2.49	0.42
29:B1:1236:G:C4'	29:B1:1246:G:H5''	2.49	0.42
29:B1:1254:C:C4	74:B1:3567:OHX:N5	2.87	0.42
1:C1:946:U:N3	1:C1:947:U:C4	2.87	0.42
30:D2:30:G:O6	30:D2:49:G:N1	2.51	0.42
29:D1:1254:C:C5	29:D1:1263:A:OP1	2.67	0.42
29:D1:1278:A:O2'	29:D1:1279:C:C5'	2.61	0.42
2:CA:13:ASP:C	2:CA:17:LEU:O	2.57	0.42
29:B1:1064:A:C2	29:B1:1095:U:C2	3.06	0.42
1:A1:1336:A:N6	1:A1:1416:G:O6	2.52	0.42
29:B1:25:U:H2'	29:B1:26:A:O4'	2.19	0.42
29:B1:3348:G:C5	29:B1:3349:C:C2	3.07	0.42
1:C1:774:A:N1	1:C1:775:G:H1'	2.34	0.42
29:B1:1934:G:H2'	29:B1:1935:G:O4'	2.19	0.42
29:B1:1919:G:O6	74:B1:3593:OHX:N5	2.52	0.42
1:A1:718:U:C5'	1:A1:719:U:OP2	2.63	0.42
1:C1:374:U:C2	1:C1:375:U:C6	3.07	0.42
29:B1:2130:G:O6	29:B1:2323:G:C6	2.72	0.42
29:B1:2131:A:C3'	29:B1:2131:A:C8	3.02	0.42
1:C1:235:G:H8	1:C1:235:G:OP2	2.02	0.42
43:DN:24:LYS:CA	43:DN:31:LYS:N	2.82	0.42
41:DJ:18:PRO:O	41:DJ:20:SER:N	2.52	0.42
29:D1:1307:G:N2	29:D1:1308:A:C2	2.87	0.42
29:B1:2452:G:O2'	29:B1:2461:A:H5''	2.18	0.42
29:B1:602:A:N1	29:B1:603:A:N6	2.67	0.42
29:B1:2530:G:OP2	29:B1:2530:G:H2'	2.18	0.42
29:B1:2547:A:C6	29:B1:2548:C:N4	2.87	0.42
13:AL:76:PRO:C	13:AL:81:ILE:H	2.22	0.42
34:DC:299:ASP:C	34:DC:301:THR:N	2.71	0.42
29:D1:2416:U:H4'	29:D1:2967:A:O4'	2.19	0.42
29:B1:668:G:H2'	29:B1:669:U:O4'	2.19	0.42
29:D1:2488:A:H2'	29:D1:2488:A:N3	2.34	0.42
37:BF:126:GLN:C	37:BF:128:LYS:H	2.21	0.42
29:D1:2178:A:P	33:DB:126:LEU:HA	2.58	0.42
47:BR:72:LYS:HA	47:BR:73:GLN:HA	1.61	0.42
35:BD:190:GLY:O	35:BD:192:GLY:N	2.51	0.42
29:B1:2652:U:C2'	29:B1:2653:C:O5'	2.66	0.42
29:B1:2723:U:H2'	29:B1:2724:U:H6	1.77	0.42
1:A1:1305:U:H3'	1:A1:1306:C:N3	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:926:A:C5	1:C1:927:C:C6	3.07	0.42
29:B1:2505:U:H2'	29:B1:2506:U:N1	2.34	0.42
45:BP:140:LYS:C	45:BP:142:SER:N	2.72	0.42
1:A1:1302:U:H2'	1:A1:1302:U:O2	2.18	0.42
29:B1:2443:A:C5	29:B1:2444:C:N4	2.87	0.42
13:AL:50:ALA:C	13:AL:52:VAL:N	2.71	0.42
29:D1:2218:G:N2	29:D1:2228:A:H1'	2.35	0.42
52:DW:132:ALA:O	52:DW:136:ALA:N	2.52	0.42
36:DE:130:GLU:CA	36:DE:131:LEU:CB	2.95	0.42
29:B1:2510:U:C2	29:B1:2511:A:H8	2.34	0.42
49:BT:115:LYS:O	49:BT:118:GLU:N	2.52	0.42
37:DF:24:ALA:H	37:DF:114:LYS:CB	2.30	0.42
49:BT:35:LYS:C	49:BT:37:GLY:N	2.73	0.42
29:B1:1673:G:C2	29:B1:1775:G:N3	2.86	0.42
29:B1:1673:G:C4	29:B1:1775:G:N2	2.87	0.42
13:AL:114:GLU:C	13:AL:116:LEU:N	2.70	0.42
51:BV:7:SER:C	51:BV:9:SER:N	2.72	0.42
3:AB:138:PRO:C	3:AB:140:ARG:H	2.19	0.42
48:DS:5:ARG:O	48:DS:6:THR:C	2.57	0.42
29:B1:1757:A:N6	29:B1:1769:G:C6	2.87	0.42
51:BV:18:GLY:HA3	51:BV:32:GLN:HA	2.01	0.42
29:D1:2668:U:H5	74:D1:3599:OHX:N5	2.17	0.42
42:DK:77:GLU:O	42:DK:81:GLU:N	2.52	0.42
73:DM:75:LYS:O	73:DM:79:PHE:N	2.51	0.42
36:BE:80:SER:C	36:BE:82:GLU:H	2.22	0.42
53:DX:89:LYS:C	53:DX:91:ASN:N	2.72	0.42
30:B2:20:A:O2'	30:B2:21:G:H5'	2.19	0.42
36:BE:150:LEU:O	36:BE:151:GLN:C	2.57	0.42
50:DU:23:MET:O	50:DU:24:ASN:C	2.58	0.42
20:AS:51:GLY:O	20:AS:52:PHE:C	2.58	0.42
53:BX:28:ARG:O	53:BX:31:LEU:O	2.37	0.42
16:AO:7:LEU:C	16:AO:9:ASP:N	2.73	0.42
2:CA:116:LYS:O	2:CA:117:GLU:CB	2.66	0.42
15:CN:36:ASN:C	15:CN:38:SER:H	2.22	0.42
18:CQ:94:LYS:C	18:CQ:96:SER:N	2.70	0.42
1:A1:101:U:C2'	1:A1:102:U:O5'	2.68	0.42
1:A1:1065:A:C6	1:A1:1066:C:C4	3.07	0.42
1:A1:1066:C:N3	1:A1:1067:C:C6	2.88	0.42
1:A1:1104:U:H6	1:A1:1104:U:H3'	1.84	0.42
1:A1:1627:U:O2'	1:A1:1628:U:H6	1.94	0.42
1:A1:366:A:H2'	1:A1:367:A:H8	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:469:C:H2'	1:A1:470:A:C6	2.54	0.42
1:A1:524:U:C2	1:A1:527:A:C2	3.07	0.42
29:B1:1107:C:H2'	29:B1:1108:U:C6	2.53	0.42
29:B1:1130:A:C2'	29:B1:1132:C:H6	2.30	0.42
29:B1:1375:G:N3	29:B1:1407:A:C2	2.78	0.42
29:B1:1399:A:C2	31:B3:8:C:C1'	3.03	0.42
29:B1:1449:A:C8	29:B1:1450:G:N9	2.87	0.42
29:B1:1482:A:OP2	29:B1:1858:A:C6	2.72	0.42
29:B1:1689:U:N3	29:B1:1690:C:C5	2.87	0.42
29:B1:196:G:O6	29:B1:199:A:OP2	2.36	0.42
29:B1:2222:A:C2	29:B1:2223:A:C6	3.08	0.42
29:B1:2252:A:C2	29:B1:2265:C:O2	2.72	0.42
29:B1:2255:A:C2	29:B1:2258:U:OP2	2.71	0.42
29:B1:2273:G:H1'	29:B1:2274:U:H5	1.84	0.42
29:B1:258:G:OP2	29:B1:258:G:H8	2.00	0.42
29:B1:2608:G:C4	29:B1:2609:A:N7	2.87	0.42
29:B1:2743:A:C6	29:B1:2744:U:N3	2.87	0.42
29:B1:2743:A:C4	29:B1:2744:U:C5	3.07	0.42
29:B1:2821:C:H3'	29:B1:2821:C:C6	2.51	0.42
29:B1:2847:A:N7	29:B1:2898:G:C4	2.87	0.42
29:B1:2931:C:C5	29:B1:2932:U:H5	2.37	0.42
29:B1:2932:U:N1	29:B1:2935:U:C5	2.87	0.42
29:B1:2946:A:H8	29:B1:2946:A:O5'	2.02	0.42
29:B1:3012:A:H2'	29:B1:3013:U:H6	1.84	0.42
29:B1:3292:A:H2'	29:B1:3293:U:H4'	2.01	0.42
29:B1:3302:U:C2'	29:B1:3303:G:H5''	2.49	0.42
29:B1:3322:A:C2	29:B1:3386:G:C2	3.07	0.42
29:B1:3394:U:C2'	29:B1:3395:G:N7	2.79	0.42
29:B1:36:C:C5	29:B1:37:U:C6	3.07	0.42
29:B1:372:A:H3'	29:B1:373:A:H8	1.83	0.42
29:B1:393:U:N3	29:B1:394:G:C8	2.87	0.42
29:B1:520:U:N3	37:BF:138:GLN:CB	2.82	0.42
29:B1:532:A:C2	29:B1:533:A:N3	2.87	0.42
29:B1:543:C:C5	29:B1:544:C:C4	3.08	0.42
29:B1:585:A:H2'	29:B1:586:C:C5	2.47	0.42
29:B1:642:U:C5'	29:B1:643:U:OP2	2.67	0.42
29:B1:877:C:H2'	29:B1:878:G:H5'	2.00	0.42
29:B1:946:U:O2	29:B1:946:U:H2'	2.18	0.42
29:B1:946:U:O2	29:B1:947:G:C8	2.71	0.42
29:B1:948:C:H2'	29:B1:948:C:O2	2.19	0.42
31:B3:148:G:N2	31:B3:149:A:N3	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BD:158:SER:O	35:BD:159:ILE:CB	2.66	0.42
38:BG:45:LEU:C	38:BG:47:ARG:N	2.68	0.42
1:C1:1008:G:C2	1:C1:1009:U:C1'	3.01	0.42
1:C1:100:A:N3	1:C1:101:U:C6	2.87	0.42
1:C1:166:C:H2'	1:C1:167:U:C6	2.55	0.42
1:C1:1760:G:N1	1:C1:1761:U:C5	2.87	0.42
1:C1:1791:A:H8	1:C1:1791:A:H5'	1.83	0.42
1:C1:1030:A:N7	1:C1:1792:G:C6	2.86	0.42
1:C1:287:G:N1	1:C1:288:A:C6	2.87	0.42
1:C1:294:C:C2	1:C1:295:A:N7	2.87	0.42
1:C1:357:G:N9	1:C1:358:U:C5	2.85	0.42
1:C1:541:A:N9	1:C1:541:A:OP2	2.52	0.42
1:C1:545:A:N6	1:C1:593:U:O2'	2.46	0.42
1:C1:755:A:N9	1:C1:756:A:C8	2.88	0.42
1:C1:811:A:C2	1:C1:858:G:H1'	2.53	0.42
1:C1:84:A:N7	1:C1:85:A:N7	2.68	0.42
1:C1:95:G:O2'	1:C1:460:A:O2'	2.33	0.42
29:D1:1192:C:OP2	29:D1:1192:C:O4'	2.37	0.42
29:D1:1224:C:OP1	29:D1:1224:C:H6	1.98	0.42
29:D1:1303:A:N7	29:D1:1304:A:N1	2.66	0.42
29:D1:1372:C:O2'	29:D1:1373:A:H5'	2.20	0.42
29:D1:1378:U:C2'	29:D1:1379:G:H8	2.28	0.42
29:D1:1454:A:N1	29:D1:1484:U:O4	2.53	0.42
29:D1:1604:G:H2'	29:D1:1605:A:O4'	2.20	0.42
29:D1:1783:U:N3	29:D1:1784:G:N7	2.67	0.42
29:D1:1900:A:C2	29:D1:1906:G:N9	2.87	0.42
29:D1:2144:A:C5	29:D1:2281:A:N1	2.87	0.42
29:D1:2169:G:O6	74:D1:3492:OHX:N6	2.52	0.42
29:D1:2266:U:H3	29:D1:2267:C:N4	2.16	0.42
29:D1:2284:C:N4	29:D1:2308:C:OP2	2.52	0.42
29:D1:2372:A:O2'	29:D1:2373:A:OP1	2.31	0.42
29:D1:2654:C:H4'	29:D1:2657:A:C5	2.55	0.42
29:D1:2654:C:C5'	29:D1:2657:A:N6	2.82	0.42
29:D1:2419:A:C6	29:D1:2804:A:N6	2.87	0.42
29:D1:2823:G:C6	29:D1:2824:G:N7	2.88	0.42
29:D1:2948:C:C6	29:D1:2948:C:C5'	3.02	0.42
29:D1:3131:U:O2	29:D1:3132:C:C6	2.72	0.42
29:D1:31:C:O2	29:D1:1546:A:C2	2.68	0.42
29:D1:3298:C:C4	29:D1:3299:A:N6	2.87	0.42
29:D1:3299:A:O5'	29:D1:3299:A:C2'	2.66	0.42
74:D1:3477:OHX:N6	74:D1:3588:OHX:N5	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:656:A:H5'	29:D1:657:A:P	2.59	0.42
29:D1:699:A:C6	29:D1:700:C:N3	2.88	0.42
29:D1:704:U:C3'	29:D1:704:U:H6	2.24	0.42
29:D1:955:U:C4	29:D1:956:U:C4	3.07	0.42
29:D1:965:A:N1	29:D1:966:U:O2	2.52	0.42
31:D3:10:A:C4	31:D3:11:C:C6	3.07	0.42
31:D3:72:A:H61	31:D3:85:G:H5'	1.83	0.42
35:DD:42:VAL:O	35:DD:44:LYS:N	2.52	0.42
1:A1:708:C:H1'	1:A1:709:C:H5''	2.00	0.42
1:C1:806:A:C4	1:C1:807:A:N7	2.88	0.42
1:C1:809:A:N1	1:C1:810:G:N1	2.67	0.42
1:C1:809:A:O2'	1:C1:810:G:H5'	2.19	0.42
29:B1:1054:A:C6	29:B1:1055:A:C4	3.07	0.42
29:B1:2689:A:H1'	29:B1:2702:A:H61	1.84	0.42
1:A1:283:U:C5'	1:A1:284:G:OP2	2.67	0.42
1:A1:288:A:O2'	1:A1:289:U:P	2.78	0.42
29:D1:999:G:H5''	30:D2:104:A:H1'	2.01	0.42
30:D2:67:G:O6	30:D2:111:U:C5	2.72	0.42
1:C1:333:A:N1	1:C1:334:G:C2	2.87	0.42
29:B1:2681:U:OP1	42:BK:52:TYR:CA	2.67	0.42
1:A1:243:G:N1	1:A1:251:A:C5	2.85	0.42
1:A1:333:A:N1	1:A1:334:G:N1	2.67	0.42
1:C1:1155:G:C4	1:C1:1156:C:C5	3.07	0.42
1:C1:1163:A:C6	1:C1:1164:G:C5	3.07	0.42
1:C1:1208:A:H5''	1:C1:1209:C:OP2	2.19	0.42
1:C1:1209:C:C2	1:C1:1210:C:C5	3.06	0.42
1:C1:1348:A:C8	1:C1:1349:G:C5'	3.01	0.42
1:C1:1350:U:H5	1:C1:1351:G:C4	2.37	0.42
1:C1:1522:U:OP1	1:C1:1522:U:C6	2.72	0.42
1:A1:1168:U:O2'	1:A1:1169:G:H5'	2.19	0.42
1:A1:1241:G:C2	1:A1:1243:G:O5'	2.73	0.42
1:A1:1249:U:C2'	1:A1:1250:U:H5'	2.50	0.42
1:A1:1428:G:C2	1:A1:1429:G:C8	3.07	0.42
1:A1:1458:G:C2	1:A1:1459:C:C4	3.07	0.42
1:A1:1477:G:H2'	1:A1:1478:G:H5'	2.02	0.42
1:A1:1486:G:C6	1:A1:1487:A:C6	3.07	0.42
1:A1:1508:U:C4	74:A1:1909:OHX:N6	2.87	0.42
1:A1:1573:A:O4'	1:A1:1574:G:C2	2.72	0.42
1:A1:1575:G:N2	1:A1:1576:A:O4'	2.52	0.42
1:A1:1584:G:C3'	1:A1:1584:G:C4	2.97	0.42
1:A1:1521:G:O6	74:A1:1943:OHX:N6	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1183:C:H2'	29:D1:1184:A:H5''	2.00	0.42
29:D1:625:G:O2'	29:D1:626:U:O4'	2.26	0.42
29:B1:3191:G:C6	29:B1:3202:G:C2	3.07	0.42
29:B1:3196:U:OP2	29:B1:3196:U:C4	2.73	0.42
29:D1:3183:A:H2'	29:D1:3184:A:C8	2.54	0.42
29:D1:3206:C:O4'	29:D1:3206:C:O2	2.37	0.42
30:B2:37:G:C2'	30:B2:38:U:O5'	2.68	0.42
29:B1:3023:U:C2'	29:B1:3024:A:C8	2.91	0.42
35:DD:168:ALA:C	35:DD:170:LYS:N	2.72	0.42
29:D1:3171:U:C2'	29:D1:3172:A:OP2	2.67	0.42
29:D1:3223:A:C2'	29:D1:3223:A:N3	2.83	0.42
1:A1:156:A:C6	1:A1:157:A:C6	3.08	0.42
15:CN:20:ILE:C	15:CN:92:ASP:HA	2.38	0.42
1:C1:156:A:C6	1:C1:157:A:C6	3.08	0.42
29:D1:2687:G:OP2	74:D1:3430:OHX:N1	2.52	0.42
29:D1:2771:U:HO2'	29:D1:2772:C:P	2.42	0.42
29:B1:3384:U:H2'	29:B1:3385:U:H6	1.79	0.42
29:D1:1277:C:O2'	29:D1:1278:A:H8	2.03	0.42
21:CT:301:LEU:O	21:CT:312:VAL:CA	2.67	0.42
29:D1:3242:G:C2	29:D1:3244:A:H2'	2.50	0.42
31:B3:24:G:O2'	31:B3:25:G:H5'	2.19	0.42
1:C1:1338:C:O2'	1:C1:1339:C:H5'	2.20	0.42
29:B1:1063:G:O2'	29:B1:1064:A:H5''	2.18	0.42
1:A1:885:G:C2	1:A1:886:U:N3	2.86	0.42
29:D1:1680:G:C4	29:D1:1681:U:H6	2.33	0.42
29:D1:1683:A:H5''	29:D1:1684:U:OP1	2.19	0.42
29:D1:1684:U:C6	29:D1:1684:U:H3'	2.53	0.42
29:B1:1731:A:C4	29:B1:1732:U:C6	3.07	0.42
29:B1:1718:G:N2	29:B1:1731:A:O2'	2.37	0.42
29:B1:624:G:N2	29:B1:625:G:C4	2.87	0.42
30:D2:91:G:O6	30:D2:92:A:N6	2.52	0.42
30:B2:118:A:H2'	30:B2:119:U:O4'	2.18	0.42
36:BE:255:PRO:O	36:BE:256:THR:C	2.58	0.42
29:B1:1668:G:H2'	29:B1:1669:C:O4'	2.20	0.42
43:DN:33:ALA:CA	43:DN:48:GLY:N	2.82	0.42
36:DE:282:ARG:O	36:DE:283:ALA:HB3	2.18	0.42
29:D1:1932:A:H2'	29:D1:1933:A:O4'	2.19	0.42
1:A1:311:U:O2'	1:A1:312:A:O5'	2.36	0.42
1:A1:356:G:C6	1:A1:357:G:C5	3.07	0.42
29:D1:2652:U:O2'	29:D1:2653:C:O5'	2.37	0.42
29:D1:857:G:C4'	29:D1:858:A:OP1	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:861:C:P	29:D1:862:U:OP2	2.77	0.42
5:AD:144:GLU:HA	5:AD:160:VAL:C	2.39	0.42
11:AJ:98:ASP:C	11:AJ:100:GLN:H	2.23	0.42
37:DF:115:GLU:O	37:DF:116:LYS:C	2.57	0.42
29:D1:1019:G:C6	29:D1:1020:G:N7	2.88	0.42
39:BH:223:ALA:C	39:BH:225:LYS:N	2.73	0.42
34:BC:59:ASP:HA	34:BC:70:ARG:O	2.20	0.42
1:C1:133:U:C1'	1:C1:134:U:P	3.07	0.42
34:DC:159:ARG:CA	34:DC:181:ILE:O	2.67	0.42
14:AM:132:LEU:O	14:AM:133:ASP:C	2.57	0.42
29:D1:290:G:H4'	44:DO:69:GLY:O	2.17	0.42
47:BR:18:ALA:O	47:BR:19:PRO:C	2.58	0.42
1:C1:720:G:O2'	1:C1:721:U:OP1	2.34	0.42
29:D1:1816:A:C8	29:D1:1816:A:OP2	2.72	0.42
1:A1:568:G:C2	1:A1:569:C:C5	3.07	0.42
44:BO:157:LYS:O	44:BO:159:ARG:N	2.52	0.42
3:AB:124:ALA:O	3:AB:126:ARG:N	2.53	0.42
29:D1:1708:C:H2'	29:D1:1708:C:O2	2.20	0.42
29:B1:2574:G:C2	29:B1:2575:G:C8	3.07	0.42
42:BK:133:ARG:CB	42:BK:153:LYS:O	2.66	0.42
1:C1:1623:C:C4	1:C1:1624:C:C5	3.07	0.42
1:A1:802:G:C2	1:A1:803:A:C2	3.07	0.42
43:BN:111:ALA:O	43:BN:114:ASP:N	2.52	0.42
29:B1:1307:G:C2	29:B1:1308:A:C2	3.07	0.42
8:AG:129:TYR:C	8:AG:131:THR:H	2.22	0.42
38:BG:163:LEU:O	38:BG:165:ASP:N	2.52	0.42
52:BW:80:ASN:HA	52:BW:132:ALA:HB2	2.01	0.42
9:AH:77:THR:O	9:AH:110:LEU:HA	2.19	0.42
29:D1:1763:U:C4	29:D1:1764:U:C2	3.07	0.42
35:DD:155:ASP:O	35:DD:157:GLU:N	2.52	0.42
5:AD:136:ALA:C	5:AD:138:THR:N	2.72	0.42
47:DR:145:ASN:CB	47:DR:146:SER:CB	2.98	0.42
1:A1:908:U:C5	1:A1:909:U:C5	3.07	0.42
35:BD:51:ALA:HB3	35:BD:104:LYS:HA	2.01	0.42
29:D1:1771:C:N4	29:D1:1772:U:C4	2.87	0.42
39:DH:228:GLU:C	39:DH:230:LYS:N	2.72	0.42
39:BH:158:ASP:HA	39:BH:159:PRO:HA	1.85	0.42
4:CC:57:ASP:C	4:CC:59:LEU:N	2.73	0.42
5:CD:182:ALA:C	5:CD:184:PHE:N	2.73	0.42
1:A1:503:G:C5	1:A1:504:U:C6	3.07	0.42
35:BD:174:ALA:O	35:BD:175:HIS:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BX:91:ASN:O	53:BX:93:ALA:N	2.52	0.42
29:B1:1636:U:H3	29:B1:1710:C:H1'	1.84	0.42
46:DQ:120:ASN:O	46:DQ:144:SER:O	2.37	0.42
53:DX:70:ILE:O	53:DX:71:SER:C	2.58	0.42
3:AB:230:TRP:C	3:AB:232:GLU:H	2.22	0.42
29:B1:2229:A:H2'	29:B1:2230:C:N1	2.34	0.42
38:DG:134:VAL:O	38:DG:135:ALA:HB2	2.19	0.42
51:BV:28:ILE:O	51:BV:29:PHE:CB	2.67	0.42
32:BA:145:TYR:HA	32:BA:148:VAL:CB	2.50	0.42
72:DL:9:GLU:CB	72:DL:65:GLN:HA	2.49	0.42
48:DS:133:LYS:O	48:DS:134:HIS:CB	2.67	0.42
1:A1:1032:G:C2	1:A1:1033:C:C4	3.07	0.42
1:A1:1109:G:O2'	1:A1:1110:G:H5''	2.19	0.42
1:A1:1138:A:C2	1:A1:1139:A:C4	3.07	0.42
1:A1:1765:A:C4'	1:A1:1766:A:OP2	2.65	0.42
1:A1:1765:A:P	74:A1:1931:OHX:N5	2.92	0.42
1:A1:1074:G:N7	74:A1:1939:OHX:N1	2.67	0.42
1:A1:371:G:C2'	1:A1:372:G:H5'	2.49	0.42
1:A1:406:U:H2'	1:A1:407:A:C8	2.54	0.42
1:A1:758:U:C3'	1:A1:759:U:H6	2.33	0.42
1:A1:96:G:C2'	1:A1:97:C:H5'	2.49	0.42
29:B1:9:U:C2'	29:B1:10:C:H5'	2.45	0.42
29:B1:1168:U:C2'	29:B1:1169:A:C5'	2.97	0.42
29:B1:1404:G:N2	29:B1:1408:G:C4	2.87	0.42
29:B1:659:G:H1'	29:B1:1435:A:H61	1.84	0.42
29:B1:1449:A:C4	29:B1:2356:A:C5	3.08	0.42
29:B1:1580:A:H5'	29:B1:1581:C:OP2	2.19	0.42
29:B1:160:G:C2'	29:B1:161:G:O5'	2.68	0.42
29:B1:1880:U:C2'	29:B1:1881:A:O5'	2.67	0.42
29:B1:1895:A:C6	29:B1:2335:G:C5	3.07	0.42
29:B1:2285:C:C6	29:B1:2285:C:C3'	3.02	0.42
29:B1:2980:U:H2'	29:B1:2981:U:C5'	2.49	0.42
29:B1:3115:C:O2'	29:B1:3117:C:C5	2.72	0.42
29:B1:3103:A:C2	29:B1:3132:C:C2	3.07	0.42
29:B1:3141:A:N3	29:B1:3143:C:O3'	2.52	0.42
29:B1:3373:U:C4	29:B1:3374:U:C4	3.08	0.42
29:B1:347:G:O6	29:B1:348:A:N6	2.52	0.42
29:B1:725:G:C3'	29:B1:726:G:H5''	2.50	0.42
29:B1:777:U:O2'	29:B1:778:U:P	2.77	0.42
29:B1:916:G:N7	29:B1:924:G:C2	2.88	0.42
29:B1:98:G:H5''	29:B1:99:A:OP1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BF:159:LEU:O	37:BF:161:ALA:N	2.53	0.42
37:BF:21:THR:O	37:BF:111:LEU:N	2.45	0.42
1:C1:11:A:H8	1:C1:11:A:O5'	2.02	0.42
1:C1:149:C:C2'	1:C1:150:U:H6	2.32	0.42
1:C1:1632:C:O2'	1:C1:1633:A:C5'	2.67	0.42
1:C1:192:U:H2'	1:C1:193:U:C4'	2.49	0.42
1:C1:29:U:H2'	1:C1:30:G:C8	2.45	0.42
1:C1:33:U:C6	1:C1:33:U:H3'	2.49	0.42
1:C1:391:A:O2'	1:C1:392:G:H5'	2.20	0.42
1:C1:434:G:N2	1:C1:437:A:C2	2.86	0.42
1:C1:449:C:C2	1:C1:450:U:C5	3.07	0.42
1:C1:450:U:H2'	1:C1:450:U:O2	2.19	0.42
1:C1:460:A:N3	1:C1:460:A:H2'	2.33	0.42
1:C1:461:G:C2	1:C1:462:G:C5	3.08	0.42
1:C1:552:G:C6	1:C1:553:G:N1	2.88	0.42
1:C1:58:U:H5'	1:C1:456:A:O2'	2.19	0.42
1:C1:818:C:N3	1:C1:854:U:C4	2.87	0.42
1:C1:85:A:H2	1:C1:148:A:N3	2.16	0.42
1:C1:86:A:N3	1:C1:147:A:H2	2.17	0.42
1:C1:998:A:H3'	1:C1:999:U:C5	2.54	0.42
7:CF:97:TYR:O	7:CF:98:ASN:CB	2.68	0.42
29:D1:107:A:C2	29:D1:108:A:C2	3.08	0.42
29:D1:115:A:C2'	29:D1:116:A:H2	2.27	0.42
29:D1:1224:C:O2	29:D1:1224:C:H2'	2.18	0.42
29:D1:944:C:C6	29:D1:1431:G:C6	3.07	0.42
29:D1:1449:A:H4'	29:D1:2983:C:O2	2.18	0.42
29:D1:1476:G:H1	29:D1:1877:U:H3	1.66	0.42
29:D1:1519:G:C3'	29:D1:1520:G:H5''	2.49	0.42
29:D1:1526:U:O2'	29:D1:1595:U:H5'	2.18	0.42
29:D1:2133:U:H6	29:D1:2133:U:O5'	2.02	0.42
29:D1:2186:U:H2'	29:D1:2187:G:O4'	2.19	0.42
29:D1:2295:A:C5	29:D1:2296:A:C6	3.07	0.42
29:D1:2421:U:C4	29:D1:2422:C:C5	3.07	0.42
29:D1:2727:A:C2	29:D1:2728:G:N1	2.87	0.42
29:D1:282:G:C4'	29:D1:283:G:C8	3.02	0.42
29:D1:2912:G:N7	29:D1:2913:C:N3	2.67	0.42
29:D1:300:G:C2'	29:D1:301:G:H5'	2.49	0.42
29:D1:3090:U:O2'	29:D1:3091:A:O5'	2.36	0.42
29:D1:3044:G:C6	29:D1:3098:G:C6	3.08	0.42
29:D1:328:U:C5	29:D1:329:U:O4	2.73	0.42
29:D1:3334:U:O2'	29:D1:3335:A:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3395:G:O2'	29:D1:3396:U:OP1	2.35	0.42
29:D1:347:G:H2'	29:D1:348:A:C8	2.54	0.42
29:D1:692:A:N1	29:D1:693:A:C4	2.87	0.42
29:D1:726:G:H5'	29:D1:726:G:H8	1.84	0.42
29:D1:737:G:C4	29:D1:738:A:C8	3.07	0.42
1:C1:974:A:P	29:D1:848:A:HO2'	2.40	0.42
29:D1:910:G:C8	29:D1:911:C:C5	3.08	0.42
29:D1:957:C:H4'	29:D1:2799:A:C8	2.54	0.42
31:D3:24:G:H8	31:D3:24:G:C5'	2.32	0.42
37:DF:131:LYS:C	38:DG:70:LYS:O	2.57	0.42
54:DY:14:HIS:O	54:DY:15:VAL:CB	2.67	0.42
1:C1:223:U:H2'	1:C1:224:C:C5	2.54	0.42
1:C1:836:U:N3	1:C1:837:G:C5	2.87	0.42
29:B1:2630:C:O4'	29:B1:2758:A:H1'	2.20	0.42
29:B1:996:A:C2'	29:B1:997:A:H5'	2.49	0.42
30:B2:11:A:H5''	30:B2:13:A:O2'	2.20	0.42
30:B2:65:G:C2	30:B2:66:A:C8	3.06	0.42
30:B2:67:G:C2'	30:B2:67:G:N3	2.82	0.42
1:A1:190:C:H5''	1:A1:191:C:O2	2.20	0.42
1:A1:192:U:H2'	1:A1:193:U:C4'	2.48	0.42
1:A1:201:G:C2	1:A1:202:A:C2	3.07	0.42
30:D2:110:G:O6	30:D2:111:U:O4	2.37	0.42
30:D2:111:U:O3'	30:D2:112:G:C4'	2.67	0.42
30:D2:66:A:P	30:D2:66:A:H8	2.42	0.42
1:C1:248:U:C1'	1:C1:249:U:OP1	2.68	0.42
1:C1:341:A:N3	1:C1:342:C:C5	2.86	0.42
1:A1:337:G:C8	1:A1:337:G:O5'	2.72	0.42
1:C1:1344:A:H1'	1:C1:1345:A:O5'	2.19	0.42
1:C1:1345:A:C2'	1:C1:1346:A:N7	2.76	0.42
1:C1:1370:U:C4	1:C1:1371:A:C8	3.08	0.42
1:C1:1497:U:H2'	1:C1:1498:G:H8	1.85	0.42
1:A1:1195:C:N4	11:AJ:143:ARG:H	2.16	0.42
1:A1:1201:G:C3'	1:A1:1201:G:C4	3.00	0.42
1:A1:1209:C:N3	1:A1:1210:C:C5	2.88	0.42
1:A1:1267:G:C2'	1:A1:1268:G:H5'	2.50	0.42
1:A1:1382:A:C2	1:A1:1383:G:C5	3.07	0.42
1:A1:1496:U:HO2'	1:A1:1497:U:H6	1.66	0.42
1:A1:1507:G:N3	1:A1:1508:U:H1'	2.34	0.42
1:A1:1512:G:C5	1:A1:1513:G:N7	2.87	0.42
1:A1:1170:G:N7	1:A1:1574:G:C8	2.87	0.42
29:B1:3170:A:H2'	29:B1:3171:U:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3215:A:H5''	29:B1:3218:A:P	2.59	0.42
29:B1:3217:C:C2'	29:B1:3217:C:O2	2.67	0.42
6:CE:114:TYR:C	6:CE:116:LEU:H	2.22	0.42
29:D1:371:G:H2'	29:D1:373:A:N7	2.34	0.42
29:B1:1260:A:C2	29:B1:1279:C:C2	3.07	0.42
30:B2:28:C:C2	30:B2:29:C:H1'	2.54	0.42
30:B2:27:A:N1	30:B2:54:U:O4	2.52	0.42
1:C1:889:U:H2'	1:C1:890:C:O4'	2.19	0.42
29:B1:2769:A:C5	29:B1:2770:G:C8	3.07	0.42
29:D1:1246:G:O2'	29:D1:1247:U:H5'	2.19	0.42
9:CH:30:VAL:N	9:CH:40:ALA:HB3	2.33	0.42
29:D1:1063:G:N9	29:D1:1064:A:O4'	2.53	0.42
44:DO:184:LYS:O	44:DO:186:GLY:N	2.52	0.42
1:C1:1338:C:C2'	1:C1:1339:C:H5'	2.50	0.42
21:CT:282:SER:C	21:CT:284:ALA:H	2.20	0.42
29:D1:2212:C:O2'	29:D1:2233:A:N6	2.52	0.42
29:D1:2513:U:H1'	29:D1:2514:U:P	2.58	0.42
29:B1:1633:C:N4	29:B1:1634:G:O6	2.52	0.42
29:D1:2105:G:C5'	29:D1:2105:G:C8	2.97	0.42
1:A1:1313:A:C2'	1:A1:1315:U:H5'	2.37	0.42
1:C1:912:U:H1'	1:C1:914:G:C6	2.53	0.42
29:B1:2882:U:H2'	29:B1:2883:U:H5'	1.99	0.42
29:B1:1008:U:H5''	29:B1:1008:U:C6	2.54	0.42
29:B1:2582:C:C2'	29:B1:2582:C:O2	2.64	0.42
29:D1:1928:G:C5	29:D1:1929:G:N7	2.87	0.42
1:A1:1129:U:H3'	1:A1:1130:G:H8	1.85	0.42
29:D1:2914:G:C2'	29:D1:2915:U:H6	2.29	0.42
29:B1:1912:U:O2'	29:B1:1913:A:P	2.77	0.42
1:C1:1168:U:O2'	1:C1:1169:G:H5'	2.18	0.42
29:B1:1863:G:N2	29:B1:1865:A:H2'	2.34	0.42
54:BY:138:ILE:C	54:BY:140:ALA:N	2.73	0.42
29:D1:1492:G:O5'	29:D1:1493:G:N2	2.53	0.42
29:B1:1542:G:N1	29:B1:1543:G:C5	2.88	0.42
3:AB:185:LYS:O	3:AB:187:LEU:N	2.52	0.42
1:C1:721:U:C6	1:C1:722:G:O4'	2.72	0.42
10:CI:36:LEU:CA	10:CI:37:ALA:HB3	2.45	0.42
29:D1:1410:U:H3'	29:D1:1410:U:C6	2.54	0.42
37:DF:100:LYS:C	37:DF:102:ASN:H	2.22	0.42
33:DB:233:GLN:O	33:DB:234:LYS:O	2.37	0.42
1:C1:564:G:H21	1:C1:577:G:P	2.43	0.42
33:BB:113:VAL:O	33:BB:114:SER:C	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BR:59:ARG:O	47:BR:60:PRO:O	2.36	0.42
12:AK:58:MET:O	12:AK:62:GLN:HA	2.19	0.42
35:BD:82:THR:O	35:BD:84:ARG:N	2.53	0.42
5:CD:146:THR:HA	5:CD:159:ALA:HA	2.00	0.42
29:D1:1052:U:C5	29:D1:1053:A:N7	2.87	0.42
29:D1:2552:C:H42	33:DB:88:ILE:CB	2.32	0.42
49:BT:16:GLN:CB	74:BT:201:OHX:N5	2.83	0.42
36:BE:147:ASP:O	36:BE:148:ILE:O	2.36	0.42
29:B1:1401:A:H2'	29:B1:1402:C:O4'	2.19	0.42
8:AG:139:TRP:H	8:AG:142:GLU:CA	2.32	0.42
42:DK:92:ARG:O	42:DK:100:GLY:O	2.38	0.42
29:D1:1771:C:C4	29:D1:1772:U:C4	3.08	0.42
41:BJ:56:GLU:H	41:BJ:131:ILE:HA	1.84	0.42
29:D1:632:G:C2'	29:D1:633:C:O5'	2.66	0.42
38:DG:243:MET:O	38:DG:244:ASN:CB	2.67	0.42
45:DP:49:ARG:O	45:DP:52:LEU:N	2.53	0.42
29:D1:242:C:C2'	29:D1:243:G:O5'	2.67	0.42
29:D1:2399:A:C6	29:D1:2400:G:O6	2.72	0.42
46:BQ:62:ARG:C	46:BQ:64:ASN:N	2.72	0.42
21:CT:3:SER:O	21:CT:4:ASN:C	2.57	0.42
29:B1:3156:U:O2	29:B1:3156:U:H3'	2.17	0.42
34:DC:274:SER:O	34:DC:275:ARG:CB	2.67	0.42
40:DI:29:GLY:O	40:DI:30:PRO:C	2.57	0.42
48:DS:169:ALA:HA	48:DS:172:ARG:CB	2.48	0.42
48:BS:106:LEU:O	48:BS:108:LYS:N	2.52	0.42
39:BH:86:THR:O	39:BH:87:ALA:C	2.57	0.42
49:DT:20:ARG:O	49:DT:22:HIS:N	2.50	0.42
21:CT:197:SER:O	21:CT:198:ASN:O	2.38	0.42
6:AE:136:VAL:O	6:AE:137:GLY:C	2.58	0.42
1:A1:1025:A:N7	1:A1:1027:A:N9	2.68	0.42
1:A1:1142:A:H5'	1:A1:1142:A:C8	2.54	0.42
1:A1:405:C:H2'	1:A1:405:C:O2	2.19	0.42
1:A1:434:G:N2	1:A1:437:A:C2	2.87	0.42
1:A1:487:G:O2'	1:A1:488:G:H8	2.02	0.42
29:B1:1149:G:H3'	29:B1:1150:A:C5'	2.50	0.42
29:B1:1407:A:H5'	29:B1:1408:G:P	2.59	0.42
29:B1:156:G:C8	29:B1:157:A:N3	2.86	0.42
29:B1:1779:C:C5'	29:B1:1780:G:O4'	2.68	0.42
29:B1:1898:G:O3'	50:BU:21:ALA:CB	2.68	0.42
29:B1:2196:C:C2	29:B1:2242:A:N6	2.87	0.42
29:B1:2249:G:C4	29:B1:2272:G:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2259:A:C6	29:B1:2260:U:C2	3.08	0.42
29:B1:211:A:H5'	29:B1:229:G:C1'	2.49	0.42
29:B1:2853:A:C6	29:B1:2854:U:C2	3.07	0.42
29:B1:2971:A:H4'	29:B1:2972:G:C5'	2.50	0.42
29:B1:3011:A:H1'	29:B1:3012:A:H1'	2.01	0.42
29:B1:3014:U:O2	29:B1:3041:U:C2	2.73	0.42
29:B1:3046:A:H2'	29:B1:3047:U:H5'	2.02	0.42
29:B1:3060:C:O2	29:B1:3331:U:O2'	2.26	0.42
29:B1:307:A:H2'	29:B1:308:A:O4'	2.19	0.42
29:B1:307:A:N6	29:B1:308:A:C6	2.88	0.42
29:B1:326:U:OP1	29:B1:327:A:OP2	2.37	0.42
29:B1:2992:U:HO2'	29:B1:3309:G:HO2'	1.61	0.42
29:B1:3312:U:H5''	29:B1:3313:U:OP2	2.20	0.42
29:B1:2108:C:H1'	29:B1:3342:A:N7	2.34	0.42
29:B1:32:U:C5	29:B1:33:G:N7	2.87	0.42
29:B1:353:G:O2'	29:B1:354:U:OP2	2.37	0.42
29:B1:517:G:O3'	29:B1:518:G:O4'	2.38	0.42
29:B1:520:U:H4'	29:B1:521:A:C5'	2.50	0.42
29:B1:651:G:C6	29:B1:652:G:O6	2.73	0.42
29:B1:708:G:C2	29:B1:712:G:C6	3.08	0.42
29:B1:771:A:N6	29:B1:772:U:H3	2.17	0.42
29:B1:759:U:C5	29:B1:773:G:C6	3.07	0.42
29:B1:859:G:H21	29:B1:861:C:H1'	1.78	0.42
29:B1:883:A:C5	29:B1:921:A:N6	2.87	0.42
46:BQ:122:ALA:CB	46:BQ:143:PRO:C	2.87	0.42
1:C1:1087:A:C6	1:C1:1088:A:C6	3.08	0.42
1:C1:1109:G:C4	1:C1:1110:G:N7	2.87	0.42
1:C1:1120:U:H2'	1:C1:1121:C:H6	1.85	0.42
1:C1:1133:A:N3	1:C1:1133:A:H2'	2.34	0.42
1:C1:123:G:C6	1:C1:124:A:C8	3.07	0.42
1:C1:1793:G:N2	1:C1:1794:A:H1'	2.34	0.42
1:C1:192:U:C6	1:C1:192:U:C3'	3.02	0.42
1:C1:192:U:C2	1:C1:192:U:OP1	2.73	0.42
1:C1:194:U:H5'	1:C1:195:G:O4'	2.19	0.42
1:C1:23:G:H2'	1:C1:24:U:O4'	2.18	0.42
1:C1:266:A:O3'	1:C1:267:U:C4'	2.68	0.42
1:C1:271:A:C2	1:C1:285:G:C5	3.06	0.42
1:C1:353:A:C6	1:C1:354:C:C2	3.07	0.42
1:C1:392:G:N2	1:C1:406:U:C2	2.87	0.42
1:C1:524:U:C2	1:C1:527:A:C2	3.07	0.42
1:C1:526:A:OP1	1:C1:527:A:N6	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:586:G:C2'	1:C1:587:C:O5'	2.68	0.42
1:C1:589:C:H2'	1:C1:590:C:H6	1.83	0.42
1:C1:602:U:H2'	1:C1:603:U:C6	2.54	0.42
1:C1:60:U:C2'	1:C1:61:A:H5'	2.50	0.42
1:C1:939:A:C4	1:C1:940:A:C8	3.07	0.42
8:CG:36:GLN:C	8:CG:39:LYS:H	2.23	0.42
29:D1:1404:G:C6	29:D1:1408:G:C6	3.06	0.42
29:D1:1463:U:C5	29:D1:1464:G:N7	2.87	0.42
29:D1:1554:U:H4'	29:D1:1580:A:N6	2.34	0.42
29:D1:1618:G:C6	29:D1:1619:A:C6	3.07	0.42
29:D1:1793:C:C2'	29:D1:1794:G:OP1	2.67	0.42
29:D1:1886:A:C5	29:D1:1887:A:C8	3.07	0.42
29:D1:2243:A:C2	29:D1:2313:A:C5	3.08	0.42
29:D1:2259:A:C6	29:D1:2260:U:O2	2.72	0.42
29:D1:2265:C:O5'	29:D1:2265:C:H6	2.02	0.42
29:D1:2288:G:H2'	29:D1:2289:U:H6	1.78	0.42
29:D1:2349:U:C4	29:D1:2350:C:N4	2.88	0.42
29:D1:2413:A:N3	29:D1:2414:G:N7	2.68	0.42
29:D1:2417:U:C4	29:D1:2606:G:O6	2.72	0.42
29:D1:263:C:P	29:D1:264:G:OP2	2.78	0.42
29:D1:2643:A:C6	29:D1:2645:G:H1'	2.54	0.42
29:D1:268:A:HO2'	29:D1:269:G:P	2.40	0.42
29:D1:269:G:C2	29:D1:294:U:C6	3.06	0.42
29:D1:2748:A:C5	29:D1:2749:G:H1'	2.55	0.42
29:D1:2899:C:C2	40:DI:171:ASP:O	2.72	0.42
29:D1:3057:U:C5'	29:D1:3086:A:H61	2.29	0.42
29:D1:3343:G:C8	29:D1:3344:A:C5	3.08	0.42
74:D1:3477:OHX:N4	74:D1:3588:OHX:N6	2.67	0.42
29:D1:2247:G:OP1	74:D1:3598:OHX:N1	2.52	0.42
29:D1:523:A:C2	29:D1:524:U:C1'	3.02	0.42
29:D1:524:U:HO2'	29:D1:525:C:C5'	2.32	0.42
29:D1:685:G:H2'	29:D1:686:G:H5'	2.02	0.42
29:D1:684:G:C5	29:D1:685:G:N7	2.88	0.42
29:D1:913:A:H8	29:D1:913:A:H5'	1.84	0.42
29:D1:914:A:P	29:D1:914:A:H8	2.41	0.42
29:D1:919:U:C4	29:D1:923:C:C2	3.08	0.42
29:D1:943:U:O2'	29:D1:944:C:C5'	2.67	0.42
29:D1:954:U:C4'	29:D1:954:U:OP1	2.67	0.42
29:D1:960:U:O3'	29:D1:961:C:H4'	2.19	0.42
29:D1:962:A:N6	29:D1:2408:U:O2	2.52	0.42
31:D3:111:A:C1'	31:D3:112:U:OP1	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:57:C:H4'	31:D3:63:G:C5	2.55	0.42
35:DD:8:VAL:O	35:DD:17:ALA:HB3	2.19	0.42
35:DD:54:GLU:C	35:DD:56:ALA:N	2.72	0.42
1:A1:230:C:C2'	1:A1:231:U:H5'	2.49	0.42
1:A1:230:C:O2'	1:A1:231:U:H5'	2.19	0.42
1:A1:727:U:O2'	1:A1:728:U:H5'	2.19	0.42
29:B1:2628:A:C6	29:B1:2629:U:C6	3.08	0.42
29:B1:2639:G:N3	29:B1:2639:G:H2'	2.35	0.42
29:B1:2631:U:H5'	29:B1:2757:U:O2	2.19	0.42
29:B1:2762:A:C8	29:B1:2763:U:C5	3.08	0.42
41:DJ:170:LYS:CB	41:DJ:172:GLY:N	2.82	0.42
1:A1:186:C:H42	1:A1:199:G:H1	0.63	0.42
1:A1:204:G:C2	1:A1:205:U:C2	3.07	0.42
1:A1:267:U:OP2	1:A1:267:U:C6	2.73	0.42
5:AD:113:ILE:O	5:AD:114:ILE:C	2.56	0.42
30:D2:11:A:P	30:D2:13:A:C5	3.13	0.42
30:D2:13:A:C4'	30:D2:13:A:N3	2.82	0.42
30:D2:11:A:P	30:D2:13:A:N7	2.92	0.42
30:D2:73:C:C2	30:D2:74:C:C5	3.06	0.42
29:B1:2677:G:C2	29:B1:2679:A:C4	3.06	0.42
1:C1:1181:U:C2	1:C1:1182:U:C6	3.08	0.42
1:C1:1480:G:C2	1:C1:1528:U:N3	2.88	0.42
1:C1:1563:C:C2	1:C1:1564:U:C5	3.08	0.42
1:C1:1614:A:H2	1:C1:1616:G:P	2.42	0.42
1:C1:1557:U:H5	10:CI:81:ARG:O	2.03	0.42
1:A1:1256:A:H5''	1:A1:1257:U:O5'	2.19	0.42
1:A1:1275:A:C6	1:A1:1438:G:C6	3.08	0.42
1:A1:1366:U:C4	1:A1:1367:G:N7	2.87	0.42
1:A1:1378:U:O2	1:A1:1378:U:C2'	2.67	0.42
1:A1:1437:U:O2	1:A1:1437:U:H2'	2.16	0.42
1:A1:1543:A:N3	1:A1:1543:A:H2'	2.34	0.42
1:A1:1565:C:O2'	10:AI:15:HIS:HA	2.19	0.42
29:B1:383:G:O3'	29:B1:385:A:N7	2.53	0.42
29:B1:3238:G:C6	29:B1:3250:U:N3	2.87	0.42
29:D1:1389:G:N3	29:D1:1418:A:H2	2.17	0.42
29:D1:197:G:C4	29:D1:198:A:C8	3.08	0.42
29:D1:1256:G:C5	29:D1:1257:C:C5	3.07	0.42
29:D1:1259:A:N6	29:D1:1260:A:N1	2.68	0.42
4:CC:92:GLN:O	4:CC:94:ARG:N	2.53	0.42
1:C1:1323:C:H5''	1:C1:1324:G:P	2.59	0.42
1:C1:1339:C:H2'	1:C1:1340:U:H5'	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1408:G:O2'	1:C1:1409:G:N3	2.43	0.42
29:B1:1063:G:C8	29:B1:1064:A:C1'	3.02	0.42
1:A1:945:U:N3	1:A1:946:U:H5	2.18	0.42
1:A1:1651:A:N1	1:A1:1652:C:C4	2.87	0.42
1:A1:1330:G:H2'	1:A1:1331:A:O4'	2.19	0.42
1:A1:1416:G:C2	1:A1:1417:A:H1'	2.53	0.42
29:D1:1685:C:C6	29:D1:1687:U:C4	3.07	0.42
29:D1:3074:G:H2'	29:D1:3075:G:C8	2.55	0.42
30:D2:90:U:H3'	30:D2:91:G:H8	1.85	0.42
20:CS:39:CYS:O	20:CS:40:ARG:O	2.38	0.42
29:B1:2881:C:O2	29:B1:2882:U:C6	2.73	0.42
29:D1:2652:U:C2'	29:D1:2653:C:O5'	2.68	0.42
1:C1:1658:G:OP1	1:C1:1659:A:P	2.77	0.42
29:B1:1704:A:N3	29:B1:1741:A:C5	2.87	0.42
29:D1:836:A:C4	29:D1:837:A:C8	3.07	0.42
29:B1:1021:G:N2	29:B1:1032:C:H1'	2.35	0.42
29:B1:2131:A:H3'	29:B1:2132:C:H5''	2.00	0.42
29:D1:1739:U:H2'	29:D1:1740:U:C4'	2.50	0.42
29:B1:102:C:O2'	29:B1:103:G:H5'	2.20	0.42
43:BN:11:ASN:HA	43:BN:12:TRP:HA	1.96	0.42
43:DN:23:ILE:CA	43:DN:32:LEU:HA	2.50	0.42
13:CL:76:PRO:C	13:CL:78:HIS:N	2.72	0.42
5:AD:60:ASP:O	5:AD:61:TYR:CB	2.67	0.42
29:B1:1471:U:C1'	48:BS:3:ASN:HA	2.49	0.42
29:D1:2469:G:C5	29:D1:2477:G:N2	2.88	0.42
52:BW:54:TYR:C	52:BW:56:ARG:H	2.23	0.42
29:B1:737:G:N3	29:B1:738:A:C8	2.88	0.42
29:D1:2529:A:C8	29:D1:2530:G:N7	2.88	0.42
47:DR:51:ALA:C	47:DR:53:PHE:N	2.71	0.42
43:DN:107:GLU:C	43:DN:109:ARG:N	2.72	0.42
1:A1:743:U:H5	1:A1:809:A:C2	2.36	0.42
29:D1:667:C:H2'	29:D1:668:G:O5'	2.20	0.42
34:DC:90:VAL:CB	34:DC:103:THR:N	2.82	0.42
29:D1:3050:U:C5	29:D1:3051:U:C4	3.07	0.42
1:A1:1306:C:C4	1:A1:1319:A:N1	2.88	0.42
1:A1:319:U:C5'	1:A1:319:U:H6	2.26	0.42
29:B1:731:U:OP1	47:BR:135:GLN:CB	2.67	0.42
49:DT:50:LYS:O	49:DT:52:MET:N	2.53	0.42
43:BN:107:GLU:O	43:BN:110:ALA:HB3	2.19	0.42
29:B1:1005:G:H2'	29:B1:1006:A:O4'	2.19	0.42
36:BE:36:LEU:C	36:BE:38:THR:H	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BP:94:ARG:O	45:BP:97:ALA:HB3	2.19	0.42
52:DW:132:ALA:O	52:DW:135:ILE:N	2.53	0.42
1:C1:1306:C:O2'	1:C1:1307:U:C5	2.72	0.42
43:DN:12:TRP:N	43:DN:60:LEU:HA	2.34	0.42
51:DV:32:GLN:O	51:DV:33:ASN:CB	2.68	0.42
29:B1:869:G:H2'	29:B1:869:G:N3	2.35	0.42
38:DG:144:ILE:O	38:DG:145:ARG:C	2.58	0.42
1:C1:1667:A:H2'	1:C1:1668:G:H8	1.85	0.42
11:AJ:24:ALA:HA	11:AJ:64:ASP:HA	2.00	0.42
35:BD:134:LEU:C	35:BD:136:LEU:N	2.73	0.42
29:B1:3083:G:C4	29:B1:3084:C:C6	3.07	0.42
50:BU:105:PRO:O	50:BU:106:LYS:C	2.56	0.42
5:AD:44:ASN:C	5:AD:46:TRP:H	2.21	0.42
29:D1:1860:G:H2'	29:D1:1861:G:C8	2.54	0.42
1:A1:632:U:C2'	1:A1:633:U:O5'	2.67	0.42
40:BI:29:GLY:O	40:BI:30:PRO:C	2.58	0.42
21:AT:139:GLN:O	21:AT:141:LEU:N	2.52	0.42
46:BQ:70:THR:O	46:BQ:71:ALA:O	2.38	0.42
42:DK:110:ILE:O	42:DK:111:ASP:CB	2.67	0.42
29:B1:2474:G:H2'	29:B1:2475:G:C8	2.55	0.42
6:CE:136:VAL:O	6:CE:137:GLY:C	2.57	0.42
34:BC:27:ALA:HB2	34:BC:219:ALA:HA	2.01	0.42
34:DC:335:ILE:O	34:DC:336:VAL:O	2.37	0.42
39:DH:111:LYS:HA	39:DH:112:GLU:HA	1.48	0.42
73:DM:29:GLY:N	73:DM:186:THR:O	2.53	0.42
1:A1:1050:G:H2'	1:A1:1051:G:H4'	2.00	0.42
1:A1:104:A:N7	1:A1:106:U:C5	2.88	0.42
1:A1:1109:G:C3'	1:A1:1110:G:H5''	2.47	0.42
1:A1:1636:C:C4	1:A1:1638:G:N3	2.88	0.42
1:A1:440:U:H3'	1:A1:441:A:C5'	2.43	0.42
1:A1:446:A:C6	1:A1:447:U:C5	3.08	0.42
1:A1:492:A:N7	1:A1:494:U:OP2	2.53	0.42
1:A1:853:G:C6	1:A1:854:U:O4	2.73	0.42
1:A1:938:G:C2	1:A1:942:G:C5	3.08	0.42
1:A1:940:A:N1	1:A1:941:A:C5	2.87	0.42
1:A1:871:G:C6	1:A1:957:G:N1	2.88	0.42
29:B1:1103:A:OP1	29:B1:1103:A:O4'	2.37	0.42
29:B1:1220:U:H2'	29:B1:1286:A:N6	2.34	0.42
29:B1:1435:A:C8	29:B1:1437:C:C1'	3.03	0.42
29:B1:158:G:C8	29:B1:158:G:H3'	2.55	0.42
29:B1:1794:G:H5''	33:BB:186:PHE:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1838:G:C5'	29:B1:1839:A:O4'	2.68	0.42
29:B1:2155:G:C6	29:B1:2156:C:C4	3.08	0.42
29:B1:2255:A:H4'	29:B1:2256:A:OP1	2.12	0.42
29:B1:2328:U:N3	29:B1:2329:C:C5	2.88	0.42
29:B1:2416:U:H2'	29:B1:2417:U:C6	2.55	0.42
29:B1:2859:U:O2'	74:B1:3417:OHX:N4	2.53	0.42
29:B1:2917:G:N3	29:B1:2918:G:C8	2.88	0.42
29:B1:3070:A:C4	29:B1:3071:U:C5	3.08	0.42
29:B1:1455:U:OP1	29:B1:3078:U:C2	2.72	0.42
29:B1:3088:G:C5	29:B1:3089:C:C4	3.07	0.42
29:B1:3113:A:C2	29:B1:3122:A:C8	3.07	0.42
29:B1:3152:U:H5'	29:B1:3294:A:C4'	2.50	0.42
29:B1:3323:A:C2	29:B1:3324:C:C2	3.08	0.42
29:B1:377:A:H2'	29:B1:391:A:H61	1.82	0.42
29:B1:394:G:N2	29:B1:399:A:C8	2.87	0.42
29:B1:574:U:C2'	29:B1:575:G:C5'	2.59	0.42
29:B1:756:U:C5'	29:B1:757:C:OP2	2.66	0.42
29:B1:800:G:C4	29:B1:933:A:N6	2.88	0.42
29:B1:836:A:H3'	29:B1:837:A:H8	1.85	0.42
29:B1:83:U:C4	29:B1:84:U:C2	3.07	0.42
31:B3:102:U:O4	31:B3:103:G:C6	2.73	0.42
31:B3:143:U:H2'	31:B3:144:G:H8	1.78	0.42
37:BF:150:LYS:C	37:BF:152:THR:H	2.21	0.42
29:B1:943:U:C3'	54:BY:10:LYS:HA	2.46	0.42
1:C1:1035:G:C2'	1:C1:1036:A:O4'	2.67	0.42
1:C1:14:C:C2	1:C1:15:U:C5	3.07	0.42
1:C1:1643:U:C2	1:C1:1644:C:C6	3.08	0.42
1:C1:1756:A:C8	1:C1:1756:A:P	3.13	0.42
1:C1:1780:G:C5	1:C1:1781:A:C5	3.07	0.42
1:C1:1030:A:C5	1:C1:1792:G:C6	3.07	0.42
1:C1:391:A:C2	1:C1:392:G:C4	3.07	0.42
1:C1:93:A:N6	1:C1:398:G:C5	2.87	0.42
1:C1:392:G:C2	1:C1:406:U:N3	2.88	0.42
1:C1:518:A:C3'	1:C1:519:C:C5'	2.98	0.42
1:C1:521:A:C5'	1:C1:522:U:OP1	2.68	0.42
1:C1:550:A:O4'	1:C1:556:A:C2	2.73	0.42
1:C1:637:C:O2'	1:C1:638:U:H5'	2.20	0.42
1:C1:636:A:C2	1:C1:861:U:O2	2.72	0.42
1:C1:8:U:O2'	74:C1:1953:OHX:N4	2.52	0.42
29:D1:993:G:H1	29:D1:1056:U:H3	1.66	0.42
29:D1:1145:G:C5	29:D1:1146:C:C6	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1150:A:H3'	29:D1:1151:U:H6	1.84	0.42
29:D1:1472:U:H2'	29:D1:1473:G:H8	1.85	0.42
29:D1:1506:A:N6	29:D1:1513:G:C6	2.87	0.42
29:D1:1558:A:H5''	29:D1:1559:A:O4'	2.18	0.42
29:D1:1595:U:C2	29:D1:1596:C:C5	3.07	0.42
29:D1:1662:G:C6	29:D1:1663:C:N4	2.87	0.42
29:D1:2193:U:O2'	29:D1:2194:G:P	2.78	0.42
29:D1:2194:G:C6	29:D1:2195:C:N4	2.88	0.42
29:D1:2279:A:C4'	29:D1:2280:A:C5'	2.97	0.42
29:D1:2287:C:O2	29:D1:2298:U:H5''	2.19	0.42
29:D1:22:G:N3	29:D1:23:A:C8	2.86	0.42
29:D1:2689:A:N3	29:D1:2702:A:N1	2.64	0.42
29:D1:2745:G:N2	29:D1:2748:A:OP2	2.52	0.42
29:D1:2836:C:H2'	29:D1:2837:A:O4'	2.19	0.42
29:D1:2856:G:N1	29:D1:2857:C:C4	2.88	0.42
29:D1:2819:A:H5''	29:D1:2866:U:C5	2.54	0.42
29:D1:2919:A:H2'	29:D1:2920:U:H5'	2.02	0.42
29:D1:3012:A:N3	29:D1:3013:U:C6	2.88	0.42
29:D1:3023:U:H4'	29:D1:3024:A:OP2	2.19	0.42
29:D1:30:G:C5	29:D1:31:C:C5	3.07	0.42
29:D1:3159:C:H2'	29:D1:3160:U:C6	2.54	0.42
29:D1:315:C:O2	29:D1:316:U:C5	2.70	0.42
29:D1:3294:A:N1	29:D1:3295:A:C4	2.88	0.42
29:D1:3371:G:C6	29:D1:3372:A:C2	3.08	0.42
29:D1:3393:U:C4	29:D1:3394:U:C4	3.07	0.42
74:D1:3408:OHX:N6	74:D1:3582:OHX:N6	2.68	0.42
29:D1:340:C:C4	31:D3:25:G:C2	3.07	0.42
29:D1:384:A:C1'	29:D1:1465:A:C5	3.02	0.42
29:D1:424:G:O2'	29:D1:425:G:OP1	2.32	0.42
29:D1:574:U:C4'	29:D1:574:U:C6	3.02	0.42
29:D1:595:G:C6	29:D1:596:C:C5	3.07	0.42
29:D1:607:A:C2	29:D1:608:A:C1'	3.03	0.42
29:D1:740:G:N3	29:D1:740:G:H2'	2.34	0.42
29:D1:761:A:C2	29:D1:762:U:C1'	3.00	0.42
29:D1:759:U:C2	29:D1:773:G:N1	2.87	0.42
31:D3:35:C:H2'	31:D3:36:G:H8	1.85	0.42
29:D1:513:G:O2'	37:DF:147:ALA:HB1	2.20	0.42
29:D1:1370:G:OP1	54:DY:15:VAL:O	2.38	0.42
1:A1:709:C:H42	1:A1:730:G:H1'	1.83	0.42
1:A1:715:U:N3	1:A1:724:C:N4	2.68	0.42
1:A1:725:U:C2	1:A1:726:C:H1'	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:234:G:N3	1:C1:234:G:H3'	2.35	0.42
1:A1:151:G:C6	1:A1:164:A:C6	3.07	0.42
1:A1:169:A:O2'	1:A1:171:A:C8	2.67	0.42
1:A1:273:G:O2'	1:A1:274:G:P	2.77	0.42
1:A1:78:A:C2	1:A1:78:A:OP1	2.72	0.42
30:D2:63:A:N1	30:D2:65:G:C6	2.88	0.42
30:D2:74:C:C5	30:D2:75:G:C4	3.08	0.42
1:C1:1720:G:C6	1:C1:1721:A:N3	2.87	0.42
1:C1:321:C:C2'	1:C1:322:G:C5'	2.94	0.42
1:C1:335:U:H5'	1:C1:336:G:OP2	2.19	0.42
1:A1:1716:C:C2'	1:A1:1717:G:H5'	2.49	0.42
1:A1:249:U:C6	1:A1:249:U:P	3.13	0.42
1:A1:337:G:H5'	1:A1:338:C:C5	2.54	0.42
1:C1:1196:A:C4'	1:C1:1197:C:O5'	2.67	0.42
1:C1:1348:A:C5	1:C1:1349:G:H5'	2.55	0.42
1:C1:1348:A:N3	1:C1:1379:C:C6	2.87	0.42
1:C1:1474:G:C2	1:C1:1475:A:C4	3.07	0.42
1:C1:1528:U:H2'	1:C1:1529:C:C6	2.55	0.42
1:C1:1528:U:H2'	1:C1:1529:C:H6	1.84	0.42
1:C1:1550:A:C4	1:C1:1551:U:C5	3.08	0.42
1:C1:1595:U:H6	1:C1:1596:C:C2	2.37	0.42
1:C1:1600:A:O2'	1:C1:1602:C:N4	2.51	0.42
1:C1:1566:U:H5''	13:CL:39:GLY:N	2.35	0.42
1:A1:1250:U:C2	1:A1:1251:U:C2	3.08	0.42
1:A1:1263:G:N2	1:A1:1264:G:H1'	2.32	0.42
1:A1:1467:C:H2'	1:A1:1468:U:H6	1.81	0.42
1:A1:1474:G:C4	1:A1:1475:A:N7	2.88	0.42
1:A1:1484:G:H22	1:A1:1605:G:N2	2.18	0.42
1:A1:1538:U:C6	1:A1:1538:U:C3'	3.02	0.42
1:A1:1568:C:OP1	1:A1:1568:C:H4'	2.19	0.42
1:A1:1573:A:C4'	1:A1:1574:G:OP2	2.68	0.42
1:A1:1348:A:P	15:AN:12:GLN:O	2.78	0.42
1:C1:1050:G:H2'	1:C1:1051:G:H4'	2.02	0.42
29:B1:3197:G:H2'	29:B1:3198:U:OP1	2.19	0.42
29:D1:3191:G:C4	29:D1:3202:G:C2	3.07	0.42
29:D1:405:U:C4	29:D1:406:G:C4	3.07	0.42
29:D1:197:G:H2'	29:D1:198:A:C8	2.51	0.42
29:B1:1237:G:C2	29:B1:1263:A:N1	2.88	0.42
29:B1:1257:C:OP2	29:B1:1258:U:C2	2.72	0.42
29:B1:1279:C:C2	29:B1:1280:C:C6	3.07	0.42
29:D1:3218:A:C4'	29:D1:3220:G:C8	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:30:G:C6	30:D2:31:U:C2	3.07	0.42
29:D1:1265:U:O4	29:D1:1276:U:C2	2.72	0.42
29:D1:1239:C:O3'	72:DL:97:ASN:O	2.36	0.42
29:B1:2436:U:C5'	29:B1:2437:G:OP2	2.64	0.42
4:CC:10:LYS:O	4:CC:13:ALA:HB3	2.20	0.42
29:D1:3347:A:N6	29:D1:3348:G:O6	2.52	0.42
29:D1:3355:U:O2'	29:D1:3356:G:O5'	2.37	0.42
29:B1:71:A:H5''	29:B1:73:C:C4	2.54	0.42
29:D1:3244:A:O2'	29:D1:3245:A:C8	2.68	0.42
1:A1:1282:U:H5''	1:A1:1283:U:OP2	2.19	0.42
2:CA:13:ASP:O	2:CA:14:ALA:CB	2.68	0.42
29:B1:1064:A:H5''	29:B1:1095:U:C4	2.55	0.42
1:C1:701:U:H2'	1:C1:702:G:H1'	2.00	0.42
16:CO:29:PRO:O	16:CO:30:SER:CB	2.67	0.42
29:B1:128:G:C5	29:B1:129:U:C4	3.08	0.42
29:B1:1468:A:C6	29:B1:1469:C:N4	2.88	0.42
29:D1:1083:G:O2'	29:D1:1084:A:O5'	2.31	0.42
29:B1:1648:A:C2'	29:B1:1649:U:O4'	2.53	0.42
9:AH:85:ALA:HA	9:AH:86:THR:HA	1.38	0.42
29:B1:3274:A:C1'	29:B1:3275:U:O5'	2.57	0.42
43:DN:49:PRO:O	43:DN:53:VAL:O	2.36	0.42
11:CJ:93:HIS:HA	11:CJ:96:TYR:O	2.19	0.42
1:A1:357:G:N3	1:A1:357:G:H2'	2.34	0.42
29:D1:2582:C:OP1	74:D1:3567:OHX:N6	2.52	0.42
29:D1:1352:A:OP2	29:D1:1352:A:C8	2.72	0.42
29:D1:250:U:H3'	29:D1:251:G:C8	2.54	0.42
29:D1:1217:A:C6	29:D1:1218:U:C4	3.07	0.42
1:A1:782:U:C1'	1:A1:783:G:OP2	2.67	0.42
1:C1:1579:U:N3	1:C1:1580:C:C5	2.87	0.42
29:D1:1024:G:N7	29:D1:1025:A:N7	2.67	0.42
1:A1:760:A:C6	1:A1:791:A:C6	3.08	0.42
19:CR:28:VAL:O	19:CR:29:ARG:CB	2.68	0.42
1:A1:1783:C:N3	1:A1:1784:C:C5	2.88	0.42
29:D1:355:A:N1	29:D1:365:A:C4	2.88	0.42
29:D1:1819:U:C4	29:D1:1820:U:O4	2.72	0.42
54:DY:134:ALA:O	54:DY:137:LYS:N	2.42	0.42
29:B1:1814:A:O3'	29:B1:1816:A:N3	2.52	0.42
21:AT:21:THR:N	21:AT:37:SER:HA	2.25	0.42
29:B1:268:A:N6	29:B1:296:A:OP2	2.52	0.42
36:DE:257:GLU:CA	36:DE:259:LYS:N	2.76	0.42
20:AS:42:CYS:O	20:AS:45:GLU:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1622:G:H3'	1:C1:1623:C:C6	2.45	0.42
42:DK:155:THR:O	42:DK:156:LYS:C	2.57	0.42
29:B1:247:C:N4	29:B1:248:U:C2	2.88	0.42
45:BP:184:THR:O	45:BP:187:GLU:CB	2.67	0.42
32:BA:167:VAL:O	32:BA:168:ALA:HB2	2.19	0.42
29:B1:1700:G:C5	29:B1:1701:C:C5	3.07	0.42
5:AD:176:THR:O	5:AD:179:ALA:HB3	2.18	0.42
33:DB:121:GLY:O	33:DB:122:ASP:C	2.58	0.42
35:BD:251:THR:O	35:BD:252:GLU:O	2.37	0.42
6:AE:135:ALA:HB2	6:AE:140:ILE:HA	1.99	0.42
29:D1:1636:U:H3	29:D1:1710:C:C1'	2.33	0.42
15:CN:31:VAL:O	15:CN:32:LYS:C	2.58	0.42
49:BT:56:PHE:C	49:BT:58:GLN:N	2.73	0.42
5:AD:66:GLN:HA	5:AD:86:GLN:C	2.40	0.42
5:CD:182:ALA:C	5:CD:184:PHE:H	2.23	0.42
15:AN:31:VAL:O	15:AN:32:LYS:C	2.58	0.42
43:BN:102:LYS:O	43:BN:104:ALA:N	2.53	0.42
29:D1:166:C:C4	29:D1:167:U:C4	3.08	0.42
21:CT:95:ALA:C	21:CT:97:GLY:N	2.73	0.42
6:AE:26:ALA:C	6:AE:28:LEU:N	2.72	0.42
40:DI:150:SER:CB	40:DI:153:ASP:CB	2.97	0.42
48:DS:140:GLU:O	48:DS:143:ILE:N	2.53	0.42
13:AL:24:GLY:O	13:AL:25:ASN:CB	2.67	0.42
33:BB:195:SER:HA	33:BB:196:TRP:C	2.40	0.42
29:D1:3054:U:OP2	29:D1:3054:U:H6	2.03	0.42
29:B1:2843:U:H3'	29:B1:2843:U:P	2.59	0.42
1:C1:1443:U:O5'	1:C1:1443:U:H6	2.03	0.42
1:A1:1012:U:H2'	1:A1:1013:A:O4'	2.18	0.42
1:A1:1033:C:O5'	1:A1:1033:C:H6	2.03	0.42
1:A1:1096:C:C2'	1:A1:1100:G:OP2	2.68	0.42
1:A1:1150:G:N3	1:A1:1151:A:H1'	2.34	0.42
1:A1:1793:G:C4	1:A1:1794:A:C8	3.07	0.42
1:A1:102:U:O4	1:A1:360:A:C8	2.72	0.42
1:A1:433:C:N4	1:A1:434:G:C6	2.88	0.42
1:A1:492:A:C6	1:A1:494:U:H5''	2.54	0.42
1:A1:514:G:N7	1:A1:538:A:C2	2.87	0.42
1:A1:549:G:N3	1:A1:550:A:C8	2.88	0.42
1:A1:606:A:N9	1:A1:608:U:C5	2.88	0.42
29:B1:107:A:C2'	29:B1:108:A:O5'	2.68	0.42
29:B1:1129:A:C6	29:B1:1130:A:N1	2.85	0.42
29:B1:118:U:C6	29:B1:118:U:C3'	3.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1198:C:OP2	29:B1:1200:A:C8	2.73	0.42
29:B1:1316:C:H5'	29:B1:1317:A:H5''	2.01	0.42
29:B1:1440:G:C2	29:B1:1441:G:C8	3.08	0.42
29:B1:1455:U:H2'	29:B1:1456:A:N7	2.34	0.42
29:B1:1560:G:OP2	29:B1:1560:G:C3'	2.61	0.42
29:B1:1843:C:H2'	29:B1:1844:C:H6	1.84	0.42
29:B1:223:U:HO2'	29:B1:224:C:P	2.37	0.42
29:B1:2284:C:C2	29:B1:2308:C:C1'	3.02	0.42
29:B1:2308:C:N4	29:B1:2309:A:C6	2.88	0.42
29:B1:2357:A:C2'	29:B1:2358:A:O5'	2.68	0.42
29:B1:2376:G:N2	29:B1:2377:G:C2	2.87	0.42
29:B1:2779:A:C4	29:B1:2780:A:C8	3.08	0.42
29:B1:2821:C:C3'	29:B1:2821:C:C6	3.02	0.42
29:B1:282:G:C2	29:B1:286:U:C4'	3.02	0.42
29:B1:2840:C:C4	29:B1:2841:G:C5	3.08	0.42
29:B1:2933:A:N7	29:B1:2934:A:C5	2.88	0.42
29:B1:307:A:C2'	29:B1:308:A:H5'	2.50	0.42
29:B1:3331:U:C6	29:B1:3331:U:C5'	3.02	0.42
29:B1:3378:C:C2'	29:B1:3378:C:O2	2.50	0.42
29:B1:39:A:H3'	29:B1:41:G:OP2	2.20	0.42
29:B1:41:G:C8	29:B1:42:C:H5	2.29	0.42
29:B1:424:G:O2'	29:B1:425:G:OP1	2.30	0.42
29:B1:522:A:C6	29:B1:523:A:C8	3.08	0.42
29:B1:591:G:N2	29:B1:592:A:N3	2.67	0.42
29:B1:66:A:H5''	29:B1:316:U:OP1	2.19	0.42
29:B1:888:A:N6	29:B1:889:U:H3	2.18	0.42
29:B1:88:A:C4	29:B1:89:A:H1'	2.54	0.42
29:B1:895:A:C4	29:B1:897:U:C6	3.07	0.42
29:B1:901:G:N1	29:B1:902:G:C5	2.88	0.42
29:B1:1399:A:N1	31:B3:8:C:C1'	2.83	0.42
37:BF:92:SER:O	37:BF:95:GLY:N	2.51	0.42
1:C1:1028:C:C5	1:C1:1030:A:H1'	2.55	0.42
1:C1:1076:A:C8	1:C1:1077:C:C6	3.08	0.42
1:C1:1101:G:H8	1:C1:1101:G:P	2.41	0.42
1:C1:1150:G:O2'	1:C1:1151:A:P	2.78	0.42
1:C1:1636:C:C4'	1:C1:1637:C:OP2	2.59	0.42
1:C1:170:U:C2'	1:C1:170:U:O2	2.67	0.42
1:C1:1793:G:C2	1:C1:1794:A:H1'	2.55	0.42
1:C1:1793:G:C5	1:C1:1794:A:C8	3.08	0.42
1:C1:185:U:C2'	1:C1:186:C:O4'	2.67	0.42
1:C1:283:U:C5'	1:C1:284:G:OP2	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:30:G:C4	1:C1:597:G:C6	3.08	0.42
1:C1:440:U:H3'	1:C1:441:A:C5'	2.42	0.42
1:C1:445:A:C2	1:C1:446:A:C5	3.08	0.42
1:C1:937:C:H2'	1:C1:938:G:O4'	2.20	0.42
29:D1:1175:C:P	29:D1:1175:C:H3'	2.59	0.42
29:D1:1203:A:C2	29:D1:2856:G:H1'	2.55	0.42
29:D1:1287:A:C4	29:D1:1288:U:C5	3.07	0.42
29:D1:1300:G:OP2	29:D1:1301:A:O2'	2.33	0.42
29:D1:1317:A:OP2	29:D1:1317:A:H3'	2.19	0.42
29:D1:1565:G:C6	29:D1:1566:A:H1'	2.54	0.42
29:D1:1901:A:OP2	29:D1:1903:U:O4	2.38	0.42
29:D1:2785:A:C6	29:D1:2786:G:C5	3.07	0.42
29:D1:2837:A:C8	29:D1:2845:A:H2	2.37	0.42
29:D1:2903:A:C6	29:D1:2904:U:C5	3.07	0.42
29:D1:2992:U:C2'	29:D1:2993:G:C5'	2.80	0.42
29:D1:3013:U:O2	29:D1:3014:U:C6	2.72	0.42
29:D1:3112:G:C2	29:D1:3121:U:C5	3.08	0.42
29:D1:352:A:O4'	29:D1:354:U:C6	2.73	0.42
29:D1:363:G:H3'	29:D1:364:G:C5'	2.50	0.42
29:D1:412:G:C5	29:D1:413:U:C4	3.08	0.42
29:D1:515:C:C6	29:D1:515:C:OP2	2.73	0.42
29:D1:537:A:OP1	29:D1:538:G:H5'	2.18	0.42
29:D1:538:G:N3	29:D1:556:U:H5	2.16	0.42
29:D1:540:U:H2'	29:D1:541:U:H6	1.76	0.42
29:D1:594:U:C4	29:D1:595:G:N1	2.85	0.42
29:D1:865:U:C4	29:D1:866:A:C5	3.07	0.42
31:D3:109:A:H2'	31:D3:110:C:O4'	2.19	0.42
35:DD:70:ALA:O	35:DD:71:VAL:O	2.37	0.42
37:DF:143:LYS:O	37:DF:144:ALA:O	2.37	0.42
31:D3:77:A:H62	53:DX:72:SER:C	2.23	0.42
54:DY:29:PRO:O	54:DY:31:GLY:N	2.52	0.42
1:A1:713:A:C6	1:A1:714:G:C8	3.07	0.42
1:A1:741:C:HO2'	1:A1:742:U:P	2.37	0.42
1:C1:687:G:N2	1:C1:688:G:C5	2.87	0.42
29:B1:2632:G:H2'	29:B1:2633:U:O4'	2.20	0.42
30:B2:60:G:C2	30:B2:61:G:N7	2.88	0.42
31:B3:69:U:C3'	31:B3:70:G:C4'	2.81	0.42
31:B3:72:A:O3'	31:B3:73:U:H4'	2.20	0.42
31:B3:75:G:O5'	31:B3:89:A:O2'	2.37	0.42
29:B1:2701:U:OP1	49:BT:23:GLY:HA2	2.20	0.42
1:A1:149:C:O2	1:A1:149:C:H2'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:195:G:N2	1:A1:196:G:C4	2.87	0.42
1:A1:200:A:HO2'	1:A1:201:G:P	2.42	0.42
30:D2:110:G:C5	30:D2:111:U:N3	2.88	0.42
1:C1:328:A:N1	1:C1:329:G:C5	2.88	0.42
29:D1:2676:A:H2	29:D1:2680:A:C5	2.36	0.42
29:D1:2680:A:C6	42:DK:55:ARG:C	2.93	0.42
42:BK:55:ARG:O	42:BK:56:THR:C	2.58	0.42
1:A1:328:A:C6	1:A1:329:G:C5	3.07	0.42
1:A1:332:U:H3'	1:A1:334:G:OP2	2.20	0.42
1:C1:1250:U:O2	1:C1:1251:U:C2	2.72	0.42
1:C1:1271:G:C6	1:C1:1272:U:O4	2.73	0.42
1:C1:1271:G:H2'	1:C1:1272:U:H6	1.76	0.42
1:C1:1363:U:C2'	1:C1:1364:G:C1'	2.87	0.42
1:C1:1424:A:C6	1:C1:1425:A:C5	3.08	0.42
1:C1:1458:G:H5''	1:C1:1459:C:C5	2.45	0.42
1:C1:1492:A:C1'	1:C1:1493:A:O5'	2.67	0.42
1:C1:1557:U:O2	1:C1:1557:U:C2'	2.67	0.42
1:C1:1607:G:N3	1:C1:1608:U:C6	2.88	0.42
1:A1:1257:U:O2'	1:A1:1258:U:H5''	2.19	0.42
1:A1:1347:U:H5'	15:AN:10:GLU:CB	2.50	0.42
1:A1:1377:U:C3'	1:A1:1378:U:H4'	2.49	0.42
1:A1:1584:G:C2	11:AJ:125:GLU:N	2.80	0.42
1:C1:1066:C:N3	1:C1:1067:C:C6	2.88	0.42
37:BF:43:LEU:O	37:BF:44:ALA:C	2.58	0.42
29:B1:3197:G:N3	29:B1:3197:G:C2'	2.82	0.42
29:B1:3201:C:N1	29:B1:3202:G:C8	2.87	0.42
29:D1:3196:U:H1'	29:D1:3197:G:C6	2.53	0.42
29:B1:3242:G:H5'	29:B1:3243:A:OP1	2.19	0.42
30:B2:32:U:H4'	30:B2:33:U:OP1	2.19	0.42
29:B1:3017:A:O2'	29:B1:3018:C:H5'	2.20	0.42
29:D1:3217:C:H6	29:D1:3220:G:O2'	1.91	0.42
29:D1:3228:C:C2'	29:D1:3229:G:H8	2.26	0.42
1:C1:420:A:H2'	1:C1:421:A:O5'	2.19	0.42
29:D1:1262:G:O6	29:D1:1264:G:N2	2.52	0.42
29:B1:2590:A:C2	29:B1:2591:A:C8	3.08	0.42
2:CA:169:SER:O	2:CA:173:ILE:CB	2.68	0.42
1:C1:1330:G:C2'	1:C1:1331:A:H5'	2.49	0.42
1:C1:1391:A:C2	1:C1:1392:U:C5	3.08	0.42
29:B1:1079:A:N1	29:B1:1080:A:N1	2.68	0.42
1:A1:1401:A:N7	1:A1:1402:G:N9	2.68	0.42
29:D1:1688:U:H3'	29:D1:1689:U:H5	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DE:114:GLY:H	36:DE:117:GLU:H	1.68	0.42
20:CS:21:CYS:O	20:CS:22:ARG:C	2.58	0.42
29:D1:2161:G:N3	29:D1:2161:G:H2'	2.35	0.42
29:D1:2505:U:H2'	29:D1:2506:U:N1	2.34	0.42
29:B1:2883:U:O2	29:B1:2940:A:C2	2.73	0.42
29:D1:1921:A:N6	29:D1:1930:A:C8	2.86	0.42
1:C1:1279:C:H2'	1:C1:1280:C:O4'	2.20	0.42
29:D1:4:U:H2'	29:D1:4:U:O2	2.19	0.42
9:AH:61:MET:C	9:AH:63:ALA:H	2.21	0.42
29:B1:1922:A:H8	29:B1:1922:A:O5'	2.03	0.42
29:B1:1351:U:H2'	29:B1:1352:A:N7	2.34	0.42
1:C1:1221:A:C2'	1:C1:1222:C:H5'	2.50	0.42
2:AA:146:LEU:CA	2:AA:160:ILE:HA	2.38	0.42
36:BE:125:VAL:HA	36:BE:126:GLU:HA	1.62	0.42
29:D1:1001:G:C8	29:D1:1042:U:P	3.13	0.42
8:CG:145:THR:CA	8:CG:146:ALA:HB2	2.40	0.42
9:AH:71:CYS:C	9:AH:73:GLU:N	2.73	0.42
43:DN:11:ASN:CB	43:DN:64:VAL:HA	2.50	0.42
17:AP:43:PHE:O	17:AP:45:GLY:N	2.53	0.42
1:C1:1708:U:H3'	1:C1:1708:U:H6	1.84	0.42
46:DQ:28:ASN:O	46:DQ:29:THR:C	2.54	0.42
1:C1:214:G:H3'	1:C1:215:A:C5'	2.50	0.42
1:C1:717:C:O2'	1:C1:718:U:O5'	2.22	0.42
29:B1:2902:A:H5''	29:B1:3032:A:O2'	2.20	0.42
29:B1:667:C:H2'	29:B1:668:G:O5'	2.20	0.42
29:B1:295:A:H2'	29:B1:296:A:O4'	2.20	0.42
11:CJ:48:VAL:C	11:CJ:50:GLU:N	2.73	0.42
3:AB:130:ILE:O	3:AB:133:LYS:CB	2.68	0.42
29:D1:2158:A:N7	29:D1:2177:G:C2	2.87	0.42
29:D1:2746:A:C6	29:D1:2747:A:N3	2.87	0.42
29:D1:2747:A:OP1	74:D1:3462:OHX:N2	2.52	0.42
1:A1:1028:C:O2'	1:A1:1029:U:H5''	2.20	0.42
29:D1:665:A:C5	29:D1:666:A:N7	2.88	0.42
29:D1:667:C:C2'	29:D1:668:G:O5'	2.68	0.42
1:C1:926:A:C5	1:C1:927:C:C5	3.07	0.42
29:B1:1869:C:C2'	29:B1:1869:C:O2	2.65	0.42
35:DD:193:LYS:C	35:DD:195:ARG:N	2.72	0.42
52:BW:132:ALA:C	52:BW:134:ASP:N	2.72	0.42
29:B1:2511:A:H2'	29:B1:2511:A:N3	2.34	0.42
29:B1:2752:U:C2'	29:B1:2752:U:O2	2.67	0.42
40:BI:44:THR:O	40:BI:45:PHE:C	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CL:44:ASN:O	13:CL:45:LEU:C	2.58	0.42
5:AD:132:VAL:O	5:AD:136:ALA:N	2.53	0.42
46:BQ:43:LYS:O	46:BQ:46:LYS:CB	2.68	0.42
29:D1:1345:G:C6	74:D1:3480:OHX:N6	2.88	0.42
1:A1:1277:G:H5''	4:AC:139:SER:O	2.20	0.42
48:DS:8:LYS:O	48:DS:9:ARG:C	2.58	0.42
2:CA:42:PRO:O	2:CA:43:ASP:C	2.57	0.42
18:CQ:66:VAL:C	18:CQ:68:ARG:N	2.72	0.42
34:DC:83:PRO:CB	34:DC:204:ALA:CB	2.97	0.42
34:BC:216:ASP:CB	34:BC:278:ILE:HA	2.49	0.42
73:DM:5:ARG:C	73:DM:7:LYS:N	2.73	0.42
55:BZ:88:GLY:O	55:BZ:89:VAL:CB	2.68	0.42
40:DI:104:VAL:CB	40:DI:105:GLU:CB	2.98	0.42
36:DE:53:VAL:HA	36:DE:62:CYS:HA	2.00	0.42
35:BD:220:ARG:C	35:BD:222:VAL:N	2.73	0.42
10:AI:109:PRO:O	10:AI:110:GLU:C	2.58	0.42
35:DD:98:ARG:C	35:DD:99:MET:O	2.57	0.42
13:AL:105:VAL:O	13:AL:106:GLU:C	2.57	0.42
34:DC:342:LEU:O	34:DC:343:TYR:CB	2.68	0.42
1:A1:1075:C:N4	1:A1:1076:A:N1	2.67	0.42
1:A1:1150:G:C2'	1:A1:1151:A:O5'	2.68	0.42
1:A1:1297:G:C2	1:A1:1301:U:N3	2.87	0.42
1:A1:1645:G:C8	1:A1:1645:G:H3'	2.55	0.42
1:A1:389:G:C5	1:A1:390:G:C6	3.07	0.42
1:A1:390:G:H22	1:A1:407:A:N6	2.10	0.42
1:A1:518:A:C2'	1:A1:519:C:C5'	2.92	0.42
3:AB:206:THR:O	3:AB:207:LEU:C	2.57	0.42
29:B1:117:U:C6	29:B1:117:U:H3'	2.55	0.42
29:B1:1313:G:C2	29:B1:1314:C:N1	2.88	0.42
29:B1:1393:A:H2	29:B1:1394:A:C4	2.35	0.42
29:B1:1394:A:N7	29:B1:1395:G:C5	2.88	0.42
29:B1:1504:A:C3'	29:B1:1505:C:C5'	2.92	0.42
29:B1:1658:G:C2	29:B1:1796:G:O6	2.73	0.42
29:B1:2137:U:O2	29:B1:2137:U:C2'	2.58	0.42
29:B1:2408:U:O2'	29:B1:2409:G:H5'	2.19	0.42
29:B1:264:G:N1	29:B1:265:A:C5	2.88	0.42
29:B1:2850:G:C4'	29:B1:2850:G:OP1	2.53	0.42
29:B1:301:G:C5	29:B1:302:U:C5	3.07	0.42
29:B1:347:G:C2	29:B1:353:G:N7	2.88	0.42
29:B1:541:U:OP2	29:B1:541:U:C6	2.72	0.42
29:B1:754:G:H1	29:B1:778:U:H3	1.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:35:A:O2'	29:B1:810:A:H1'	2.20	0.42
29:B1:818:C:H2'	29:B1:819:U:C5'	2.47	0.42
29:B1:910:G:C5	29:B1:911:C:C4	3.07	0.42
1:C1:1073:G:N1	1:C1:1074:G:N1	2.68	0.42
1:C1:1086:A:N7	1:C1:1087:A:C5	2.88	0.42
1:C1:1102:G:H2'	1:C1:1103:U:O4'	2.19	0.42
1:C1:1150:G:N3	1:C1:1151:A:H1'	2.34	0.42
74:C1:1924:OHX:N6	74:C1:1964:OHX:N6	2.67	0.42
1:C1:270:C:H2'	1:C1:270:C:O2	2.19	0.42
1:C1:28:A:C2	1:C1:29:U:C2	3.08	0.42
1:C1:357:G:C2'	1:C1:358:U:H6	2.19	0.42
1:C1:359:A:OP1	1:C1:359:A:N3	2.52	0.42
1:C1:93:A:C6	1:C1:398:G:C5	3.08	0.42
1:C1:469:C:H2'	1:C1:470:A:C6	2.54	0.42
1:C1:545:A:H2	1:C1:546:U:C2	2.38	0.42
1:C1:572:C:C4	1:C1:573:C:C5	3.08	0.42
1:C1:599:A:C5	1:C1:600:U:C4	3.08	0.42
1:C1:813:U:O2'	1:C1:814:A:P	2.78	0.42
1:C1:95:G:N3	1:C1:95:G:H2'	2.34	0.42
29:D1:1302:A:C2'	29:D1:1303:A:O5'	2.68	0.42
29:D1:1332:A:H2'	29:D1:1333:C:C6	2.55	0.42
29:D1:1404:G:N2	29:D1:1407:A:C8	2.88	0.42
29:D1:1455:U:H2'	29:D1:1456:A:N7	2.34	0.42
29:D1:1553:U:OP1	29:D1:1554:U:H5	2.03	0.42
29:D1:1580:A:H5'	29:D1:1581:C:OP2	2.19	0.42
29:D1:1838:G:H3'	74:D1:3588:OHX:N6	2.35	0.42
29:D1:1880:U:H2'	29:D1:1881:A:O5'	2.20	0.42
29:D1:2194:G:O2'	29:D1:2195:C:H5'	2.20	0.42
29:D1:2223:A:HO2'	29:D1:2224:A:H8	0.64	0.42
29:D1:2249:G:C8	74:D1:3464:OHX:N3	2.87	0.42
29:D1:2251:G:HO2'	29:D1:2252:A:H5''	1.81	0.42
29:D1:2288:G:C2	29:D1:2289:U:C5	3.07	0.42
29:D1:2313:A:O4'	29:D1:2315:G:C8	2.73	0.42
29:D1:2325:G:C5	29:D1:2326:A:N7	2.88	0.42
29:D1:2386:A:N7	29:D1:2387:A:C8	2.87	0.42
29:D1:2654:C:H5'	29:D1:2657:A:N1	2.34	0.42
29:D1:2830:G:H5'	29:D1:2830:G:H8	1.84	0.42
29:D1:2868:U:C6	29:D1:2869:U:H5	2.38	0.42
29:D1:3087:A:H2'	29:D1:3088:G:H8	1.80	0.42
29:D1:3099:C:C2'	29:D1:3100:U:C6	3.03	0.42
29:D1:3364:C:C2	29:D1:3365:U:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3367:C:H2'	29:D1:3368:U:C6	2.54	0.42
29:D1:347:G:C6	29:D1:348:A:N6	2.88	0.42
29:D1:419:G:N7	74:D3:201:OHX:N5	2.68	0.42
29:D1:500:C:H2'	29:D1:501:A:O4'	2.20	0.42
29:D1:523:A:C2	29:D1:524:U:O4'	2.73	0.42
29:D1:595:G:C8	29:D1:595:G:C3'	3.02	0.42
29:D1:66:A:C6	29:D1:68:C:C2	3.08	0.42
29:D1:701:G:O2'	29:D1:702:C:H5'	2.20	0.42
29:D1:760:G:N2	29:D1:761:A:N7	2.50	0.42
29:D1:900:G:N2	29:D1:1589:A:C5	2.88	0.42
29:D1:916:G:C5	29:D1:924:G:C4	3.08	0.42
29:D1:917:A:C4	29:D1:918:C:C5	3.07	0.42
29:D1:955:U:C4	29:D1:956:U:O4	2.73	0.42
31:D3:116:G:H2'	31:D3:117:C:O5'	2.20	0.42
31:D3:152:G:N2	31:D3:153:U:H1'	2.35	0.42
31:D3:19:C:N1	31:D3:20:U:C5	2.88	0.42
31:D3:4:C:N4	31:D3:5:U:N3	2.67	0.42
37:DF:13:GLU:HA	37:DF:113:LYS:CB	2.49	0.42
29:B1:955:U:O2'	29:B1:2727:A:N6	2.53	0.42
30:B2:14:U:O2'	30:B2:15:C:O5'	2.37	0.42
30:B2:63:A:C6	30:B2:65:G:O6	2.73	0.42
31:B3:50:C:N4	31:B3:79:A:H61	2.17	0.42
31:B3:99:C:C5'	31:B3:100:U:OP1	2.68	0.42
31:B3:76:C:C4	53:BX:75:ARG:CB	3.03	0.42
1:A1:148:A:C5'	1:A1:149:C:OP2	2.64	0.42
1:A1:142:G:C4	1:A1:266:A:N6	2.87	0.42
1:C1:322:G:C5	1:C1:337:G:N2	2.88	0.42
29:B1:2680:A:H8	29:B1:2680:A:H3'	1.85	0.42
1:A1:248:U:C1'	1:A1:249:U:OP1	2.68	0.42
1:C1:1231:U:HO2'	1:C1:1232:U:P	2.42	0.42
1:C1:1384:A:C4	1:C1:1385:G:C8	3.07	0.42
1:C1:1508:U:C4	74:C1:1903:OHX:N1	2.88	0.42
1:C1:1527:C:C2	1:C1:1528:U:C5	3.07	0.42
1:C1:1558:U:H5	1:C1:1559:A:H2'	1.79	0.42
1:C1:1583:A:H2	1:C1:1585:U:O4	2.01	0.42
1:C1:1467:C:C5'	1:C1:1602:C:OP1	2.58	0.42
1:A1:1159:C:H6	1:A1:1159:C:H5'	1.84	0.42
1:A1:1179:G:C6	1:A1:1180:C:N3	2.88	0.42
1:A1:1239:U:H2'	1:A1:1240:U:OP2	2.20	0.42
1:A1:1241:G:N3	1:A1:1243:G:C8	2.87	0.42
1:A1:1253:U:H2'	1:A1:1254:U:O2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1347:U:O3'	1:A1:1348:A:N7	2.52	0.42
1:A1:1365:C:N4	1:A1:1366:U:C5	2.88	0.42
1:A1:1512:G:C6	1:A1:1513:G:C5	3.08	0.42
1:A1:1541:G:H2'	1:A1:1542:G:C8	2.54	0.42
1:A1:1606:C:H2'	1:A1:1607:G:H8	1.85	0.42
1:C1:1057:U:H1'	1:C1:1062:A:H61	1.85	0.42
29:B1:388:G:O2'	46:BQ:17:ALA:HB1	2.19	0.42
29:D1:3191:G:N7	29:D1:3192:U:C4	2.87	0.42
30:D2:22:A:N6	30:D2:23:A:N6	2.67	0.42
29:B1:3244:A:N9	29:B1:3245:A:H8	2.17	0.42
30:B2:30:G:C6	30:B2:49:G:C6	3.07	0.42
29:D1:1394:A:C2'	29:D1:1395:G:C5'	2.97	0.42
29:D1:204:A:H5'	29:D1:205:C:OP2	2.20	0.42
29:D1:198:A:C1'	29:D1:218:G:N3	2.78	0.42
29:D1:222:A:C4	29:D1:223:U:C5	3.08	0.42
6:AE:114:TYR:C	6:AE:116:LEU:H	2.23	0.42
1:C1:948:G:C6	1:C1:949:C:N4	2.88	0.42
30:D2:43:U:O2	30:D2:43:U:C2'	2.67	0.42
30:D2:37:G:C2	30:D2:45:A:N1	2.88	0.42
36:BE:111:GLN:O	36:BE:115:LEU:CB	2.68	0.42
29:D1:1263:A:H4'	29:D1:1264:G:O5'	2.18	0.42
29:B1:2213:A:N6	29:B1:2232:A:C4	2.88	0.42
29:D1:1064:A:O2'	29:D1:1065:A:O5'	2.38	0.42
29:D1:1624:G:O6	74:D1:3559:OHX:N3	2.53	0.42
36:BE:141:PRO:CA	36:BE:143:LYS:H	2.32	0.42
1:A1:1753:A:C2'	1:A1:1753:A:N3	2.83	0.42
29:B1:2353:G:N3	29:B1:2354:C:H6	2.17	0.42
1:A1:1390:U:C2'	1:A1:1391:A:OP2	2.67	0.42
1:A1:1400:A:C2	1:A1:1401:A:C4	3.08	0.42
29:D1:1689:U:C2	29:D1:1690:C:C6	3.08	0.42
29:D1:1383:G:N7	74:D1:3455:OHX:N6	2.67	0.42
29:B1:2879:C:C4	29:B1:2880:U:C4	3.06	0.42
29:B1:2720:G:C4	29:B1:2721:A:C8	3.08	0.42
29:D1:253:A:C6	29:D1:254:A:C5	3.08	0.42
6:CE:73:GLY:O	6:CE:75:ALA:N	2.52	0.42
1:C1:1579:U:O4	1:C1:1580:C:N4	2.53	0.42
29:D1:857:G:O2'	29:D1:858:A:P	2.78	0.42
1:A1:774:A:C2	1:A1:775:G:C1'	3.02	0.42
13:CL:124:GLY:C	13:CL:126:ARG:H	2.22	0.42
37:BF:115:GLU:C	37:BF:117:LYS:N	2.72	0.42
29:D1:1031:C:N4	29:D1:1032:C:C4	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1703:U:O2	29:D1:1703:U:C2'	2.67	0.42
29:D1:1740:U:C3'	29:D1:1741:A:C5'	2.95	0.42
29:B1:2602:G:C2'	29:B1:2603:G:O5'	2.68	0.42
41:BJ:69:ARG:O	41:BJ:70:ILE:C	2.56	0.42
34:BC:62:ARG:O	34:BC:63:PRO:C	2.54	0.42
29:B1:1541:G:C4'	29:B1:1542:G:OP2	2.68	0.42
14:AM:58:ALA:C	14:AM:60:SER:N	2.71	0.42
14:AM:130:ARG:C	14:AM:132:LEU:N	2.72	0.42
29:B1:1644:C:N4	29:B1:1805:C:OP1	2.53	0.42
1:A1:806:A:C4	1:A1:807:A:N7	2.88	0.42
1:A1:1667:A:C4	1:A1:1668:G:N7	2.87	0.42
29:D1:1708:C:OP2	29:D1:1708:C:H6	2.01	0.42
29:D1:2554:A:C2	33:DB:85:GLY:C	2.93	0.42
34:BC:145:GLU:HA	34:BC:149:ALA:H	1.85	0.42
29:D1:104:G:H8	29:D1:104:G:O5'	2.02	0.42
73:DM:14:LYS:HA	73:DM:17:GLU:CB	2.50	0.42
42:BK:133:ARG:H	42:BK:155:THR:HA	1.84	0.42
29:B1:233:C:H2'	29:B1:234:G:O4'	2.20	0.42
29:D1:3166:C:H2'	29:D1:3167:A:C8	2.54	0.42
1:C1:714:G:C2	1:C1:715:U:N3	2.88	0.42
14:AM:29:GLU:O	14:AM:30:VAL:C	2.58	0.42
1:A1:934:C:O2'	1:A1:935:U:H5'	2.20	0.42
29:B1:1830:G:N3	29:B1:1831:U:C6	2.88	0.42
45:BP:194:LEU:O	45:BP:196:ALA:N	2.53	0.42
6:CE:98:ALA:O	6:CE:99:LEU:O	2.38	0.42
3:CB:55:GLU:O	3:CB:56:ILE:C	2.57	0.42
47:DR:35:PHE:C	47:DR:36:LEU:O	2.57	0.42
13:AL:27:LYS:HA	13:AL:57:ARG:CA	2.48	0.42
32:BA:101:LYS:O	32:BA:104:SER:N	2.52	0.42
74:B1:3544:OHX:N4	74:B1:3617:OHX:N4	2.68	0.42
1:A1:1545:A:OP1	13:AL:132:ARG:CA	2.68	0.42
3:CB:83:ILE:HA	3:CB:100:ALA:HB2	2.00	0.42
55:BZ:82:GLY:O	55:BZ:83:LYS:C	2.58	0.42
18:AQ:66:VAL:C	18:AQ:68:ARG:N	2.72	0.42
34:DC:202:THR:O	34:DC:204:ALA:N	2.52	0.42
34:DC:289:ASP:H	34:DC:291:GLU:H	1.68	0.42
41:BJ:151:GLY:O	41:BJ:152:LEU:C	2.58	0.42
41:DJ:215:GLU:C	41:DJ:217:PHE:N	2.70	0.42
34:BC:291:GLU:O	34:BC:292:ALA:C	2.58	0.42
12:AK:19:ARG:O	12:AK:21:TYR:N	2.53	0.42
41:DJ:27:PRO:O	41:DJ:28:ASP:O	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2179:C:O2	33:BB:129:ALA:O	2.38	0.42
40:BI:27:VAL:O	40:BI:33:THR:HA	2.20	0.42
1:A1:12:U:C1'	1:A1:1300:A:H1'	2.44	0.42
1:A1:1645:G:C6	1:A1:1757:G:C6	3.07	0.42
1:A1:1780:G:C8	29:B1:2263:C:OP1	2.72	0.42
1:A1:515:A:N6	1:A1:537:G:N1	2.54	0.42
1:A1:590:C:C2	1:A1:591:A:C8	3.07	0.42
1:A1:817:A:C2	1:A1:855:A:C2	3.00	0.42
29:B1:1168:U:C2'	29:B1:1169:A:H5''	2.50	0.42
29:B1:1287:A:C6	29:B1:1288:U:O4	2.73	0.42
29:B1:1303:A:C8	29:B1:1304:A:C2	3.08	0.42
29:B1:1393:A:C3'	29:B1:1394:A:C5'	2.97	0.42
29:B1:404:G:O2'	29:B1:1417:G:OP1	2.35	0.42
29:B1:660:A:C6	29:B1:1435:A:C2	3.07	0.42
29:B1:941:G:H1'	29:B1:1435:A:N3	2.34	0.42
29:B1:1610:G:O2'	29:B1:1611:G:H5'	2.19	0.42
29:B1:1687:U:C2'	29:B1:1688:U:O2'	2.67	0.42
29:B1:209:A:H4'	29:B1:211:A:N7	2.35	0.42
29:B1:2136:C:C2'	29:B1:2136:C:O2	2.63	0.42
29:B1:2280:A:H3'	29:B1:2280:A:H8	1.85	0.42
29:B1:2288:G:C6	29:B1:2289:U:C4	3.08	0.42
29:B1:2834:G:C2	29:B1:2835:U:C6	3.07	0.42
29:B1:2972:G:C2'	29:B1:2973:G:O5'	2.67	0.42
29:B1:2950:G:N2	29:B1:2979:U:C6	2.88	0.42
29:B1:3039:C:H2'	29:B1:3040:A:C8	2.55	0.42
29:B1:3087:A:C2'	29:B1:3088:G:H8	2.33	0.42
29:B1:3102:G:C5'	29:B1:3102:G:C8	2.98	0.42
29:B1:3327:G:N3	29:B1:3327:G:H2'	2.33	0.42
29:B1:3377:G:C5'	74:B1:3450:OHX:N2	2.83	0.42
29:B1:408:A:C2	29:B1:409:A:N3	2.88	0.42
29:B1:527:A:H3'	29:B1:528:U:H6	1.84	0.42
29:B1:550:A:H3'	29:B1:550:A:OP2	2.20	0.42
29:B1:559:A:N9	29:B1:560:G:N7	2.68	0.42
29:B1:60:A:N7	29:B1:61:A:N7	2.68	0.42
29:B1:749:C:C2'	29:B1:749:C:O2	2.66	0.42
29:B1:837:A:OP1	29:B1:837:A:H4'	2.20	0.42
29:B1:865:U:C5	29:B1:866:A:C5	3.08	0.42
29:B1:800:G:C8	29:B1:933:A:N7	2.88	0.42
29:B1:5:G:C2	31:B3:155:A:N3	2.88	0.42
31:B3:17:A:C5	31:B3:18:U:C4	3.08	0.42
31:B3:35:C:C6	31:B3:36:G:N7	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1008:G:C2	1:C1:1009:U:C2	3.08	0.42
1:C1:1138:A:C2	1:C1:1139:A:C4	3.08	0.42
1:C1:1728:A:C6	1:C1:1729:C:C4	3.08	0.42
1:C1:1671:A:H1'	1:C1:1731:A:N1	2.35	0.42
1:C1:385:A:O2'	1:C1:386:G:C5'	2.67	0.42
1:C1:586:G:H2'	1:C1:587:C:O5'	2.19	0.42
1:C1:958:U:H2'	1:C1:960:U:OP1	2.20	0.42
1:C1:14:C:OP1	3:CB:163:GLY:C	2.58	0.42
29:D1:1289:G:N2	29:D1:1290:A:C4	2.88	0.42
29:D1:1456:A:H4'	29:D1:1457:U:O5'	2.19	0.42
29:D1:1505:C:O2'	29:D1:1506:A:H5'	2.20	0.42
29:D1:1596:C:C2	29:D1:1597:C:C5	3.08	0.42
29:D1:1906:G:H21	29:D1:1909:A:H61	1.67	0.42
29:D1:2299:A:C8	29:D1:2299:A:H5'	2.44	0.42
29:D1:2316:G:C2	29:D1:2317:A:C8	3.08	0.42
29:D1:2369:G:C2	29:D1:2379:U:N3	2.88	0.42
29:D1:2369:G:C5	29:D1:2370:G:C6	3.08	0.42
29:D1:2616:C:H2'	29:D1:2617:U:C5'	2.34	0.42
29:D1:263:C:C2	29:D1:264:G:N7	2.88	0.42
29:D1:2711:C:N3	29:D1:2712:U:C5	2.88	0.42
29:D1:2831:G:C2	29:D1:2832:C:C2	3.07	0.42
29:D1:3106:A:H2'	29:D1:3107:U:O5'	2.20	0.42
29:D1:3126:C:N3	29:D1:3127:A:C8	2.88	0.42
29:D1:3294:A:C5	29:D1:3295:A:C8	3.08	0.42
29:D1:3320:A:C2'	29:D1:3321:C:O4'	2.67	0.42
29:D1:3324:C:O2'	29:D1:3325:G:C5'	2.60	0.42
29:D1:1943:C:C4'	29:D1:3344:A:H5'	2.50	0.42
29:D1:3378:C:O3'	34:DC:313:HIS:CA	2.62	0.42
29:D1:3390:G:C4	29:D1:3391:A:N9	2.88	0.42
29:D1:342:A:C6	29:D1:349:A:C8	3.08	0.42
29:D1:541:U:H2'	29:D1:542:G:O4'	2.20	0.42
29:D1:564:G:H4'	29:D1:564:G:OP1	2.19	0.42
29:D1:589:A:C5'	29:D1:611:A:H2	2.33	0.42
29:D1:63:A:C2	29:D1:64:G:C4	3.08	0.42
29:D1:733:G:N2	29:D1:736:A:C2	2.88	0.42
29:D1:812:G:N1	29:D1:813:G:C5	2.88	0.42
29:D1:823:C:N3	29:D1:824:C:C5	2.88	0.42
29:D1:860:G:O2'	29:D1:895:A:H5''	2.20	0.42
29:D1:826:G:C4	29:D1:900:G:C6	3.08	0.42
29:D1:952:A:H8	29:D1:952:A:H3'	1.84	0.42
31:D3:24:G:C2	31:D3:25:G:C4	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:26:U:H2'	31:D3:27:U:C6	2.55	0.42
31:D3:69:U:H3'	31:D3:70:G:C4'	2.47	0.42
31:D3:8:C:C2	31:D3:9:A:C8	3.08	0.42
29:D1:337:G:H21	35:DD:50:TYR:CB	2.33	0.42
35:DD:63:GLU:O	35:DD:76:ARG:N	2.53	0.42
29:D1:1223:A:OP2	73:DM:57:THR:O	2.38	0.42
1:A1:840:U:O2'	1:A1:841:U:H5''	2.20	0.42
1:C1:220:A:N6	1:C1:221:A:N6	2.68	0.42
1:C1:643:G:C2	1:C1:692:C:C4	3.07	0.42
29:B1:2728:G:N1	29:B1:2729:U:C5	2.88	0.42
29:B1:969:C:O2	29:B1:969:C:C2'	2.57	0.42
30:B2:76:A:C4	30:B2:78:U:C4	3.08	0.42
1:A1:209:U:C4	1:A1:210:A:N7	2.88	0.42
1:C1:114:C:H4'	1:C1:115:G:O5'	2.20	0.42
29:B1:2672:G:C4'	42:BK:104:PHE:O	2.63	0.42
1:A1:1691:A:N6	1:A1:1713:G:C4	2.88	0.42
1:C1:1166:A:N6	1:C1:1167:G:C8	2.87	0.42
1:C1:1244:A:C2	1:C1:1245:G:C1'	2.86	0.42
1:C1:1245:G:C4	1:C1:1246:C:C6	3.08	0.42
1:C1:1513:G:H1'	1:C1:1518:C:O2	2.19	0.42
1:C1:1528:U:O2'	1:C1:1529:C:H5'	2.20	0.42
1:A1:1195:C:H5''	1:A1:1197:C:C6	2.55	0.42
1:A1:1381:U:H6	1:A1:1381:U:H3'	1.85	0.42
1:A1:1176:G:N3	1:A1:1464:G:C2	2.88	0.42
1:A1:1486:G:H2'	1:A1:1487:A:O4'	2.19	0.42
1:A1:1512:G:H2'	1:A1:1513:G:O4'	2.20	0.42
11:AJ:127:LYS:HA	11:AJ:134:ALA:N	2.33	0.42
29:B1:383:G:N2	29:B1:387:A:C5	2.88	0.42
29:B1:3210:A:C4	29:B1:3211:C:C5	3.08	0.42
29:B1:3214:U:C2	29:B1:3217:C:OP1	2.72	0.42
29:D1:436:A:N1	29:D1:624:G:C2	2.87	0.42
30:D2:22:A:C5	30:D2:23:A:C5	3.08	0.42
30:B2:33:U:O2'	30:B2:34:C:O4'	2.38	0.42
29:B1:2521:U:H2'	29:B1:2522:G:O5'	2.19	0.42
29:D1:187:A:N9	29:D1:211:A:C6	2.88	0.42
29:D1:191:U:C2	29:D1:192:C:C5	3.08	0.42
29:D1:3214:U:C2	29:D1:3217:C:OP1	2.72	0.42
1:C1:945:U:C2	1:C1:946:U:C5	3.08	0.42
29:D1:1248:C:C6	29:D1:1248:C:C3'	3.03	0.42
29:D1:986:U:H2'	29:D1:986:U:O2	2.18	0.42
29:D1:1627:U:C4'	29:D1:1628:C:OP2	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1388:A:C5	1:C1:1412:G:C6	3.07	0.42
29:B1:3264:G:N2	29:B1:3265:C:H1'	2.35	0.42
29:D1:3141:A:N3	29:D1:3144:G:OP1	2.53	0.42
29:D1:2511:A:C2	29:D1:2512:C:O4'	2.73	0.42
29:D1:2511:A:H2'	29:D1:2511:A:N3	2.34	0.42
29:B1:1100:U:C4	29:B1:1101:G:N7	2.88	0.42
29:B1:1633:C:N4	29:B1:1634:G:C5	2.87	0.42
29:D1:1951:C:C5	29:D1:1952:G:N7	2.88	0.42
1:A1:1334:U:O2	1:A1:1334:U:C2'	2.67	0.42
16:AO:29:PRO:O	16:AO:57:ARG:O	2.37	0.42
29:D1:1692:U:H2'	29:D1:1693:C:C6	2.55	0.42
1:C1:498:G:H1'	1:C1:499:U:C5	2.44	0.42
29:B1:2880:U:C4	29:B1:2881:C:N4	2.88	0.42
31:B3:151:C:P	31:B3:151:C:H6	2.43	0.42
29:D1:1914:G:C6	29:D1:1915:A:C6	3.08	0.42
29:B1:3347:A:N6	29:B1:3348:G:O6	2.52	0.42
36:BE:98:ALA:O	36:BE:162:ALA:HA	2.19	0.42
1:C1:1659:A:C2	1:C1:1660:A:C8	3.07	0.42
29:B1:2888:U:H2'	29:B1:2888:U:H6	1.63	0.42
1:C1:1433:G:O2'	1:C1:1434:U:H6	2.03	0.42
19:CR:8:THR:HA	19:CR:51:ASN:N	2.34	0.42
29:D1:1751:G:C6	29:D1:1752:A:C5	3.08	0.42
29:D1:1651:U:HO2'	29:D1:1652:G:H5'	1.82	0.42
34:DC:89:VAL:HA	34:DC:160:VAL:HA	2.01	0.42
1:A1:1708:U:H3'	1:A1:1708:U:H6	1.84	0.42
1:A1:747:C:C4	1:A1:748:U:C4	3.07	0.42
3:CB:133:LYS:C	3:CB:135:SER:N	2.73	0.42
1:C1:804:A:H8	1:C1:804:A:O5'	2.03	0.42
29:D1:790:U:H2'	29:D1:791:A:O5'	2.20	0.42
1:C1:733:A:N1	1:C1:734:A:C6	2.88	0.42
1:C1:734:A:C5	1:C1:735:C:C4	3.08	0.42
13:AL:121:ALA:C	13:AL:123:ARG:N	2.73	0.42
1:A1:929:A:C5	1:A1:930:A:C5	3.07	0.42
1:A1:934:C:O2	1:A1:934:C:C2'	2.63	0.42
12:CK:11:ARG:O	12:CK:15:ALA:N	2.51	0.42
29:B1:178:U:C2	29:B1:241:G:O6	2.72	0.42
29:B1:2732:G:H2'	29:B1:2733:A:H8	1.85	0.42
35:DD:190:GLY:C	35:DD:192:GLY:H	2.23	0.42
47:DR:38:ARG:O	47:DR:39:ARG:O	2.37	0.42
41:BJ:144:ASN:O	41:BJ:145:LYS:C	2.58	0.42
29:B1:2511:A:C2	29:B1:2512:C:O4'	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CT:268:GLN:O	21:CT:270:LEU:N	2.52	0.42
8:CG:69:ASN:O	8:CG:70:LYS:C	2.58	0.42
2:CA:80:THR:C	2:CA:82:GLY:N	2.73	0.42
35:BD:253:ALA:O	35:BD:257:LYS:CB	2.68	0.42
42:BK:74:PRO:C	42:BK:76:ALA:N	2.73	0.42
10:CI:80:MET:O	10:CI:82:ASN:N	2.52	0.42
13:AL:35:ILE:O	13:AL:36:LYS:C	2.58	0.42
29:B1:1768:U:N3	29:B1:1769:G:C8	2.88	0.42
8:AG:112:LYS:O	8:AG:114:ARG:N	2.53	0.42
29:B1:2175:U:C3'	29:B1:2176:U:H5'	2.50	0.42
21:AT:95:ALA:C	21:AT:97:GLY:N	2.73	0.42
34:DC:291:GLU:O	34:DC:292:ALA:C	2.58	0.42
29:D1:3083:G:C2'	29:D1:3084:C:O5'	2.67	0.42
5:CD:192:GLU:O	5:CD:193:THR:C	2.58	0.42
13:AL:43:SER:O	13:AL:47:CYS:CB	2.67	0.42
5:CD:223:SER:O	5:CD:225:ARG:N	2.45	0.42
4:CC:108:LYS:O	4:CC:109:LEU:C	2.59	0.42
1:C1:484:C:C5	1:C1:485:A:C8	3.08	0.42
10:AI:27:GLU:O	10:AI:29:SER:N	2.53	0.42
34:BC:72:VAL:HA	50:BU:88:ARG:O	2.20	0.42
73:DM:39:HIS:O	73:DM:43:LYS:CB	2.67	0.42
34:DC:114:VAL:N	34:DC:115:LYS:CB	2.83	0.42
1:A1:1097:U:C2'	1:A1:1097:U:O2	2.67	0.42
1:A1:1149:G:N2	1:A1:1151:A:C6	2.88	0.42
1:A1:13:C:O2'	1:A1:1298:U:N3	2.51	0.42
1:A1:363:G:C2	1:A1:382:C:N3	2.88	0.42
1:A1:55:A:C5	1:A1:403:G:C2	3.08	0.42
1:A1:445:A:C2	1:A1:446:A:N7	2.88	0.42
1:A1:43:A:C3'	1:A1:44:U:H5''	2.50	0.42
1:A1:519:C:C2	1:A1:520:A:C8	3.08	0.42
1:A1:592:A:H2'	1:A1:593:U:O5'	2.20	0.42
1:A1:607:G:H4'	1:A1:608:U:H5'	2.02	0.42
1:A1:814:A:H2'	1:A1:816:G:N2	2.34	0.42
29:B1:1118:C:N3	29:B1:1119:C:C5	2.88	0.42
29:B1:1160:C:O2'	29:B1:1161:G:H5''	2.20	0.42
29:B1:1178:G:C3'	29:B1:1179:A:H5'	2.49	0.42
29:B1:1204:A:C8	29:B1:1205:A:C8	3.07	0.42
29:B1:1372:C:O2'	29:B1:1373:A:H5'	2.20	0.42
29:B1:1390:A:C5	29:B1:1418:A:C4	3.08	0.42
29:B1:1404:G:C6	29:B1:1408:G:C6	3.08	0.42
29:B1:1519:G:H2'	29:B1:1520:G:H5''	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1608:C:N3	29:B1:1609:C:C4	2.88	0.42
29:B1:1783:U:C2	29:B1:1784:G:N7	2.88	0.42
29:B1:2111:G:N2	51:BV:48:ARG:O	2.52	0.42
29:B1:1550:C:H1'	29:B1:2166:A:H61	1.84	0.42
29:B1:2262:A:C2	29:B1:2263:C:O4'	2.72	0.42
29:B1:2279:A:C4'	29:B1:2280:A:C5'	2.97	0.42
29:B1:1447:G:HO2'	29:B1:2355:G:H1	1.65	0.42
29:B1:2416:U:H2'	29:B1:2417:U:C5	2.54	0.42
29:B1:2421:U:C2'	29:B1:2422:C:O5'	2.67	0.42
29:B1:2896:A:C2'	29:B1:2897:A:C5'	2.98	0.42
29:B1:2897:A:C2	29:B1:2905:U:N3	2.87	0.42
29:B1:2897:A:H2'	29:B1:2899:C:C5'	2.44	0.42
29:B1:2997:G:O2'	29:B1:2998:U:O5'	2.35	0.42
29:B1:3048:A:N7	29:B1:3090:U:C4	2.88	0.42
29:B1:3099:C:O2'	29:B1:3100:U:C6	2.38	0.42
29:B1:3105:U:C6	29:B1:3106:A:C8	3.08	0.42
29:B1:3363:U:H3'	29:B1:3364:C:C6	2.36	0.42
29:B1:402:A:OP1	29:B1:402:A:H4'	2.19	0.42
29:B1:538:G:N3	29:B1:556:U:C5	2.88	0.42
29:B1:511:G:H21	29:B1:579:G:N2	2.18	0.42
29:B1:609:G:OP2	29:B1:609:G:H2'	2.20	0.42
29:B1:62:A:C5	29:B1:63:A:N7	2.88	0.42
29:B1:681:U:HO2'	29:B1:682:U:P	2.42	0.42
29:B1:780:A:C6	29:B1:781:G:C5	3.08	0.42
29:B1:79:U:C2	29:B1:325:A:N1	2.88	0.42
29:B1:836:A:C5'	29:B1:837:A:OP2	2.65	0.42
32:BA:12:HIS:CB	32:BA:213:ALA:HB1	2.50	0.42
54:BY:72:VAL:C	54:BY:74:ASN:N	2.67	0.42
1:C1:1107:G:C6	1:C1:1108:G:O6	2.72	0.42
1:C1:143:G:C2'	1:C1:144:U:H4'	2.50	0.42
1:C1:154:G:C5	1:C1:155:U:C4	3.08	0.42
1:C1:1671:A:N6	1:C1:1672:G:C2	2.88	0.42
1:C1:390:G:O2'	1:C1:1731:A:H4'	2.20	0.42
1:C1:1791:A:C5'	1:C1:1791:A:C8	3.03	0.42
1:C1:8:U:O2'	74:C1:1953:OHX:N2	2.53	0.42
1:C1:210:A:C4	1:C1:211:U:C6	3.08	0.42
1:C1:24:U:HO2'	1:C1:25:C:H5	1.60	0.42
1:C1:276:C:O2'	1:C1:277:U:O5'	2.37	0.42
1:C1:295:A:C2	1:C1:296:U:C1'	3.03	0.42
1:C1:41:A:OP1	1:C1:379:U:H1'	2.20	0.42
1:C1:59:C:O2	1:C1:452:A:O4'	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:472:U:C6	1:C1:473:A:C8	3.08	0.42
1:C1:629:U:O5'	1:C1:629:U:H6	2.03	0.42
1:C1:816:G:O6	1:C1:857:U:O2	2.38	0.42
1:C1:867:G:C2	1:C1:868:G:C4	3.07	0.42
1:C1:97:C:C2	1:C1:98:U:C6	3.08	0.42
29:D1:1150:A:C2	29:D1:1151:U:C1'	3.02	0.42
29:D1:1341:U:C2	29:D1:1342:C:C6	3.08	0.42
29:D1:1367:G:O2'	29:D1:1368:U:O5'	2.38	0.42
29:D1:1444:G:C6	29:D1:1445:U:C2	3.07	0.42
29:D1:1445:U:C4	29:D1:1446:A:C5	3.08	0.42
29:D1:1489:A:C3'	29:D1:1490:A:H8	2.33	0.42
29:D1:14:U:O2	29:D1:14:U:O5'	2.37	0.42
29:D1:1502:C:OP2	74:D1:3407:OHX:N1	2.53	0.42
29:D1:120:G:N1	29:D1:150:A:H5''	2.35	0.42
29:D1:1799:A:C2	29:D1:1800:A:N3	2.88	0.42
29:D1:2270:A:N1	29:D1:2271:A:C2	2.87	0.42
29:D1:2286:U:O4	29:D1:2288:G:H1'	2.17	0.42
1:C1:1746:A:H2	29:D1:2302:G:HO2'	1.66	0.42
29:D1:2407:C:N3	29:D1:2408:U:C4	2.88	0.42
29:D1:41:G:O4'	29:D1:2410:U:O2	2.37	0.42
29:D1:2420:C:C3'	29:D1:2421:U:H5'	2.50	0.42
29:D1:2701:U:O4'	29:D1:2705:A:C6	2.72	0.42
29:D1:2742:C:C2	29:D1:2743:A:C8	3.07	0.42
29:D1:280:U:O2	29:D1:286:U:N1	2.52	0.42
29:D1:2840:C:N4	29:D1:2841:G:C5	2.88	0.42
29:D1:2895:G:C5	29:D1:2907:G:C2	3.08	0.42
29:D1:2374:C:N3	29:D1:2941:A:C2	2.88	0.42
29:D1:3288:G:H2'	29:D1:3289:G:H5'	2.02	0.42
29:D1:431:U:C4'	29:D1:431:U:C6	3.03	0.42
29:D1:431:U:N3	29:D1:432:G:N7	2.68	0.42
29:D1:499:G:H2'	29:D1:500:C:O5'	2.19	0.42
29:D1:575:G:C2'	29:D1:576:C:O5'	2.67	0.42
29:D1:739:G:C2	29:D1:740:G:C4	3.08	0.42
29:D1:887:G:O6	29:D1:888:A:C6	2.73	0.42
29:D1:968:G:C6	29:D1:969:C:C4	3.08	0.42
29:D1:975:C:H5''	29:D1:975:C:C6	2.54	0.42
31:D3:12:A:C5	31:D3:13:A:C8	3.08	0.42
31:D3:53:A:N3	31:D3:54:A:C8	2.88	0.42
44:DO:86:ASN:C	44:DO:88:GLY:N	2.72	0.42
54:DY:37:GLY:C	54:DY:39:HIS:H	2.22	0.42
1:A1:234:G:H3'	1:A1:234:G:N3	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:841:U:C5	1:A1:842:C:C5	3.07	0.42
1:C1:224:C:N4	1:C1:838:G:C2	2.88	0.42
1:C1:689:G:H2'	1:C1:690:G:O4'	2.20	0.42
1:A1:649:U:C6	1:A1:650:U:C5	3.08	0.42
29:B1:2625:C:C2	29:B1:2627:C:C5	3.08	0.42
29:B1:2640:A:C6	29:B1:2641:U:C4	3.08	0.42
29:B1:2688:U:O3'	29:B1:2689:A:N7	2.53	0.42
53:BX:75:ARG:O	53:BX:77:LYS:N	2.53	0.42
31:B3:77:A:H61	53:BX:81:GLN:CB	2.33	0.42
1:A1:151:G:C2	1:A1:163:G:N2	2.85	0.42
1:A1:174:U:N3	1:A1:175:G:N3	2.67	0.42
1:A1:186:C:N4	1:A1:199:G:N1	2.27	0.42
1:A1:129:U:C6	1:A1:264:G:O6	2.72	0.42
1:A1:263:C:H5''	1:A1:264:G:P	2.60	0.42
1:A1:288:A:HO2'	1:A1:289:U:P	2.43	0.42
29:D1:998:A:O2'	30:D2:103:A:N3	2.41	0.42
1:C1:1683:C:C6	1:C1:1719:A:C6	3.08	0.42
1:C1:301:A:H5''	1:C1:302:U:P	2.60	0.42
1:A1:752:A:C6	1:A1:753:A:C6	3.08	0.42
1:C1:1176:G:H1'	1:C1:1464:G:N2	2.34	0.42
1:C1:1241:G:C2	1:C1:1243:G:O5'	2.73	0.42
1:C1:1242:A:N1	1:C1:1452:U:H1'	2.35	0.42
1:C1:1214:U:O5'	1:C1:1245:G:N2	2.53	0.42
1:C1:1252:C:H2'	1:C1:1252:C:O2	2.20	0.42
1:C1:1346:A:N3	15:CN:14:GLN:HA	2.35	0.42
1:C1:1366:U:C2	1:C1:1367:G:C8	3.08	0.42
1:C1:1444:A:H5''	1:C1:1445:G:OP1	2.20	0.42
1:C1:1557:U:O2	1:C1:1558:U:C6	2.72	0.42
1:C1:1590:G:C5	1:C1:1591:C:N4	2.88	0.42
1:A1:1245:G:N7	1:A1:1246:C:C5	2.88	0.42
1:A1:1348:A:H5''	15:AN:11:GLU:C	2.36	0.42
1:A1:1498:G:N2	1:A1:1499:G:C8	2.88	0.42
1:A1:1592:A:C5	1:A1:1605:G:N2	2.88	0.42
14:AM:69:LYS:CB	14:AM:123:ARG:HA	2.50	0.42
29:B1:1461:A:C2'	29:B1:1462:A:H8	2.32	0.42
29:D1:195:U:C4'	29:D1:1391:C:H5	2.24	0.42
29:D1:189:G:H1'	29:D1:191:U:H5	1.84	0.42
29:D1:370:U:O2'	29:D1:399:A:N3	2.44	0.42
29:B1:1257:C:O2	29:B1:1257:C:H2'	2.20	0.42
29:D1:3214:U:O2'	29:D1:3218:A:H5'	2.20	0.42
29:D1:3217:C:C6	29:D1:3220:G:O2'	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3230:G:C6	29:D1:3231:U:C4	3.08	0.42
1:C1:945:U:N3	1:C1:946:U:H5	2.18	0.42
30:D2:40:C:H5''	30:D2:41:G:OP2	2.20	0.42
30:D2:46:A:C3'	30:D2:46:A:C4	3.03	0.42
36:BE:101:THR:C	36:BE:105:ILE:H	2.23	0.42
44:BO:184:LYS:O	44:BO:186:GLY:N	2.53	0.42
29:D1:3004:C:C2'	29:D1:3005:A:O5'	2.68	0.42
29:D1:2513:U:H5	29:D1:2591:A:N6	2.18	0.42
29:B1:1631:C:P	29:B1:1631:C:H3'	2.60	0.42
29:B1:1811:G:C5	29:B1:1812:G:H8	2.38	0.42
29:B1:1468:A:O2'	29:B1:1469:C:C5'	2.67	0.42
29:D1:3072:C:H2'	29:D1:3073:A:O5'	2.19	0.42
29:B1:1730:G:O6	55:BZ:29:SER:N	2.51	0.42
30:D2:88:G:H2'	30:D2:89:G:C8	2.51	0.42
29:D1:1912:U:O2'	29:D1:1913:A:P	2.77	0.42
1:A1:355:G:C2	1:A1:356:G:N9	2.88	0.42
29:B1:1340:G:C4	29:B1:1341:U:C5	3.08	0.42
29:B1:1340:G:N2	29:B1:1341:U:C2	2.88	0.42
29:B1:1341:U:C2	29:B1:1342:C:C6	3.08	0.42
29:B1:1351:U:C2'	29:B1:1352:A:C8	3.02	0.42
1:A1:760:A:C2	1:A1:791:A:N3	2.88	0.42
40:DI:110:LYS:O	40:DI:111:PHE:O	2.38	0.42
1:C1:1299:G:H2'	1:C1:1300:A:H8	1.76	0.42
43:BN:24:LYS:CB	43:BN:32:LEU:N	2.83	0.42
36:BE:247:ILE:C	36:BE:249:ALA:H	2.22	0.42
29:B1:1184:A:H5'	29:B1:1184:A:C8	2.44	0.42
5:CD:93:LEU:C	5:CD:95:ASN:N	2.73	0.42
11:AJ:48:VAL:C	11:AJ:50:GLU:H	2.23	0.42
13:AL:64:GLU:O	13:AL:65:GLU:O	2.37	0.42
42:DK:14:ILE:O	42:DK:15:GLU:C	2.58	0.42
29:D1:666:A:HO2'	29:D1:667:C:P	2.40	0.42
29:B1:246:U:O2	29:B1:246:U:O4'	2.37	0.42
29:D1:1811:G:H2'	29:D1:1812:G:O4'	2.20	0.42
12:CK:48:ASN:O	12:CK:52:GLY:N	2.45	0.42
49:DT:9:SER:C	49:DT:11:THR:H	2.24	0.42
53:BX:36:SER:O	53:BX:37:LYS:C	2.58	0.42
33:DB:225:ILE:O	33:DB:226:SER:C	2.55	0.42
38:DG:120:THR:O	38:DG:123:THR:CA	2.68	0.42
29:D1:1710:C:H5''	29:D1:1710:C:C6	2.50	0.42
11:CJ:105:LEU:O	11:CJ:106:LYS:C	2.58	0.42
4:AC:57:ASP:C	4:AC:59:LEU:H	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DH:230:LYS:N	39:DH:231:LYS:O	2.53	0.42
8:AG:114:ARG:C	8:AG:116:ILE:N	2.72	0.42
11:AJ:131:GLY:O	11:AJ:132:LYS:C	2.59	0.42
29:D1:2558:U:H4'	29:D1:2559:U:OP2	2.20	0.42
74:D2:202:OHX:N1	74:D2:209:OHX:N5	2.68	0.42
6:AE:42:ILE:O	6:AE:45:ILE:CB	2.68	0.42
1:A1:1742:U:C2	1:A1:1743:U:C6	3.07	0.42
16:AO:14:ILE:O	16:AO:15:ASN:C	2.58	0.42
29:D1:2710:C:H3'	29:D1:2710:C:C6	2.55	0.42
1:A1:1045:C:O2'	1:A1:1046:G:OP1	2.37	0.41
1:A1:1628:U:C2'	1:A1:1629:G:C8	2.93	0.41
1:A1:1629:G:H2'	1:A1:1630:U:C6	2.56	0.41
1:A1:1632:C:O2'	1:A1:1633:A:H5''	2.20	0.41
1:A1:362:G:O6	1:A1:363:G:C6	2.73	0.41
1:A1:40:A:C2'	1:A1:41:A:H8	2.15	0.41
1:A1:487:G:N2	1:A1:488:G:C5	2.88	0.41
1:A1:533:U:H2'	1:A1:534:A:C8	2.54	0.41
1:A1:861:U:H5	1:A1:862:A:N7	2.18	0.41
1:A1:999:U:C2	1:A1:1000:C:O2	2.72	0.41
29:B1:1151:U:H5'	29:B1:2379:U:H4'	2.01	0.41
29:B1:1218:U:N3	29:B1:1219:C:C5	2.88	0.41
29:B1:1403:C:H5'	29:B1:1404:G:OP2	2.20	0.41
29:B1:1561:G:H2'	29:B1:1562:C:C6	2.54	0.41
29:B1:154:U:OP1	29:B1:156:G:O6	2.37	0.41
29:B1:189:G:H2'	29:B1:224:C:OP1	2.20	0.41
29:B1:189:G:H1'	29:B1:191:U:H5	1.85	0.41
29:B1:2278:C:N3	29:B1:2307:G:C2	2.88	0.41
29:B1:2370:G:N9	29:B1:2371:G:C8	2.88	0.41
29:B1:23:A:C2'	29:B1:23:A:N3	2.81	0.41
29:B1:2834:G:C2	29:B1:2835:U:C5	3.08	0.41
29:B1:283:G:H3'	29:B1:285:A:H8	1.85	0.41
29:B1:2897:A:C2	29:B1:2905:U:O2	2.73	0.41
29:B1:2876:C:N1	29:B1:2952:G:N2	2.68	0.41
29:B1:2986:U:C2	29:B1:2987:A:N7	2.88	0.41
29:B1:3062:G:C6	29:B1:3063:C:N4	2.88	0.41
29:B1:3114:A:C5	29:B1:3115:C:C5	3.07	0.41
29:B1:321:C:H2'	29:B1:322:U:O4'	2.20	0.41
29:B1:3330:A:C5	29:B1:3331:U:C5	3.08	0.41
29:B1:3344:A:N6	29:B1:3362:A:C6	2.80	0.41
29:B1:49:A:N6	29:B1:279:U:O2'	2.53	0.41
29:B1:504:A:H2'	29:B1:505:G:O5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:513:G:H8	29:B1:513:G:O5'	2.03	0.41
29:B1:527:A:H2'	29:B1:527:A:N3	2.35	0.41
29:B1:527:A:N6	29:B1:566:G:C6	2.88	0.41
29:B1:595:G:N3	29:B1:596:C:C6	2.88	0.41
29:B1:607:A:C6	29:B1:608:A:C6	3.07	0.41
29:B1:688:G:C4	29:B1:690:A:C8	3.08	0.41
29:B1:761:A:H3'	29:B1:762:U:C4'	2.50	0.41
29:B1:776:U:C6	29:B1:777:U:N1	2.88	0.41
29:B1:861:C:C4	29:B1:862:U:C5	3.08	0.41
29:B1:901:G:C5	29:B1:902:G:N7	2.87	0.41
35:BD:8:VAL:O	35:BD:9:HIS:C	2.58	0.41
1:C1:1042:G:C2'	1:C1:1043:A:O4'	2.65	0.41
1:C1:1141:G:C5'	1:C1:1142:A:OP2	2.68	0.41
1:C1:1151:A:C2'	1:C1:1152:A:H5'	2.50	0.41
1:C1:150:U:H5'	1:C1:151:G:P	2.60	0.41
1:C1:24:U:H6	1:C1:24:U:O5'	2.03	0.41
1:C1:283:U:O3'	1:C1:285:G:OP1	2.38	0.41
1:C1:389:G:C6	1:C1:390:G:C5	3.08	0.41
1:C1:396:G:H21	1:C1:398:G:H3'	1.84	0.41
1:C1:55:A:C4	1:C1:403:G:C2	3.07	0.41
1:C1:446:A:H2'	1:C1:447:U:H6	1.84	0.41
1:C1:529:A:OP2	1:C1:529:A:O4'	2.37	0.41
1:C1:541:A:N3	1:C1:541:A:H2'	2.35	0.41
1:C1:769:A:C2'	1:C1:770:A:H5'	2.49	0.41
29:D1:1128:U:H5''	29:D1:1129:A:OP2	2.18	0.41
29:D1:1154:A:C3'	29:D1:1154:A:C8	3.03	0.41
29:D1:1155:C:C5'	29:D1:1156:C:OP2	2.67	0.41
29:D1:1168:U:C2'	29:D1:1169:A:C5'	2.98	0.41
29:D1:1178:G:C3'	29:D1:1179:A:H5'	2.50	0.41
29:D1:1289:G:C2'	29:D1:1290:A:O4'	2.68	0.41
29:D1:1441:G:C3'	29:D1:1442:U:H5''	2.45	0.41
29:D1:1446:A:C4	29:D1:1448:U:O2	2.73	0.41
29:D1:1513:G:N7	29:D1:1515:A:C5	2.88	0.41
29:D1:1602:A:H62	29:D1:1603:A:H61	1.67	0.41
29:D1:1779:C:O5'	29:D1:1780:G:O4'	2.37	0.41
29:D1:1800:A:H2'	29:D1:1801:U:O4'	2.19	0.41
29:D1:1801:U:H6	29:D1:1801:U:O5'	2.03	0.41
29:D1:2137:U:N3	29:D1:2141:U:H5	2.18	0.41
29:D1:2141:U:H6	29:D1:2141:U:H2'	1.47	0.41
29:D1:2247:G:C6	29:D1:2248:C:N4	2.88	0.41
29:D1:2279:A:C3'	29:D1:2280:A:C5'	2.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2280:A:C4	29:D1:2282:U:H5	2.38	0.41
29:D1:2300:G:N2	29:D1:2301:U:C2	2.88	0.41
29:D1:2316:G:O2'	29:D1:2317:A:H5'	2.19	0.41
29:D1:264:G:C2	29:D1:265:A:C4	3.08	0.41
29:D1:2704:A:C4	29:D1:2706:G:C8	3.08	0.41
29:D1:2779:A:C5	29:D1:2780:A:N7	2.88	0.41
29:D1:2955:U:C2	29:D1:2956:A:C8	3.08	0.41
29:D1:3037:U:O2'	29:D1:3038:U:C5'	2.50	0.41
29:D1:3045:G:O2'	29:D1:3046:A:OP1	2.33	0.41
29:D1:3310:A:N6	29:D1:3311:C:C4	2.88	0.41
29:D1:3328:G:O2'	29:D1:3329:U:O4'	2.38	0.41
29:D1:3334:U:OP2	29:D1:3369:G:N1	2.53	0.41
29:D1:3368:U:H3'	29:D1:3369:G:H5''	2.02	0.41
29:D1:3322:A:C2	29:D1:3386:G:C2	3.08	0.41
29:D1:340:C:C6	29:D1:340:C:C5'	3.01	0.41
29:D1:515:C:C2'	29:D1:516:A:C4'	2.96	0.41
29:D1:55:G:O2'	29:D1:56:G:O5'	2.39	0.41
29:D1:91:G:H2'	29:D1:92:G:OP2	2.19	0.41
31:D3:92:A:C2'	31:D3:92:A:N3	2.74	0.41
34:DC:39:LYS:O	34:DC:41:VAL:N	2.53	0.41
29:B1:2727:A:N6	29:B1:2728:G:O6	2.51	0.41
30:D2:76:A:C4	30:D2:78:U:C4	3.08	0.41
1:C1:248:U:H4'	1:C1:249:U:OP1	2.20	0.41
1:A1:243:G:H8	1:A1:243:G:H5''	1.84	0.41
1:A1:799:A:C2	1:A1:800:U:H1'	2.55	0.41
1:C1:1237:G:C4	1:C1:1238:A:N7	2.87	0.41
1:C1:1534:G:H4'	1:C1:1536:G:C5	2.55	0.41
1:A1:1161:C:O2	1:A1:1161:C:H2'	2.20	0.41
1:A1:1172:G:C5	1:A1:1173:C:N4	2.87	0.41
1:A1:1275:A:C8	1:A1:1438:G:C2	3.08	0.41
1:A1:1472:C:O2	1:A1:1472:C:C2'	2.67	0.41
1:A1:1535:U:N3	5:AD:186:ASN:O	2.53	0.41
29:B1:3198:U:O2	29:B1:3199:G:C8	2.72	0.41
30:B2:44:C:C4	30:B2:45:A:C8	3.07	0.41
29:D1:189:G:C5	29:D1:206:G:C6	3.07	0.41
29:B1:1233:G:HO2'	29:B1:1234:G:C5'	2.32	0.41
29:B1:1254:C:N3	29:B1:1255:C:C5	2.88	0.41
29:B1:1281:G:N1	29:B1:1282:G:C4	2.88	0.41
29:D1:3279:A:C5	29:D1:3280:U:C4	3.07	0.41
1:A1:643:G:O2'	1:A1:644:C:H5'	2.20	0.41
29:D1:1248:C:OP2	29:D1:1268:G:O6	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:845:G:H21	29:B1:848:A:N6	2.18	0.41
29:D1:1624:G:C2	29:D1:1625:A:N3	2.88	0.41
1:A1:1282:U:N3	1:A1:1283:U:C5	2.88	0.41
1:C1:1391:A:C2	1:C1:1392:U:C4	3.08	0.41
29:D1:3141:A:H5'	29:D1:3143:C:H2'	2.00	0.41
29:D1:2213:A:N6	29:D1:2214:A:N6	2.68	0.41
29:B1:1631:C:C2	29:B1:1645:U:C5	3.08	0.41
1:A1:1333:C:C2	1:A1:1419:G:C2	3.07	0.41
29:D1:1085:A:H3'	29:D1:1086:C:C6	2.53	0.41
30:D2:88:G:C6	30:D2:89:G:C6	3.08	0.41
36:BE:257:GLU:CA	36:BE:259:LYS:N	2.75	0.41
29:D1:2872:A:H1'	29:D1:2873:U:C5'	2.50	0.41
29:B1:331:G:O6	31:B3:33:A:N1	2.53	0.41
29:B1:2720:G:H2'	29:B1:2721:A:C8	2.50	0.41
1:A1:356:G:C4	1:A1:357:G:C8	3.08	0.41
1:A1:356:G:C5	1:A1:357:G:C8	3.07	0.41
29:D1:2562:A:C4	29:D1:2563:G:C8	3.07	0.41
29:B1:3357:U:H2'	29:B1:3358:U:H5	1.84	0.41
1:C1:774:A:C2	1:C1:775:G:H1'	2.55	0.41
29:D1:2834:G:O2'	29:D1:2835:U:P	2.78	0.41
29:B1:1931:U:O2	29:B1:2121:G:C2	2.73	0.41
29:D1:835:G:C4	29:D1:857:G:C2	3.08	0.41
9:CH:57:PRO:O	9:CH:58:TYR:C	2.58	0.41
5:CD:117:THR:N	5:CD:191:ALA:HB1	2.35	0.41
5:CD:118:LEU:O	5:CD:121:ILE:N	2.52	0.41
1:C1:1774:G:H5''	1:C1:1775:U:OP2	2.20	0.41
1:C1:237:C:O2'	1:C1:238:U:P	2.78	0.41
29:B1:2561:A:O2'	29:B1:2562:A:O4'	2.37	0.41
29:B1:2579:G:OP1	29:B1:2581:U:H5'	2.20	0.41
17:AP:48:HIS:O	17:AP:49:ALA:CB	2.68	0.41
36:BE:193:GLU:O	36:BE:196:ARG:CB	2.68	0.41
1:C1:719:U:O2'	1:C1:720:G:C8	2.73	0.41
13:CL:74:GLN:O	13:CL:78:HIS:CB	2.68	0.41
29:B1:1819:U:C5	29:B1:1820:U:O4	2.73	0.41
1:A1:1667:A:N1	1:A1:1668:G:C6	2.87	0.41
29:B1:293:C:C2	29:B1:294:U:C2	3.08	0.41
17:CP:103:LEU:O	17:CP:104:LEU:O	2.38	0.41
46:DQ:98:ALA:O	46:DQ:100:ALA:N	2.52	0.41
35:BD:193:LYS:C	35:BD:195:ARG:N	2.70	0.41
29:D1:788:C:N4	29:D1:789:A:H62	2.18	0.41
29:B1:908:G:C5	29:B1:925:A:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1006:A:C5	29:B1:1007:U:C5	3.08	0.41
33:BB:121:GLY:O	33:BB:122:ASP:O	2.38	0.41
40:BI:159:ALA:O	40:BI:162:GLN:N	2.53	0.41
29:B1:2733:A:C4	29:B1:2734:A:C8	3.08	0.41
1:C1:906:A:C6	1:C1:907:A:C5	3.08	0.41
35:BD:177:ASP:C	35:BD:179:LEU:H	2.22	0.41
35:BD:179:LEU:O	35:BD:180:LYS:C	2.58	0.41
36:BE:33:ARG:C	36:BE:35:ARG:H	2.24	0.41
54:BY:89:GLN:O	54:BY:90:TYR:CB	2.68	0.41
5:AD:185:ARG:C	5:AD:187:ILE:H	2.23	0.41
2:CA:82:GLY:HA2	2:CA:85:ALA:HB3	2.01	0.41
1:A1:463:U:H2'	1:A1:464:A:H8	1.84	0.41
2:CA:62:ARG:HA	2:CA:65:ALA:HB2	2.02	0.41
2:AA:86:VAL:O	2:AA:87:LEU:C	2.58	0.41
29:D1:1636:U:H3	29:D1:1710:C:H1'	1.84	0.41
2:CA:39:ASN:O	2:CA:40:ALA:O	2.38	0.41
1:C1:1667:A:C2	1:C1:1668:G:C5	3.08	0.41
1:A1:1422:A:C2'	1:A1:1423:U:H5'	2.50	0.41
51:BV:33:ASN:O	51:BV:34:SER:C	2.58	0.41
21:CT:296:ALA:C	21:CT:298:GLY:H	2.23	0.41
42:BK:90:GLN:HA	42:BK:169:ALA:O	2.19	0.41
50:DU:90:GLY:O	50:DU:91:VAL:O	2.38	0.41
11:CJ:24:ALA:HA	11:CJ:64:ASP:HA	2.01	0.41
1:A1:1442:U:H2'	1:A1:1443:U:C5	2.54	0.41
29:D1:2527:G:H5''	29:D1:2528:G:OP2	2.20	0.41
9:AH:6:GLN:O	9:AH:7:ALA:HB3	2.20	0.41
10:CI:27:GLU:O	10:CI:29:SER:N	2.53	0.41
33:BB:175:VAL:O	33:BB:176:ASP:CB	2.68	0.41
32:DA:10:ARG:O	32:DA:11:GLU:CB	4.27	0.41
6:AE:33:GLU:O	6:AE:35:GLY:N	2.54	0.41
1:A1:770:A:H2'	1:A1:771:A:O4'	2.20	0.41
12:AK:10:LYS:HA	12:AK:13:SER:CB	2.50	0.41
21:AT:19:TRP:O	21:AT:38:ARG:N	2.34	0.41
1:A1:1102:G:H2'	1:A1:1103:U:O4'	2.20	0.41
1:A1:1109:G:C4	1:A1:1137:A:N1	2.88	0.41
1:A1:1121:C:N3	1:A1:1127:G:C6	2.88	0.41
1:A1:121:U:C2	1:A1:122:U:H1'	2.56	0.41
1:A1:1673:G:H2'	1:A1:1674:C:H6	1.85	0.41
1:A1:105:A:C6	74:A1:1910:OHX:N4	2.88	0.41
1:A1:399:A:O2'	1:A1:401:A:C8	2.65	0.41
1:A1:47:A:H4'	1:A1:48:G:C5'	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:53:G:C5	1:A1:54:C:C5	3.08	0.41
1:A1:541:A:N3	1:A1:541:A:H2'	2.35	0.41
1:A1:547:U:H1'	1:A1:596:C:H1'	2.01	0.41
1:A1:757:A:N7	1:A1:758:U:C5	2.89	0.41
1:A1:759:U:H2'	1:A1:759:U:O2	2.19	0.41
1:A1:856:A:N3	1:A1:856:A:C2'	2.83	0.41
29:B1:1122:U:O2	29:B1:1122:U:H2'	2.19	0.41
29:B1:1147:G:C6	29:B1:1157:G:C6	3.08	0.41
29:B1:1215:U:O5'	29:B1:1215:U:H6	2.03	0.41
29:B1:1212:A:C5	29:B1:1294:A:C2	3.08	0.41
29:B1:1194:G:N9	29:B1:1309:U:O2	2.53	0.41
29:B1:1390:A:C8	29:B1:1418:A:N7	2.87	0.41
29:B1:184:U:N3	29:B1:185:C:C5	2.88	0.41
29:B1:2276:G:C4	29:B1:2277:C:C5	3.05	0.41
29:B1:2290:C:O2'	29:B1:2291:A:O5'	2.38	0.41
29:B1:2333:C:H2'	29:B1:2334:U:C1'	2.50	0.41
29:B1:2383:C:C6	29:B1:2384:A:N7	2.87	0.41
29:B1:2844:C:N4	29:B1:2898:G:H22	2.13	0.41
29:B1:2992:U:O4	29:B1:2993:G:H8	2.02	0.41
29:B1:3006:A:C8	29:B1:3007:U:C2	3.09	0.41
29:B1:3007:U:H2'	29:B1:3008:A:O4'	2.20	0.41
29:B1:306:A:C2	29:B1:307:A:C4	3.08	0.41
29:B1:3107:U:C2	29:B1:3108:G:C8	3.07	0.41
29:B1:3141:A:O4'	29:B1:3143:C:C2'	2.68	0.41
29:B1:420:G:C2	29:B1:2384:A:N3	2.87	0.41
29:B1:563:U:OP2	29:B1:564:G:H5''	2.19	0.41
29:B1:606:C:N3	29:B1:607:A:C2	2.88	0.41
29:B1:606:C:C5	29:B1:607:A:C6	3.08	0.41
29:B1:706:A:H2'	29:B1:707:U:H5'	2.02	0.41
29:B1:826:G:C4	29:B1:900:G:C6	3.09	0.41
29:B1:832:G:N1	29:B1:863:C:C4	2.88	0.41
34:BC:7:GLU:O	34:BC:8:ALA:HB3	2.20	0.41
1:C1:1112:G:C8	1:C1:1113:A:N7	2.88	0.41
1:C1:183:U:O4'	1:C1:183:U:O2	2.38	0.41
1:C1:312:A:C6	1:C1:315:A:N7	2.89	0.41
1:C1:395:U:O4	1:C1:396:G:N1	2.53	0.41
1:C1:50:C:O2	1:C1:50:C:C2'	2.68	0.41
1:C1:81:G:H2'	1:C1:81:G:N3	2.35	0.41
1:C1:967:A:H2'	1:C1:968:U:C6	2.55	0.41
1:C1:993:A:C5	1:C1:1012:U:C2	3.07	0.41
29:D1:1105:A:H2'	29:D1:1106:G:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1154:A:H5''	29:D1:1154:A:H8	1.84	0.41
29:D1:1178:G:N7	29:D1:1179:A:C2	2.88	0.41
29:D1:1225:A:HO2'	29:D1:1226:G:P	2.43	0.41
29:D1:1284:C:C2	29:D1:1285:G:C8	3.08	0.41
29:D1:1293:U:C2'	29:D1:1294:A:O5'	2.68	0.41
29:D1:1399:A:C2	31:D3:8:C:H1'	2.54	0.41
29:D1:1503:A:H2'	29:D1:1504:A:O4'	2.20	0.41
29:D1:156:G:C5	29:D1:158:G:OP2	2.73	0.41
29:D1:1843:C:H2'	29:D1:1844:C:H6	1.85	0.41
29:D1:2136:C:C5'	29:D1:2137:U:OP2	2.55	0.41
29:D1:2151:C:O2	29:D1:2243:A:H2	2.04	0.41
29:D1:2221:G:N2	29:D1:2225:U:C2	2.88	0.41
29:D1:2423:U:O5'	29:D1:2423:U:H6	2.02	0.41
29:D1:2639:G:C4	29:D1:2640:A:C8	3.07	0.41
29:D1:2725:U:C5	29:D1:2727:A:C4	3.08	0.41
29:D1:2743:A:H2'	29:D1:2743:A:N3	2.35	0.41
29:D1:2801:A:O2'	29:D1:2802:A:H2'	2.19	0.41
29:D1:3040:A:H2'	29:D1:3040:A:N3	2.34	0.41
29:D1:3102:G:N2	29:D1:3103:A:N3	2.68	0.41
29:D1:3120:C:H5'	29:D1:3121:U:OP2	2.20	0.41
29:D1:3375:A:OP2	29:D1:3375:A:C4'	2.65	0.41
29:D1:3377:G:C1'	29:D1:3378:C:P	3.06	0.41
29:D1:352:A:H1'	29:D1:354:U:C6	2.55	0.41
29:D1:361:A:HO2'	29:D1:362:U:P	2.43	0.41
29:D1:414:U:C4	29:D1:415:G:N7	2.88	0.41
29:D1:429:U:H2'	29:D1:430:U:C6	2.55	0.41
29:D1:542:G:N3	29:D1:543:C:C5	2.89	0.41
29:D1:561:C:H2'	29:D1:562:C:C5	2.54	0.41
29:D1:597:G:C5	29:D1:598:A:N7	2.88	0.41
29:D1:614:C:C2'	29:D1:615:U:H5'	2.50	0.41
29:D1:29:C:H4'	29:D1:62:A:H4'	2.02	0.41
29:D1:637:C:O2'	29:D1:638:C:H5''	2.20	0.41
29:D1:715:A:C3'	54:DY:115:LYS:CB	2.98	0.41
29:D1:75:G:C6	29:D1:76:G:C6	3.07	0.41
29:D1:816:A:N6	29:D1:910:G:O2'	2.54	0.41
29:D1:968:G:C5	29:D1:969:C:C4	3.08	0.41
30:D2:83:U:C2'	30:D2:84:A:H5'	2.50	0.41
31:D3:131:A:O2'	31:D3:132:G:O5'	2.37	0.41
29:D1:411:U:C2	31:D3:13:A:C2	3.08	0.41
34:DC:41:VAL:C	34:DC:42:ALA:O	2.58	0.41
35:DD:31:ARG:O	35:DD:32:PRO:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DS:59:SER:C	48:DS:61:SER:N	2.74	0.41
1:A1:704:C:O4'	1:A1:705:U:OP1	2.37	0.41
1:A1:707:A:C6	1:A1:731:C:H5	2.39	0.41
1:C1:221:A:C5	1:C1:833:U:H5	2.38	0.41
29:B1:2700:G:C6	29:B1:2701:U:C4	3.08	0.41
29:B1:956:U:O5'	29:B1:956:U:H6	2.04	0.41
29:B1:966:U:H2'	29:B1:967:A:N9	2.26	0.41
31:B3:74:U:O2	31:B3:74:U:O4'	2.37	0.41
49:BT:28:SER:O	49:BT:31:LEU:N	2.53	0.41
1:A1:130:C:H3'	1:A1:131:C:C5'	2.50	0.41
30:D2:79:A:C1'	30:D2:102:A:N6	2.84	0.41
1:C1:1683:C:H5''	1:C1:1722:A:H2	1.86	0.41
1:C1:1717:G:C6	1:C1:1718:G:N2	2.88	0.41
1:C1:1719:A:H5'	1:C1:1720:G:P	2.60	0.41
1:C1:1683:C:C5	1:C1:1719:A:N6	2.88	0.41
1:C1:323:A:O2'	1:C1:324:U:C5'	2.68	0.41
29:B1:2673:A:N6	29:B1:2681:U:N3	2.50	0.41
29:B1:2685:C:H2'	29:B1:2685:C:O2	2.19	0.41
1:C1:1171:A:C2'	1:C1:1172:G:C8	3.00	0.41
1:C1:1235:C:C2'	1:C1:1236:A:H5'	2.50	0.41
1:C1:1374:C:H2'	1:C1:1375:A:N9	2.35	0.41
1:C1:1385:G:C2	1:C1:1386:G:N9	2.87	0.41
1:C1:1524:A:C2	1:C1:1525:A:C5	3.08	0.41
1:C1:1524:A:C2	1:C1:1525:A:C6	3.09	0.41
1:A1:1181:U:C2'	1:A1:1182:U:O5'	2.68	0.41
1:A1:1231:U:C2	1:A1:1258:U:H5'	2.55	0.41
1:A1:1252:C:H2'	1:A1:1252:C:O2	2.18	0.41
1:A1:1591:C:O2'	1:A1:1592:A:H5'	2.21	0.41
1:A1:1597:A:N6	1:A1:1598:U:H3	2.17	0.41
1:A1:1614:A:H2	1:A1:1616:G:P	2.42	0.41
30:B2:88:G:C6	30:B2:89:G:O6	2.73	0.41
29:B1:1461:A:C6	29:B1:1462:A:C6	3.08	0.41
29:B1:380:U:C5	74:B1:3539:OHX:N1	2.88	0.41
46:BQ:9:THR:HA	46:BQ:13:LYS:CA	2.50	0.41
29:B1:3278:C:H2'	29:B1:3279:A:N9	2.35	0.41
29:B1:3281:U:H2'	29:B1:3282:U:N1	2.34	0.41
29:D1:3196:U:H2'	29:D1:3197:G:C2	2.55	0.41
29:D1:3197:G:C2'	29:D1:3197:G:N3	2.83	0.41
29:B1:3241:G:H2'	29:B1:3242:G:O5'	2.20	0.41
30:B2:44:C:C2	30:B2:45:A:C8	3.08	0.41
29:B1:1252:A:N3	29:B1:1264:G:OP1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3218:A:HO2'	29:D1:3219:G:H3'	1.61	0.41
29:D1:1255:C:O2	29:D1:1255:C:C2'	2.65	0.41
4:CC:69:LEU:O	4:CC:71:LEU:N	2.53	0.41
29:D1:3354:U:O2'	29:D1:3355:U:O5'	2.34	0.41
29:B1:845:G:C2'	29:B1:846:A:O5'	2.68	0.41
2:CA:178:ALA:HA	2:CA:181:VAL:CB	2.50	0.41
1:C1:1324:G:C6	1:C1:1325:A:C8	3.08	0.41
1:C1:1650:U:C2	1:C1:1651:A:C8	3.08	0.41
29:D1:3141:A:C5'	29:D1:3143:C:H2'	2.50	0.41
29:D1:2130:G:O6	29:D1:2323:G:O6	2.38	0.41
29:D1:124:U:H6	29:D1:124:U:O5'	2.04	0.41
1:A1:1421:A:H2'	1:A1:1421:A:N3	2.35	0.41
29:D1:1081:U:C2'	29:D1:1082:U:OP1	2.68	0.41
9:AH:20:TYR:HA	9:AH:85:ALA:N	2.36	0.41
1:C1:891:A:N6	1:C1:922:G:O6	2.52	0.41
29:B1:1730:G:O6	55:BZ:27:TYR:N	2.52	0.41
29:B1:331:G:C2	29:B1:332:C:C5	3.08	0.41
1:A1:1657:U:H1'	1:A1:1658:G:P	2.59	0.41
1:A1:1656:U:H5'	1:A1:1657:U:O5'	2.18	0.41
1:A1:1662:G:O2'	1:A1:1663:G:C5'	2.67	0.41
1:A1:1665:U:O2	1:A1:1665:U:H2'	2.19	0.41
30:D2:117:A:N6	30:D2:118:A:N6	2.67	0.41
29:D1:1923:C:O2'	29:D1:1924:U:H5'	2.21	0.41
1:A1:350:U:O4'	1:A1:352:A:C5	2.73	0.41
31:D3:151:C:P	31:D3:151:C:H6	2.43	0.41
29:D1:1714:A:C2'	29:D1:1715:A:OP1	2.69	0.41
1:C1:772:G:H8	1:C1:772:G:O5'	2.03	0.41
5:AD:166:ARG:O	5:AD:167:ARG:C	2.58	0.41
29:B1:1353:U:O3'	29:B1:1353:U:OP1	2.37	0.41
1:C1:1021:C:N3	1:C1:1022:C:O2	2.53	0.41
6:CE:59:LEU:C	6:CE:61:THR:H	2.23	0.41
29:B1:2885:C:C2'	29:B1:2886:U:H5'	2.50	0.41
1:C1:782:U:H4'	1:C1:783:G:C5'	2.48	0.41
29:B1:2129:U:H2'	29:B1:2130:G:H8	1.78	0.41
29:B1:1424:C:H2'	29:B1:1425:U:O4'	2.20	0.41
17:CP:127:VAL:CA	17:CP:128:SER:C	2.87	0.41
1:C1:215:A:C8	1:C1:215:A:O5'	2.64	0.41
1:C1:721:U:C6	1:C1:723:G:OP1	2.73	0.41
13:CL:76:PRO:C	13:CL:78:HIS:H	2.22	0.41
29:D1:2927:C:H2'	29:D1:2928:C:O4'	2.21	0.41
29:B1:268:A:O2'	29:B1:269:G:OP2	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:296:A:H2'	29:B1:297:G:O4'	2.20	0.41
29:B1:1471:U:N3	29:B1:1472:U:C4	2.87	0.41
20:AS:38:ILE:N	74:AS:101:OHX:N5	2.67	0.41
3:CB:126:ARG:C	3:CB:128:GLY:H	2.23	0.41
29:B1:1492:G:O5'	29:B1:1493:G:N2	2.53	0.41
46:DQ:44:ALA:O	46:DQ:45:GLN:C	2.59	0.41
1:C1:733:A:OP1	1:C1:733:A:H4'	2.19	0.41
29:D1:1049:C:C2'	29:D1:1050:U:H5'	2.49	0.41
5:CD:207:THR:HA	5:CD:208:SER:HA	1.60	0.41
4:CC:114:ALA:C	4:CC:116:ARG:H	2.23	0.41
29:B1:1003:A:N6	29:B1:1046:A:H61	2.18	0.41
35:DD:190:GLY:C	35:DD:192:GLY:N	2.71	0.41
29:B1:2694:A:H5'	29:B1:2695:A:OP2	2.20	0.41
29:D1:440:A:H5'	29:D1:441:U:H5'	2.02	0.41
35:BD:89:ALA:O	35:BD:90:PHE:C	2.58	0.41
8:CG:70:LYS:O	8:CG:71:ILE:C	2.58	0.41
49:BT:11:THR:O	49:BT:13:TYR:N	2.52	0.41
45:DP:83:ALA:O	45:DP:85:ARG:N	2.53	0.41
29:D1:908:G:N7	29:D1:925:A:C4	2.88	0.41
33:BB:200:ARG:O	33:BB:202:VAL:N	2.48	0.41
36:BE:130:GLU:CA	36:BE:131:LEU:CB	2.98	0.41
53:DX:39:LEU:C	53:DX:41:ALA:H	2.23	0.41
1:C1:1422:A:C2	1:C1:1423:U:C2	3.08	0.41
2:CA:54:TRP:C	2:CA:56:LYS:N	2.70	0.41
33:BB:4:VAL:C	33:BB:5:ILE:O	2.59	0.41
14:CM:15:ILE:O	14:CM:18:TYR:N	2.52	0.41
44:BO:141:ALA:HA	44:BO:145:ASP:H	1.85	0.41
39:DH:168:ALA:C	39:DH:170:CYS:N	2.74	0.41
34:DC:207:SER:O	34:DC:208:VAL:O	2.38	0.41
36:DE:80:SER:C	36:DE:82:GLU:H	2.24	0.41
34:DC:288:GLY:H	34:DC:291:GLU:CB	2.32	0.41
29:B1:1733:G:H2'	29:B1:1734:G:C8	2.55	0.41
6:AE:22:SER:O	6:AE:26:ALA:HB2	2.20	0.41
2:AA:96:THR:O	2:AA:97:PRO:O	2.38	0.41
2:AA:167:LYS:O	2:AA:168:HIS:CB	2.67	0.41
47:BR:29:LEU:O	47:BR:30:VAL:C	2.58	0.41
1:A1:1048:G:H5''	1:A1:1049:U:OP2	2.20	0.41
1:A1:1073:G:C5'	1:A1:1073:G:H8	2.33	0.41
1:A1:1145:U:H2'	1:A1:1146:G:H5''	2.03	0.41
1:A1:1757:G:H8	1:A1:1757:G:H5'	1.85	0.41
1:A1:33:U:C3'	1:A1:33:U:C6	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:407:A:C5	1:A1:408:C:C5	3.08	0.41
1:A1:461:G:C2	1:A1:462:G:C5	3.08	0.41
1:A1:586:G:C2'	1:A1:587:C:O5'	2.68	0.41
29:B1:1212:A:H3'	29:B1:1213:G:C5'	2.50	0.41
29:B1:220:G:C5	29:B1:1389:G:N2	2.88	0.41
29:B1:1501:U:C6	29:B1:1501:U:OP2	2.71	0.41
29:B1:1525:G:H5'	29:B1:1829:G:O2'	2.20	0.41
29:B1:1556:C:O2'	29:B1:1557:A:OP2	2.37	0.41
29:B1:1943:C:H5'	29:B1:3344:A:H5'	2.03	0.41
29:B1:2260:U:OP1	29:B1:2260:U:C4'	2.68	0.41
29:B1:1899:G:N2	29:B1:2334:U:C5	2.88	0.41
29:B1:1311:G:O4'	29:B1:2381:G:H5'	2.20	0.41
29:B1:420:G:N3	29:B1:2385:G:OP2	2.53	0.41
29:B1:2826:U:C4	29:B1:2827:U:C4	3.08	0.41
29:B1:2856:G:N1	29:B1:2857:C:C4	2.89	0.41
29:B1:3057:U:H2'	29:B1:3057:U:O2	2.20	0.41
29:B1:3096:C:N3	29:B1:3097:C:C5	2.89	0.41
29:B1:324:A:H2'	29:B1:325:A:C8	2.56	0.41
29:B1:3322:A:C4	29:B1:3386:G:N2	2.88	0.41
29:B1:3377:G:C4	74:B1:3450:OHX:N4	2.88	0.41
29:B1:1199:C:O2'	74:B1:3587:OHX:N3	2.53	0.41
29:B1:420:G:N3	29:B1:2384:A:N3	2.69	0.41
29:B1:44:U:H3	29:B1:94:G:H1	1.66	0.41
29:B1:517:G:C6	29:B1:518:G:C6	3.09	0.41
29:B1:532:A:N1	29:B1:560:G:C2	2.88	0.41
29:B1:542:G:O6	29:B1:549:U:O4	2.38	0.41
29:B1:61:A:C2	29:B1:62:A:H1'	2.55	0.41
29:B1:67:A:C8	29:B1:317:A:C1'	3.01	0.41
29:B1:739:G:C2	29:B1:740:G:C5	3.08	0.41
29:B1:795:G:H2'	29:B1:796:U:O5'	2.21	0.41
29:B1:796:U:C2	29:B1:797:U:C5	3.09	0.41
31:B3:10:A:C4	31:B3:11:C:C6	3.08	0.41
31:B3:11:C:C2	31:B3:12:A:C8	3.08	0.41
29:B1:2203:U:H4'	33:BB:239:ALA:O	2.21	0.41
1:C1:151:G:N2	1:C1:163:G:N2	2.68	0.41
1:C1:183:U:C5	1:C1:184:C:C5	3.08	0.41
1:C1:198:A:N3	1:C1:199:G:O4'	2.53	0.41
1:C1:206:A:O2'	1:C1:207:U:H5'	2.21	0.41
1:C1:269:G:N3	1:C1:270:C:C6	2.89	0.41
1:C1:27:U:H2'	1:C1:28:A:H8	1.85	0.41
1:C1:265:A:N7	1:C1:290:G:C2	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:295:A:N1	1:C1:296:U:O2	2.53	0.41
1:C1:40:A:C2'	1:C1:41:A:O4'	2.68	0.41
29:D1:642:U:H5'	29:D1:1116:G:N7	2.35	0.41
29:D1:1128:U:O2	29:D1:1129:A:C1'	2.69	0.41
29:D1:114:A:N3	29:D1:267:G:C2	2.89	0.41
29:D1:1192:C:O5'	29:D1:1193:A:OP2	2.38	0.41
29:D1:1227:C:H2'	29:D1:1227:C:O2	2.20	0.41
29:D1:1311:G:H8	29:D1:1311:G:O5'	2.03	0.41
29:D1:1440:G:C2	29:D1:1441:G:C8	3.07	0.41
29:D1:1508:C:C2'	29:D1:1509:A:H5'	2.51	0.41
29:D1:1841:A:C6	29:D1:1848:G:C6	3.08	0.41
29:D1:1454:A:C5'	29:D1:1878:G:C6	2.94	0.41
29:D1:2166:A:C6	29:D1:2167:A:C6	3.08	0.41
29:D1:2196:C:C4	29:D1:2242:A:C5	3.09	0.41
29:D1:2260:U:C3'	29:D1:2261:G:C8	3.03	0.41
29:D1:2250:G:N1	29:D1:2267:C:N3	2.58	0.41
29:D1:2278:C:C2	29:D1:2307:G:N2	2.89	0.41
29:D1:2409:G:C2	29:D1:2411:U:C6	3.08	0.41
29:D1:2620:G:H2'	29:D1:2621:G:H5'	2.02	0.41
29:D1:265:A:H4'	29:D1:266:A:O5'	2.19	0.41
29:D1:2698:G:C2'	29:D1:2699:G:C5'	2.83	0.41
29:D1:2852:C:H5	29:D1:2853:A:C5	2.39	0.41
29:D1:2900:A:N3	29:D1:2901:G:N7	2.67	0.41
29:D1:2916:U:H2'	29:D1:2917:G:H8	1.85	0.41
29:D1:3012:A:C2'	29:D1:3013:U:C5'	2.92	0.41
29:D1:3090:U:C4'	29:D1:3090:U:OP1	2.67	0.41
29:D1:2339:C:C5	29:D1:3093:C:OP1	2.69	0.41
29:D1:3105:U:C6	29:D1:3106:A:C8	3.08	0.41
29:D1:3130:A:H5'	29:D1:3131:U:C5	2.55	0.41
29:D1:3147:G:C2'	29:D1:3148:U:O5'	2.69	0.41
29:D1:3292:A:O3'	29:D1:3293:U:O3'	2.39	0.41
29:D1:3296:A:N3	29:D1:3297:U:C1'	2.84	0.41
29:D1:418:A:H2'	29:D1:419:G:C8	2.56	0.41
29:D1:504:A:C2	29:D1:505:G:N1	2.89	0.41
29:D1:516:A:C4'	29:D1:517:G:OP1	2.66	0.41
29:D1:535:G:N2	29:D1:558:U:O2'	2.53	0.41
29:D1:550:A:C6	29:D1:551:A:C5	3.09	0.41
29:D1:592:A:C2	29:D1:593:C:N1	2.88	0.41
29:D1:642:U:C5'	29:D1:643:U:OP2	2.68	0.41
29:D1:693:A:C2'	29:D1:694:C:C6	2.99	0.41
29:D1:746:A:O2'	29:D1:747:A:OP1	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:759:U:C4	29:D1:760:G:C2	3.08	0.41
29:D1:776:U:C4'	29:D1:777:U:H5''	2.46	0.41
29:D1:776:U:C6	29:D1:777:U:O4'	2.73	0.41
29:D1:845:G:N2	29:D1:848:A:N6	2.68	0.41
29:D1:946:U:O2	29:D1:947:G:C8	2.73	0.41
29:D1:974:G:C4	29:D1:975:C:C6	3.09	0.41
31:D3:112:U:H3	31:D3:114:G:H1'	1.86	0.41
35:DD:101:ALA:O	35:DD:102:PRO:CB	2.67	0.41
37:DF:134:ARG:O	37:DF:138:GLN:N	2.54	0.41
29:B1:2639:G:N1	29:B1:2640:A:C5	2.87	0.41
29:B1:2688:U:C2'	29:B1:2689:A:OP1	2.68	0.41
29:B1:2762:A:C5	29:B1:2763:U:C5	3.09	0.41
30:B2:113:C:O2'	30:B2:114:U:O5'	2.39	0.41
30:B2:63:A:C2	30:B2:65:G:C6	3.08	0.41
30:B2:79:A:H1'	30:B2:102:A:H61	1.80	0.41
31:B3:92:A:C3'	31:B3:93:U:H5'	2.50	0.41
1:A1:267:U:O4	1:A1:268:C:N3	2.53	0.41
30:D2:62:U:C2'	30:D2:62:U:O2	2.64	0.41
30:D2:67:G:C5	30:D2:68:C:C4	3.07	0.41
30:D2:77:G:C2'	30:D2:78:U:OP2	2.68	0.41
1:C1:1725:U:H2'	1:C1:1726:G:C8	2.55	0.41
1:C1:332:U:H5''	1:C1:333:A:OP2	2.20	0.41
1:A1:1717:G:O6	1:A1:1718:G:N2	2.53	0.41
1:A1:1719:A:O3'	1:A1:1720:G:O4'	2.38	0.41
1:A1:330:G:C4	1:A1:331:A:N7	2.88	0.41
1:C1:1164:G:O2'	1:C1:1165:G:C5'	2.69	0.41
1:C1:1368:G:N3	1:C1:1368:G:H2'	2.35	0.41
1:C1:1347:U:C4	1:C1:1376:C:N4	2.88	0.41
1:C1:1467:C:N3	1:C1:1468:U:C4	2.89	0.41
1:C1:1476:C:H2'	1:C1:1477:G:C8	2.55	0.41
1:C1:1486:G:H1'	1:C1:1592:A:HO2'	1.85	0.41
1:C1:1525:A:C2	1:C1:1526:A:C5	3.09	0.41
1:C1:1539:G:HO2'	1:C1:1540:G:P	2.43	0.41
1:C1:1170:G:H22	1:C1:1571:C:H4'	1.80	0.41
1:C1:1571:C:C3'	1:C1:1572:G:H5''	2.45	0.41
1:C1:1615:C:H2'	1:C1:1616:G:H4'	2.02	0.41
1:A1:1246:C:C5	1:A1:1247:U:C4	3.08	0.41
1:A1:1252:C:O2'	1:A1:1253:U:H5'	2.20	0.41
1:A1:1255:G:P	1:A1:1255:G:O4'	2.78	0.41
1:A1:1267:G:C2	1:A1:1268:G:C4	3.08	0.41
1:A1:1347:U:C2	1:A1:1349:G:O6	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1457:C:H6	1:A1:1457:C:H2'	1.61	0.41
1:A1:1553:G:N2	1:A1:1555:A:H3'	2.34	0.41
1:A1:1602:C:C2	1:A1:1603:U:C6	3.07	0.41
29:B1:380:U:H5	74:B1:3539:OHX:N1	2.19	0.41
29:D1:624:G:H2'	29:D1:624:G:N3	2.35	0.41
29:B1:3182:G:H2'	29:B1:3183:A:O4'	2.20	0.41
29:D1:3195:U:O2	29:D1:3195:U:H2'	2.21	0.41
31:D3:16:G:C6	74:D3:212:OHX:N3	2.83	0.41
29:D1:373:A:C6	29:D1:375:A:N6	2.88	0.41
1:C1:884:A:H2'	1:C1:885:G:H8	1.78	0.41
1:A1:641:G:C2	1:A1:642:G:N7	2.88	0.41
29:D1:1234:G:O5'	29:D1:1235:U:OP2	2.39	0.41
29:D1:1257:C:C2	29:D1:1261:G:N2	2.89	0.41
29:D1:1257:C:C2	29:D1:1258:U:C6	3.08	0.41
29:D1:1266:G:C6	29:D1:1267:U:C5	3.08	0.41
4:CC:14:ASP:C	4:CC:16:VAL:H	2.22	0.41
29:D1:1627:U:C3'	29:D1:1628:C:O4'	2.64	0.41
1:C1:1338:C:C1'	1:C1:1410:A:C2	3.03	0.41
29:B1:3225:C:C4	29:B1:3226:A:N6	2.89	0.41
29:B1:3260:G:C8	29:B1:3260:G:OP2	2.73	0.41
29:D1:3139:A:H2'	29:D1:3140:G:H5''	2.02	0.41
29:D1:2215:A:C2'	29:D1:2215:A:N3	2.77	0.41
29:D1:2511:A:C2'	29:D1:2512:C:H5'	2.48	0.41
29:D1:1074:U:H4'	29:D1:1075:A:OP2	2.20	0.41
29:B1:1187:C:H6	29:B1:1187:C:O5'	2.03	0.41
1:C1:1783:C:N3	1:C1:1784:C:C5	2.88	0.41
1:A1:1734:U:H5''	1:A1:1735:U:OP2	2.21	0.41
29:B1:1001:G:C8	29:B1:1041:U:O3'	2.73	0.41
29:D1:1931:U:O2	29:D1:2121:G:C2	2.72	0.41
29:D1:1913:A:C2	29:D1:2120:A:H8	2.38	0.41
1:A1:1325:A:N3	1:A1:1326:A:N7	2.67	0.41
29:B1:1351:U:O2	29:B1:1352:A:C6	2.73	0.41
29:B1:1021:G:N1	29:B1:1032:C:C2	2.89	0.41
29:B1:2909:U:H2'	29:B1:2910:A:C5'	2.51	0.41
29:B1:1182:A:H2'	29:B1:1183:C:C6	2.56	0.41
47:BR:43:PRO:O	47:BR:44:PHE:C	2.58	0.41
3:AB:153:SER:HA	3:AB:171:PRO:CB	2.50	0.41
29:B1:2337:C:C2	29:B1:2338:C:C5	3.08	0.41
52:BW:54:TYR:O	52:BW:56:ARG:N	2.52	0.41
1:A1:804:A:C4	1:A1:805:U:C5	3.08	0.41
1:C1:709:C:H6	1:C1:709:C:OP2	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:733:A:C5	1:C1:734:A:C4	3.08	0.41
29:B1:232:G:H2'	29:B1:233:C:O4'	2.20	0.41
1:A1:880:C:C2	1:A1:881:A:C8	3.07	0.41
29:B1:3166:C:H2'	29:B1:3167:A:H8	1.86	0.41
35:DD:57:GLY:C	35:DD:59:GLN:H	2.23	0.41
35:DD:115:HIS:O	35:DD:118:LYS:N	2.53	0.41
16:AO:105:THR:O	16:AO:106:THR:O	2.39	0.41
1:A1:1317:C:OP2	74:A1:1929:OHX:N6	2.53	0.41
29:B1:2598:G:C6	29:B1:2599:U:C4	3.08	0.41
1:C1:577:G:H2'	1:C1:577:G:H8	1.71	0.41
45:BP:84:LEU:O	45:BP:87:MET:N	2.53	0.41
38:BG:240:VAL:O	38:BG:241:LYS:C	2.58	0.41
29:B1:2095:G:O2'	29:B1:2096:A:H5'	2.19	0.41
1:C1:665:U:H2'	1:C1:666:U:H5''	2.02	0.41
32:DA:150:ASP:C	32:DA:152:ARG:N	2.74	0.41
9:CH:49:LYS:O	9:CH:50:ALA:C	2.58	0.41
29:D1:2219:A:H2'	29:D1:2220:A:H5'	2.01	0.41
29:B1:1763:U:H2'	29:B1:1764:U:O4'	2.19	0.41
35:DD:257:LYS:O	35:DD:258:LEU:O	2.38	0.41
29:D1:1888:U:C4	29:D1:1889:G:C8	3.08	0.41
35:DD:237:GLN:C	35:DD:239:ALA:N	2.71	0.41
53:DX:64:LYS:C	53:DX:66:GLN:N	2.72	0.41
42:DK:76:ALA:C	42:DK:78:GLU:N	2.73	0.41
2:CA:56:LYS:O	2:CA:59:LEU:N	2.53	0.41
52:DW:95:ILE:O	52:DW:98:ALA:HB3	2.21	0.41
44:DO:108:ARG:C	44:DO:110:ALA:H	2.24	0.41
21:CT:219:GLU:HA	21:CT:236:ALA:H	1.85	0.41
17:CP:136:TRP:HA	17:CP:137:LYS:HA	1.81	0.41
42:BK:147:THR:C	42:BK:148:VAL:O	2.58	0.41
1:C1:1302:U:O2	1:C1:1302:U:H2'	2.20	0.41
74:B1:3583:OHX:N5	74:B1:3614:OHX:N2	2.68	0.41
13:AL:109:LEU:O	13:AL:110:ARG:C	2.58	0.41
2:CA:107:PHE:HA	2:CA:117:GLU:CB	2.50	0.41
74:C1:1973:OHX:N2	74:C1:1984:OHX:N5	2.68	0.41
29:B1:2760:C:O2	29:B1:2760:C:H2'	2.19	0.41
29:B1:1457:U:H2'	29:B1:1457:U:O2	2.20	0.41
13:CL:109:LEU:O	13:CL:110:ARG:C	2.59	0.41
1:A1:1002:G:C5	1:A1:1003:A:H2	2.38	0.41
1:A1:1092:A:C2	1:A1:1094:G:C5	3.09	0.41
1:A1:1141:G:C4	1:A1:1142:A:C8	3.08	0.41
1:A1:123:G:N1	1:A1:295:A:N6	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1776:A:C2	1:A1:1786:G:C5	3.08	0.41
1:A1:32:U:H2'	1:A1:33:U:C5'	2.50	0.41
1:A1:439:U:H2'	1:A1:439:U:H6	1.57	0.41
1:A1:460:A:N3	1:A1:460:A:H2'	2.34	0.41
1:A1:545:A:C2	1:A1:546:U:C2	3.07	0.41
1:A1:381:C:O2'	1:A1:756:A:C2	2.74	0.41
1:A1:755:A:C4	1:A1:756:A:C5	3.09	0.41
1:A1:819:G:HO2'	1:A1:820:U:P	2.43	0.41
29:B1:1172:G:N1	29:B1:1173:U:C4	2.89	0.41
29:B1:1289:G:C2	29:B1:1290:A:C5	3.07	0.41
29:B1:1317:A:N7	29:B1:1319:G:C6	2.88	0.41
29:B1:1412:G:N7	29:B1:1413:G:N7	2.68	0.41
29:B1:1483:G:N7	29:B1:1485:G:C4	2.88	0.41
29:B1:1562:C:H2'	29:B1:1563:C:O4'	2.21	0.41
29:B1:1658:G:H2'	29:B1:1659:U:O4'	2.21	0.41
29:B1:1683:A:C5	29:B1:1684:U:N3	2.88	0.41
29:B1:1688:U:H2'	29:B1:1689:U:C6	2.50	0.41
29:B1:1657:C:O2'	29:B1:1797:A:OP2	2.22	0.41
29:B1:1798:A:C6	29:B1:1799:A:C6	3.08	0.41
29:B1:192:C:C2	29:B1:193:C:C5	3.08	0.41
29:B1:2276:G:N7	29:B1:2277:C:H5	2.19	0.41
29:B1:2309:A:N3	29:B1:2962:U:C5'	2.79	0.41
29:B1:2785:A:C5	29:B1:2786:G:N7	2.88	0.41
29:B1:2929:C:C5	29:B1:2930:A:C8	3.09	0.41
29:B1:2983:C:O2'	29:B1:2984:C:H5'	2.21	0.41
29:B1:3046:A:C4	29:B1:3047:U:C5	3.09	0.41
29:B1:3070:A:C4	29:B1:3071:U:C6	3.09	0.41
29:B1:3294:A:C6	29:B1:3295:A:N7	2.89	0.41
29:B1:3325:G:O6	74:B1:3456:OHX:N1	2.54	0.41
29:B1:3377:G:C4	29:B1:3379:C:OP1	2.73	0.41
29:B1:3377:G:C6	74:B1:3450:OHX:N1	2.88	0.41
29:B1:556:U:C4	29:B1:557:A:C2	3.08	0.41
29:B1:55:G:HO2'	29:B1:56:G:P	2.43	0.41
29:B1:685:G:H2'	29:B1:686:G:H5'	2.02	0.41
29:B1:717:C:C6	29:B1:721:G:N2	2.88	0.41
29:B1:749:C:O2	29:B1:749:C:H2'	2.19	0.41
29:B1:763:G:O5'	29:B1:763:G:H8	2.04	0.41
29:B1:828:A:H5''	29:B1:829:U:P	2.59	0.41
29:B1:359:U:C2	29:B1:920:A:N6	2.89	0.41
29:B1:907:G:C6	29:B1:926:A:C8	3.08	0.41
31:B3:40:A:N6	31:B3:104:A:C4	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BB:115:ASN:O	33:BB:125:ALA:HB3	2.19	0.41
1:C1:1006:C:C6	1:C1:1007:C:C5	2.98	0.41
1:C1:1007:C:C5'	1:C1:1008:G:OP2	2.64	0.41
1:C1:1118:G:C2	1:C1:1119:G:C5	3.08	0.41
1:C1:1631:A:N6	1:C1:1635:A:O2'	2.52	0.41
1:C1:482:U:C2'	1:C1:483:A:C8	3.00	0.41
1:C1:866:G:C2	1:C1:867:G:N7	2.89	0.41
29:D1:107:A:O5'	29:D1:107:A:C8	2.71	0.41
29:D1:947:G:C6	29:D1:1373:A:N1	2.89	0.41
29:D1:1377:G:N2	29:D1:1430:U:O2	2.40	0.41
29:D1:1445:U:C4	29:D1:1446:A:N7	2.88	0.41
29:D1:157:A:O2'	29:D1:158:G:C5	2.71	0.41
29:D1:14:U:H3'	29:D1:15:C:H5''	2.02	0.41
29:D1:1797:A:C6	29:D1:1798:A:C6	3.08	0.41
29:D1:1882:G:C5	29:D1:1883:A:N7	2.88	0.41
29:D1:1908:A:N7	29:D1:1909:A:C5	2.89	0.41
29:D1:2146:C:C2'	29:D1:2147:A:H5''	2.50	0.41
29:D1:2273:G:H1'	29:D1:2274:U:C5	2.53	0.41
29:D1:2355:G:H8	29:D1:2355:G:H3'	1.85	0.41
29:D1:25:U:H2'	29:D1:26:A:H8	1.84	0.41
29:D1:2614:G:C4	29:D1:2797:C:H5	2.32	0.41
29:D1:292:U:H5''	29:D1:293:C:OP2	2.20	0.41
29:D1:307:A:H2'	29:D1:308:A:C5'	2.50	0.41
29:D1:3290:G:HO2'	29:D1:3291:G:H8	1.67	0.41
29:D1:3322:A:N6	29:D1:3323:A:H62	2.18	0.41
29:D1:412:G:C6	29:D1:413:U:C4	3.08	0.41
29:D1:643:U:H2'	29:D1:644:G:O4'	2.20	0.41
29:D1:697:A:H8	29:D1:698:U:H3'	1.86	0.41
29:D1:771:A:C6	29:D1:772:U:N3	2.88	0.41
29:D1:784:A:H2'	29:D1:784:A:N3	2.35	0.41
29:D1:795:G:H2'	29:D1:796:U:O5'	2.20	0.41
29:D1:799:G:C2	29:D1:801:A:C6	3.08	0.41
29:D1:811:U:C2	29:D1:812:G:N7	2.88	0.41
1:C1:971:A:H61	29:D1:846:A:N6	2.17	0.41
29:D1:948:C:O2	29:D1:948:C:H2'	2.20	0.41
1:C1:223:U:C5'	1:C1:224:C:OP2	2.68	0.41
1:C1:848:C:C2	1:C1:849:C:C5	3.09	0.41
1:C1:806:A:H2'	1:C1:807:A:C8	2.46	0.41
30:B2:106:U:O2'	30:B2:107:C:OP2	2.34	0.41
31:B3:83:C:H6	31:B3:83:C:H3'	1.85	0.41
30:D2:77:G:N2	30:D2:101:G:C5	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:113:U:H5''	1:C1:114:C:C5'	2.35	0.41
1:C1:1717:G:H2'	1:C1:1717:G:N3	2.36	0.41
1:C1:328:A:N3	1:C1:329:G:C8	2.89	0.41
1:C1:331:A:O3'	1:C1:1676:U:C5	2.73	0.41
29:B1:2674:A:C8	42:BK:108:GLU:CA	3.03	0.41
45:DP:124:LEU:HA	45:DP:126:VAL:CB	2.50	0.41
1:A1:114:C:H4'	1:A1:115:G:O5'	2.21	0.41
1:A1:251:A:H2'	1:A1:252:U:C5'	2.44	0.41
1:A1:323:A:C2'	1:A1:324:U:H5'	2.50	0.41
1:C1:1159:C:H6	1:C1:1159:C:C5'	2.34	0.41
1:C1:1171:A:C3'	1:C1:1172:G:H8	2.34	0.41
1:C1:1241:G:H3'	1:C1:1242:A:H5''	2.02	0.41
1:C1:1347:U:C2	1:C1:1349:G:O6	2.73	0.41
1:C1:1431:C:H4'	1:C1:1432:U:H5'	2.01	0.41
1:C1:1477:G:H2'	1:C1:1478:G:H8	1.84	0.41
1:A1:1232:U:O2'	1:A1:1233:G:H5'	2.21	0.41
1:A1:1258:U:H2'	1:A1:1259:U:C1'	2.48	0.41
11:AJ:81:ILE:C	11:AJ:84:ALA:HB3	2.39	0.41
29:D1:3207:U:C3'	29:D1:3208:G:C5'	2.98	0.41
29:D1:3210:A:N9	29:D1:3211:C:C5	2.89	0.41
1:C1:1066:C:H2'	1:C1:1066:C:O2	2.20	0.41
29:B1:3194:C:H3'	29:B1:3194:C:H6	1.82	0.41
29:D1:3189:G:H2'	29:D1:3190:C:O4'	2.20	0.41
29:D1:3194:C:H3'	29:D1:3195:U:C5'	2.50	0.41
29:D1:3200:G:N1	29:D1:3201:C:N4	2.68	0.41
30:D2:27:A:N3	30:D2:27:A:H2'	2.35	0.41
30:D2:27:A:N1	30:D2:54:U:O4	2.53	0.41
29:B1:2520:A:C6	29:B1:2521:U:O4	2.74	0.41
29:D1:3250:U:C2'	29:D1:3251:U:O5'	2.68	0.41
29:D1:189:G:H2'	29:D1:224:C:OP1	2.20	0.41
30:B2:28:C:C2'	30:B2:28:C:O2	2.67	0.41
30:D2:37:G:H21	30:D2:44:C:N4	2.18	0.41
36:BE:114:GLY:H	36:BE:117:GLU:H	1.67	0.41
29:B1:342:A:C6	29:B1:368:G:C4	3.09	0.41
29:B1:340:C:O2	29:B1:344:A:H2	2.03	0.41
31:B3:24:G:C2'	31:B3:25:G:O5'	2.68	0.41
2:CA:3:LEU:C	2:CA:5:ALA:H	2.23	0.41
29:B1:3225:C:C5	74:B1:3420:OHX:N3	2.88	0.41
1:C1:699:U:O2	1:C1:740:A:N1	2.54	0.41
1:A1:946:U:N3	1:A1:947:U:C4	2.88	0.41
1:A1:1652:C:O2	1:A1:1652:C:H2'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1634:G:O6	29:B1:1635:G:O6	2.37	0.41
29:B1:1640:G:C5	29:B1:1641:U:C5	3.07	0.41
29:D1:3273:A:C4	29:D1:3274:A:C8	3.09	0.41
1:C1:1752:U:C2	1:C1:1753:A:C8	3.09	0.41
29:D1:1073:U:H5''	29:D1:1074:U:OP2	2.20	0.41
29:D1:1679:A:N1	29:D1:1680:G:N7	2.68	0.41
1:A1:1662:G:C2	1:A1:1663:G:N7	2.89	0.41
29:D1:1928:G:C4	29:D1:1929:G:C8	3.08	0.41
1:C1:1282:U:O2	1:C1:1282:U:H2'	2.19	0.41
1:C1:1285:U:C4'	1:C1:1286:U:OP1	2.63	0.41
29:D1:2564:G:H2'	29:D1:2565:U:O4'	2.20	0.41
36:BE:50:ARG:HA	36:BE:145:PHE:N	2.35	0.41
29:D1:835:G:HO2'	29:D1:836:A:P	2.43	0.41
29:D1:1029:G:C2'	29:D1:1030:A:H5'	2.50	0.41
6:AE:59:LEU:C	6:AE:61:THR:N	2.73	0.41
1:A1:787:G:H3'	1:A1:788:A:H8	1.85	0.41
29:B1:1029:G:H8	29:B1:1029:G:P	2.44	0.41
1:A1:1783:C:O2'	1:A1:1784:C:H5'	2.20	0.41
29:D1:1744:G:H2'	29:D1:1745:C:C6	2.55	0.41
2:AA:14:ALA:HA	2:AA:15:GLN:HA	1.79	0.41
10:CI:19:GLY:CA	13:CL:98:TYR:HA	2.49	0.41
17:AP:123:LYS:O	17:AP:124:VAL:O	2.38	0.41
29:D1:2862:U:HO2'	29:D1:2863:G:H5'	1.84	0.41
29:D1:2972:G:C2'	29:D1:2973:G:O5'	2.68	0.41
29:D1:602:A:C2	29:D1:603:A:N6	2.88	0.41
1:C1:410:A:N1	1:C1:411:C:N3	2.68	0.41
47:DR:18:ALA:O	47:DR:19:PRO:C	2.58	0.41
1:A1:1084:A:C2'	1:A1:1085:G:H5'	2.50	0.41
29:D1:1725:C:C2	29:D1:1726:C:C5	3.09	0.41
42:DK:87:LYS:O	42:DK:88:GLU:C	2.59	0.41
29:B1:96:G:C8	29:B1:96:G:C5'	3.03	0.41
5:CD:136:ALA:C	5:CD:138:THR:H	2.23	0.41
33:DB:232:GLY:O	33:DB:233:GLN:O	2.38	0.41
1:C1:1623:C:C2	1:C1:1624:C:C6	3.08	0.41
1:C1:569:C:H3'	1:C1:570:A:H8	1.85	0.41
72:DL:70:ALA:C	72:DL:72:SER:H	2.22	0.41
1:C1:927:C:H2'	1:C1:928:U:C6	2.56	0.41
16:AO:112:ASP:O	16:AO:115:GLU:N	2.52	0.41
10:AI:69:GLU:C	10:AI:71:GLU:H	2.23	0.41
29:B1:789:A:C2'	29:B1:790:U:O5'	2.68	0.41
9:CH:89:THR:HA	9:CH:90:ARG:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BE:183:TRP:CB	36:BE:190:ILE:N	2.84	0.41
29:D1:1671:C:C2'	29:D1:1671:C:O2	2.68	0.41
29:B1:2209:U:C6	29:B1:2209:U:H3'	2.56	0.41
8:AG:69:ASN:O	8:AG:71:ILE:N	2.54	0.41
29:B1:1410:U:C6	29:B1:1410:U:C3'	3.04	0.41
8:AG:139:TRP:H	8:AG:142:GLU:HA	1.83	0.41
8:CG:82:PRO:O	8:CG:83:GLU:C	2.59	0.41
1:A1:1277:G:C6	1:A1:1278:G:N3	2.88	0.41
42:BK:77:GLU:O	42:BK:81:GLU:N	2.53	0.41
8:CG:114:ARG:C	8:CG:116:ILE:N	2.74	0.41
51:BV:18:GLY:CA	51:BV:32:GLN:HA	2.50	0.41
50:BU:81:GLN:O	50:BU:82:ALA:CB	2.68	0.41
5:CD:185:ARG:C	5:CD:187:ILE:H	2.22	0.41
29:D1:1574:C:O2	29:D1:1574:C:H2'	2.20	0.41
17:AP:137:LYS:O	17:AP:138:GLU:O	2.38	0.41
74:D1:3527:OHX:N5	74:D1:3615:OHX:N3	2.68	0.41
34:DC:112:ASP:O	34:DC:113:GLU:O	2.38	0.41
43:BN:58:ILE:CA	43:BN:59:ASN:CB	2.99	0.41
34:BC:27:ALA:CB	34:BC:219:ALA:HA	2.50	0.41
34:BC:251:CYS:O	34:BC:252:ILE:CB	2.68	0.41
48:DS:98:ARG:O	48:DS:101:VAL:N	2.53	0.41
17:CP:118:PRO:O	17:CP:120:VAL:N	2.53	0.41
48:DS:183:ALA:C	48:DS:185:LEU:H	2.24	0.41
52:DW:91:ASN:O	52:DW:92:LYS:CB	2.68	0.41
29:D1:2474:G:H2'	29:D1:2475:G:C8	2.55	0.41
41:BJ:215:GLU:C	41:BJ:217:PHE:N	2.72	0.41
29:B1:1936:A:H2'	29:B1:1937:U:H6	1.85	0.41
50:BU:113:ALA:HB1	50:BU:132:ASN:O	2.20	0.41
1:A1:1000:C:H6	1:A1:1000:C:H2'	1.69	0.41
1:A1:1042:G:C4	1:A1:1043:A:C8	3.08	0.41
1:A1:124:A:N3	1:A1:124:A:H2'	2.36	0.41
1:A1:14:C:H2'	1:A1:15:U:H6	1.85	0.41
1:A1:1631:A:H5'	1:A1:1764:C:C1'	2.48	0.41
1:A1:296:U:C6	1:A1:297:U:C5	3.09	0.41
1:A1:391:A:C2	1:A1:392:G:C4	3.08	0.41
1:A1:498:G:C1'	1:A1:499:U:H5	2.28	0.41
1:A1:552:G:C6	1:A1:553:G:N1	2.89	0.41
1:A1:812:A:C6	1:A1:859:A:C5	3.08	0.41
1:A1:868:G:O6	1:A1:960:U:O4	2.38	0.41
1:A1:958:U:H2'	1:A1:960:U:OP1	2.19	0.41
29:B1:1114:U:C5	29:B1:1115:G:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1130:A:O2'	29:B1:1132:C:H5'	2.21	0.41
29:B1:1169:A:C8	29:B1:1169:A:H5'	2.56	0.41
29:B1:122:A:H1'	29:B1:150:A:C4'	2.49	0.41
29:B1:1551:C:H6	29:B1:1551:C:OP1	2.04	0.41
29:B1:1602:A:N6	29:B1:1603:A:N6	2.68	0.41
29:B1:1909:A:H2'	29:B1:1910:A:O4'	2.21	0.41
29:B1:199:A:N1	29:B1:201:A:H1'	2.36	0.41
29:B1:2144:A:C4	29:B1:2281:A:N1	2.89	0.41
29:B1:2155:G:C5	29:B1:2156:C:C4	3.08	0.41
29:B1:2157:G:C2	29:B1:2178:A:OP2	2.74	0.41
29:B1:2273:G:O2'	29:B1:2274:U:P	2.78	0.41
29:B1:2308:C:OP1	29:B1:2309:A:H3'	2.20	0.41
29:B1:2389:C:O2'	29:B1:2390:A:H5'	2.20	0.41
29:B1:2807:U:C2'	29:B1:2808:A:H5"	2.47	0.41
29:B1:2809:C:O2'	29:B1:2810:C:OP1	2.36	0.41
29:B1:3112:G:C2	29:B1:3121:U:C4	3.08	0.41
29:B1:3005:A:C2'	29:B1:3140:G:H22	2.34	0.41
29:B1:109:A:C5	29:B1:323:A:C2	3.08	0.41
29:B1:3316:A:N7	29:B1:3320:A:C6	2.88	0.41
29:B1:3342:A:C3'	29:B1:3343:G:O4'	2.69	0.41
29:B1:395:A:H2'	29:B1:396:A:C8	2.56	0.41
29:B1:422:A:C1'	29:B1:423:A:O5'	2.67	0.41
29:B1:424:G:H2'	29:B1:425:G:OP1	2.20	0.41
29:B1:53:G:C4	29:B1:54:C:C6	3.09	0.41
29:B1:597:G:HO2'	29:B1:598:A:C4'	2.34	0.41
29:B1:5:G:O6	31:B3:154:C:C4	2.74	0.41
29:B1:423:A:N6	29:B1:637:C:OP1	2.51	0.41
29:B1:688:G:H8	29:B1:688:G:O5'	2.04	0.41
29:B1:812:G:C4	29:B1:813:G:C8	3.08	0.41
29:B1:80:G:N3	29:B1:81:C:C6	2.89	0.41
29:B1:913:A:H8	29:B1:913:A:H5'	1.85	0.41
29:B1:974:G:C2	29:B1:975:C:C6	3.08	0.41
31:B3:103:G:C2	31:B3:105:A:N6	2.88	0.41
29:B1:2178:A:H5'	33:BB:128:ARG:CB	2.51	0.41
35:BD:23:PRO:O	35:BD:24:ALA:HB2	2.20	0.41
44:BO:82:GLY:HA2	44:BO:86:ASN:CB	2.50	0.41
1:C1:1077:C:H2'	1:C1:1078:C:O5'	2.20	0.41
1:C1:1140:G:N1	1:C1:1141:G:N7	2.69	0.41
1:C1:149:C:C2'	1:C1:150:U:C6	3.03	0.41
1:C1:148:A:H3'	1:C1:149:C:H6	1.86	0.41
1:C1:149:C:N3	1:C1:150:U:C4	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:868:G:O6	74:C1:1914:OHX:N3	2.53	0.41
1:C1:610:G:C2	1:C1:614:C:C4	3.08	0.41
1:C1:627:C:H5''	1:C1:628:G:OP2	2.20	0.41
1:C1:770:A:OP2	74:C1:1985:OHX:N3	2.54	0.41
1:C1:938:G:C8	1:C1:938:G:C3'	3.03	0.41
29:D1:117:U:H6	29:D1:117:U:H3'	1.85	0.41
29:D1:1310:G:H5'	29:D1:1310:G:C8	2.46	0.41
29:D1:950:G:H2'	29:D1:1367:G:N2	2.36	0.41
29:D1:1453:A:H2'	29:D1:1878:G:N1	2.36	0.41
29:D1:1469:C:O2'	29:D1:1470:U:OP1	2.36	0.41
29:D1:1460:A:C6	29:D1:1473:G:C6	3.09	0.41
29:D1:120:G:O2'	29:D1:150:A:C6	2.73	0.41
29:D1:158:G:C8	29:D1:158:G:H3'	2.54	0.41
29:D1:2152:A:C1'	29:D1:2243:A:C2	3.04	0.41
29:D1:2262:A:H5''	29:D1:2263:C:C5'	2.51	0.41
29:D1:2289:U:H2'	29:D1:2290:C:C5'	2.44	0.41
29:D1:1452:A:N3	29:D1:2347:U:C4'	2.84	0.41
29:D1:2349:U:O2'	29:D1:3307:A:H1'	2.21	0.41
29:D1:2383:C:N1	29:D1:2384:A:C8	2.89	0.41
29:D1:2390:A:C6	29:D1:2391:G:C6	3.08	0.41
29:D1:2618:G:O4'	29:D1:2619:G:OP2	2.38	0.41
29:D1:277:G:C6	29:D1:278:U:C4	3.08	0.41
29:D1:2800:G:OP2	29:D1:2801:A:OP1	2.39	0.41
29:D1:2846:U:H2'	29:D1:2847:A:OP2	2.20	0.41
29:D1:2851:A:H5''	29:D1:2851:A:C8	2.56	0.41
29:D1:2893:C:C2'	29:D1:2894:C:O5'	2.68	0.41
29:D1:295:A:N7	29:D1:296:A:C4	2.88	0.41
29:D1:2985:C:H2'	29:D1:2986:U:O5'	2.21	0.41
29:D1:3045:G:HO2'	29:D1:3046:A:P	2.43	0.41
29:D1:285:A:C2	29:D1:305:U:C4'	3.03	0.41
29:D1:3110:C:C2'	29:D1:3111:U:H5'	2.50	0.41
29:D1:3322:A:C4	29:D1:3323:A:C8	3.09	0.41
29:D1:722:G:N7	74:D1:3551:OHX:N4	2.68	0.41
29:D1:500:C:H2'	29:D1:501:A:H5'	2.02	0.41
29:D1:524:U:HO2'	29:D1:525:C:H5'	1.83	0.41
29:D1:582:G:C6	29:D1:583:G:C8	3.08	0.41
29:D1:78:U:H3	29:D1:325:A:N6	2.12	0.41
29:D1:809:G:H2'	29:D1:809:G:N3	2.36	0.41
29:D1:866:A:C8	29:D1:867:G:N7	2.86	0.41
29:D1:887:G:C5	29:D1:888:A:N7	2.89	0.41
31:D3:106:C:C1'	31:D3:138:A:C8	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D3:71:A:C2	31:D3:72:A:H2	2.38	0.41
35:DD:53:SER:O	35:DD:54:GLU:C	2.58	0.41
1:A1:221:A:N7	1:A1:832:U:C4	2.88	0.41
1:A1:737:A:C2	1:A1:738:G:C6	3.09	0.41
1:A1:823:G:O2'	1:A1:824:G:P	2.79	0.41
29:B1:1054:A:H5''	29:B1:2637:A:N6	2.36	0.41
29:B1:2640:A:C5	29:B1:2641:U:O4	2.74	0.41
29:B1:2706:G:C6	29:B1:2707:C:N4	2.88	0.41
31:B3:54:A:N1	31:B3:55:U:C2	2.88	0.41
1:A1:172:C:C2	1:A1:173:A:C8	3.09	0.41
1:A1:194:U:C4'	1:A1:195:G:O5'	2.60	0.41
30:D2:104:A:C5	30:D2:105:C:C6	3.07	0.41
30:D2:64:A:C2	74:D2:205:OHX:N4	2.88	0.41
1:A1:243:G:N2	1:A1:251:A:C4	2.88	0.41
1:A1:214:G:N1	1:A1:249:U:H4'	2.35	0.41
1:A1:250:C:O2'	1:A1:251:A:O4'	2.37	0.41
1:C1:1252:C:H2'	1:C1:1253:U:O5'	2.20	0.41
1:C1:1365:C:H3'	1:C1:1365:C:C6	2.56	0.41
1:C1:1383:G:C6	1:C1:1384:A:C6	3.08	0.41
1:C1:1428:G:C2	1:C1:1429:G:C8	3.08	0.41
1:C1:1481:C:H5	1:C1:1482:C:O2	2.04	0.41
1:C1:1482:C:O2'	1:C1:1483:A:P	2.78	0.41
1:C1:1540:G:H2'	1:C1:1541:G:H5'	1.98	0.41
1:C1:1585:U:C2'	1:C1:1586:A:H5'	2.51	0.41
11:CJ:133:GLY:O	11:CJ:134:ALA:HB3	2.19	0.41
1:A1:1190:C:N3	1:A1:1194:A:C2	2.89	0.41
1:A1:1207:C:O2	1:A1:1455:G:C2	2.73	0.41
1:A1:1248:C:O2'	1:A1:1249:U:H5'	2.21	0.41
1:A1:1556:A:C2	1:A1:1560:U:H1'	2.56	0.41
29:B1:384:A:N7	29:B1:385:A:N7	2.69	0.41
29:B1:3209:A:C5	29:B1:3210:A:N6	2.89	0.41
29:B1:3278:C:C2	29:B1:3279:A:N7	2.88	0.41
30:D2:26:C:HO2'	30:D2:27:A:C4'	2.33	0.41
30:B2:43:U:N3	30:B2:44:C:C6	2.88	0.41
29:D1:3235:C:C2'	29:D1:3236:U:O5'	2.68	0.41
29:D1:1390:A:N6	29:D1:1418:A:O2'	2.54	0.41
29:D1:232:G:H2'	29:D1:233:C:O4'	2.20	0.41
29:D1:234:G:H2'	29:D1:234:G:N3	2.35	0.41
29:B1:1246:G:H1'	29:B1:1264:G:C8	2.56	0.41
29:B1:1246:G:N1	29:B1:1265:U:C5	2.89	0.41
29:D1:3219:G:C5	29:D1:3257:C:C3'	3.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3221:C:C4	29:D1:3222:U:C5	3.06	0.41
29:D1:3222:U:H2'	29:D1:3223:A:O4'	2.21	0.41
29:B1:2769:A:C6	29:B1:2770:G:N7	2.88	0.41
29:D1:1237:G:H8	29:D1:1237:G:P	2.44	0.41
29:B1:2173:U:C6	29:B1:2174:G:N7	2.88	0.41
1:C1:1310:U:H2'	1:C1:1311:U:C6	2.54	0.41
29:B1:1812:G:N2	29:B1:1813:A:N3	2.60	0.41
29:D1:2102:U:O2'	29:D1:2103:U:H5'	2.21	0.41
29:D1:1689:U:O2'	29:D1:1690:C:H5'	2.21	0.41
36:DE:114:GLY:N	36:DE:117:GLU:H	2.19	0.41
30:D2:90:U:C5	30:D2:91:G:N7	2.89	0.41
29:D1:2172:A:H1'	33:DB:10:LYS:C	2.40	0.41
1:C1:487:G:O2'	1:C1:488:G:H8	2.03	0.41
36:DE:262:LYS:O	36:DE:264:GLN:N	2.49	0.41
29:D1:1921:A:C1'	29:D1:1932:A:N6	2.84	0.41
29:B1:1337:A:N3	29:B1:1338:C:C6	2.88	0.41
29:B1:274:G:C5	29:B1:275:U:C5	3.08	0.41
36:BE:157:ALA:O	36:BE:158:ARG:C	2.58	0.41
34:BC:305:ILE:C	34:BC:307:PRO:N	2.73	0.41
29:B1:1704:A:N6	29:B1:1739:U:H3	2.18	0.41
29:D1:1023:C:O5'	29:D1:1024:G:H5''	2.20	0.41
5:CD:107:LYS:O	5:CD:108:LEU:O	2.39	0.41
42:BK:87:LYS:O	42:BK:88:GLU:C	2.59	0.41
34:BC:108:GLU:O	34:BC:109:HIS:O	2.39	0.41
29:B1:1185:C:H6	29:B1:1185:C:O5'	2.04	0.41
29:B1:1750:A:C2'	29:B1:1751:G:OP1	2.69	0.41
29:B1:1804:A:C6	29:B1:1805:C:C4	3.08	0.41
1:C1:721:U:H4'	1:C1:722:G:OP1	2.21	0.41
29:B1:601:U:C2	29:B1:602:A:H8	2.39	0.41
42:DK:7:ASN:CA	42:DK:8:PRO:CB	2.96	0.41
29:D1:2792:A:O5'	29:D1:2792:A:C8	2.58	0.41
46:DQ:46:LYS:O	46:DQ:50:GLN:N	2.50	0.41
1:C1:733:A:H5''	1:C1:734:A:H8	1.85	0.41
29:D1:1051:U:C2'	29:D1:1051:U:O2	2.63	0.41
29:B1:1925:U:C5	29:B1:2320:A:H1'	2.56	0.41
9:AH:88:GLY:HA2	9:AH:89:THR:HA	1.63	0.41
32:DA:153:SER:O	32:DA:154:THR:O	2.37	0.41
1:A1:926:A:C5	1:A1:927:C:C5	3.09	0.41
4:AC:174:HIS:O	4:AC:175:VAL:CB	2.68	0.41
46:BQ:51:VAL:CB	46:BQ:57:ALA:HA	2.51	0.41
29:D1:1281:G:C2	29:D1:1282:G:N7	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DV:5:ILE:O	51:DV:11:ALA:O	2.39	0.41
1:A1:577:G:OP1	1:A1:577:G:H3'	2.21	0.41
29:B1:440:A:H5'	29:B1:441:U:H5'	2.02	0.41
3:CB:68:ILE:O	3:CB:69:ILE:C	2.59	0.41
29:B1:1410:U:C6	29:B1:1410:U:H3'	2.55	0.41
34:DC:272:TYR:O	34:DC:273:HIS:O	2.39	0.41
15:CN:49:ASN:O	15:CN:50:LEU:O	2.39	0.41
41:DJ:212:GLU:O	41:DJ:214:PRO:N	2.53	0.41
35:BD:169:LEU:O	35:BD:174:ALA:HB3	2.20	0.41
48:BS:121:HIS:O	48:BS:123:LEU:N	2.53	0.41
40:DI:51:GLN:CB	40:DI:52:LEU:CA	2.99	0.41
1:A1:413:U:N3	1:A1:421:A:C2	2.88	0.41
8:AG:150:VAL:O	8:AG:151:ASN:O	2.39	0.41
1:A1:1742:U:C4	1:A1:1743:U:C5	3.09	0.41
29:B1:2759:U:H5''	29:B1:2760:C:OP1	2.21	0.41
52:BW:81:ILE:CA	52:BW:124:VAL:O	2.69	0.41
34:BC:342:LEU:O	34:BC:343:TYR:CB	2.69	0.41
3:AB:45:VAL:O	3:AB:46:LYS:CB	2.68	0.41
49:BT:48:ILE:O	49:BT:49:GLN:CB	2.69	0.41
8:AG:42:ARG:O	8:AG:45:LEU:N	2.54	0.41
34:BC:231:HIS:O	34:BC:232:ARG:C	2.58	0.41
1:A1:1087:A:C5	1:A1:1088:A:C5	3.08	0.41
1:A1:1101:G:H2'	1:A1:1102:G:O5'	2.21	0.41
1:A1:1146:G:C6	1:A1:1147:A:C6	3.09	0.41
1:A1:1297:G:C8	1:A1:1297:G:C3'	3.03	0.41
1:A1:12:U:C2	1:A1:1143:A:C2	3.09	0.41
1:A1:1297:G:N2	1:A1:1301:U:C6	2.88	0.41
1:A1:13:C:C4	1:A1:14:C:C5	3.09	0.41
1:A1:1642:G:H1'	1:A1:1782:A:O2'	2.20	0.41
1:A1:1763:A:C3'	1:A1:1764:C:C5'	2.88	0.41
1:A1:1763:A:H3'	1:A1:1764:C:C5'	2.43	0.41
1:A1:1780:G:C5	1:A1:1781:A:C5	3.09	0.41
1:A1:103:A:N7	1:A1:360:A:C6	2.89	0.41
1:A1:469:C:N3	1:A1:469:C:P	2.93	0.41
1:A1:51:A:C6	1:A1:52:U:C2	3.09	0.41
1:A1:519:C:H2'	1:A1:520:A:O5'	2.21	0.41
1:A1:536:C:C4	1:A1:537:G:N7	2.89	0.41
1:A1:813:U:O2'	1:A1:814:A:OP1	2.38	0.41
1:A1:859:A:C4'	1:A1:860:U:OP2	2.67	0.41
29:B1:107:A:C2	29:B1:108:A:C2	3.08	0.41
29:B1:1289:G:C2	29:B1:1290:A:C8	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1330:A:C8	29:B1:1330:A:C3'	3.04	0.41
29:B1:1428:A:C5	29:B1:1430:U:C5	3.09	0.41
29:B1:1532:C:C2'	29:B1:1533:U:C6	2.92	0.41
29:B1:1554:U:H4'	29:B1:1580:A:N6	2.36	0.41
29:B1:1604:G:C8	29:B1:1605:A:H5''	2.47	0.41
29:B1:1906:G:H21	29:B1:1909:A:H61	1.67	0.41
29:B1:18:G:C2	29:B1:19:U:O2	2.74	0.41
29:B1:2143:A:C5	29:B1:2145:A:C5	3.08	0.41
29:B1:21:G:H2'	29:B1:21:G:N3	2.36	0.41
29:B1:20:A:C4'	29:B1:21:G:OP1	2.68	0.41
29:B1:2262:A:H5''	29:B1:2263:C:OP2	2.21	0.41
29:B1:2309:A:OP1	29:B1:2309:A:H8	2.03	0.41
29:B1:1895:A:N6	29:B1:2341:A:N6	2.69	0.41
29:B1:263:C:P	29:B1:264:G:OP2	2.78	0.41
29:B1:2717:U:H5'	29:B1:2717:U:C6	2.55	0.41
29:B1:2856:G:C6	29:B1:2857:C:N4	2.89	0.41
29:B1:3057:U:O2'	29:B1:3059:G:O5'	2.38	0.41
29:B1:3090:U:C4'	29:B1:3090:U:OP1	2.63	0.41
29:B1:3099:C:H2'	29:B1:3100:U:C5	2.56	0.41
29:B1:3296:A:N3	29:B1:3297:U:C1'	2.84	0.41
29:B1:3305:A:H1'	29:B1:3311:C:C2	2.55	0.41
29:B1:2389:C:OP2	74:B1:3527:OHX:N5	2.53	0.41
29:B1:1199:C:N1	74:B1:3587:OHX:N6	2.68	0.41
29:B1:370:U:O2	29:B1:403:C:C4	2.73	0.41
29:B1:401:U:O4'	29:B1:401:U:O2	2.39	0.41
29:B1:571:U:H2'	29:B1:572:A:H5'	2.00	0.41
29:B1:649:A:H2'	29:B1:649:A:N3	2.36	0.41
29:B1:723:U:H2'	29:B1:724:U:O5'	2.19	0.41
29:B1:89:A:O5'	29:B1:89:A:H8	2.04	0.41
29:B1:913:A:H2'	29:B1:914:A:OP2	2.20	0.41
1:C1:1112:G:C8	1:C1:1113:A:C8	3.08	0.41
1:C1:1132:A:H2'	1:C1:1133:A:H8	1.86	0.41
1:C1:152:U:C2	1:C1:163:G:N2	2.89	0.41
1:C1:194:U:C4'	1:C1:195:G:O5'	2.62	0.41
1:C1:204:G:C2	1:C1:205:U:C2	3.09	0.41
1:C1:265:A:C8	1:C1:290:G:N2	2.89	0.41
1:C1:445:A:C5	1:C1:526:A:N6	2.88	0.41
1:C1:63:G:C5	1:C1:64:U:C6	3.08	0.41
1:C1:756:A:H62	1:C1:757:A:N6	2.18	0.41
1:C1:859:A:C4'	1:C1:860:U:OP2	2.68	0.41
1:C1:98:U:O4	74:C1:1999:OHX:N3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:113:C:C2	29:D1:319:A:C2	3.09	0.41
29:D1:1168:U:C2	29:D1:1332:A:H2	2.36	0.41
29:D1:1207:G:H5'	29:D1:1207:G:C8	2.56	0.41
29:D1:1338:C:O2	29:D1:1339:C:C6	2.73	0.41
29:D1:1543:G:C2	29:D1:1544:G:N7	2.88	0.41
29:D1:158:G:H3'	29:D1:158:G:H8	1.85	0.41
29:D1:1610:G:C6	29:D1:1611:G:C5	3.09	0.41
29:D1:1799:A:N1	29:D1:1800:A:C6	2.88	0.41
29:D1:2412:G:C4	29:D1:2413:A:C8	3.08	0.41
29:D1:2610:G:C2	29:D1:2611:U:C2	3.08	0.41
29:D1:2614:G:N2	29:D1:2797:C:O4'	2.53	0.41
29:D1:2639:G:N3	29:D1:2639:G:H2'	2.36	0.41
29:D1:2762:A:C6	29:D1:2800:G:C8	3.09	0.41
29:D1:2912:G:H2'	29:D1:2913:C:C5'	2.51	0.41
29:D1:293:C:C4	29:D1:294:U:C2	3.09	0.41
29:D1:3157:U:N3	29:D1:3293:U:N1	2.67	0.41
29:D1:3344:A:C5	29:D1:3361:G:O6	2.73	0.41
29:D1:339:C:C2'	29:D1:340:C:C5'	2.98	0.41
29:D1:36:C:C5	29:D1:37:U:C6	3.08	0.41
29:D1:414:U:C2	29:D1:415:G:C8	3.08	0.41
29:D1:41:G:C8	29:D1:42:C:H5	2.33	0.41
29:D1:529:A:N6	29:D1:564:G:C5	2.89	0.41
29:D1:642:U:C6	29:D1:642:U:H3'	2.56	0.41
29:D1:743:C:C2'	29:D1:744:A:C5'	2.80	0.41
29:D1:767:U:C3'	29:D1:768:C:H4'	2.51	0.41
29:D1:955:U:C4	29:D1:967:A:C6	3.08	0.41
31:D3:74:U:HO2'	31:D3:89:A:C1'	2.34	0.41
29:D1:3044:G:H4'	34:DC:12:GLY:HA2	2.03	0.41
1:C1:827:C:O2'	1:C1:828:U:O4'	2.33	0.41
1:C1:837:G:C6	1:C1:838:G:C5	3.08	0.41
1:A1:647:G:C2	1:A1:648:G:N1	2.87	0.41
1:C1:809:A:N1	1:C1:810:G:C6	2.89	0.41
29:B1:2649:A:N1	29:B1:2650:U:C5	2.88	0.41
29:B1:2707:C:O2'	29:B1:2708:C:C6	2.70	0.41
29:B1:2708:C:C2'	29:B1:2709:C:O5'	2.68	0.41
30:B2:75:G:H5''	30:B2:76:A:OP2	2.21	0.41
31:B3:64:U:C4	31:B3:97:A:N1	2.89	0.41
31:B3:74:U:HO2'	31:B3:89:A:C1'	2.34	0.41
1:A1:143:G:H5''	1:A1:144:U:OP2	2.20	0.41
1:A1:144:U:C4	1:A1:145:A:C8	3.08	0.41
1:A1:198:A:C1'	1:A1:199:G:OP1	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:210:A:C6	1:A1:256:A:C6	3.08	0.41
1:A1:80:A:C2	1:A1:81:G:C5	3.08	0.41
1:A1:88:U:H2'	1:A1:89:G:H5'	2.03	0.41
30:D2:71:G:O2'	30:D2:72:A:H5'	2.19	0.41
1:C1:1714:A:N1	1:C1:1715:G:N2	2.69	0.41
1:C1:1720:G:N7	1:C1:1721:A:N7	2.68	0.41
1:C1:335:U:C5	1:C1:336:G:C6	3.08	0.41
1:C1:795:U:C5	1:C1:796:A:C4	3.08	0.41
29:B1:2674:A:N1	29:B1:2676:A:N7	2.69	0.41
29:B1:2675:C:H5	29:B1:2676:A:C5	2.37	0.41
45:DP:124:LEU:CB	45:DP:127:LEU:N	2.84	0.41
1:A1:111:U:O4	1:A1:112:A:N6	2.53	0.41
1:A1:1679:G:O6	1:A1:1724:U:O2	2.38	0.41
1:A1:328:A:C2	1:A1:329:G:C5	3.08	0.41
1:A1:332:U:H2'	1:A1:332:U:O2	2.20	0.41
1:C1:1242:A:O3'	1:C1:1243:G:O4'	2.39	0.41
1:C1:1274:C:C5	1:C1:1427:A:N7	2.86	0.41
1:C1:1494:C:C2'	1:C1:1495:C:O5'	2.69	0.41
1:A1:1348:A:N3	1:A1:1379:C:C6	2.88	0.41
1:A1:1486:G:H21	1:A1:1592:A:H5''	1.85	0.41
1:A1:1587:A:C4	1:A1:1588:G:C8	3.09	0.41
1:A1:1598:U:H2'	1:A1:1599:C:O5'	2.20	0.41
3:AB:91:ARG:O	3:AB:92:ALA:HB3	2.20	0.41
29:D1:436:A:H2'	29:D1:437:G:O4'	2.20	0.41
21:CT:288:HIS:O	21:CT:289:ALA:C	2.58	0.41
15:AN:21:LYS:O	15:AN:95:ALA:HA	2.21	0.41
29:B1:3244:A:O2'	29:B1:3245:A:P	2.78	0.41
29:D1:190:U:C6	29:D1:224:C:C1'	3.03	0.41
29:D1:192:C:H2'	29:D1:193:C:H6	1.85	0.41
29:B1:1246:G:O6	29:B1:1266:G:O6	2.38	0.41
29:D1:3276:G:C2'	29:D1:3277:U:O4'	2.68	0.41
30:D2:46:A:O3'	36:DE:157:ALA:HB1	2.20	0.41
29:D1:2523:A:H1'	29:D1:2524:A:P	2.61	0.41
29:D1:71:A:C2'	29:D1:72:C:OP2	2.68	0.41
29:B1:2213:A:C6	29:B1:2214:A:N6	2.89	0.41
29:D1:3353:G:C6	29:D1:3356:G:C6	3.09	0.41
29:D1:1093:A:O2'	29:D1:1095:U:H1'	2.20	0.41
29:B1:340:C:O2'	29:B1:344:A:N3	2.45	0.41
29:D1:1625:A:H3'	29:D1:1626:U:O4'	2.20	0.41
29:D1:1626:U:C2'	29:D1:1627:U:O4'	2.69	0.41
29:B1:1063:G:O2'	29:B1:1064:A:O5'	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1074:U:H4'	29:B1:1075:A:OP2	2.19	0.41
29:D1:3141:A:H5'	29:D1:3143:C:C1'	2.51	0.41
29:D1:3139:A:O2'	29:D1:3140:G:C4'	2.69	0.41
1:A1:1750:A:N7	1:A1:1751:C:C5	2.88	0.41
29:B1:1629:U:C5	29:B1:1630:U:C6	3.09	0.41
29:D1:2099:A:H2	29:D1:2100:A:N7	2.19	0.41
1:A1:1308:G:C4	1:A1:1309:C:C6	3.09	0.41
1:A1:1342:C:O2'	1:A1:1343:U:H5'	2.21	0.41
29:B1:3274:A:O2'	29:B1:3275:U:H3'	2.20	0.41
1:A1:1124:A:H2'	1:A1:1125:A:O4'	2.20	0.41
29:B1:822:G:C4	29:B1:823:C:C5	3.08	0.41
29:D1:2172:A:O2'	33:DB:10:LYS:O	2.25	0.41
1:C1:913:G:H1'	1:C1:914:G:OP1	2.19	0.41
29:B1:2880:U:O5'	29:B1:2880:U:H6	2.04	0.41
30:D2:1:G:N3	30:D2:2:G:C8	2.89	0.41
1:C1:1280:C:C2	1:C1:1281:G:N7	2.88	0.41
1:C1:1285:U:C2	1:C1:1286:U:C5	3.09	0.41
29:D1:5:G:N2	31:D3:155:A:H1'	2.33	0.41
1:A1:312:A:C6	1:A1:315:A:N7	2.89	0.41
29:B1:1033:U:O2	29:B1:1033:U:H2'	2.21	0.41
1:C1:1297:G:C2	1:C1:1301:U:C2	3.09	0.41
29:D1:275:U:C2'	29:D1:276:U:H5'	2.49	0.41
42:BK:89:TYR:O	42:BK:168:ASP:CB	2.69	0.41
29:B1:1357:G:N3	29:B1:1358:C:C6	2.88	0.41
8:CG:143:SER:O	8:CG:146:ALA:CA	2.69	0.41
29:B1:1539:A:C3'	29:B1:1540:U:H5'	2.51	0.41
29:B1:1542:G:C2	29:B1:1543:G:C4	3.09	0.41
47:BR:48:VAL:HA	47:BR:51:ALA:HB3	2.03	0.41
34:DC:67:PHE:O	34:DC:68:HIS:O	2.39	0.41
13:CL:70:VAL:HA	13:CL:74:GLN:CB	2.51	0.41
34:BC:189:SER:C	34:BC:191:LYS:N	2.68	0.41
29:B1:296:A:C6	29:B1:297:G:N2	2.89	0.41
29:B1:1471:U:C2	29:B1:1472:U:C6	3.08	0.41
29:D1:2158:A:C8	29:D1:2177:G:C2	3.09	0.41
29:D1:1707:A:C6	29:D1:1708:C:C4	3.09	0.41
29:B1:733:G:C2	29:B1:736:A:N1	2.87	0.41
46:DQ:127:ARG:CB	46:DQ:139:TYR:O	2.68	0.41
34:BC:261:MET:CA	34:BC:263:SER:O	2.69	0.41
29:D1:666:A:C6	29:D1:667:C:C4	3.08	0.41
14:AM:27:LYS:C	14:AM:29:GLU:N	2.74	0.41
45:BP:14:HIS:HA	45:BP:123:ALA:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DT:15:PHE:O	49:DT:16:GLN:O	2.37	0.41
1:A1:1623:C:C2'	1:A1:1623:C:O2	2.68	0.41
1:C1:1501:C:C2'	1:C1:1502:G:C5'	2.94	0.41
49:DT:77:ASN:CA	49:DT:87:LYS:O	2.66	0.41
1:A1:1287:A:N3	1:A1:1288:G:C1'	2.81	0.41
46:BQ:51:VAL:O	46:BQ:52:LEU:CB	2.68	0.41
6:AE:100:LYS:O	6:AE:101:VAL:C	2.58	0.41
35:BD:29:PRO:O	35:BD:124:SER:HA	2.21	0.41
13:CL:46:VAL:C	13:CL:48:LYS:N	2.72	0.41
3:CB:106:ASP:C	3:CB:108:ASN:N	2.74	0.41
29:D1:2724:U:O4	74:D1:3465:OHX:N1	2.54	0.41
29:D1:2723:U:O4	74:D1:3585:OHX:N5	2.53	0.41
21:AT:267:PRO:C	21:AT:269:TYR:N	2.73	0.41
29:B1:1325:U:O4	29:B1:1326:A:N6	2.54	0.41
49:BT:58:GLN:C	49:BT:60:LYS:H	2.24	0.41
38:DG:43:ILE:O	38:DG:45:LEU:N	2.53	0.41
44:BO:114:ARG:O	44:BO:134:LEU:O	2.39	0.41
55:DZ:88:GLY:O	55:DZ:89:VAL:CB	2.68	0.41
21:AT:140:CYS:O	21:AT:141:LEU:C	2.59	0.41
12:AK:67:ARG:O	12:AK:68:GLY:C	2.58	0.41
48:BS:12:ALA:HB2	48:BS:19:LYS:HA	2.01	0.41
29:D1:3156:U:O2	29:D1:3156:U:C2'	2.68	0.41
40:BI:109:ALA:O	40:BI:110:LYS:O	2.38	0.41
7:CF:120:GLY:O	7:CF:121:ASP:O	2.39	0.41
5:CD:44:ASN:O	5:CD:45:LYS:CB	2.68	0.41
47:DR:62:VAL:O	47:DR:87:VAL:HA	2.21	0.41
21:AT:167:VAL:O	21:AT:182:ASN:HA	2.20	0.41
1:A1:1139:A:OP2	74:A1:1976:OHX:N5	2.54	0.41
1:A1:1631:A:N6	1:A1:1632:C:O2	2.53	0.41
1:A1:1793:G:C2	1:A1:1794:A:H1'	2.55	0.41
1:A1:16:G:O2'	1:A1:17:C:O4'	2.37	0.41
1:A1:24:U:H6	1:A1:24:U:O5'	2.03	0.41
1:A1:28:A:C4	1:A1:29:U:C5	3.08	0.41
1:A1:425:A:C2'	1:A1:426:G:OP2	2.68	0.41
1:A1:518:A:H8	1:A1:519:C:H5'	1.85	0.41
1:A1:612:U:OP1	1:A1:1100:G:N2	2.53	0.41
1:A1:857:U:H3'	1:A1:857:U:C6	2.56	0.41
29:B1:1150:A:H3'	29:B1:1151:U:C6	2.56	0.41
29:B1:1225:A:C2	29:B1:1226:G:C1'	3.03	0.41
29:B1:947:G:C2	29:B1:1373:A:C2	3.09	0.41
29:B1:944:C:C5	29:B1:1431:G:O6	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1587:A:C4	29:B1:1590:G:C6	3.09	0.41
29:B1:1653:G:C2'	29:B1:1654:A:C5'	2.93	0.41
29:B1:1684:U:C5	29:B1:1685:C:N3	2.89	0.41
29:B1:2154:U:H4'	33:BB:239:ALA:CB	2.50	0.41
29:B1:2191:U:C4	29:B1:2192:C:C4	3.08	0.41
29:B1:2194:G:N9	29:B1:2274:U:O2	2.53	0.41
29:B1:2608:G:C2	29:B1:2609:A:C5	3.08	0.41
29:B1:2608:G:C4	29:B1:2609:A:C8	3.08	0.41
29:B1:280:U:O2	29:B1:282:G:O2'	2.30	0.41
29:B1:3126:C:H2'	29:B1:3127:A:O5'	2.21	0.41
29:B1:3152:U:O2'	29:B1:3153:U:C5	2.70	0.41
29:B1:60:A:C8	29:B1:327:A:N1	2.89	0.41
29:B1:3305:A:C5	29:B1:3306:U:C2	3.08	0.41
29:B1:377:A:C6	29:B1:400:G:C5	3.08	0.41
29:B1:37:U:O2	29:B1:38:U:C5	2.74	0.41
29:B1:506:U:C2	29:B1:507:U:C5	3.08	0.41
29:B1:517:G:P	29:B1:517:G:C8	3.08	0.41
29:B1:583:G:C2	29:B1:584:G:C8	3.09	0.41
29:B1:592:A:C1'	29:B1:593:C:C1'	2.98	0.41
29:B1:642:U:H2'	29:B1:644:G:N7	2.35	0.41
29:B1:648:C:C6	29:B1:2374:C:O2'	2.61	0.41
29:B1:728:G:C4	29:B1:742:G:O6	2.73	0.41
29:B1:80:G:C6	29:B1:81:C:C5	3.08	0.41
29:B1:825:U:OP2	29:B1:825:U:C6	2.74	0.41
29:B1:873:C:H4'	29:B1:1908:A:H5'	2.02	0.41
29:B1:894:G:H1'	29:B1:895:A:N7	2.35	0.41
29:B1:919:U:OP1	29:B1:922:U:OP2	2.39	0.41
29:B1:948:C:C2	29:B1:949:C:C5	3.08	0.41
31:B3:113:U:O2'	31:B3:114:G:OP1	2.35	0.41
31:B3:8:C:N1	31:B3:9:A:C8	2.89	0.41
35:BD:54:GLU:O	35:BD:56:ALA:N	2.46	0.41
37:BF:100:LYS:C	37:BF:102:ASN:H	2.23	0.41
33:BB:81:GLY:N	38:BG:65:ALA:HB2	171.58	0.41
38:BG:75:TYR:CB	38:BG:76:TYR:CB	2.98	0.41
1:C1:106:U:C5	1:C1:107:C:C4	3.08	0.41
1:C1:151:G:H4'	1:C1:151:G:OP1	2.20	0.41
1:C1:1645:G:N2	1:C1:1757:G:C4	2.89	0.41
1:C1:190:C:H5''	1:C1:191:C:O2	2.20	0.41
1:C1:210:A:N6	1:C1:256:A:N6	2.68	0.41
1:C1:281:G:H2'	1:C1:282:C:C6	2.56	0.41
1:C1:357:G:C8	1:C1:358:U:H5	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:386:G:O2'	1:C1:387:A:P	2.77	0.41
1:C1:428:A:C2	1:C1:440:U:O2	2.73	0.41
1:C1:443:C:H2'	1:C1:444:C:O4'	2.20	0.41
1:C1:47:A:H4'	1:C1:48:G:H5'	2.02	0.41
1:C1:518:A:C2'	1:C1:519:C:C5'	2.96	0.41
1:C1:534:A:H5''	1:C1:535:A:OP1	2.21	0.41
1:C1:55:A:C6	1:C1:403:G:N3	2.89	0.41
29:D1:1498:A:C6	29:D1:1519:G:C6	3.09	0.41
29:D1:1558:A:H5''	29:D1:1559:A:O5'	2.21	0.41
29:D1:1590:G:C4	29:D1:1591:G:C8	3.08	0.41
29:D1:20:A:HO2'	29:D1:21:G:P	2.42	0.41
29:D1:2113:A:N7	29:D1:2114:C:N3	2.68	0.41
29:D1:2196:C:N4	29:D1:2242:A:C8	2.87	0.41
29:D1:2255:A:H4'	29:D1:2256:A:OP1	2.08	0.41
29:D1:2291:A:N1	29:D1:2292:U:C2	2.88	0.41
29:D1:2704:A:C5	29:D1:2706:G:N7	2.89	0.41
29:D1:2743:A:H2'	29:D1:2744:U:C6	2.56	0.41
29:D1:2761:G:H22	29:D1:2795:U:C2'	2.31	0.41
29:D1:310:U:O2	29:D1:2780:A:C2	2.73	0.41
29:D1:958:C:C4'	29:D1:2799:A:O2'	2.69	0.41
29:D1:2918:G:N2	29:D1:2919:A:C5	2.89	0.41
29:D1:382:U:C4	29:D1:383:G:C4	3.09	0.41
29:D1:379:C:H42	29:D1:390:G:H1	1.68	0.41
29:D1:423:A:H8	29:D1:423:A:O5'	2.03	0.41
29:D1:507:U:C2	29:D1:508:U:C5	3.09	0.41
29:D1:515:C:O5'	29:D1:515:C:H6	2.03	0.41
29:D1:517:G:H2'	29:D1:518:G:C8	2.56	0.41
29:D1:527:A:C6	29:D1:566:G:C6	3.09	0.41
29:D1:571:U:O2	29:D1:571:U:C2'	2.68	0.41
29:D1:576:C:HO2'	29:D1:577:C:P	2.39	0.41
29:D1:583:G:C4	29:D1:584:G:C8	3.09	0.41
29:D1:720:A:OP2	29:D1:720:A:C8	2.74	0.41
29:D1:739:G:C2	29:D1:740:G:C5	3.09	0.41
29:D1:911:C:C2'	29:D1:912:G:H5'	2.44	0.41
29:D1:943:U:O2'	29:D1:944:C:OP1	2.39	0.41
31:D3:147:U:C2	31:D3:148:G:C8	3.09	0.41
31:D3:50:C:N4	31:D3:79:A:H61	2.19	0.41
38:DG:74:SER:CB	38:DG:75:TYR:O	2.68	0.41
1:A1:706:A:C5	1:A1:707:A:C5	3.09	0.41
1:A1:832:U:C3'	1:A1:833:U:C5'	2.97	0.41
1:C1:824:G:N3	1:C1:824:G:H2'	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:824:G:N2	1:C1:849:C:H42	2.18	0.41
1:A1:647:G:C6	1:A1:648:G:O6	2.74	0.41
29:B1:2696:A:N1	29:B1:2758:A:C5	2.89	0.41
30:B2:69:C:N3	30:B2:70:U:C4	2.89	0.41
30:B2:74:C:C5	30:B2:75:G:N7	2.89	0.41
30:B2:79:A:C5	30:B2:102:A:N7	2.88	0.41
31:B3:71:A:C2	31:B3:72:A:H2	2.38	0.41
31:B3:90:U:H2'	31:B3:91:C:H6	1.83	0.41
34:BC:41:VAL:CB	34:BC:186:GLY:N	2.84	0.41
1:A1:175:G:C8	74:A1:1915:OHX:N2	2.88	0.41
1:A1:195:G:C1'	1:A1:196:G:P	3.09	0.41
1:A1:287:G:O6	1:A1:288:A:N6	2.54	0.41
1:A1:265:A:C8	1:A1:290:G:N2	2.89	0.41
1:A1:81:G:N3	1:A1:81:G:H2'	2.36	0.41
1:A1:85:A:C4	1:A1:86:A:C8	3.09	0.41
5:AD:107:LYS:O	5:AD:108:LEU:O	2.39	0.41
30:D2:11:A:O2'	30:D2:68:C:C5'	2.68	0.41
30:D2:67:G:N1	30:D2:68:C:N1	2.69	0.41
30:D2:67:G:N3	30:D2:67:G:C2'	2.83	0.41
30:D2:69:C:C4	30:D2:70:U:C4	3.08	0.41
1:C1:1691:A:N6	1:C1:1713:G:C5	2.88	0.41
29:D1:2677:G:C2	29:D1:2678:A:H5'	2.55	0.41
1:A1:1682:U:N3	1:A1:1683:C:N4	2.69	0.41
1:A1:1687:U:C5	1:A1:1688:U:C2	3.08	0.41
1:A1:212:U:H2'	1:A1:213:A:H5'	2.02	0.41
1:A1:341:A:N3	1:A1:342:C:C6	2.88	0.41
1:C1:1257:U:O2'	1:C1:1258:U:H5''	2.20	0.41
1:C1:1348:A:C8	1:C1:1348:A:P	3.14	0.41
1:C1:1565:C:N3	1:C1:1566:U:C5	2.89	0.41
1:C1:1585:U:H6	1:C1:1585:U:O5'	2.03	0.41
1:C1:1566:U:H5''	13:CL:39:GLY:HA3	2.03	0.41
14:CM:65:ILE:C	14:CM:67:MET:N	2.73	0.41
1:A1:1231:U:O2'	1:A1:1232:U:P	2.79	0.41
1:A1:1521:G:N1	74:A1:1943:OHX:N6	2.67	0.41
1:A1:1515:A:H61	15:AN:17:GLN:CB	2.33	0.41
30:B2:93:C:C2	30:B2:94:C:C6	3.08	0.41
29:B1:3209:A:H5''	29:B1:3210:A:OP2	2.21	0.41
29:B1:3194:C:H3'	29:B1:3195:U:C5'	2.51	0.41
29:D1:370:U:OP1	74:D1:3625:OHX:N5	2.53	0.41
29:B1:1260:A:C2	29:B1:1278:A:C2	3.09	0.41
29:B1:2210:G:C5	29:B1:2211:U:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:2213:A:C6	29:B1:2214:A:C6	3.09	0.41
29:B1:2515:A:C6	29:B1:2593:A:C5	3.08	0.41
4:CC:96:LEU:C	4:CC:98:ALA:N	2.74	0.41
29:B1:2173:U:C2'	29:B1:2174:G:OP1	2.69	0.41
2:CA:13:ASP:H	2:CA:17:LEU:N	2.18	0.41
29:B1:1075:A:C8	29:B1:1076:C:C5	3.09	0.41
1:A1:884:A:H2'	1:A1:885:G:O4'	2.21	0.41
1:A1:1123:C:H5	1:A1:1124:A:C6	2.39	0.41
1:C1:916:U:C5	1:C1:917:U:N3	2.88	0.41
29:D1:2507:C:C2	29:D1:2508:U:C5	3.08	0.41
1:A1:1665:U:H1'	1:A1:1737:G:N2	2.36	0.41
1:A1:891:A:N6	1:A1:922:G:O6	2.53	0.41
29:D1:2581:U:P	29:D1:2581:U:C6	3.09	0.41
1:A1:1324:G:H2'	1:A1:1324:G:N3	2.35	0.41
29:D1:1353:U:O3'	29:D1:1353:U:OP1	2.39	0.41
29:B1:1351:U:C3'	29:B1:1352:A:C8	3.04	0.41
29:B1:1362:G:C2'	29:B1:1363:A:H5'	2.48	0.41
1:A1:760:A:H2'	1:A1:761:G:C5'	2.47	0.41
29:B1:1023:C:O5'	29:B1:1024:G:H5''	2.21	0.41
29:B1:1383:G:C2'	29:B1:1384:U:H5'	2.51	0.41
1:C1:1547:A:C6	1:C1:1548:G:C5	3.08	0.41
29:B1:853:G:C6	29:B1:854:G:C5	3.08	0.41
45:BP:58:LEU:HA	45:BP:61:ALA:CB	2.41	0.41
1:A1:807:A:H8	1:A1:807:A:C5'	2.32	0.41
29:D1:2663:G:N3	29:D1:2663:G:H2'	2.36	0.41
44:BO:158:HIS:C	44:BO:160:GLU:N	2.73	0.41
2:CA:144:ILE:O	2:CA:145:ALA:CB	2.69	0.41
47:BR:126:GLN:C	47:BR:128:ALA:H	2.17	0.41
29:D1:1005:G:C6	29:D1:1006:A:N7	2.88	0.41
1:C1:500:C:C2	1:C1:501:U:C5	3.09	0.41
1:C1:563:U:O4	1:C1:564:G:C6	2.73	0.41
1:C1:926:A:C2	9:CH:125:SER:HA	2.51	0.41
45:DP:97:ALA:O	45:DP:99:LEU:N	2.54	0.41
2:CA:86:VAL:O	2:CA:87:LEU:C	2.59	0.41
42:BK:64:LYS:O	42:BK:65:ILE:CB	2.69	0.41
44:BO:15:GLN:O	44:BO:20:ARG:N	2.53	0.41
41:BJ:147:VAL:O	41:BJ:148:VAL:C	2.58	0.41
45:DP:45:GLY:HA2	45:DP:134:LYS:CB	2.50	0.41
52:DW:87:SER:O	52:DW:88:MET:C	2.58	0.41
4:AC:104:SER:O	4:AC:105:MET:C	2.58	0.41
53:BX:78:PHE:O	53:BX:79:ALA:CB	2.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DI:117:PHE:C	40:DI:119:GLY:N	2.73	0.41
1:C1:1422:A:C2'	1:C1:1423:U:H5'	2.51	0.41
29:B1:1760:A:H2'	29:B1:1761:C:H5'	2.02	0.41
36:BE:217:GLU:HA	36:BE:220:SER:CB	2.50	0.41
21:CT:218:GLY:C	21:CT:236:ALA:HB3	2.41	0.41
49:DT:101:CYS:C	49:DT:103:GLN:H	2.24	0.41
29:D1:1575:A:N6	29:D1:1576:G:C6	2.89	0.41
1:C1:1545:A:O2'	1:C1:1546:G:H5'	2.20	0.41
29:B1:242:C:C2'	29:B1:243:G:O5'	2.68	0.41
34:BC:236:LYS:O	34:BC:237:LYS:C	2.59	0.41
48:DS:144:GLN:O	48:DS:145:ALA:C	2.58	0.41
21:AT:296:ALA:C	21:AT:298:GLY:H	2.24	0.41
53:DX:23:PRO:O	53:DX:24:SER:C	2.57	0.41
48:BS:133:LYS:O	48:BS:134:HIS:CB	2.69	0.41
39:DH:158:ASP:HA	39:DH:159:PRO:HA	1.88	0.41
53:DX:100:HIS:O	53:DX:102:SER:N	2.54	0.41
31:D3:134:G:O2'	31:D3:135:G:H5'	2.21	0.41
5:AD:122:ASN:O	5:AD:123:VAL:C	2.59	0.41
21:CT:111:MET:O	21:CT:112:SER:CB	2.69	0.41
34:BC:218:ILE:HA	34:BC:276:THR:HA	2.03	0.41
21:CT:302:PHE:O	21:CT:303:ALA:HB2	2.20	0.41
1:A1:1047:G:C4	1:A1:1048:G:C8	3.08	0.41
1:A1:1054:U:C2	1:A1:1055:U:C5	3.09	0.41
1:A1:1139:A:C2'	1:A1:1140:G:C5'	2.97	0.41
1:A1:15:U:H2'	1:A1:16:G:H5'	2.02	0.41
1:A1:1766:A:H5''	74:A1:1931:OHX:N6	2.36	0.41
1:A1:401:A:N3	1:A1:404:G:N7	2.69	0.41
1:A1:428:A:O3'	1:A1:439:U:H2'	2.20	0.41
1:A1:485:A:O2'	1:A1:486:G:C8	2.61	0.41
1:A1:531:C:H2'	1:A1:531:C:O2	2.20	0.41
1:A1:556:A:C5'	1:A1:558:U:OP2	2.60	0.41
1:A1:620:A:C5	1:A1:621:A:C2	3.09	0.41
29:B1:84:U:O2'	29:B1:101:G:O6	2.32	0.41
29:B1:1793:C:H3'	29:B1:1793:C:P	2.59	0.41
29:B1:1901:A:OP2	29:B1:1903:U:O4	2.39	0.41
29:B1:2193:U:H2'	29:B1:2193:U:H6	1.65	0.41
29:B1:219:A:C2	29:B1:1390:A:C2'	3.00	0.41
29:B1:2285:C:C6	29:B1:2285:C:H3'	2.56	0.41
29:B1:2299:A:C2'	29:B1:2300:G:O5'	2.68	0.41
29:B1:2610:G:C4	29:B1:2611:U:C5	3.08	0.41
29:B1:2815:G:H5''	29:B1:2816:G:P	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1302:A:C5	29:B1:2887:A:C6	3.09	0.41
29:B1:2914:G:H2'	29:B1:2915:U:C6	2.52	0.41
29:B1:2393:G:C2	29:B1:2982:A:C2	3.09	0.41
29:B1:3060:C:C2'	29:B1:3061:G:O5'	2.69	0.41
29:B1:3073:A:C5	29:B1:3074:G:C8	3.09	0.41
29:B1:323:A:H2'	29:B1:324:A:C8	2.56	0.41
29:B1:3392:U:O2	29:B1:3393:U:N3	2.54	0.41
29:B1:537:A:C1'	29:B1:558:U:O4	2.69	0.41
29:B1:588:G:C4'	29:B1:589:A:N7	2.68	0.41
29:B1:778:U:C2'	29:B1:779:G:H5'	2.49	0.41
29:B1:866:A:C8	29:B1:867:G:N7	2.85	0.41
31:B3:117:C:C2	31:B3:118:C:C5	3.09	0.41
35:BD:17:ALA:O	35:BD:18:ASN:CB	2.69	0.41
44:BO:55:ALA:O	44:BO:56:LYS:CB	2.68	0.41
1:C1:1149:G:O6	1:C1:1629:G:C2	2.73	0.41
1:C1:1631:A:N3	1:C1:1632:C:H1'	2.36	0.41
1:C1:371:G:C6	1:C1:372:G:C4	3.09	0.41
1:C1:371:G:O6	1:C1:372:G:N1	2.53	0.41
1:C1:400:A:C4'	1:C1:401:A:C5'	2.84	0.41
1:C1:453:U:H2'	1:C1:454:U:H5'	2.01	0.41
1:C1:452:A:H2	1:C1:454:U:O5'	2.04	0.41
1:C1:522:U:C6	1:C1:522:U:H3'	2.56	0.41
1:C1:51:A:N1	1:C1:52:U:C2	2.89	0.41
1:C1:55:A:N7	1:C1:426:G:C6	2.88	0.41
1:C1:589:C:C2	1:C1:590:C:C5	3.09	0.41
1:C1:869:A:H2'	1:C1:870:C:H6	1.86	0.41
1:C1:95:G:C6	1:C1:96:G:C5	3.09	0.41
3:CB:72:LEU:O	3:CB:74:PRO:N	2.54	0.41
29:D1:1220:U:O3'	29:D1:1221:A:C4'	2.58	0.41
29:D1:1226:G:C2	29:D1:1227:C:C6	3.09	0.41
29:D1:1428:A:C2	29:D1:1430:U:C6	3.08	0.41
29:D1:1442:U:C5'	29:D1:1442:U:H6	2.20	0.41
29:D1:1445:U:H3'	29:D1:1446:A:H8	1.85	0.41
29:D1:1457:U:O2	29:D1:1457:U:H2'	2.20	0.41
29:D1:1561:G:C5	29:D1:1562:C:C4	3.08	0.41
29:D1:1525:G:H2'	29:D1:1594:A:H2	1.85	0.41
29:D1:1601:U:O2	29:D1:1603:A:OP2	2.39	0.41
29:D1:1532:C:H4'	29:D1:1800:A:O4'	2.21	0.41
29:D1:2199:G:N1	29:D1:2200:U:C4	2.89	0.41
29:D1:2253:G:C3'	29:D1:2254:U:C6	2.98	0.41
29:D1:2256:A:O2'	29:D1:2257:C:OP1	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2249:G:N9	29:D1:2272:G:C8	2.89	0.41
29:D1:2414:G:H2'	29:D1:2415:C:O4'	2.21	0.41
29:D1:2608:G:C2	29:D1:2609:A:C5	3.08	0.41
29:D1:2698:G:C5	29:D1:2699:G:N7	2.88	0.41
29:D1:282:G:C4'	29:D1:283:G:OP2	2.67	0.41
29:D1:2997:G:C4'	29:D1:2998:U:OP2	2.68	0.41
29:D1:301:G:H2'	29:D1:302:U:C5'	2.50	0.41
29:D1:3040:A:H2'	29:D1:3041:U:H5'	2.02	0.41
29:D1:3086:A:C8	29:D1:3087:A:N7	2.88	0.41
29:D1:3096:C:C4	29:D1:3097:C:N4	2.89	0.41
29:D1:321:C:H2'	29:D1:322:U:O4'	2.20	0.41
29:D1:327:A:H5'	29:D1:327:A:C8	2.55	0.41
29:D1:3363:U:O5'	29:D1:3364:C:H5	2.04	0.41
29:D1:3388:C:C2'	29:D1:3389:U:C6	3.04	0.41
29:D1:344:A:C2	29:D1:345:G:N9	2.89	0.41
29:D1:383:G:O3'	29:D1:385:A:N7	2.54	0.41
29:D1:39:A:C2	29:D1:44:U:O4	2.73	0.41
29:D1:408:A:O2'	29:D1:409:A:H5'	2.21	0.41
29:D1:531:G:C2'	29:D1:532:A:C8	2.80	0.41
29:D1:597:G:C5	29:D1:598:A:C8	3.08	0.41
29:D1:613:G:O2'	29:D1:614:C:C5'	2.62	0.41
29:D1:880:G:C1'	29:D1:882:A:N7	2.84	0.41
29:D1:885:U:C2	29:D1:886:C:C5	3.08	0.41
29:D1:913:A:C8	29:D1:913:A:H5'	2.56	0.41
31:D3:123:G:H3'	31:D3:124:G:C5'	2.47	0.41
31:D3:140:G:N1	31:D3:141:C:N3	2.68	0.41
31:D3:152:G:H2'	31:D3:153:U:O4'	2.20	0.41
31:D3:24:G:O2'	31:D3:25:G:H5'	2.21	0.41
31:D3:50:C:O2'	31:D3:51:G:C5'	2.69	0.41
33:DB:181:LYS:O	33:DB:182:ALA:O	2.38	0.41
35:DD:32:PRO:O	35:DD:33:ASP:C	2.59	0.41
35:DD:76:ARG:O	35:DD:85:SER:O	2.39	0.41
45:DP:64:PHE:C	45:DP:66:LYS:N	2.69	0.41
31:D3:11:C:O2'	46:DQ:3:ARG:O	2.37	0.41
54:DY:15:VAL:C	54:DY:17:ALA:HA	2.41	0.41
1:A1:222:A:OP2	1:A1:833:U:C6	2.74	0.41
1:A1:838:G:C2	1:A1:839:U:N1	2.89	0.41
1:C1:223:U:N3	1:C1:839:U:C5	2.88	0.41
1:C1:747:C:C2	1:C1:748:U:C6	3.08	0.41
29:B1:2650:U:H1'	29:B1:2758:A:H2	1.83	0.41
1:A1:173:A:N6	1:A1:174:U:C5	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D2:12:U:C5	30:D2:70:U:OP1	2.73	0.41
1:C1:250:C:N3	1:C1:251:A:C6	2.88	0.41
1:C1:340:U:C3'	1:C1:341:A:C8	2.96	0.41
1:C1:1194:A:H2'	1:C1:1195:C:H5'	2.02	0.41
1:C1:1246:C:C6	1:C1:1247:U:C5	3.08	0.41
1:C1:1269:U:C2	1:C1:1432:U:O4'	2.73	0.41
1:C1:1267:G:N2	1:C1:1448:G:H5''	2.35	0.41
1:C1:1484:G:N2	1:C1:1485:C:C2	2.89	0.41
1:C1:1512:G:C4	1:C1:1513:G:C8	3.09	0.41
1:A1:1236:A:H3'	1:A1:1237:G:C8	2.51	0.41
1:A1:1363:U:N3	1:A1:1364:G:C5	2.89	0.41
1:A1:1269:U:C2	1:A1:1432:U:O4'	2.74	0.41
1:A1:1515:A:H3'	1:A1:1516:A:H5''	2.01	0.41
1:A1:1529:C:H2'	1:A1:1530:C:H6	1.85	0.41
29:D1:3212:C:C4	29:D1:3213:A:N1	2.89	0.41
1:C1:1054:U:C2	1:C1:1055:U:C5	3.09	0.41
29:D1:437:G:C5	29:D1:438:A:C6	3.08	0.41
37:BF:41:ILE:H	37:BF:85:ILE:C	2.19	0.41
1:C1:160:C:H4'	1:C1:161:U:OP1	2.20	0.41
29:D1:1393:A:H2	29:D1:1394:A:C1'	2.33	0.41
29:D1:206:G:C4	29:D1:207:U:C6	3.09	0.41
29:D1:216:G:N2	29:D1:225:C:C2	2.89	0.41
29:D1:370:U:OP1	74:D1:3625:OHX:N3	2.53	0.41
29:D1:210:U:N3	35:DD:162:THR:N	2.60	0.41
29:B1:1256:G:C6	29:B1:1257:C:N4	2.88	0.41
29:B1:1275:C:C4	29:B1:1276:U:N3	2.88	0.41
29:B1:1282:G:H2'	29:B1:1283:C:C5'	2.48	0.41
29:D1:3221:C:H2'	29:D1:3222:U:C5'	2.50	0.41
29:D1:3276:G:C3'	29:D1:3277:U:O4'	2.69	0.41
29:D1:3281:U:H2'	29:D1:3282:U:N1	2.35	0.41
29:B1:1618:G:N1	29:B1:1619:A:C2	2.89	0.41
15:CN:52:LYS:C	15:CN:54:GLY:H	2.23	0.41
29:D1:71:A:H5''	29:D1:73:C:C4	2.56	0.41
29:B1:3381:U:H2'	29:B1:3383:G:C8	2.55	0.41
29:D1:1245:A:C8	29:D1:1272:C:OP1	2.73	0.41
29:D1:1254:C:N3	29:D1:1255:C:C5	2.89	0.41
29:D1:1279:C:O2'	29:D1:1280:C:P	2.78	0.41
1:A1:1281:G:C2'	1:A1:1282:U:H6	2.09	0.41
1:A1:1281:G:H4'	15:AN:75:GLY:CA	2.51	0.41
1:C1:1291:G:H21	1:C1:1324:G:H22	1.67	0.41
16:CO:57:ARG:C	16:CO:59:GLY:H	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:886:U:H5''	1:A1:887:A:OP2	2.21	0.41
36:DE:271:LYS:HA	36:DE:278:SER:CB	2.50	0.41
29:B1:1467:A:O2'	29:B1:1469:C:OP2	2.37	0.41
29:D1:2098:C:H2'	29:D1:2099:A:H8	1.78	0.41
29:D1:2102:U:O2'	29:D1:2103:U:C5'	2.68	0.41
29:D1:126:U:N1	29:D1:127:G:C8	2.89	0.41
1:A1:1339:C:O2'	1:A1:1340:U:C5'	2.61	0.41
38:BG:60:ARG:O	38:BG:61:ASN:C	2.59	0.41
29:B1:822:G:C2	29:B1:823:C:N1	2.89	0.41
21:AT:180:ALA:CB	21:AT:190:ALA:O	2.53	0.41
1:C1:486:G:O6	1:C1:487:G:C6	2.73	0.41
29:B1:137:G:N7	29:B1:138:U:C6	2.89	0.41
29:D1:1921:A:C5	29:D1:1932:A:C5	3.09	0.41
29:D1:2582:C:C6	29:D1:2582:C:OP2	2.70	0.41
29:B1:1736:G:N3	29:B1:1736:G:H2'	2.35	0.41
1:C1:1662:G:C2	1:C1:1663:G:N7	2.88	0.41
29:D1:835:G:O2'	29:D1:836:A:OP2	2.36	0.41
29:B1:3271:G:N3	29:B1:3271:G:H3'	2.35	0.41
29:B1:1383:G:N1	29:B1:1424:C:C4	2.89	0.41
1:C1:1277:G:O2'	1:C1:1278:G:H5'	2.21	0.41
29:D1:1704:A:N3	29:D1:1741:A:C5	2.88	0.41
54:DY:130:VAL:C	54:DY:132:LYS:N	2.74	0.41
48:BS:66:HIS:O	48:BS:67:ALA:C	2.58	0.41
5:AD:89:ILE:O	5:AD:91:GLU:N	2.53	0.41
29:D1:2964:G:N2	29:D1:2967:A:C8	2.88	0.41
29:B1:299:G:C5'	29:B1:299:G:H8	2.33	0.41
35:BD:189:ALA:O	35:BD:190:GLY:O	2.39	0.41
29:B1:170:G:C2	29:B1:171:G:H1'	2.55	0.41
1:A1:1085:G:N7	74:A1:1908:OHX:N2	2.69	0.41
29:D1:102:C:O4'	29:D1:103:G:OP1	2.38	0.41
41:DJ:85:PHE:O	41:DJ:86:HIS:CB	2.67	0.41
1:A1:1306:C:HO2'	1:A1:1307:U:H5	1.61	0.41
17:CP:69:ARG:O	17:CP:70:LYS:C	2.58	0.41
1:C1:665:U:H2'	1:C1:666:U:C4'	2.50	0.41
29:D1:1869:C:H2'	29:D1:1869:C:O2	2.21	0.41
45:DP:36:VAL:CB	45:DP:105:PHE:H	2.34	0.41
3:CB:243:TYR:O	3:CB:244:SER:C	2.58	0.41
3:CB:243:TYR:O	3:CB:245:ASP:N	2.54	0.41
3:CB:142:GLY:O	3:CB:143:TYR:CB	2.69	0.41
29:B1:2568:C:H2'	29:B1:2569:A:H4'	2.02	0.41
3:AB:59:HIS:CB	3:AB:61:LEU:O	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:238:A:OP1	74:D1:3577:OHX:N1	2.53	0.41
2:CA:65:ALA:C	2:CA:67:ILE:H	2.23	0.41
49:DT:58:GLN:C	49:DT:60:LYS:H	2.24	0.41
40:BI:48:VAL:C	40:BI:50:ASN:N	2.74	0.41
21:AT:268:GLN:O	21:AT:270:LEU:N	2.53	0.41
1:A1:908:U:H4'	1:A1:997:G:H4'	2.03	0.41
1:C1:1224:A:C2	1:C1:1225:U:N3	2.88	0.41
51:DV:7:SER:C	51:DV:9:SER:N	2.74	0.41
74:B1:3496:OHX:N2	74:B1:3585:OHX:N1	2.69	0.41
52:DW:61:LYS:CB	52:DW:62:VAL:CA	2.98	0.41
29:D1:2760:C:OP1	29:D1:2760:C:O4'	2.39	0.41
73:DM:5:ARG:O	73:DM:7:LYS:N	2.53	0.41
29:B1:1636:U:H3	29:B1:1710:C:C1'	2.33	0.41
52:DW:74:LYS:O	52:DW:75:LYS:C	2.57	0.41
41:DJ:24:ARG:O	41:DJ:25:ALA:CB	2.69	0.41
48:DS:134:HIS:O	48:DS:136:ARG:N	2.54	0.41
45:DP:178:VAL:C	45:DP:180:SER:H	2.24	0.41
41:BJ:28:ASP:O	41:BJ:29:SER:O	2.38	0.41
21:AT:6:VAL:O	21:AT:7:LEU:C	2.59	0.41
11:AJ:74:HIS:O	11:AJ:75:VAL:C	2.59	0.41
29:B1:1009:A:O3'	29:B1:1010:G:O4'	2.38	0.41
29:D1:179:C:H2'	29:D1:179:C:O2	2.20	0.41
4:CC:102:ALA:O	4:CC:106:LYS:CB	2.68	0.41
48:DS:66:HIS:C	48:DS:68:GLN:N	2.73	0.41
1:A1:1035:G:N1	1:A1:1101:G:C6	2.89	0.41
1:A1:1045:C:N4	1:A1:1075:C:N3	2.69	0.41
1:A1:1151:A:N3	1:A1:1152:A:C8	2.89	0.41
1:A1:1631:A:N3	1:A1:1632:C:C1'	2.84	0.41
1:A1:1729:C:O2	1:A1:1729:C:H2'	2.20	0.41
1:A1:1744:A:N6	1:A1:1745:G:N1	2.68	0.41
1:A1:405:C:C2	1:A1:406:U:C5	3.09	0.41
1:A1:492:A:C2	1:A1:494:U:H5''	2.56	0.41
1:A1:507:U:P	1:A1:540:G:O6	2.79	0.41
1:A1:607:G:N7	1:A1:613:G:N9	2.69	0.41
1:A1:852:C:H2'	1:A1:853:G:O4'	2.21	0.41
1:A1:867:G:H2'	1:A1:868:G:O4'	2.21	0.41
1:A1:986:G:O5'	1:A1:986:G:C8	2.74	0.41
29:B1:112:U:C2	29:B1:113:C:C6	3.09	0.41
29:B1:1194:G:O6	29:B1:1314:C:C2	2.73	0.41
29:B1:1310:G:C3'	29:B1:1310:G:C8	3.04	0.41
29:B1:1321:G:H5''	29:B1:1322:U:OP2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:1413:G:N1	29:B1:1414:G:C5	2.89	0.41
29:B1:158:G:H8	29:B1:158:G:H3'	1.86	0.41
29:B1:1591:G:H2'	29:B1:1592:G:H5'	2.02	0.41
29:B1:1599:G:H2'	29:B1:1600:U:O4'	2.21	0.41
29:B1:1664:G:C2	29:B1:1786:G:N3	2.89	0.41
29:B1:1898:G:N7	29:B1:1899:G:C5	2.88	0.41
29:B1:1905:G:H22	29:B1:1907:C:H5'	1.84	0.41
29:B1:216:G:C6	29:B1:217:U:N3	2.89	0.41
29:B1:2249:G:C8	29:B1:2272:G:C8	3.09	0.41
29:B1:2276:G:H2'	29:B1:2277:C:H5'	2.02	0.41
29:B1:2325:G:C4	29:B1:2326:A:C8	3.08	0.41
29:B1:1447:G:O2'	29:B1:2355:G:N1	2.52	0.41
29:B1:2945:G:H8	29:B1:2979:U:O2	2.03	0.41
29:B1:3006:A:C8	29:B1:3007:U:N1	2.89	0.41
29:B1:3048:A:C8	29:B1:3090:U:O4	2.73	0.41
29:B1:3294:A:N6	29:B1:3295:A:C6	2.88	0.41
29:B1:3322:A:C4	29:B1:3323:A:N7	2.88	0.41
29:B1:408:A:C2	29:B1:409:A:C4	3.08	0.41
29:B1:542:G:N3	29:B1:543:C:C5	2.89	0.41
29:B1:548:G:H3'	29:B1:548:G:OP2	2.21	0.41
29:B1:609:G:O4'	29:B1:610:G:OP1	2.39	0.41
29:B1:627:U:H2'	29:B1:628:A:H8	1.83	0.41
29:B1:642:U:H2'	29:B1:644:G:C8	2.56	0.41
29:B1:643:U:C4	29:B1:644:G:C4	3.09	0.41
29:B1:708:G:C6	29:B1:712:G:O6	2.74	0.41
29:B1:715:A:O2'	29:B1:716:A:O5'	2.38	0.41
29:B1:743:C:H5'	29:B1:743:C:H6	1.86	0.41
29:B1:784:A:C2'	29:B1:785:G:C8	2.87	0.41
29:B1:814:U:C2'	29:B1:815:G:O5'	2.69	0.41
29:B1:912:G:H21	29:B1:915:A:H62	1.69	0.41
29:B1:917:A:N1	29:B1:918:C:N3	2.69	0.41
29:B1:932:U:C4'	29:B1:933:A:C5'	2.98	0.41
33:BB:181:LYS:C	33:BB:182:ALA:O	2.58	0.41
35:BD:99:MET:C	35:BD:100:PHE:O	2.59	0.41
37:BF:21:THR:CA	37:BF:112:THR:N	2.78	0.41
1:A1:1043:A:H5''	1:A1:1044:U:OP2	2.21	0.41
1:A1:1760:G:O2'	1:A1:1781:A:N1	2.52	0.41
1:A1:1776:A:C2	1:A1:1786:G:C6	3.08	0.41
1:A1:295:A:N1	1:A1:296:U:O2	2.54	0.41
1:A1:41:A:OP1	1:A1:379:U:H1'	2.21	0.41
1:A1:50:C:H2'	1:A1:50:C:O2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:529:A:O4'	1:A1:529:A:OP2	2.39	0.41
1:A1:552:G:C6	1:A1:553:G:C6	3.09	0.41
29:B1:10:C:O2	29:B1:11:A:C1'	2.69	0.41
29:B1:1126:G:C2	29:B1:1133:A:C2	3.09	0.41
29:B1:1154:A:C3'	29:B1:1154:A:C8	3.03	0.41
29:B1:1299:U:H3'	29:B1:1300:G:H8	1.86	0.41
29:B1:1329:U:O2'	29:B1:1330:A:C5'	2.69	0.41
29:B1:1389:G:O2'	29:B1:1390:A:P	2.79	0.41
29:B1:1393:A:H2	29:B1:1394:A:O4'	2.03	0.41
29:B1:1780:G:O2'	29:B1:1781:C:C6	2.72	0.41
29:B1:1525:G:C8	29:B1:1829:G:C6	3.08	0.41
29:B1:1878:G:P	29:B1:1879:A:C2	3.14	0.41
29:B1:1894:U:H1'	29:B1:3054:U:H5''	2.02	0.41
29:B1:20:A:N1	31:B3:140:G:C6	2.89	0.41
29:B1:2224:A:N1	29:B1:2783:U:O2'	2.51	0.41
29:B1:2249:G:C8	29:B1:2250:G:C8	3.09	0.41
29:B1:2260:U:O2'	29:B1:2261:G:C8	2.71	0.41
29:B1:2308:C:C4	29:B1:2309:A:C6	3.09	0.41
29:B1:2355:G:C3'	29:B1:2355:G:C8	3.04	0.41
29:B1:645:A:C2	29:B1:2372:A:C4	3.08	0.41
29:B1:2613:U:O4'	29:B1:2613:U:O2	2.38	0.41
29:B1:2743:A:C3'	29:B1:2744:U:C6	3.00	0.41
29:B1:2750:U:C2	29:B1:2751:G:C8	3.09	0.41
29:B1:280:U:O2	29:B1:286:U:N1	2.51	0.41
29:B1:2812:C:C2	29:B1:2813:A:C8	3.09	0.41
29:B1:2828:G:C2'	29:B1:2829:U:O5'	2.68	0.41
29:B1:2864:A:C6	29:B1:2865:U:N3	2.89	0.41
29:B1:2948:C:O5'	29:B1:2948:C:H6	2.04	0.41
29:B1:2341:A:H4'	29:B1:3090:U:O2'	2.21	0.41
29:B1:3052:G:C6	29:B1:3091:A:N6	2.89	0.41
29:B1:3094:A:O2'	29:B1:3095:U:H5'	2.21	0.41
29:B1:3142:A:H5'	29:B1:3143:C:C5	2.56	0.41
29:B1:317:A:C2	29:B1:318:A:C5	3.09	0.41
29:B1:3390:G:C4	29:B1:3391:A:N9	2.89	0.41
29:B1:3391:A:N1	29:B1:3392:U:C4	2.88	0.41
29:B1:362:U:H2'	29:B1:363:G:O4'	2.20	0.41
29:B1:48:A:O4'	29:B1:50:U:C6	2.74	0.41
29:B1:509:U:C4	29:B1:510:G:N7	2.89	0.41
29:B1:518:G:H5''	29:B1:518:G:H8	1.86	0.41
29:B1:542:G:N2	29:B1:543:C:C2	2.89	0.41
29:B1:650:C:H1'	29:B1:2871:G:N3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:657:A:O2'	29:B1:658:G:H5'	2.20	0.41
29:B1:739:G:H2'	29:B1:739:G:N3	2.36	0.41
29:B1:878:G:C1'	29:B1:880:G:N2	2.83	0.41
29:B1:916:G:N7	29:B1:924:G:C4	2.89	0.41
29:B1:92:G:C5	29:B1:94:G:N2	2.88	0.41
31:B3:106:C:H3'	31:B3:106:C:OP2	2.20	0.41
31:B3:140:G:C2	31:B3:141:C:C2	3.09	0.41
37:BF:152:THR:O	37:BF:157:GLN:N	2.42	0.41
44:BO:108:ARG:C	44:BO:110:ALA:H	2.24	0.41
1:C1:47:A:O2'	1:C1:100:A:O4'	2.26	0.41
1:C1:10:G:O6	1:C1:1144:U:O2	2.39	0.41
1:C1:1111:G:C6	1:C1:1112:G:C4	3.09	0.41
1:C1:1147:A:C5	1:C1:1148:C:C5	3.09	0.41
1:C1:123:G:O6	1:C1:124:A:C5	2.74	0.41
1:C1:408:C:O2'	1:C1:1732:A:H1'	2.20	0.41
1:C1:1781:A:H2'	1:C1:1782:A:O4'	2.21	0.41
1:C1:383:G:O6	74:C1:1999:OHX:N5	2.53	0.41
1:C1:186:C:N4	1:C1:199:G:N1	2.23	0.41
1:C1:24:U:C5'	1:C1:24:U:C6	3.04	0.41
1:C1:406:U:H2'	1:C1:407:A:C8	2.55	0.41
1:C1:40:A:C2'	1:C1:41:A:H8	2.16	0.41
1:C1:449:C:O2	1:C1:449:C:C2'	2.69	0.41
1:C1:540:G:O4'	1:C1:541:A:OP1	2.39	0.41
1:C1:62:A:C1'	1:C1:63:G:P	3.08	0.41
1:C1:860:U:O4	1:C1:861:U:C4	2.74	0.41
1:C1:985:G:C6	1:C1:986:G:O6	2.74	0.41
29:D1:10:C:N4	31:D3:148:G:C6	2.89	0.41
29:D1:111:C:H2'	29:D1:112:U:O5'	2.21	0.41
29:D1:1139:G:H8	29:D1:1139:G:H5'	1.63	0.41
29:D1:114:A:H2'	29:D1:115:A:O4'	2.21	0.41
29:D1:114:A:O2'	29:D1:115:A:H5'	2.20	0.41
29:D1:1174:G:H2'	29:D1:1175:C:H6	1.86	0.41
29:D1:146:U:O4	29:D1:147:U:C2	2.73	0.41
29:D1:157:A:O2'	29:D1:158:G:OP2	2.38	0.41
29:D1:1599:G:H2'	29:D1:1600:U:O4'	2.20	0.41
29:D1:16:A:C6	29:D1:17:G:C6	3.09	0.41
29:D1:1837:U:O2'	29:D1:1842:A:N7	2.46	0.41
29:D1:1852:G:H2'	29:D1:1852:G:N3	2.35	0.41
29:D1:1556:C:N4	29:D1:2169:G:C8	2.76	0.41
29:D1:2313:A:H4'	29:D1:2314:U:H5'	2.02	0.41
29:D1:257:U:C2'	29:D1:258:G:O5'	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2609:A:C2	29:D1:2610:G:C8	3.09	0.41
29:D1:2688:U:O2'	29:D1:2689:A:OP1	2.30	0.41
29:D1:277:G:C6	29:D1:278:U:N3	2.88	0.41
29:D1:2931:C:N3	29:D1:2932:U:C5	2.89	0.41
29:D1:2946:A:C8	29:D1:2946:A:H3'	2.56	0.41
29:D1:2980:U:C2	29:D1:2981:U:C6	3.09	0.41
29:D1:306:A:C2	29:D1:307:A:N9	2.86	0.41
29:D1:3294:A:C6	29:D1:3295:A:C4	3.09	0.41
29:D1:3296:A:C6	29:D1:3297:U:C5	3.09	0.41
29:D1:2374:C:OP2	74:D1:3446:OHX:N3	2.54	0.41
29:D1:407:A:C6	31:D3:17:A:N9	2.88	0.41
29:D1:409:A:H2'	29:D1:410:U:O4'	2.20	0.41
29:D1:40:A:OP2	54:DY:35:ALA:HB1	2.21	0.41
29:D1:41:G:H4'	29:D1:2410:U:H2'	2.03	0.41
29:D1:431:U:O2'	29:D1:432:G:O5'	2.39	0.41
29:D1:598:A:C6	29:D1:599:C:C4	3.08	0.41
29:D1:597:G:N2	29:D1:607:A:C2	2.89	0.41
29:D1:744:A:H2'	29:D1:745:C:H6	1.84	0.41
29:D1:807:A:N6	29:D1:934:G:H1	2.19	0.41
29:D1:815:G:N1	29:D1:906:A:C2	2.89	0.41
29:D1:967:A:H3'	29:D1:968:G:C8	2.56	0.41
29:D1:1196:C:C2	30:D2:86:U:N1	2.88	0.41
31:D3:52:A:C5	31:D3:53:A:C8	3.08	0.41
29:D1:2394:G:O4'	34:DC:253:GLY:HA3	2.21	0.41
35:DD:13:GLY:N	35:DD:14:GLU:HA	2.36	0.41
35:DD:12:THR:O	35:DD:15:ALA:HB1	2.21	0.41
37:DF:150:LYS:C	37:DF:152:THR:N	2.72	0.41
54:DY:25:HIS:C	54:DY:27:LYS:N	2.69	0.41
1:C1:977:A:N6	1:C1:1025:A:C4	2.89	0.41
1:C1:1764:C:C6	1:C1:1767:G:C8	3.09	0.41
1:C1:290:G:C2'	1:C1:291:G:C8	3.03	0.41
1:C1:312:A:N1	1:C1:315:A:C8	2.89	0.41
1:C1:313:U:C5	1:C1:1118:G:N3	2.88	0.41
1:C1:359:A:P	1:C1:359:A:H3'	2.60	0.41
1:C1:366:A:H2'	1:C1:367:A:H8	1.84	0.41
1:C1:380:U:O2'	1:C1:381:C:O4'	2.28	0.41
1:C1:385:A:C2'	1:C1:386:G:O5'	2.69	0.41
1:C1:407:A:C5	1:C1:408:C:C4	3.09	0.41
1:C1:601:A:H5''	1:C1:602:U:OP2	2.21	0.41
1:C1:70:C:N4	1:C1:71:A:N6	2.69	0.41
1:C1:755:A:C5	1:C1:756:A:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:819:G:HO2'	1:C1:820:U:P	2.44	0.41
1:C1:93:A:O4'	1:C1:399:A:H2	2.03	0.41
1:C1:959:U:O4'	1:C1:959:U:P	2.79	0.41
1:C1:989:U:O2'	9:CH:126:THR:CB	2.69	0.41
1:C1:98:U:H2'	1:C1:99:C:C5	2.55	0.41
29:D1:109:A:N1	29:D1:323:A:C4	2.89	0.41
29:D1:1190:A:C2	29:D1:1191:U:C6	2.93	0.41
29:D1:1193:A:N7	29:D1:1194:G:C6	2.85	0.41
29:D1:1460:A:H2'	29:D1:1461:A:H8	1.86	0.41
29:D1:1519:G:N3	29:D1:1520:G:C8	2.89	0.41
29:D1:1560:G:C6	29:D1:1579:C:N3	2.89	0.41
29:D1:2706:G:C2	29:D1:2707:C:C4	3.09	0.41
29:D1:956:U:H4'	29:D1:2725:U:O2	2.20	0.41
29:D1:2730:G:N1	29:D1:2799:A:N6	2.69	0.41
29:D1:2855:U:C4	29:D1:2856:G:C8	3.09	0.41
29:D1:3056:U:C2	29:D1:3079:U:O4	2.74	0.41
29:D1:314:U:C2	29:D1:315:C:C5	3.09	0.41
29:D1:3334:U:O2	29:D1:3334:U:H2'	2.20	0.41
29:D1:965:A:P	74:D1:3568:OHX:N3	2.94	0.41
29:D1:45:A:N3	29:D1:45:A:H2'	2.35	0.41
29:D1:53:G:N3	29:D1:54:C:C6	2.89	0.41
29:D1:576:C:H2'	29:D1:577:C:H5'	1.86	0.41
29:D1:636:C:C6	29:D1:2377:G:O2'	2.74	0.41
29:D1:752:C:C2	29:D1:753:C:C6	3.09	0.41
29:D1:776:U:C5'	29:D1:777:U:C6	2.95	0.41
29:D1:822:G:C2	29:D1:823:C:C2	3.09	0.41
29:D1:91:G:N2	29:D1:94:G:H3'	2.36	0.41
29:D1:934:G:C2	29:D1:935:U:C6	3.08	0.41
31:D3:104:A:H8	31:D3:105:A:C8	2.38	0.41
31:D3:64:U:C4	31:D3:97:A:C2	3.09	0.41
31:D3:70:G:O5'	31:D3:71:A:OP2	2.38	0.41
1:A1:225:A:N3	1:A1:226:A:C8	2.88	0.41
1:A1:704:C:C2	1:A1:705:U:C5	3.09	0.41
1:A1:827:C:C2	1:A1:828:U:N3	2.86	0.41
1:A1:827:C:O2	1:A1:828:U:O2	2.39	0.41
1:A1:741:C:O2'	1:A1:742:U:O4'	2.38	0.41
1:A1:827:C:H5''	1:A1:827:C:H6	1.85	0.41
1:A1:827:C:O2'	1:A1:828:U:O4'	2.33	0.41
1:A1:827:C:O2'	1:A1:828:U:OP1	2.38	0.41
1:C1:218:A:N6	1:C1:844:A:C1'	2.75	0.41
1:C1:643:G:N2	1:C1:692:C:N1	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B3:59:A:C8	31:B3:61:A:N6	2.89	0.41
31:B3:73:U:H2'	31:B3:89:A:N6	2.36	0.41
29:B1:351:A:H8	31:B3:53:A:C1'	2.32	0.41
30:B2:9:C:C6	30:B2:10:C:O4'	2.74	0.41
1:A1:138:A:HO2'	1:A1:139:C:P	2.42	0.41
1:A1:287:G:H2'	1:A1:288:A:O5'	2.20	0.41
1:A1:72:A:C2	1:A1:73:U:N1	2.89	0.41
30:D2:15:C:C2	30:D2:66:A:C2	3.08	0.41
1:A1:70:C:N4	1:A1:71:A:N6	2.68	0.41
1:A1:81:G:H2'	1:A1:82:U:O5'	2.20	0.41
30:D2:20:A:C6	30:D2:60:G:N1	2.88	0.41
1:C1:114:C:N4	1:C1:250:C:C1'	2.83	0.41
1:C1:1717:G:O6	1:C1:1718:G:N2	2.54	0.41
29:B1:2680:A:C8	29:B1:2680:A:H3'	2.55	0.41
29:B1:2684:C:C2'	29:B1:2685:C:H6	2.00	0.41
1:C1:1248:C:O2'	1:C1:1249:U:H5'	2.20	0.41
1:C1:1255:G:C4'	1:C1:1256:A:OP1	2.46	0.41
1:C1:1369:U:O2	1:C1:1370:U:N3	2.53	0.41
1:C1:1371:A:C2	1:C1:1372:U:C6	3.08	0.41
1:C1:1532:U:C2'	1:C1:1533:C:O5'	2.69	0.41
1:C1:1558:U:H5	1:C1:1559:A:C2'	2.34	0.41
1:C1:1378:U:H2'	1:C1:1378:U:O2	2.20	0.41
1:C1:1385:G:C2	1:C1:1386:G:C4	3.09	0.41
1:C1:1451:C:O2'	1:C1:1452:U:H5'	2.21	0.41
1:C1:1467:C:C4	1:C1:1468:U:C4	3.09	0.41
1:C1:1504:G:O6	1:C1:1505:A:C6	2.73	0.41
1:C1:1543:A:N6	1:C1:1568:C:H1'	2.36	0.41
1:A1:1201:G:C4	1:A1:1201:G:H3'	2.42	0.41
1:A1:1235:C:C2'	1:A1:1236:A:H5'	2.51	0.41
1:A1:1205:C:OP2	1:A1:1455:G:O6	2.39	0.41
1:A1:1599:C:O2	1:A1:1600:A:N1	2.54	0.41
1:A1:1483:A:C2	1:A1:1607:G:H1'	2.56	0.41
1:A1:1185:U:C4'	1:A1:1186:U:OP2	2.68	0.41
1:A1:1214:U:C4'	1:A1:1245:G:H21	2.32	0.41
1:A1:1348:A:C8	1:A1:1349:G:C5'	3.04	0.41
1:A1:1474:G:N1	1:A1:1475:A:C6	2.89	0.41
1:A1:1481:C:H5	1:A1:1482:C:O2	2.04	0.41
1:A1:1558:U:P	1:A1:1559:A:H5'	2.61	0.41
1:A1:1607:G:N3	1:A1:1608:U:C6	2.89	0.41
1:A1:1458:G:OP1	13:AL:138:THR:O	2.39	0.41
1:C1:1063:U:H2'	1:C1:1064:G:H8	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:80:ALA:HA	4:CC:83:THR:CB	2.51	0.41
29:D1:1184:A:H2'	29:D1:1185:C:O5'	2.21	0.41
29:B1:3218:A:O5'	29:B1:3220:G:H8	2.04	0.41
29:B1:2753:G:C2	29:B1:2754:G:C8	3.08	0.41
29:B1:3181:C:C1'	45:BP:167:TYR:CB	2.98	0.41
29:B1:3181:C:H42	29:B1:3190:C:P	2.44	0.41
29:B1:3189:G:C2	29:B1:3190:C:C6	3.09	0.41
43:BN:97:SER:O	43:BN:100:ALA:N	2.54	0.41
30:B2:38:U:C5	30:B2:41:G:H5''	2.56	0.41
29:B1:2523:A:H1'	29:B1:2524:A:P	2.61	0.41
29:B1:2588:U:O2	29:B1:2588:U:C2'	2.69	0.41
29:D1:1422:G:C6	29:D1:1423:C:C4	3.09	0.41
74:D1:3555:OHX:N5	74:D1:3625:OHX:N4	2.69	0.41
29:B1:1244:A:O2'	29:B1:1248:C:N4	2.54	0.41
29:B1:1255:C:H2'	29:B1:1256:G:C4'	2.31	0.41
29:B1:1255:C:O2	29:B1:1256:G:O2'	2.36	0.41
29:B1:1257:C:C6	29:B1:1258:U:H1'	2.56	0.41
29:B1:1273:A:N7	29:B1:1274:A:C4	2.89	0.41
29:D1:3263:G:C2	29:D1:3264:G:C4	3.09	0.41
30:D2:38:U:H2'	30:D2:40:C:H5''	2.01	0.41
30:D2:37:G:N3	30:D2:45:A:N1	2.68	0.41
1:A1:639:U:O2'	1:A1:640:U:OP2	2.33	0.41
29:D1:1063:G:O2'	29:D1:1064:A:O5'	2.38	0.41
29:D1:1065:A:H1'	29:D1:1093:A:N6	2.20	0.41
29:B1:72:C:N3	29:B1:73:C:O4'	2.54	0.41
29:B1:338:A:H3'	29:B1:339:C:H5''	2.02	0.41
29:D1:1631:C:C2'	29:D1:1632:A:OP2	2.69	0.41
1:C1:1329:A:C8	1:C1:1330:G:N7	2.89	0.41
2:CA:19:ALA:O	2:CA:20:ALA:C	2.60	0.41
29:B1:3265:C:N4	29:B1:3266:G:N7	2.68	0.41
29:B1:3222:U:O2	29:B1:3223:A:C1'	2.69	0.41
29:B1:1078:U:O4	29:B1:1082:U:C4	2.74	0.41
29:D1:2590:A:C6	29:D1:2591:A:C8	3.09	0.41
1:A1:1749:A:C2'	1:A1:1750:A:O5'	2.68	0.41
29:D1:2430:A:C5	29:D1:2431:C:C5	3.08	0.41
29:D1:2432:A:H5''	29:D1:2433:U:OP2	2.21	0.41
29:B1:1627:U:OP1	29:B1:1628:C:OP2	2.38	0.41
29:B1:1631:C:C2'	29:B1:1632:A:OP2	2.69	0.41
29:B1:1635:G:N2	29:B1:1637:A:H3'	2.36	0.41
34:BC:81:THR:CB	34:BC:321:PHE:H	2.34	0.41
29:B1:128:G:H2'	29:B1:129:U:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1953:G:N2	29:D1:2092:A:C5	2.89	0.41
29:D1:1077:U:HO2'	29:D1:1078:U:P	2.44	0.41
29:D1:1692:U:H2'	29:D1:1693:C:H6	1.86	0.41
29:D1:3069:G:C4	29:D1:3070:A:C8	3.09	0.41
29:D1:1685:C:C6	29:D1:1687:U:C5	3.09	0.41
36:DE:106:ALA:N	36:DE:109:THR:CB	2.84	0.41
29:B1:1731:A:C2'	29:B1:1732:U:H5'	2.51	0.41
1:C1:1094:G:O2'	1:C1:1095:U:O5'	2.38	0.41
30:D2:90:U:H2'	30:D2:91:G:O4'	2.20	0.41
36:BE:258:LYS:C	36:BE:260:PHE:N	2.72	0.41
30:D2:1:G:N2	30:D2:2:G:C5	2.89	0.41
29:D1:1912:U:O2	29:D1:2121:G:C8	2.74	0.41
3:AB:155:ALA:HB3	3:AB:217:ALA:HB1	2.02	0.41
29:D1:2576:G:C4	29:D1:2577:C:C6	3.08	0.41
1:A1:1291:G:N2	1:A1:1324:G:N1	2.49	0.41
1:A1:718:U:H2'	1:A1:719:U:C4	2.55	0.41
29:B1:1741:A:H2'	29:B1:1742:U:O4'	2.21	0.41
29:B1:1740:U:H5'	29:B1:1741:A:H2	1.86	0.41
1:C1:1021:C:H2'	1:C1:1021:C:O2	2.20	0.41
29:B1:1019:G:C6	29:B1:1020:G:N7	2.89	0.41
29:B1:1021:G:N1	29:B1:1032:C:O2	2.53	0.41
6:CE:59:LEU:C	6:CE:61:THR:N	2.74	0.41
29:B1:355:A:C8	29:B1:356:C:C6	3.08	0.41
40:BI:63:LYS:CA	40:BI:66:ALA:HB3	2.39	0.41
50:DU:134:GLY:O	50:DU:135:VAL:O	2.38	0.41
42:BK:29:ARG:C	42:BK:31:THR:N	2.72	0.41
11:AJ:91:ALA:O	11:AJ:92:TYR:CB	2.69	0.41
29:B1:2130:G:O6	29:B1:2323:G:O6	2.38	0.41
29:B1:2298:U:O4'	29:B1:2298:U:O2	2.35	0.41
1:C1:1297:G:C2	1:C1:1300:A:OP2	2.74	0.41
29:D1:275:U:HO2'	29:D1:276:U:H5'	1.80	0.41
1:C1:727:U:N3	1:C1:728:U:H5	2.18	0.41
8:AG:145:THR:CA	8:AG:146:ALA:HB2	2.40	0.41
39:BH:224:ASP:O	39:BH:227:ASP:CB	2.69	0.41
29:B1:854:G:N3	29:B1:854:G:H2'	2.36	0.41
29:D1:1041:U:C2'	29:D1:1042:U:H5'	2.48	0.41
45:BP:165:ALA:O	45:BP:166:GLU:C	2.57	0.41
45:BP:166:GLU:O	45:BP:169:ALA:N	2.54	0.41
29:B1:903:U:O3'	29:B1:1536:G:O2'	2.38	0.41
29:D1:1307:G:C2	29:D1:1308:A:N1	2.89	0.41
36:BE:193:GLU:O	36:BE:196:ARG:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:719:U:H1'	1:C1:720:G:C5'	2.51	0.41
29:B1:3032:A:C8	29:B1:3032:A:H3'	2.56	0.41
29:B1:1816:A:H2'	29:B1:1817:G:C8	2.55	0.41
36:DE:18:THR:CB	36:DE:19:PRO:CA	2.90	0.41
1:A1:747:C:C2	1:A1:748:U:C6	3.09	0.41
29:D1:2970:C:C3'	29:D1:2971:A:C5'	2.88	0.41
29:D1:2965:U:H2'	29:D1:2966:G:H5'	2.03	0.41
20:AS:38:ILE:O	20:AS:39:CYS:C	2.58	0.41
29:B1:2469:G:C5	29:B1:2477:G:N2	2.89	0.41
29:D1:2646:C:H6	29:D1:2646:C:O5'	2.04	0.41
47:DR:72:LYS:HA	47:DR:73:GLN:HA	1.58	0.41
29:D1:2155:G:H5''	33:DB:238:ILE:O	2.21	0.41
29:D1:1705:U:O2'	29:D1:1706:C:H6	2.04	0.41
45:DP:187:GLU:O	45:DP:190:VAL:N	2.54	0.41
29:D1:2530:G:H2'	29:D1:2530:G:OP2	2.21	0.41
34:BC:142:ALA:O	34:BC:145:GLU:N	2.53	0.41
29:D1:170:G:C4	29:D1:171:G:C8	3.09	0.41
1:C1:1359:C:C2	1:C1:1360:A:C8	3.09	0.41
35:DD:115:HIS:O	35:DD:116:ASN:C	2.59	0.41
1:C1:583:C:H2'	1:C1:583:C:O2	2.21	0.41
1:A1:929:A:C1'	9:AH:123:SER:HA	2.50	0.41
42:DK:155:THR:O	42:DK:158:ASP:N	2.45	0.41
45:BP:62:THR:O	45:BP:63:ALA:HB3	2.21	0.41
6:CE:108:ARG:HA	6:CE:147:MET:HA	2.03	0.41
45:BP:142:SER:O	45:BP:143:THR:C	2.60	0.41
7:CF:85:VAL:O	7:CF:107:VAL:O	2.38	0.41
29:B1:2188:A:N6	29:B1:2320:A:C6	2.89	0.41
47:DR:36:LEU:C	47:DR:37:ALA:O	2.59	0.41
72:DL:140:GLY:O	72:DL:141:CYS:CB	2.68	0.41
29:D1:177:U:C2	29:D1:178:U:C6	3.09	0.41
4:AC:80:ALA:HA	4:AC:83:THR:CB	2.51	0.41
38:DG:165:ASP:C	38:DG:167:ALA:H	2.24	0.41
6:AE:100:LYS:CA	6:AE:104:PHE:H	2.34	0.41
29:B1:237:G:H2'	29:B1:238:A:H5'	2.02	0.41
35:BD:84:ARG:C	35:BD:86:GLY:N	2.74	0.41
38:BG:163:LEU:C	38:BG:165:ASP:H	2.24	0.41
20:CS:26:SER:C	20:CS:28:THR:H	2.23	0.41
29:D1:2693:C:H5''	29:D1:2694:A:H5'	2.03	0.41
40:BI:46:THR:HA	40:BI:47:LYS:HA	1.95	0.41
4:CC:101:GLN:HA	4:CC:104:SER:CB	2.51	0.41
21:CT:267:PRO:C	21:CT:269:TYR:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BV:7:SER:O	51:BV:8:PHE:C	2.59	0.41
21:CT:86:ASP:O	21:CT:87:LYS:CB	2.69	0.41
29:D1:2496:C:O5'	29:D1:2496:C:H6	2.04	0.41
45:DP:130:LYS:CB	45:DP:131:PRO:CB	2.99	0.41
74:B1:3496:OHX:N2	74:B1:3585:OHX:N5	2.68	0.41
39:BH:228:GLU:C	39:BH:230:LYS:N	2.74	0.41
39:BH:231:LYS:HA	39:BH:233:TRP:N	2.35	0.41
38:DG:39:GLU:O	38:DG:41:ARG:N	2.53	0.41
41:DJ:99:ILE:O	41:DJ:120:GLY:HA2	2.21	0.41
29:B1:2176:U:OP1	33:BB:26:ALA:N	2.35	0.41
11:CJ:131:GLY:CA	11:CJ:138:PHE:H	2.33	0.41
29:B1:1573:G:C6	29:B1:1574:C:H1'	2.56	0.41
48:BS:144:GLN:O	48:BS:147:ALA:N	2.53	0.41
48:BS:11:ALA:O	48:BS:12:ALA:C	2.57	0.41
29:D1:2957:G:C6	29:D1:2976:A:C2	3.09	0.41
13:AL:108:LYS:O	13:AL:109:LEU:C	2.59	0.41
8:CG:97:SER:C	8:CG:99:ARG:H	2.23	0.41
29:B1:2843:U:H3'	29:B1:2843:U:OP2	2.21	0.41
41:BJ:217:PHE:O	41:BJ:220:GLN:N	2.54	0.41
8:AG:42:ARG:O	8:AG:43:LYS:C	2.59	0.41
5:CD:120:ILE:O	5:CD:122:ASN:N	2.48	0.41
10:AI:52:LYS:HA	10:AI:53:PRO:HA	1.73	0.41
34:DC:217:ALA:O	34:DC:218:ILE:CB	2.68	0.41
50:BU:13:ILE:O	50:BU:14:SER:C	2.60	0.41
2:AA:103:THR:O	2:AA:104:PRO:C	2.59	0.41
35:DD:211:GLU:O	35:DD:212:ASP:CB	2.69	0.41
6:CE:157:ASP:O	6:CE:159:ALA:N	2.46	0.41
36:BE:274:GLN:O	36:BE:276:LYS:N	2.48	0.41
21:CT:74:THR:O	21:CT:77:GLY:N	2.51	0.41
40:DI:139:ASN:HA	40:DI:140:VAL:CB	2.51	0.41
53:BX:101:PRO:C	53:BX:103:LYS:H	2.24	0.41
50:DU:65:GLY:O	50:DU:67:PRO:N	2.53	0.41
51:BV:58:HIS:HA	51:BV:59:HIS:HA	1.63	0.41
55:BZ:60:ALA:C	55:BZ:62:LEU:N	2.75	0.41
36:DE:71:GLY:O	36:DE:72:ASP:C	2.59	0.41
6:CE:156:ILE:O	6:CE:158:PHE:N	2.54	0.41
34:DC:339:ARG:O	34:DC:340:LYS:O	2.38	0.41
8:CG:134:VAL:O	8:CG:135:LEU:C	2.59	0.41
37:BF:16:ALA:C	37:BF:18:LEU:N	2.75	0.41
41:BJ:210:ILE:O	41:BJ:214:PRO:N	2.54	0.41
39:DH:131:ALA:O	39:DH:132:VAL:CB	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DH:210:ALA:O	39:DH:211:LEU:C	2.59	0.41
1:A1:1015:U:OP1	74:A1:1923:OHX:N5	2.54	0.41
1:A1:1050:G:C5	1:A1:1051:G:H1'	2.51	0.41
1:A1:1141:G:C2	1:A1:1142:A:C8	3.08	0.41
1:A1:121:U:H2'	1:A1:122:U:O5'	2.20	0.41
1:A1:1631:A:H4'	74:A1:1990:OHX:N5	2.36	0.41
1:A1:1672:G:C6	1:A1:1673:G:O6	2.74	0.41
1:A1:1744:A:C6	1:A1:1745:G:C6	3.09	0.41
1:A1:571:G:H3'	1:A1:572:C:H6	1.85	0.41
1:A1:602:U:H2'	1:A1:603:U:C6	2.56	0.41
1:A1:22:A:C5	1:A1:604:A:N1	2.89	0.41
29:B1:1109:U:O2	29:B1:1109:U:H2'	2.21	0.41
29:B1:795:G:H1'	29:B1:1111:U:H5''	2.02	0.41
29:B1:1150:A:C4	29:B1:1151:U:C6	3.09	0.41
29:B1:1152:G:O2'	29:B1:1153:A:C5'	2.69	0.41
29:B1:11:A:H4'	29:B1:1558:A:H2	1.84	0.41
29:B1:1368:U:HO2'	29:B1:1369:A:H5'	1.85	0.41
29:B1:1588:A:H4'	29:B1:1589:A:OP2	2.19	0.41
29:B1:1908:A:N7	29:B1:1909:A:C5	2.89	0.41
29:B1:1911:A:C8	29:B1:1911:A:H3'	2.56	0.41
29:B1:2144:A:C4	29:B1:2281:A:N6	2.88	0.41
29:B1:2284:C:C4	29:B1:2308:C:OP2	2.73	0.41
29:B1:2308:C:C5	29:B1:2309:A:C5	3.09	0.41
29:B1:2717:U:H2'	29:B1:2718:U:C6	2.56	0.41
29:B1:2814:G:N1	29:B1:2815:G:C5	2.89	0.41
29:B1:283:G:N2	29:B1:285:A:N6	2.69	0.41
29:B1:2857:C:H2'	29:B1:2858:U:O4'	2.21	0.41
29:B1:2868:U:C6	29:B1:2869:U:H5	2.38	0.41
29:B1:2984:C:N3	29:B1:2985:C:C5	2.89	0.41
29:B1:3131:U:O2	29:B1:3131:U:C2'	2.65	0.41
29:B1:318:A:C2'	29:B1:319:A:OP1	2.69	0.41
29:B1:3337:G:H2'	29:B1:3338:C:O4'	2.21	0.41
29:B1:3343:G:C5	29:B1:3344:A:N6	2.89	0.41
29:B1:396:A:O2'	29:B1:397:A:O5'	2.39	0.41
29:B1:504:A:C2'	29:B1:505:G:C5'	2.99	0.41
29:B1:515:C:C6	29:B1:515:C:OP2	2.74	0.41
29:B1:554:A:C3'	29:B1:555:U:H5''	2.51	0.41
29:B1:573:C:H2'	29:B1:574:U:H5	1.83	0.41
29:B1:595:G:C2'	29:B1:596:C:O4'	2.69	0.41
29:B1:597:G:O2'	29:B1:598:A:O4'	2.39	0.41
29:B1:639:G:H2'	29:B1:640:U:C5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:728:G:C2	29:B1:742:G:C6	3.09	0.41
29:B1:75:G:C6	29:B1:76:G:C6	3.09	0.41
29:B1:811:U:O2	29:B1:812:G:C8	2.74	0.41
29:B1:807:A:H62	29:B1:934:G:H1	1.69	0.41
31:B3:147:U:N3	31:B3:148:G:N7	2.68	0.41
34:BC:12:GLY:O	34:BC:13:HIS:O	2.39	0.41
1:C1:1146:G:C4	1:C1:1147:A:N7	2.88	0.41
1:C1:129:U:O2'	1:C1:130:C:P	2.79	0.41
1:C1:150:U:O3'	1:C1:151:G:O4'	2.39	0.41
1:C1:1629:G:C2'	1:C1:1630:U:O4'	2.66	0.41
1:C1:1671:A:H2'	1:C1:1671:A:N3	2.36	0.41
1:C1:1756:A:C8	1:C1:1756:A:C3'	3.05	0.41
1:C1:61:A:N7	74:C1:1952:OHX:N2	2.69	0.41
1:C1:196:G:C6	1:C1:197:A:C2	3.08	0.41
1:C1:198:A:C1'	1:C1:199:G:OP1	2.69	0.41
1:C1:202:A:H3'	1:C1:202:A:C8	2.56	0.41
1:C1:315:A:C5	1:C1:350:U:C5	3.01	0.41
1:C1:32:U:C2'	1:C1:33:U:H5'	2.51	0.41
1:C1:863:A:C8	1:C1:865:A:N7	2.89	0.41
17:CP:107:PHE:O	17:CP:108:GLY:C	2.59	0.41
29:D1:1127:G:N1	29:D1:1129:A:H5''	2.36	0.41
29:D1:1317:A:C5	29:D1:1319:G:C8	3.09	0.41
29:D1:1330:A:C2'	29:D1:1331:U:O5'	2.68	0.41
29:D1:1524:A:N9	29:D1:1607:U:O2	2.53	0.41
29:D1:1777:U:H6	29:D1:1777:U:H3'	1.85	0.41
29:D1:1605:A:OP1	29:D1:1835:A:H5''	2.21	0.41
29:D1:1851:G:OP1	74:D1:3576:OHX:N2	2.54	0.41
29:D1:2151:C:O2'	29:D1:2243:A:N6	2.54	0.41
29:D1:2167:A:H3'	29:D1:2168:A:C8	2.51	0.41
29:D1:2170:U:O2	29:D1:2170:U:C2'	2.67	0.41
29:D1:2193:U:C4'	29:D1:2194:G:OP2	2.69	0.41
29:D1:2352:A:O3'	46:DQ:85:ALA:HB3	2.21	0.41
29:D1:2417:U:O4	29:D1:2804:A:N1	2.54	0.41
29:D1:2422:C:C2	29:D1:2423:U:C5	3.09	0.41
29:D1:258:G:N2	29:D1:259:C:N1	2.69	0.41
29:D1:264:G:C5	29:D1:265:A:C5	3.09	0.41
29:D1:2649:A:N1	29:D1:2650:U:C5	2.89	0.41
29:D1:2665:U:C2	29:D1:2706:G:N1	2.89	0.41
29:D1:2716:U:N3	29:D1:2717:U:H5	2.19	0.41
29:D1:2852:C:H5	29:D1:2853:A:C4	2.36	0.41
29:D1:2925:C:C5	29:D1:2926:A:N7	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2946:A:H2'	29:D1:2982:A:N7	2.36	0.41
29:D1:3102:G:C8	29:D1:3102:G:C3'	3.04	0.41
29:D1:3150:A:C4	29:D1:3151:U:H5''	2.56	0.41
29:D1:60:A:C5	29:D1:328:U:N3	2.89	0.41
29:D1:3328:G:HO2'	29:D1:3329:U:C4'	2.32	0.41
29:D1:408:A:C2	29:D1:409:A:N3	2.89	0.41
29:D1:563:U:N1	29:D1:564:G:O4'	2.54	0.41
29:D1:608:A:N6	29:D1:609:G:C5	2.88	0.41
29:D1:716:A:O3'	29:D1:717:C:H4'	2.18	0.41
29:D1:739:G:C2'	29:D1:740:G:C8	2.99	0.41
29:D1:763:G:N7	29:D1:764:U:C2	2.89	0.41
29:D1:771:A:N6	29:D1:772:U:H3	2.19	0.41
29:D1:873:C:H4'	29:D1:1908:A:H5'	2.03	0.41
29:D1:919:U:C4	29:D1:923:C:N3	2.89	0.41
29:D1:939:U:C2'	29:D1:940:G:O5'	2.68	0.41
29:D1:953:G:C1'	29:D1:1115:G:H4'	2.51	0.41
29:D1:959:C:OP1	29:D1:2800:G:OP2	2.39	0.41
31:D3:99:C:C5'	31:D3:100:U:OP1	2.69	0.41
31:D3:37:A:H2	31:D3:106:C:N4	2.13	0.41
31:D3:56:G:C4	31:D3:57:C:C6	3.09	0.41
31:D3:75:G:OP1	31:D3:90:U:O5'	2.39	0.41
31:D3:81:U:C2'	31:D3:82:U:H5''	2.51	0.41
35:DD:8:VAL:H	35:DD:19:ALA:HA	1.86	0.41
40:DI:170:LYS:C	40:DI:172:ILE:N	2.75	0.41
29:B1:2626:A:H5'	29:B1:2627:C:O5'	2.21	0.41
29:B1:2703:A:H3'	29:B1:2704:A:H5''	2.02	0.41
29:B1:2730:G:N1	29:B1:2799:A:N6	2.68	0.41
30:B2:11:A:H2	36:BE:16:PHE:CA	2.19	0.41
31:B3:50:C:HO2'	31:B3:51:G:P	2.43	0.41
1:A1:147:A:C5	1:A1:148:A:C5	3.09	0.41
1:A1:267:U:H6	1:A1:267:U:OP2	2.03	0.41
30:D2:113:C:C2'	30:D2:114:U:H6	2.34	0.41
30:D2:9:C:OP2	30:D2:9:C:C6	2.73	0.41
1:C1:1721:A:O3'	1:C1:1722:A:H4'	2.16	0.41
1:C1:341:A:C6	1:C1:342:C:C4	3.09	0.41
29:D1:2681:U:O2'	29:D1:2682:C:O5'	2.38	0.41
29:B1:2674:A:H2'	29:B1:2675:C:H5''	2.02	0.41
1:A1:111:U:C6	1:A1:304:U:C4	3.09	0.41
1:A1:340:U:C4	1:A1:341:A:N7	2.89	0.41
1:C1:1349:G:O4'	1:C1:1350:U:O5'	2.39	0.41
1:C1:1365:C:H3'	1:C1:1365:C:H6	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1370:U:C2	1:C1:1371:A:H8	2.39	0.41
1:C1:1377:U:O2	1:C1:1378:U:H1'	2.20	0.41
1:C1:1178:G:N3	1:C1:1462:G:C2	2.89	0.41
1:C1:1538:U:H5	1:C1:1540:G:N7	2.19	0.41
1:C1:1540:G:C5	1:C1:1541:G:N7	2.89	0.41
1:C1:1543:A:C2'	1:C1:1544:U:H5'	2.51	0.41
1:C1:1366:U:C5	74:C1:2001:OHX:N3	2.89	0.41
1:A1:1239:U:H2'	1:A1:1240:U:H5	1.86	0.41
1:A1:1345:A:H2'	1:A1:1346:A:C4	2.54	0.41
1:A1:1429:G:C4	1:A1:1430:U:C6	3.09	0.41
1:A1:1552:U:O2	1:A1:1553:G:C1'	2.69	0.41
1:A1:1559:A:N3	1:A1:1559:A:C2'	2.69	0.41
29:D1:1184:A:C6	29:D1:1323:G:C6	3.09	0.41
29:B1:379:C:N4	29:B1:390:G:H1	2.19	0.41
29:D1:3196:U:C6	29:D1:3197:G:C2	3.08	0.41
29:D1:3196:U:H6	29:D1:3197:G:N2	2.16	0.41
29:B1:3242:G:N2	29:B1:3244:A:C8	2.63	0.41
29:B1:3253:G:H2'	29:B1:3254:G:O4'	2.21	0.41
29:B1:1323:G:C3'	29:B1:1324:U:C5'	2.87	0.41
29:D1:209:A:H4'	29:D1:211:A:N7	2.35	0.41
29:B1:1230:G:H2'	29:B1:1231:A:C8	2.56	0.41
29:B1:1237:G:OP2	29:B1:1246:G:H4'	2.21	0.41
29:B1:1245:A:H5'	29:B1:1247:U:OP2	2.21	0.41
29:D1:3169:U:O4	29:D1:3170:A:N6	2.54	0.41
29:D1:1251:A:H3'	74:D1:3557:OHX:N2	2.36	0.41
29:B1:2432:A:H5''	29:B1:2433:U:OP2	2.21	0.41
4:CC:98:ALA:C	4:CC:100:ALA:N	2.74	0.41
31:B3:24:G:H2'	31:B3:25:G:C5'	2.51	0.41
29:B1:2163:C:C2'	29:B1:2163:C:O2	2.68	0.41
29:B1:2173:U:C2	29:B1:2174:G:N7	2.89	0.41
39:DH:185:ARG:C	39:DH:187:GLY:N	2.71	0.41
29:B1:1076:C:C5'	29:B1:1077:U:OP2	2.67	0.41
29:B1:1084:A:C8	29:B1:1085:A:N7	2.89	0.41
29:B1:1084:A:N6	29:B1:1085:A:C6	2.89	0.41
1:A1:945:U:O2	1:A1:946:U:C6	2.74	0.41
29:D1:3144:G:O6	74:D1:3431:OHX:N1	2.54	0.41
29:D1:2214:A:N1	29:D1:2429:G:O2'	2.42	0.41
29:D1:2234:G:C5	29:D1:2235:C:C5	3.09	0.41
29:D1:1684:U:C6	29:D1:1684:U:C3'	3.04	0.41
29:B1:131:C:O2	29:B1:132:C:H1'	2.21	0.41
1:A1:922:G:O2'	1:A1:923:A:C8	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1916:U:C4	29:D1:1917:C:N4	2.89	0.41
29:D1:1921:A:N9	29:D1:1932:A:N6	2.69	0.41
1:C1:1283:U:H3'	1:C1:1284:C:C6	2.55	0.41
29:D1:130:A:C6	29:D1:132:C:N4	2.89	0.41
5:CD:164:PRO:O	5:CD:166:ARG:N	2.54	0.41
1:A1:359:A:N3	1:A1:359:A:H3'	2.36	0.41
6:AE:61:THR:CB	6:AE:62:ARG:HA	2.51	0.41
42:BK:34:SER:O	42:BK:37:LEU:N	2.54	0.41
29:B1:2908:G:C6	29:B1:2909:U:C5	3.09	0.41
36:DE:247:ILE:C	36:DE:249:ALA:H	2.25	0.41
29:B1:1029:G:N7	29:B1:1030:A:N7	2.69	0.41
29:B1:1422:G:H2'	29:B1:1423:C:C6	2.49	0.41
33:BB:91:GLY:O	33:BB:93:LYS:N	2.54	0.41
29:D1:1021:G:N1	29:D1:1032:C:C2	2.89	0.41
29:B1:2602:G:C5	29:B1:2603:G:N7	2.89	0.41
1:C1:121:U:H2'	1:C1:122:U:C4'	2.50	0.41
29:D1:1042:U:C2'	29:D1:1043:C:O5'	2.69	0.41
36:DE:226:TYR:CB	36:DE:232:ASP:H	2.33	0.41
14:AM:58:ALA:H	14:AM:60:SER:H	1.69	0.41
14:AM:113:ILE:HA	14:AM:125:SER:CB	2.51	0.41
29:D1:2337:C:C2	29:D1:2338:C:C5	3.09	0.41
1:C1:1068:C:C2	1:C1:1069:A:C8	3.09	0.41
29:D1:2966:G:O5'	29:D1:2966:G:H8	2.04	0.41
36:DE:254:LYS:C	36:DE:256:THR:H	2.24	0.41
29:D1:2181:C:N3	29:D1:2182:A:N7	2.69	0.41
1:C1:804:A:O2'	1:C1:805:U:H5'	2.21	0.41
47:DR:49:LEU:O	47:DR:52:LEU:N	2.54	0.41
29:D1:245:U:O4	74:D1:3495:OHX:N1	2.53	0.41
1:C1:706:A:O2'	1:C1:707:A:O5'	2.39	0.41
29:D1:667:C:C2'	29:D1:667:C:O2	2.68	0.41
1:A1:930:A:H3'	1:A1:931:C:C5	2.56	0.41
29:B1:1868:G:C4	29:B1:1869:C:C6	3.09	0.41
2:CA:93:THR:O	2:CA:95:ALA:N	2.54	0.41
47:DR:111:ARG:O	47:DR:112:ALA:HB2	2.21	0.41
21:CT:257:ALA:C	21:CT:259:GLY:H	2.23	0.41
5:AD:149:VAL:CB	5:AD:157:ARG:H	2.34	0.41
2:AA:52:LYS:O	2:AA:54:TRP:N	2.54	0.41
2:AA:84:ARG:C	2:AA:86:VAL:N	2.73	0.41
29:B1:1401:A:N6	29:B1:1411:C:N4	2.68	0.41
29:B1:1409:G:H2'	29:B1:1410:U:H5'	2.03	0.41
11:AJ:106:LYS:O	11:AJ:108:ALA:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DX:78:PHE:O	53:DX:79:ALA:CB	2.69	0.41
44:BO:136:ASP:O	44:BO:138:GLN:N	2.54	0.41
41:DJ:121:LYS:O	41:DJ:122:PRO:O	2.39	0.41
2:AA:68:PRO:C	2:AA:70:PRO:N	2.73	0.41
6:AE:23:ARG:O	6:AE:26:ALA:HB3	2.21	0.41
21:AT:3:SER:O	21:AT:4:ASN:C	2.60	0.41
36:BE:274:GLN:C	36:BE:276:LYS:H	2.25	0.41
12:CK:67:ARG:O	12:CK:68:GLY:C	2.59	0.41
29:B1:1090:G:O2'	29:B1:1091:A:H5'	2.20	0.41
36:DE:92:LEU:O	36:DE:93:THR:CB	2.69	0.41
40:BI:136:PHE:HA	40:BI:144:ILE:HA	2.02	0.41
3:AB:228:ASN:HA	3:AB:229:LEU:HA	1.66	0.41
32:DA:118:LYS:HA	32:DA:136:THR:N	2.36	0.41
55:DZ:91:SER:O	55:DZ:92:ILE:C	2.60	0.41
1:A1:121:U:C2'	1:A1:122:U:O5'	2.69	0.40
1:A1:1764:C:OP2	1:A1:1771:U:C5'	2.70	0.40
1:A1:43:A:O2'	1:A1:44:U:H5''	2.18	0.40
1:A1:519:C:N4	1:A1:534:A:N1	2.69	0.40
1:A1:551:G:C2	1:A1:552:G:C4	3.10	0.40
1:A1:94:U:O2	1:A1:94:U:O4'	2.38	0.40
29:B1:107:A:H2'	29:B1:108:A:O5'	2.21	0.40
29:B1:1167:U:C6	29:B1:1167:U:C5'	2.92	0.40
29:B1:11:A:C2	31:B3:148:G:C5	3.09	0.40
29:B1:1319:G:N3	29:B1:1320:C:C6	2.89	0.40
29:B1:1168:U:O4	29:B1:1330:A:C8	2.73	0.40
29:B1:1688:U:C2'	29:B1:1689:U:H5	2.29	0.40
29:B1:1771:C:C4	29:B1:1772:U:C4	3.09	0.40
29:B1:1797:A:N6	29:B1:1798:A:C6	2.90	0.40
29:B1:1849:C:H4'	29:B1:1850:A:OP 2	2.20	0.40
29:B1:189:G:C4	29:B1:191:U:O4	2.74	0.40
29:B1:195:U:O2	29:B1:196:G:C1'	2.69	0.40
29:B1:2146:C:N4	29:B1:2147:A:N6	2.68	0.40
29:B1:2274:U:C5	29:B1:2311:G:N2	2.89	0.40
29:B1:2278:C:C4	29:B1:2305:G:N7	2.89	0.40
29:B1:2831:G:C5	29:B1:2832:C:C5	3.08	0.40
29:B1:2891:U:O5'	29:B1:2891:U:H6	2.04	0.40
29:B1:3057:U:O2'	29:B1:3058:U:C4'	2.66	0.40
29:B1:3092:C:O3'	29:B1:3093:C:H3'	2.21	0.40
29:B1:3153:U:O4	29:B1:3160:U:H1'	2.21	0.40
29:B1:3323:A:C5	29:B1:3324:C:C5	3.09	0.40
29:B1:359:U:O2'	29:B1:360:G:H5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:505:G:C8	29:B1:506:U:C5	3.09	0.40
29:B1:545:U:C2	29:B1:546:C:N3	2.90	0.40
29:B1:546:C:C5	29:B1:547:G:C4	3.09	0.40
29:B1:560:G:HO2'	29:B1:561:C:C5'	2.31	0.40
29:B1:561:C:C2'	29:B1:562:C:OP2	2.68	0.40
29:B1:597:G:N3	29:B1:598:A:N9	2.68	0.40
29:B1:697:A:N6	29:B1:699:A:C2	2.89	0.40
29:B1:856:G:C5	29:B1:857:G:N1	2.89	0.40
29:B1:87:U:C2'	29:B1:87:U:O2	2.65	0.40
31:B3:141:C:H2'	31:B3:142:C:C6	2.51	0.40
31:B3:142:C:H3'	31:B3:143:U:C6	2.56	0.40
31:B3:19:C:C4	31:B3:20:U:O4	2.74	0.40
31:B3:9:A:H2'	31:B3:9:A:N3	2.36	0.40
29:B1:1794:G:C6	33:BB:185:ALA:HB1	2.56	0.40
37:BF:10:TYR:O	37:BF:11:PRO:CB	2.70	0.40
1:C1:1146:G:C6	1:C1:1633:A:N6	2.88	0.40
1:C1:139:C:C5	1:C1:176:C:C2	3.09	0.40
1:C1:454:U:O2'	1:C1:455:C:C5'	2.70	0.40
1:C1:46:A:OP1	1:C1:46:A:H8	2.04	0.40
1:C1:511:A:H4'	1:C1:511:A:OP1	2.21	0.40
1:C1:766:U:C5	1:C1:769:A:OP2	2.71	0.40
1:C1:819:G:N1	1:C1:854:U:N3	2.67	0.40
1:C1:865:A:C4	1:C1:866:G:C8	3.09	0.40
29:D1:10:C:O2'	29:D1:11:A:O5'	2.34	0.40
29:D1:12:A:C2'	29:D1:13:A:O5'	2.69	0.40
29:D1:1507:G:H3'	29:D1:1508:C:H5'	2.03	0.40
29:D1:1539:A:C6	29:D1:1540:U:C5	3.09	0.40
29:D1:155:G:C1'	29:D1:156:G:O5'	2.69	0.40
29:D1:1593:A:C2'	29:D1:1594:A:C8	2.86	0.40
29:D1:1799:A:N1	29:D1:1800:A:N1	2.68	0.40
29:D1:1852:G:C5	29:D1:1853:U:C5	3.10	0.40
29:D1:1556:C:N4	29:D1:2169:G:N7	2.69	0.40
29:D1:2196:C:C5'	29:D1:2197:C:OP2	2.70	0.40
29:D1:22:G:H2'	29:D1:23:A:C8	2.54	0.40
29:D1:2309:A:OP1	29:D1:2309:A:C8	2.74	0.40
29:D1:2364:G:OP2	29:D1:2364:G:C8	2.71	0.40
29:D1:2376:G:O2'	29:D1:2377:G:P	2.78	0.40
29:D1:2393:G:C2	29:D1:2982:A:C2	3.08	0.40
29:D1:2395:G:C8	29:D1:2946:A:N6	2.71	0.40
29:D1:2424:A:C5'	29:D1:2425:G:OP2	2.65	0.40
29:D1:2631:U:H5'	29:D1:2757:U:O2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:2777:G:H4'	29:D1:2778:G:H5''	2.04	0.40
29:D1:284:A:N6	29:D1:2785:A:C1'	2.84	0.40
29:D1:2919:A:C2'	29:D1:2920:U:C5'	2.99	0.40
29:D1:2932:U:C2'	29:D1:2933:A:O5'	2.69	0.40
29:D1:3094:A:C4	29:D1:3095:U:C5	3.09	0.40
29:D1:3160:U:N3	29:D1:3161:C:C4	2.90	0.40
29:D1:3309:G:C8	29:D1:3310:A:H1'	2.55	0.40
29:D1:3315:G:H5''	29:D1:3319:U:O3'	2.20	0.40
29:D1:3327:G:H2'	29:D1:3327:G:N3	2.35	0.40
29:D1:3344:A:O3'	29:D1:3345:G:C8	2.74	0.40
29:D1:347:G:N1	29:D1:353:G:N7	2.69	0.40
29:D1:342:A:C5	29:D1:368:G:C5	3.10	0.40
29:D1:563:U:C2'	29:D1:564:G:C4'	2.96	0.40
29:D1:562:C:C2	29:D1:563:U:C4	3.09	0.40
29:D1:594:U:O5'	29:D1:609:G:N2	2.49	0.40
29:D1:596:C:C5'	29:D1:597:G:OP1	2.69	0.40
29:D1:612:U:O2	29:D1:613:G:C5	2.74	0.40
29:D1:637:C:C4	29:D1:638:C:C4	3.05	0.40
29:D1:637:C:C6	29:D1:638:C:H5	2.38	0.40
29:D1:744:A:N1	29:D1:745:C:C2	2.88	0.40
29:D1:752:C:H6	29:D1:752:C:H2'	1.71	0.40
29:D1:757:C:H41	29:D1:758:C:N4	2.19	0.40
29:D1:760:G:C2	29:D1:761:A:C8	3.09	0.40
29:D1:774:G:C6	29:D1:775:A:C8	3.09	0.40
29:D1:816:A:H1'	29:D1:819:U:O4	2.21	0.40
29:D1:937:G:N3	29:D1:963:G:H1'	2.36	0.40
31:D3:100:U:H2'	31:D3:101:U:H6	1.87	0.40
31:D3:105:A:O3'	31:D3:106:C:H2'	2.21	0.40
31:D3:92:A:C3'	31:D3:93:U:H5'	2.51	0.40
37:DF:134:ARG:C	37:DF:136:GLU:N	2.73	0.40
1:A1:228:G:C2	1:A1:229:U:O2	2.74	0.40
1:C1:827:C:O2'	1:C1:828:U:OP1	2.39	0.40
1:C1:640:U:H3'	1:C1:641:G:H8	1.85	0.40
1:C1:649:U:C2	1:C1:650:U:C6	3.09	0.40
1:A1:648:G:C2	1:A1:649:U:C6	3.09	0.40
1:A1:683:C:H2'	1:A1:684:A:O5'	2.21	0.40
1:C1:752:A:N6	1:C1:753:A:N6	2.68	0.40
1:C1:749:U:C2	1:C1:801:G:C2	3.09	0.40
29:B1:957:C:H4'	29:B1:2799:A:C8	2.56	0.40
31:B3:74:U:O4	31:B3:77:A:C5'	2.69	0.40
31:B3:99:C:H5''	31:B3:100:U:OP1	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:268:C:C4	1:A1:288:A:C2	3.09	0.40
29:D1:998:A:C2'	29:D1:999:G:C5'	2.97	0.40
1:C1:331:A:C2	1:C1:332:U:N1	2.89	0.40
29:B1:2676:A:H4'	29:B1:2677:G:N9	2.36	0.40
1:A1:1676:U:C3'	1:A1:1677:C:H5'	2.51	0.40
1:A1:1683:C:P	1:A1:1683:C:H3'	2.62	0.40
1:A1:1717:G:N3	1:A1:1717:G:H2'	2.36	0.40
1:A1:303:U:H2'	1:A1:304:U:H6	1.85	0.40
1:A1:341:A:C6	1:A1:342:C:N4	2.89	0.40
1:C1:1251:U:O2'	1:C1:1252:C:O4'	2.40	0.40
1:C1:1425:A:H2'	1:C1:1426:C:H5'	2.02	0.40
1:C1:1207:C:O2	1:C1:1455:G:N1	2.54	0.40
1:C1:1606:C:H2'	1:C1:1607:G:H8	1.83	0.40
1:C1:1607:G:N1	1:C1:1608:U:C4	2.89	0.40
14:CM:68:ARG:C	14:CM:70:GLN:N	2.75	0.40
1:C1:1382:A:H5''	15:CN:60:THR:N	2.36	0.40
1:A1:1207:C:H4'	1:A1:1208:A:O5'	2.21	0.40
1:A1:1241:G:C4	1:A1:1243:G:OP2	2.73	0.40
1:A1:1381:U:H3'	1:A1:1381:U:C6	2.56	0.40
1:A1:1425:A:O2'	1:A1:1426:C:H5'	2.22	0.40
1:A1:1534:G:H4'	1:A1:1536:G:C5	2.56	0.40
1:A1:1540:G:C6	1:A1:1541:G:C4	3.09	0.40
1:A1:1560:U:O5'	1:A1:1560:U:N1	2.55	0.40
1:A1:1608:U:H2'	1:A1:1609:U:H6	1.85	0.40
11:AJ:18:ALA:HB1	11:AJ:84:ALA:HB2	2.02	0.40
4:CC:27:ARG:C	4:CC:29:LEU:N	2.75	0.40
29:B1:1464:G:N2	29:B1:1466:G:O5'	2.53	0.40
29:D1:3198:U:C2	29:D1:3199:G:N7	2.89	0.40
29:B1:3237:U:H2'	29:B1:3238:G:N7	2.34	0.40
29:D1:197:G:C5	29:D1:198:A:N7	2.89	0.40
29:D1:196:G:H21	29:D1:219:A:H62	1.65	0.40
30:D2:37:G:C2'	30:D2:38:U:O5'	2.69	0.40
29:D1:1269:U:O4	29:D1:1271:A:C5	2.73	0.40
29:B1:2515:A:N6	29:B1:2592:G:O2'	2.54	0.40
29:B1:2234:G:O6	74:B1:3599:OHX:N3	2.54	0.40
20:CS:46:LYS:O	20:CS:49:ASP:N	2.54	0.40
9:CH:8:ARG:HA	9:CH:9:ASP:HA	1.96	0.40
29:B1:342:A:O4'	29:B1:344:A:N6	2.54	0.40
29:D1:3314:A:C3'	34:DC:119:TYR:N	2.84	0.40
29:B1:847:A:N3	29:B1:848:A:C8	2.89	0.40
1:C1:1416:G:H8	1:C1:1416:G:O5'	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BE:141:PRO:HA	36:BE:143:LYS:H	1.86	0.40
1:A1:886:U:H2'	1:A1:887:A:C1'	2.52	0.40
47:DR:98:LYS:H	47:DR:117:ALA:HB1	1.86	0.40
29:D1:2429:G:H2'	29:D1:2430:A:C8	2.56	0.40
29:D1:3273:A:N6	29:D1:3274:A:N7	2.68	0.40
1:A1:1401:A:N7	1:A1:1402:G:C8	2.89	0.40
1:A1:1414:U:O4'	1:A1:1414:U:O2	2.39	0.40
29:D1:1383:G:C6	29:D1:1384:U:C4	3.09	0.40
29:D1:2163:C:H5'	33:DB:230:VAL:CB	2.50	0.40
29:D1:2162:U:H2'	29:D1:2163:C:O4'	2.21	0.40
30:B2:1:G:N3	30:B2:1:G:C2'	2.73	0.40
49:DT:70:SER:C	49:DT:72:VAL:N	2.74	0.40
29:D1:130:A:C2	29:D1:139:G:C4	3.09	0.40
29:B1:1638:A:C2	29:B1:1736:G:N2	2.85	0.40
29:D1:1218:U:C5'	29:D1:1219:C:OP2	2.55	0.40
1:C1:1660:A:O2'	1:C1:1661:U:H5'	2.21	0.40
34:BC:296:THR:N	34:BC:297:SER:HA	2.36	0.40
54:BY:131:SER:CB	54:BY:134:ALA:CB	2.99	0.40
29:B1:2886:U:C4	29:B1:2911:A:C6	3.09	0.40
29:B1:2888:U:C2	29:B1:2911:A:C6	3.09	0.40
29:B1:2886:U:C2	29:B1:2911:A:N6	2.89	0.40
36:DE:246:ALA:O	36:DE:249:ALA:HB2	2.21	0.40
29:D1:1740:U:H4'	29:D1:1740:U:OP1	2.17	0.40
29:B1:2603:G:N2	29:B1:2604:U:H1'	2.36	0.40
39:BH:211:LEU:O	39:BH:215:VAL:CB	2.69	0.40
29:B1:841:A:H5''	48:BS:126:GLU:HA	2.02	0.40
36:BE:124:GLU:O	36:BE:169:GLY:HA2	2.22	0.40
46:BQ:127:ARG:CB	46:BQ:139:TYR:O	2.69	0.40
44:BO:79:ALA:HA	44:BO:80:THR:O	2.21	0.40
43:BN:34:ALA:O	43:BN:47:ASP:N	2.54	0.40
45:BP:60:LYS:O	45:BP:61:ALA:C	2.59	0.40
46:DQ:31:GLU:O	46:DQ:35:ALA:N	2.55	0.40
29:B1:1806:A:C2	29:B1:1807:G:H1'	2.57	0.40
3:AB:188:LEU:O	3:AB:190:LEU:N	2.54	0.40
74:B1:3459:OHX:N3	74:B1:3619:OHX:N6	2.69	0.40
29:B1:268:A:C8	29:B1:270:U:O2	2.74	0.40
17:CP:43:PHE:C	17:CP:45:GLY:N	2.75	0.40
29:B1:734:C:H5''	29:B1:735:A:N1	2.35	0.40
36:DE:118:THR:O	36:DE:120:LYS:N	2.54	0.40
46:DQ:51:VAL:CB	46:DQ:57:ALA:HA	2.51	0.40
42:BK:155:THR:HA	42:BK:159:THR:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BD:273:GLY:C	35:BD:275:THR:N	2.72	0.40
1:C1:714:G:C6	1:C1:715:U:O4	2.74	0.40
29:D1:247:C:N4	29:D1:248:U:C2	2.89	0.40
1:A1:1317:C:C4	1:A1:1318:G:C5	3.10	0.40
4:CC:117:ARG:HA	4:CC:120:TYR:CB	2.51	0.40
29:D1:1831:U:H2'	29:D1:1831:U:O2	2.22	0.40
43:DN:125:LYS:O	43:DN:126:GLN:CB	2.69	0.40
4:CC:151:LYS:O	4:CC:152:PHE:CB	2.69	0.40
49:DT:11:THR:O	49:DT:12:ARG:C	2.59	0.40
19:AR:8:THR:HA	19:AR:51:ASN:N	2.35	0.40
40:BI:161:LEU:C	40:BI:163:GLN:N	2.72	0.40
29:B1:792:G:H2'	29:B1:793:C:C5	2.56	0.40
35:DD:251:THR:O	35:DD:254:ALA:HB3	2.21	0.40
29:B1:2413:A:C2'	29:B1:2414:G:O5'	2.69	0.40
29:D1:994:G:H22	29:D1:1053:A:H3'	1.84	0.40
29:B1:235:A:H2'	29:B1:236:G:H8	1.80	0.40
49:DT:115:LYS:O	49:DT:118:GLU:N	2.55	0.40
43:DN:58:ILE:N	43:DN:59:ASN:CB	2.85	0.40
1:C1:1396:U:H2'	1:C1:1396:U:H6	1.69	0.40
2:CA:48:ILE:O	2:CA:49:ASN:C	2.59	0.40
29:B1:3163:A:C8	29:B1:3163:A:OP 2	2.69	0.40
3:CB:65:GLU:C	3:CB:68:ILE:CB	2.89	0.40
29:D1:1889:G:N3	29:D1:1889:G:H2'	2.36	0.40
73:DM:60:ARG:C	73:DM:62:ALA:H	2.25	0.40
8:AG:139:TRP:N	8:AG:142:GLU:H	2.19	0.40
29:B1:1753:G:H2'	29:B1:1754:G:H8	1.86	0.40
14:CM:15:ILE:O	14:CM:16:ASN:C	2.58	0.40
54:BY:37:GLY:C	54:BY:39:HIS:H	2.24	0.40
1:A1:1224:A:C2	1:A1:1225:U:N3	2.89	0.40
39:BH:230:LYS:N	39:BH:231:LYS:O	2.54	0.40
41:BJ:47:PRO:O	41:BJ:48:LEU:C	2.60	0.40
1:A1:343:C:H2'	1:A1:344:A:C8	2.55	0.40
21:CT:194:GLY:O	21:CT:195:HIS:C	2.59	0.40
42:DK:79:ILE:C	42:DK:81:GLU:N	2.74	0.40
21:AT:224:ASN:O	21:AT:228:LYS:N	2.54	0.40
29:B1:166:C:N4	29:B1:167:U:O4	2.55	0.40
3:CB:51:THR:HA	3:CB:52:THR:HA	1.75	0.40
38:BG:144:ILE:O	38:BG:145:ARG:O	2.40	0.40
21:AT:218:GLY:O	21:AT:236:ALA:HB3	2.21	0.40
1:A1:1705:C:C5	1:A1:1706:C:C5	3.09	0.40
4:CC:130:GLY:O	4:CC:131:ALA:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DS:66:HIS:O	48:DS:68:GLN:N	2.54	0.40
11:AJ:102:LYS:C	11:AJ:104:GLU:N	2.74	0.40
36:DE:123:GLU:O	36:DE:124:GLU:C	2.60	0.40
1:A1:1146:G:C8	1:A1:1635:A:C2	2.96	0.40
1:A1:295:A:C2	1:A1:296:U:C1'	3.04	0.40
1:A1:103:A:C5	1:A1:360:A:N1	2.89	0.40
1:A1:43:A:H4'	1:A1:99:C:OP2	2.20	0.40
1:A1:445:A:N6	1:A1:461:G:H22	2.19	0.40
1:A1:461:G:C2	1:A1:462:G:C4	3.09	0.40
1:A1:542:A:O2'	1:A1:544:A:C5'	2.70	0.40
1:A1:572:C:C5'	1:A1:573:C:OP2	2.66	0.40
1:A1:819:G:O2'	1:A1:820:U:P	2.79	0.40
1:A1:872:G:N2	1:A1:873:U:H1'	2.36	0.40
1:A1:97:C:C2	1:A1:98:U:C6	3.10	0.40
29:B1:1102:A:H5''	29:B1:1102:A:C8	2.57	0.40
29:B1:112:U:O4	29:B1:320:G:C6	2.74	0.40
29:B1:1145:G:N3	29:B1:1160:C:N3	2.69	0.40
29:B1:1216:C:C5'	29:B1:1217:A:OP2	2.69	0.40
29:B1:1317:A:N9	29:B1:1319:G:N7	2.69	0.40
29:B1:1479:U:O2'	29:B1:1484:U:C6	2.69	0.40
29:B1:1887:A:C2	29:B1:1888:U:H1'	2.56	0.40
29:B1:1887:A:N3	29:B1:1887:A:H2'	2.36	0.40
29:B1:208:C:C2'	29:B1:209:A:H5'	2.30	0.40
29:B1:214:G:H2'	29:B1:215:G:C1'	2.51	0.40
29:B1:2158:A:N7	29:B1:2177:G:C2	2.89	0.40
29:B1:2294:U:O2	29:B1:2294:U:C2'	2.64	0.40
29:B1:637:C:C6	29:B1:2361:A:C2	3.10	0.40
29:B1:2804:A:C2	29:B1:2805:G:C8	3.09	0.40
29:B1:2416:U:O2'	29:B1:2966:G:N3	2.53	0.40
29:B1:29:C:H4'	29:B1:62:A:H4'	2.03	0.40
29:B1:3109:G:C2'	29:B1:3110:C:H5'	2.52	0.40
29:B1:3137:C:H3'	29:B1:3138:U:C6	2.55	0.40
29:B1:3143:C:H5'	29:B1:3143:C:H6	1.86	0.40
29:B1:3289:G:C6	74:B1:3581:OHX:N3	2.89	0.40
29:B1:3289:G:O6	74:B1:3581:OHX:N4	2.54	0.40
29:B1:60:A:C6	29:B1:328:U:C2	3.09	0.40
29:B1:3297:U:N3	29:B1:3298:C:C4	2.89	0.40
29:B1:3324:C:O2'	29:B1:3325:G:C5'	2.59	0.40
29:B1:395:A:C5	29:B1:396:A:N6	2.90	0.40
29:B1:46:U:H3'	29:B1:46:U:C6	2.57	0.40
29:B1:533:A:C2'	29:B1:534:U:C6	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:563:U:N3	29:B1:564:G:O4'	2.54	0.40
29:B1:597:G:C2	29:B1:598:A:N9	2.90	0.40
29:B1:609:G:O2'	29:B1:611:A:OP2	2.39	0.40
29:B1:774:G:C5	29:B1:775:A:C8	3.09	0.40
29:B1:884:A:N7	29:B1:2139:A:C2	2.86	0.40
29:B1:2937:G:N7	34:BC:5:LYS:CB	2.84	0.40
37:BF:98:VAL:O	37:BF:99:GLU:C	2.60	0.40
44:BO:57:GLN:C	44:BO:59:PHE:H	2.25	0.40
1:C1:106:U:C4	1:C1:107:C:N3	2.89	0.40
1:C1:1141:G:C2'	1:C1:1142:A:H5''	2.49	0.40
1:C1:1151:A:C4	1:C1:1152:A:C8	3.10	0.40
1:C1:1790:A:C3'	1:C1:1791:A:H5''	2.51	0.40
1:C1:23:G:H2'	1:C1:24:U:H6	1.83	0.40
1:C1:293:U:C2	1:C1:294:C:C5	3.08	0.40
1:C1:100:A:OP2	1:C1:361:C:OP2	2.39	0.40
1:C1:47:A:C5	1:C1:425:A:C2	3.08	0.40
1:C1:515:A:N6	1:C1:537:G:N1	2.56	0.40
1:C1:518:A:H3'	1:C1:519:C:C5'	2.51	0.40
1:C1:525:A:OP1	1:C1:527:A:H2	2.03	0.40
1:C1:28:A:C6	1:C1:599:A:C6	3.09	0.40
1:C1:861:U:H2'	1:C1:862:A:H5'	2.03	0.40
1:C1:868:G:O6	1:C1:960:U:O4	2.39	0.40
29:D1:113:C:O2'	29:D1:114:A:H5'	2.21	0.40
29:D1:1178:G:H2'	29:D1:1179:A:C5'	2.39	0.40
29:D1:1192:C:O2	29:D1:1192:C:OP1	2.40	0.40
29:D1:1225:A:C5	29:D1:1226:G:N7	2.89	0.40
29:D1:1295:G:O2'	29:D1:1296:C:H5'	2.21	0.40
29:D1:1326:A:C4	29:D1:1327:C:C6	3.08	0.40
29:D1:1449:A:H4'	29:D1:2983:C:N3	2.37	0.40
29:D1:1465:A:C2'	29:D1:1466:G:H5'	2.51	0.40
29:D1:1467:A:O2'	29:D1:1469:C:OP2	2.29	0.40
29:D1:1538:G:H5'	29:D1:1539:A:OP1	2.21	0.40
29:D1:1580:A:H3'	29:D1:1581:C:H5''	1.99	0.40
29:D1:1614:C:O2'	29:D1:1615:C:H5'	2.20	0.40
29:D1:1881:A:N6	29:D1:2352:A:N6	2.69	0.40
29:D1:2355:G:C8	29:D1:2355:G:C3'	3.04	0.40
29:D1:2370:G:N9	29:D1:2371:G:C8	2.89	0.40
29:D1:636:C:H6	29:D1:2378:C:H5'	1.86	0.40
29:D1:2395:G:OP2	29:D1:2946:A:N6	2.48	0.40
29:D1:2423:U:C2'	29:D1:2424:A:C8	3.00	0.40
29:D1:2688:U:O3'	29:D1:2689:A:N7	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:270:U:H3'	29:D1:270:U:C6	2.56	0.40
29:D1:271:C:O2	29:D1:271:C:C2'	2.70	0.40
29:D1:283:G:N7	29:D1:285:A:O2'	2.48	0.40
29:D1:3000:A:H2'	29:D1:3001:C:C5	2.54	0.40
29:D1:3036:G:H2'	29:D1:3037:U:O5'	2.21	0.40
29:D1:3057:U:O2'	29:D1:3059:G:P	2.79	0.40
29:D1:3062:G:C5	29:D1:3063:C:C5	3.10	0.40
29:D1:3113:A:C6	29:D1:3114:A:C2	3.10	0.40
29:D1:2992:U:HO2'	29:D1:3309:G:HO2'	1.63	0.40
29:D1:3320:A:C2	29:D1:3321:C:N3	2.89	0.40
29:D1:3392:U:C4'	29:D1:3392:U:C6	3.02	0.40
29:D1:412:G:C4	29:D1:413:U:C6	3.09	0.40
29:D1:510:G:C2	29:D1:511:G:C1'	3.04	0.40
29:D1:558:U:O2'	29:D1:559:A:P	2.79	0.40
29:D1:662:U:H1'	35:DD:101:ALA:HB2	2.02	0.40
29:D1:692:A:C3'	29:D1:693:A:H8	2.35	0.40
29:D1:716:A:O4'	29:D1:716:A:OP2	2.39	0.40
29:D1:901:G:N3	29:D1:902:G:C8	2.89	0.40
31:D3:110:C:H4'	31:D3:112:U:H5	1.86	0.40
31:D3:128:U:C5'	31:D3:129:C:OP2	2.69	0.40
31:D3:140:G:O6	31:D3:141:C:N4	2.54	0.40
37:DF:152:THR:HA	37:DF:156:LYS:CA	2.51	0.40
53:DX:75:ARG:C	53:DX:77:LYS:N	2.75	0.40
1:A1:824:G:N2	1:A1:849:C:H42	2.20	0.40
1:A1:647:G:C2	1:A1:648:G:C5	3.09	0.40
29:B1:2626:A:H5'	29:B1:2627:C:C5'	2.51	0.40
29:B1:2646:C:H2'	29:B1:2647:A:H5'	2.03	0.40
31:B3:56:G:C6	31:B3:57:C:C4	3.09	0.40
1:A1:195:G:O4'	1:A1:196:G:OP1	2.40	0.40
1:A1:263:C:O3'	1:A1:264:G:O4'	2.38	0.40
1:A1:265:A:H2	1:A1:267:U:H5	1.69	0.40
1:A1:456:A:C6	1:A1:457:G:C5	3.09	0.40
1:A1:77:U:O2'	1:A1:78:A:P	2.80	0.40
1:A1:90:C:O2'	1:A1:451:A:H5'	2.21	0.40
1:C1:327:U:C4	1:C1:328:A:N7	2.89	0.40
1:C1:1179:G:C6	1:C1:1180:C:N3	2.89	0.40
1:C1:1235:C:C2	1:C1:1236:A:C8	3.09	0.40
1:C1:1268:G:N2	1:C1:1270:G:C5	2.89	0.40
1:C1:1363:U:N3	1:C1:1364:G:C5	2.89	0.40
1:C1:1365:C:H2'	1:C1:1366:U:O5'	2.21	0.40
1:C1:1348:A:H2	1:C1:1378:U:C6	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1275:A:C5	1:C1:1438:G:C2	3.09	0.40
1:C1:1504:G:O6	1:C1:1505:A:N1	2.55	0.40
1:C1:1560:U:O5'	1:C1:1560:U:N1	2.54	0.40
1:C1:1596:C:HO2'	1:C1:1597:A:P	2.45	0.40
1:C1:1605:G:C2'	1:C1:1606:C:H5'	2.51	0.40
1:A1:1554:U:C5'	1:A1:1555:A:OP2	2.68	0.40
29:D1:3211:C:H2'	29:D1:3211:C:O2	2.17	0.40
29:B1:3169:U:C4	29:B1:3170:A:C6	3.09	0.40
29:B1:3281:U:N3	29:B1:3282:U:N3	2.69	0.40
29:D1:437:G:C6	29:D1:438:A:N1	2.89	0.40
29:D1:404:G:N1	29:D1:405:U:C2	2.89	0.40
29:B1:2522:G:N3	29:B1:2522:G:C2'	2.84	0.40
29:D1:374:A:C4'	29:D1:375:A:H5'	2.51	0.40
35:DD:159:ILE:C	35:DD:161:LYS:N	2.74	0.40
29:D1:3220:G:C2	29:D1:3221:C:C5	3.09	0.40
36:BE:99:TYR:O	36:BE:102:GLY:HA3	2.21	0.40
29:B1:69:C:O2	29:B1:69:C:C2'	2.61	0.40
31:B3:24:G:C2	31:B3:25:G:H1'	2.55	0.40
29:D1:1808:G:H2'	29:D1:1809:A:H8	1.85	0.40
1:C1:1322:A:C5	1:C1:1323:C:C5	3.09	0.40
1:C1:1323:C:O2	1:C1:1323:C:C2'	2.64	0.40
1:C1:1326:A:OP2	1:C1:1326:A:C8	2.74	0.40
16:CO:30:SER:O	16:CO:31:SER:O	2.38	0.40
29:D1:2591:A:C2'	29:D1:2592:G:H5'	2.51	0.40
29:B1:1621:A:C4	29:B1:1622:U:C5	3.09	0.40
29:B1:1631:C:H6	29:B1:1631:C:H3'	1.86	0.40
1:C1:1753:A:C2	1:C1:1754:A:N1	2.89	0.40
36:DE:103:LEU:HA	36:DE:107:ARG:CB	2.51	0.40
29:D1:1384:U:O2'	29:D1:1385:C:P	2.79	0.40
1:A1:1658:G:N1	1:A1:1659:A:C5	2.89	0.40
29:D1:1923:C:C2'	29:D1:1924:U:H5'	2.50	0.40
29:B1:250:U:H3'	29:B1:251:G:C8	2.56	0.40
29:B1:253:A:C6	29:B1:254:A:C5	3.09	0.40
1:A1:310:C:H6	1:A1:310:C:C4'	2.34	0.40
1:A1:1291:G:N2	1:A1:1324:G:N2	2.69	0.40
29:B1:1921:A:C4	29:B1:1932:A:C6	3.09	0.40
29:D1:1218:U:C3'	29:D1:1219:C:O4'	2.69	0.40
29:D1:1218:U:H3'	29:D1:1219:C:O4'	2.21	0.40
6:CE:75:ALA:O	6:CE:78:ARG:N	2.55	0.40
11:AJ:93:HIS:CB	11:AJ:98:ASP:H	2.34	0.40
6:AE:72:GLU:C	6:AE:75:ALA:HB3	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:1704:A:N3	29:D1:1741:A:C6	2.89	0.40
29:D1:1703:U:H1'	29:D1:1743:G:C6	2.56	0.40
29:D1:1749:A:O4'	29:D1:1751:G:C2	2.74	0.40
29:D1:365:A:N1	29:D1:366:A:N3	2.69	0.40
39:BH:225:LYS:C	39:BH:227:ASP:N	2.75	0.40
2:AA:13:ASP:H	2:AA:17:LEU:H	1.69	0.40
3:AB:153:SER:O	3:AB:170:ILE:HA	2.21	0.40
54:DY:138:ILE:C	54:DY:140:ALA:N	2.74	0.40
1:A1:567:A:C6	1:A1:568:G:C4	3.09	0.40
29:B1:663:C:C4	29:B1:664:U:C4	3.09	0.40
34:BC:141:GLY:O	34:BC:142:ALA:C	2.60	0.40
29:D1:1005:G:H2'	29:D1:1006:A:O4'	2.21	0.40
34:DC:87:VAL:O	34:DC:88:GLY:O	2.38	0.40
38:BG:85:PHE:O	38:BG:87:VAL:N	2.54	0.40
29:D1:1806:A:C2'	29:D1:1807:G:O5'	2.69	0.40
1:C1:802:G:C2	1:C1:803:A:C2	3.10	0.40
1:C1:319:U:C5'	1:C1:319:U:H6	2.32	0.40
7:AF:110:HIS:CB	7:AF:111:VAL:CB	2.99	0.40
29:D1:2443:A:C5	29:D1:2444:C:N4	2.89	0.40
29:B1:790:U:H2'	29:B1:791:A:O5'	2.21	0.40
41:BJ:142:ASP:O	41:BJ:144:ASN:N	2.55	0.40
49:BT:63:VAL:H	49:BT:76:ILE:CB	2.35	0.40
49:BT:63:VAL:N	49:BT:76:ILE:CB	2.84	0.40
29:D1:238:A:O2'	29:D1:239:G:C8	2.74	0.40
13:CL:50:ALA:C	13:CL:52:VAL:N	2.75	0.40
50:DU:127:PRO:O	50:DU:130:ALA:N	2.40	0.40
11:AJ:105:LEU:O	11:AJ:106:LYS:C	2.59	0.40
35:DD:273:GLY:C	35:DD:275:THR:H	2.25	0.40
10:CI:115:TYR:O	10:CI:118:GLU:N	2.49	0.40
29:B1:994:G:HO2'	29:B1:1053:A:N6	2.18	0.40
45:DP:185:ALA:O	45:DP:186:ALA:CB	2.68	0.40
21:AT:68:VAL:HA	21:AT:84:SER:CB	2.51	0.40
48:DS:24:LEU:O	48:DS:25:ASP:C	2.60	0.40
1:A1:1549:C:H2'	1:A1:1550:A:O4'	2.22	0.40
17:AP:97:ASP:O	17:AP:98:GLU:C	2.59	0.40
74:D1:3527:OHX:N1	74:D1:3615:OHX:N3	2.69	0.40
1:A1:420:A:H2'	1:A1:421:A:O5'	2.21	0.40
34:BC:217:ALA:O	34:BC:218:ILE:CB	2.69	0.40
51:BV:10:GLY:O	51:BV:11:ALA:C	2.59	0.40
4:AC:134:CYS:CB	4:AC:187:LYS:O	2.70	0.40
44:BO:24:ARG:O	44:BO:25:VAL:C	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BZ:24:THR:O	55:BZ:25:LEU:O	2.39	0.40
17:AP:73:ARG:HA	17:AP:84:THR:HA	2.02	0.40
1:A1:1073:G:O6	1:A1:1074:G:O6	2.37	0.40
1:A1:1109:G:C4	1:A1:1110:G:N7	2.89	0.40
1:A1:1146:G:C2'	1:A1:1147:A:O5'	2.70	0.40
1:A1:12:U:O2	1:A1:12:U:H2'	2.22	0.40
1:A1:13:C:C4'	3:AB:161:LYS:O	2.70	0.40
1:A1:1671:A:N3	1:A1:1731:A:C2	2.89	0.40
1:A1:1761:U:H1'	1:A1:1762:A:OP2	2.22	0.40
1:A1:1776:A:N1	1:A1:1786:G:C6	2.89	0.40
1:A1:295:A:C2	1:A1:296:U:O4'	2.75	0.40
1:A1:33:U:C6	1:A1:33:U:H3'	2.51	0.40
1:A1:50:C:C5	1:A1:424:C:C5	3.09	0.40
1:A1:539:G:H5''	1:A1:543:C:H41	1.87	0.40
1:A1:870:C:H2'	1:A1:871:G:H8	1.86	0.40
1:A1:925:G:N3	1:A1:988:A:H1'	2.36	0.40
1:A1:988:A:C2	1:A1:989:U:N1	2.89	0.40
29:B1:1130:A:C8	29:B1:1130:A:C5'	3.04	0.40
29:B1:1133:A:C2	29:B1:1134:G:C8	3.09	0.40
29:B1:1154:A:C4'	29:B1:1155:C:OP2	2.40	0.40
29:B1:1164:G:C4	29:B1:1165:A:N7	2.89	0.40
29:B1:1377:G:H5'	29:B1:1408:G:O3'	2.21	0.40
29:B1:1394:A:N7	29:B1:1395:G:N7	2.69	0.40
29:B1:1455:U:O2	29:B1:3078:U:H5	2.05	0.40
29:B1:1519:G:C3'	29:B1:1520:G:H5''	2.50	0.40
29:B1:155:G:N7	29:B1:157:A:N3	2.69	0.40
29:B1:1608:C:N4	29:B1:1609:C:N4	2.69	0.40
29:B1:1889:G:OP1	34:BC:245:GLY:C	2.60	0.40
29:B1:197:G:H2'	29:B1:198:A:C8	2.55	0.40
29:B1:2150:G:C5	29:B1:2151:C:C5	3.09	0.40
29:B1:2196:C:C5'	29:B1:2197:C:OP2	2.69	0.40
29:B1:2291:A:C6	29:B1:2292:U:N3	2.90	0.40
29:B1:2348:A:OP2	29:B1:2349:U:C5	2.71	0.40
29:B1:264:G:C6	29:B1:265:A:N1	2.87	0.40
29:B1:2801:A:O2'	29:B1:2802:A:C2'	2.70	0.40
29:B1:1199:C:C6	29:B1:2825:C:O5'	2.75	0.40
29:B1:2840:C:H5''	29:B1:2840:C:H6	1.86	0.40
29:B1:2872:A:H1'	29:B1:2873:U:C5'	2.50	0.40
29:B1:3117:C:C5	29:B1:3118:C:C5	3.10	0.40
29:B1:3136:G:O6	29:B1:3137:C:N4	2.54	0.40
29:B1:3290:G:C2'	29:B1:3291:G:C8	3.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:32:U:C4	29:B1:33:G:N7	2.90	0.40
29:B1:559:A:O2'	29:B1:560:G:C5'	2.70	0.40
29:B1:589:A:O5'	29:B1:589:A:C8	2.75	0.40
29:B1:60:A:C8	29:B1:61:A:C8	3.10	0.40
29:B1:739:G:C6	29:B1:740:G:C6	3.09	0.40
29:B1:783:A:H2'	29:B1:784:A:O5'	2.21	0.40
29:B1:952:A:C4'	29:B1:952:A:C8	3.04	0.40
35:BD:8:VAL:O	35:BD:18:ASN:O	2.39	0.40
37:BF:146:ILE:O	37:BF:147:ALA:C	2.59	0.40
1:C1:1112:G:C5	1:C1:1113:A:N7	2.89	0.40
1:C1:145:A:C2	1:C1:146:U:C1'	3.03	0.40
1:C1:14:C:OP1	3:CB:163:GLY:N	2.55	0.40
1:C1:153:G:C2	1:C1:162:A:C5	3.09	0.40
1:C1:1780:G:C6	1:C1:1781:A:C5	3.09	0.40
1:C1:186:C:N4	1:C1:187:G:C2	2.90	0.40
1:C1:461:G:C2	1:C1:462:G:C4	3.09	0.40
1:C1:544:A:H2	1:C1:545:A:H8	1.64	0.40
1:C1:624:G:C8	1:C1:1027:A:C6	3.10	0.40
1:C1:757:A:C2	1:C1:758:U:C1'	3.05	0.40
1:C1:998:A:C8	1:C1:999:U:C5	3.09	0.40
3:CB:203:LYS:O	3:CB:204:THR:C	2.59	0.40
29:D1:109:A:H1'	29:D1:110:G:C1'	2.51	0.40
29:D1:1143:A:C8	29:D1:1368:U:C2	3.08	0.40
29:D1:1463:U:C2	29:D1:1464:G:C8	3.10	0.40
29:D1:1544:G:N3	29:D1:1544:G:H2'	2.36	0.40
29:D1:157:A:C2'	29:D1:158:G:C8	3.03	0.40
29:D1:1526:U:C6	29:D1:1594:A:C2	3.09	0.40
29:D1:1658:G:H2'	29:D1:1659:U:O4'	2.21	0.40
29:D1:1878:G:OP1	29:D1:1879:A:C4	2.74	0.40
29:D1:2192:C:C2'	29:D1:2193:U:C5'	2.99	0.40
29:D1:2409:G:H4'	29:D1:2410:U:OP2	2.21	0.40
29:D1:2656:A:N3	29:D1:2656:A:H2'	2.36	0.40
29:D1:2717:U:H2'	29:D1:2718:U:H6	1.85	0.40
29:D1:2779:A:C6	29:D1:2780:A:N7	2.89	0.40
29:D1:279:U:N3	29:D1:286:U:O4	2.54	0.40
29:D1:2912:G:H2'	29:D1:2913:C:H5'	2.04	0.40
29:D1:295:A:O2'	29:D1:296:A:H5'	2.22	0.40
29:D1:3012:A:C2	29:D1:3013:U:C6	3.09	0.40
29:D1:3068:U:OP1	48:DS:58:HIS:CA	2.65	0.40
29:D1:307:A:N6	29:D1:308:A:C6	2.89	0.40
29:D1:3087:A:C4	29:D1:3088:G:C8	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3115:C:O4'	29:D1:3115:C:O2	2.39	0.40
29:D1:3000:A:N3	29:D1:3149:G:C2	2.89	0.40
29:D1:325:A:C3'	29:D1:327:A:OP2	2.62	0.40
29:D1:3322:A:C6	29:D1:3323:A:C5	3.10	0.40
29:D1:3330:A:C5	29:D1:3331:U:C4	3.09	0.40
29:D1:3343:G:N7	29:D1:3344:A:N6	2.69	0.40
29:D1:556:U:C2	29:D1:557:A:H1'	2.57	0.40
29:D1:577:C:HO2'	29:D1:578:A:H2'	1.86	0.40
29:D1:641:C:C3'	29:D1:641:C:C6	3.04	0.40
29:D1:750:G:C2	29:D1:783:A:C2	3.09	0.40
29:D1:819:U:H4'	29:D1:2138:A:C2	2.55	0.40
29:D1:910:G:C6	29:D1:911:C:C4	3.09	0.40
29:D1:957:C:H4'	29:D1:2799:A:N7	2.37	0.40
29:D1:974:G:O6	29:D1:975:C:N4	2.53	0.40
31:D3:116:G:N3	31:D3:117:C:C6	2.90	0.40
37:DF:144:ALA:O	37:DF:146:ILE:CB	2.69	0.40
1:A1:707:A:C4	1:A1:731:C:N4	2.88	0.40
1:A1:733:A:C2'	1:A1:733:A:N3	2.83	0.40
1:A1:734:A:C8	1:A1:734:A:OP1	2.75	0.40
1:C1:828:U:C5	1:C1:829:A:N6	2.89	0.40
29:B1:2688:U:H5'	29:B1:2689:A:N7	2.36	0.40
29:B1:2696:A:C8	29:B1:2697:A:C8	3.08	0.40
29:B1:2696:A:H2'	29:B1:2697:A:O5'	2.21	0.40
29:B1:2650:U:C1'	29:B1:2758:A:H2	2.34	0.40
30:B2:102:A:H2'	30:B2:103:A:C8	2.54	0.40
30:B2:107:C:C2	30:B2:108:A:C8	3.10	0.40
30:B2:74:C:C2'	30:B2:75:G:C5'	2.80	0.40
31:B3:81:U:C2'	31:B3:82:U:H5''	2.51	0.40
31:B3:80:A:H2'	31:B3:81:U:C4	2.56	0.40
1:A1:139:C:H4'	1:A1:140:A:O5'	2.22	0.40
1:A1:62:A:H2	1:A1:63:G:C5	2.37	0.40
1:A1:63:G:O4'	1:A1:170:U:N3	2.54	0.40
30:D2:9:C:C3'	30:D2:10:C:H4'	2.48	0.40
29:D1:2681:U:O2'	29:D1:2682:C:OP2	2.39	0.40
1:A1:1722:A:N7	1:A1:1723:U:C1'	2.84	0.40
1:C1:1185:U:C4'	1:C1:1186:U:OP2	2.69	0.40
1:C1:1367:G:C2	1:C1:1368:G:C5	3.09	0.40
1:C1:1540:G:C6	1:C1:1541:G:C4	3.08	0.40
1:C1:1584:G:C8	11:CJ:123:ARG:N	2.75	0.40
1:C1:1602:C:H2'	1:C1:1603:U:C6	2.56	0.40
14:CM:1:MET:N	14:CM:2:PRO:HA	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1181:U:N3	1:A1:1182:U:C5	2.89	0.40
1:A1:1176:G:H1'	1:A1:1464:G:N2	2.36	0.40
1:A1:1466:G:C5	1:A1:1467:C:C5	3.09	0.40
1:A1:1470:C:C2'	1:A1:1471:A:OP1	2.69	0.40
1:A1:1485:C:H1'	1:A1:1606:C:H4'	2.03	0.40
1:A1:1497:U:N3	1:A1:1511:U:O2	2.55	0.40
1:A1:1486:G:C6	1:A1:1520:U:O2	2.74	0.40
1:A1:1529:C:N4	1:A1:1530:C:N4	2.69	0.40
1:A1:1542:G:C2	1:A1:1568:C:C6	3.10	0.40
1:A1:1354:G:O6	74:A1:1959:OHX:N5	2.55	0.40
1:C1:1066:C:C5	1:C1:1067:C:C5	3.09	0.40
4:CC:75:LYS:O	4:CC:76:ARG:O	2.38	0.40
29:D1:1323:G:H5'	29:D1:1324:U:OP2	2.20	0.40
29:B1:382:U:C4	29:B1:383:G:C4	3.10	0.40
29:D1:3205:G:O2'	29:D1:3206:C:C4	2.46	0.40
30:D2:23:A:C8	30:D2:24:A:C8	3.08	0.40
29:B1:3244:A:N9	29:B1:3245:A:C8	2.88	0.40
29:D1:220:G:C6	29:D1:1389:G:N2	2.89	0.40
29:D1:206:G:N1	29:D1:207:U:C2	2.89	0.40
29:D1:206:G:C2'	29:D1:207:U:H5'	2.51	0.40
74:D1:3555:OHX:N6	74:D1:3625:OHX:N4	2.69	0.40
35:DD:158:SER:O	35:DD:159:ILE:CB	2.69	0.40
1:C1:887:A:H5''	1:C1:888:U:OP2	2.21	0.40
30:D2:42:A:C2	30:D2:47:C:N4	2.90	0.40
1:A1:416:A:N3	1:A1:416:A:O4'	2.54	0.40
1:A1:692:C:H5''	1:A1:693:U:OP2	2.22	0.40
36:BE:102:GLY:C	36:BE:166:ALA:HA	2.41	0.40
29:B1:368:G:C5	29:B1:369:A:N7	2.89	0.40
29:B1:3224:G:O6	29:B1:3225:C:N4	2.55	0.40
29:B1:1093:A:O2'	29:B1:1095:U:H1'	2.22	0.40
29:B1:1064:A:N3	29:B1:1095:U:N3	2.63	0.40
1:A1:945:U:C2	1:A1:946:U:C5	3.10	0.40
36:DE:272:TYR:N	36:DE:275:THR:HA	2.37	0.40
34:BC:334:ARG:O	34:BC:335:ILE:C	2.59	0.40
1:C1:1753:A:C3'	1:C1:1754:A:H5''	2.42	0.40
1:A1:1335:U:N3	1:A1:1336:A:N7	2.69	0.40
36:BE:271:LYS:N	36:BE:272:TYR:HA	2.37	0.40
1:A1:916:U:C5	1:A1:917:U:N3	2.89	0.40
29:B1:822:G:N3	29:B1:823:C:C6	2.89	0.40
1:C1:1094:G:N3	1:C1:1095:U:C5	2.89	0.40
30:B2:2:G:N3	30:B2:2:G:C2'	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1658:G:OP1	1:A1:1659:A:P	2.79	0.40
30:D2:2:G:N2	30:D2:3:U:C2	2.89	0.40
29:D1:1931:U:O4	29:D1:2121:G:O4'	2.40	0.40
29:B1:3352:U:H5'	29:B1:3354:U:OP1	2.21	0.40
29:B1:1931:U:O2'	29:B1:2121:G:N2	2.53	0.40
29:D1:1218:U:C4	29:D1:1219:C:C4	3.10	0.40
1:C1:1577:A:C6	1:C1:1578:U:N3	2.90	0.40
29:B1:1739:U:C6	29:B1:1739:U:C3'	3.04	0.40
29:B1:1748:G:C4	29:B1:1749:A:N7	2.89	0.40
29:D1:2603:G:C2	29:D1:2604:U:H1'	2.56	0.40
5:CD:199:ILE:O	5:CD:203:LYS:N	2.54	0.40
13:CL:121:ALA:O	13:CL:123:ARG:N	2.53	0.40
29:D1:1021:G:C4	29:D1:1022:U:C5	3.10	0.40
39:BH:210:ALA:O	39:BH:211:LEU:C	2.60	0.40
34:DC:178:LEU:O	34:DC:179:ALA:O	2.39	0.40
1:C1:215:A:C5	1:C1:216:U:C4	3.09	0.40
1:C1:720:G:C3'	1:C1:721:U:H5''	2.51	0.40
29:D1:604:G:H2'	29:D1:605:U:C6	2.56	0.40
1:C1:1549:C:OP1	10:CI:45:PHE:CB	2.70	0.40
16:AO:106:THR:HA	16:AO:122:SER:O	2.21	0.40
1:A1:665:U:H2'	1:A1:666:U:C4'	2.52	0.40
73:DM:46:ARG:C	73:DM:49:ALA:HB2	2.42	0.40
4:AC:27:ARG:C	4:AC:29:LEU:N	2.75	0.40
6:AE:94:ASP:C	6:AE:96:VAL:N	2.74	0.40
47:BR:149:ALA:HB2	47:BR:157:PRO:CB	2.51	0.40
29:D1:1282:G:H4'	73:DM:82:GLY:C	2.42	0.40
1:C1:1304:G:OP2	1:C1:1305:U:O2'	2.39	0.40
38:BG:227:GLY:O	38:BG:228:SER:CB	2.69	0.40
49:DT:112:ASN:C	49:DT:114:ALA:N	2.75	0.40
33:DB:121:GLY:O	33:DB:122:ASP:O	2.40	0.40
33:DB:95:SER:O	33:DB:96:LEU:CB	2.68	0.40
1:A1:577:G:OP1	1:A1:578:U:OP1	2.39	0.40
49:DT:56:PHE:O	49:DT:58:GLN:N	2.55	0.40
46:DQ:73:GLY:C	46:DQ:75:GLU:O	2.60	0.40
5:AD:146:THR:HA	5:AD:159:ALA:HA	2.03	0.40
35:DD:169:LEU:O	35:DD:174:ALA:HB3	2.21	0.40
48:BS:70:LYS:C	48:BS:72:GLU:N	2.75	0.40
5:CD:175:LEU:O	5:CD:176:THR:C	2.60	0.40
20:CS:52:PHE:O	20:CS:53:ASN:C	2.59	0.40
10:CI:9:LYS:HA	10:CI:10:ARG:HA	1.71	0.40
1:A1:679:U:H2'	1:A1:680:U:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BQ:25:SER:O	46:BQ:27:LYS:N	2.55	0.40
1:C1:910:C:N4	1:C1:911:U:C4	2.89	0.40
74:D1:3510:OHX:N4	74:D1:3616:OHX:N2	2.69	0.40
50:DU:113:ALA:HB1	50:DU:132:ASN:O	2.21	0.40
21:CT:307:ASP:C	21:CT:309:VAL:H	2.23	0.40
50:BU:87:ARG:O	50:BU:89:ASP:N	2.55	0.40
48:DS:54:ALA:HB1	48:DS:55:VAL:H	1.71	0.40
7:AF:80:MET:O	7:AF:81:HIS:C	2.59	0.40
1:A1:1094:G:N3	1:A1:1095:U:C5	2.89	0.40
1:A1:1142:A:C5'	1:A1:1142:A:C8	3.05	0.40
1:A1:1144:U:H5'	1:A1:1300:A:N1	2.37	0.40
1:A1:26:A:OP2	1:A1:26:A:C8	2.72	0.40
1:A1:483:A:C2	1:A1:484:C:C5	3.09	0.40
1:A1:525:A:P	1:A1:526:A:N7	2.95	0.40
1:A1:860:U:O2	1:A1:861:U:O4'	2.39	0.40
1:A1:974:A:C2	1:A1:975:C:C6	3.10	0.40
1:A1:986:G:O2'	1:A1:987:G:C5'	2.69	0.40
1:A1:998:A:H3'	1:A1:999:U:C5	2.56	0.40
29:B1:1144:U:H6	29:B1:1144:U:C5'	2.33	0.40
29:B1:1200:A:H5'	29:B1:1201:C:O5'	2.21	0.40
29:B1:1200:A:C5'	29:B1:1201:C:O5'	2.69	0.40
29:B1:1212:A:N6	29:B1:1294:A:N1	2.68	0.40
29:B1:1302:A:H2'	29:B1:1303:A:O5'	2.21	0.40
29:B1:1374:G:H2'	29:B1:1375:G:O4'	2.22	0.40
29:B1:1413:G:C2	29:B1:1414:G:C5	3.10	0.40
29:B1:1498:A:H2'	29:B1:1499:C:H6	1.85	0.40
29:B1:1546:A:N7	29:B1:1547:G:N7	2.70	0.40
29:B1:1604:G:C6	29:B1:1605:A:N7	2.90	0.40
29:B1:1844:C:C2	29:B1:1845:G:H8	2.30	0.40
29:B1:1488:G:C6	29:B1:1855:U:C4	3.10	0.40
29:B1:191:U:O2	29:B1:192:C:C6	2.74	0.40
29:B1:2305:G:O2'	29:B1:2306:C:P	2.79	0.40
29:B1:2366:C:H1'	29:B1:2382:G:N2	2.35	0.40
29:B1:24:G:N3	29:B1:24:G:H2'	2.36	0.40
29:B1:2781:U:H2'	29:B1:2782:U:C6	2.56	0.40
29:B1:2830:G:H5'	29:B1:2830:G:H8	1.87	0.40
29:B1:2887:A:N3	29:B1:2887:A:H5'	2.36	0.40
29:B1:2992:U:C6	29:B1:2992:U:C3'	3.04	0.40
29:B1:3036:G:H2'	29:B1:3037:U:O5'	2.21	0.40
29:B1:3069:G:C4	29:B1:3070:A:N7	2.90	0.40
29:B1:3150:A:OP2	29:B1:3151:U:H2'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3320:A:C2'	29:B1:3321:C:O4'	2.70	0.40
29:B1:3153:U:C1'	29:B1:3395:G:N2	2.84	0.40
29:B1:37:U:O2	29:B1:38:U:C6	2.75	0.40
29:B1:376:G:C5	29:B1:401:U:N3	2.89	0.40
29:B1:577:C:H6	29:B1:577:C:H3'	1.86	0.40
29:B1:595:G:N1	29:B1:596:C:C5	2.89	0.40
29:B1:880:G:O2'	29:B1:881:C:C5	2.75	0.40
29:B1:932:U:C4	29:B1:934:G:H1'	2.56	0.40
31:B3:150:G:N7	74:B3:212:OHX:N4	2.69	0.40
29:B1:419:G:N1	31:B3:5:U:O2	2.53	0.40
29:B1:1887:A:O3'	34:BC:228:GLY:N	2.55	0.40
43:BN:78:THR:C	43:BN:80:THR:N	2.75	0.40
1:C1:1032:G:C2	1:C1:1033:C:C6	3.10	0.40
1:C1:1777:G:C6	1:C1:1778:G:N7	2.89	0.40
1:C1:129:U:C5	74:C1:1915:OHX:N6	2.90	0.40
1:C1:287:G:H2'	1:C1:288:A:O5'	2.21	0.40
1:C1:315:A:H4'	1:C1:316:A:OP1	2.20	0.40
1:C1:365:G:C6	1:C1:377:G:N1	2.89	0.40
1:C1:409:C:H5'	1:C1:1732:A:O2'	2.20	0.40
1:C1:593:U:H4'	1:C1:595:G:C4'	2.42	0.40
1:C1:612:U:C5	1:C1:613:G:C4	3.09	0.40
29:D1:1150:A:H3'	29:D1:1151:U:C6	2.57	0.40
29:D1:118:U:C6	29:D1:118:U:H3'	2.56	0.40
29:D1:123:A:C2	29:D1:146:U:C2	3.09	0.40
29:D1:1316:C:H5'	29:D1:1317:A:C5'	2.51	0.40
29:D1:1375:G:N3	29:D1:1407:A:C2	2.77	0.40
29:D1:1561:G:C5	29:D1:1562:C:C5	3.09	0.40
29:D1:1561:G:H2'	29:D1:1562:C:H6	1.86	0.40
29:D1:1602:A:N6	29:D1:1603:A:H61	2.17	0.40
29:D1:1853:U:H2'	29:D1:1853:U:O2	2.21	0.40
29:D1:2137:U:C2'	29:D1:2137:U:O2	2.69	0.40
29:D1:2137:U:O2	29:D1:2141:U:H5	2.04	0.40
29:D1:2193:U:H5''	29:D1:2312:A:N1	2.36	0.40
29:D1:420:G:C6	29:D1:2384:A:C2	3.10	0.40
29:D1:2655:U:H1'	29:D1:2656:A:C2	2.57	0.40
29:D1:2701:U:H1'	29:D1:2705:A:C5	2.56	0.40
29:D1:2749:G:C6	29:D1:2750:U:N3	2.90	0.40
29:D1:2814:G:N3	29:D1:2815:G:C8	2.90	0.40
29:D1:2901:G:H2'	29:D1:2902:A:C8	2.56	0.40
29:D1:2888:U:C6	29:D1:2910:A:C6	3.10	0.40
29:D1:2932:U:C6	29:D1:2935:U:C5	2.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:3032:A:C3'	29:D1:3032:A:C8	3.04	0.40
29:D1:1455:U:O2	29:D1:3078:U:H5	2.04	0.40
29:D1:3391:A:C2	29:D1:3392:U:N1	2.88	0.40
29:D1:347:G:C2	29:D1:348:A:C4	3.10	0.40
29:D1:47:C:H3'	29:D1:48:A:H2'	2.03	0.40
29:D1:502:U:C2'	29:D1:503:C:H5'	2.51	0.40
29:D1:538:G:C8	29:D1:539:C:H5	2.38	0.40
29:D1:572:A:H2'	29:D1:573:C:O4'	2.22	0.40
29:D1:598:A:N3	29:D1:598:A:H2'	2.36	0.40
29:D1:614:C:H2'	29:D1:615:U:C6	2.57	0.40
29:D1:62:A:N3	29:D1:63:A:C8	2.89	0.40
29:D1:725:G:H2'	29:D1:726:G:C5'	2.28	0.40
29:D1:734:C:H5''	29:D1:735:A:N1	2.36	0.40
29:D1:752:C:O2'	29:D1:753:C:P	2.79	0.40
29:D1:954:U:H2'	29:D1:954:U:O2	2.21	0.40
29:D1:88:A:N6	29:D1:98:G:O2'	2.51	0.40
31:D3:123:G:N1	31:D3:131:A:N6	2.68	0.40
31:D3:56:G:C5	31:D3:62:C:C4	3.09	0.40
37:DF:32:ALA:O	37:DF:33:SER:O	2.39	0.40
46:DQ:83:TRP:O	46:DQ:84:PRO:C	2.59	0.40
1:A1:837:G:O6	74:A1:1917:OHX:N5	2.54	0.40
1:A1:218:A:N6	1:A1:844:A:H1'	2.32	0.40
29:B1:2625:C:O5'	29:B1:2625:C:H6	2.04	0.40
29:B1:2702:A:H8	29:B1:2704:A:H62	1.62	0.40
29:B1:2725:U:OP2	29:B1:2726:C:OP2	2.39	0.40
31:B3:74:U:OP2	31:B3:76:C:N1	2.53	0.40
31:B3:81:U:C5	31:B3:82:U:C6	3.10	0.40
41:BJ:169:LYS:CB	41:BJ:177:ASP:O	2.69	0.40
41:DJ:169:LYS:CB	41:DJ:177:ASP:O	2.69	0.40
1:A1:143:G:O3'	1:A1:144:U:H4'	2.21	0.40
1:A1:198:A:N3	1:A1:199:G:O4'	2.54	0.40
1:A1:58:U:H5'	1:A1:456:A:HO2'	1.86	0.40
29:B1:2675:C:OP2	29:B1:2676:A:H5''	2.22	0.40
1:A1:327:U:C4	1:A1:328:A:N7	2.89	0.40
1:C1:1232:U:P	1:C1:1258:U:O2'	2.79	0.40
1:C1:1269:U:C1'	1:C1:1270:G:OP2	2.69	0.40
1:C1:1453:G:C5	1:C1:1454:G:N7	2.90	0.40
1:C1:1507:G:N3	1:C1:1508:U:H1'	2.37	0.40
1:C1:1514:U:O2	1:C1:1514:U:O4'	2.38	0.40
1:C1:1565:C:H5''	1:C1:1566:U:OP2	2.21	0.40
1:A1:1161:C:C2'	1:A1:1162:C:H5'	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:1366:U:C2	1:A1:1367:G:C8	3.10	0.40
1:A1:1488:G:HO2'	1:A1:1494:C:H1'	1.85	0.40
1:A1:1497:U:C4	1:A1:1498:G:C5	3.09	0.40
1:A1:1594:G:C2'	1:A1:1595:U:H5'	2.51	0.40
29:B1:619:A:C2'	29:B1:620:U:OP2	2.69	0.40
4:CC:80:ALA:O	4:CC:82:GLY:N	2.54	0.40
30:B2:88:G:C2	30:B2:89:G:N7	2.90	0.40
29:B1:3020:U:C2'	29:B1:3021:A:OP1	2.69	0.40
29:D1:1393:A:N1	29:D1:1394:A:C4	2.89	0.40
29:D1:191:U:O2	29:D1:191:U:H2'	2.20	0.40
29:B1:1234:G:C3'	29:B1:1235:U:H5''	2.49	0.40
29:B1:1246:G:C2	29:B1:1247:U:O2'	2.71	0.40
29:B1:1281:G:C2	29:B1:1282:G:H1'	2.57	0.40
30:D2:31:U:C5	30:D2:32:U:H5	2.38	0.40
1:C1:413:U:C2	1:C1:421:A:H2	2.38	0.40
31:B3:30:C:O2	31:B3:30:C:C2'	2.68	0.40
2:CA:173:ILE:C	2:CA:175:TYR:H	2.25	0.40
29:D1:2515:A:N6	29:D1:2593:A:C5	2.89	0.40
29:B1:1627:U:C4'	29:B1:1628:C:OP2	2.70	0.40
29:B1:1633:C:C4	29:B1:1634:G:C5	3.10	0.40
29:B1:1640:G:N3	29:B1:1641:U:C5	2.89	0.40
29:D1:3273:A:N3	29:D1:3273:A:C2'	2.83	0.40
29:D1:1951:C:C2	29:D1:2096:A:C2	3.09	0.40
1:A1:1331:A:H2'	1:A1:1332:C:H5'	2.03	0.40
1:A1:1417:A:OP1	74:A1:1989:OHX:N1	2.54	0.40
36:DE:141:PRO:CA	36:DE:143:LYS:N	2.82	0.40
1:A1:898:A:N6	1:A1:912:U:C2	2.87	0.40
36:DE:102:GLY:C	36:DE:166:ALA:HA	2.41	0.40
29:B1:1713:G:C5	29:B1:1730:G:N3	2.90	0.40
1:C1:1091:A:C4'	1:C1:1092:A:O5'	2.64	0.40
29:B1:332:C:H6	29:B1:332:C:C5'	2.33	0.40
1:A1:1666:U:C4	1:A1:1736:G:C2	3.09	0.40
29:B1:1035:G:C2	29:B1:1036:A:C8	3.10	0.40
1:A1:922:G:N2	1:A1:923:A:C4	2.90	0.40
36:DE:134:ALA:HB3	36:DE:135:VAL:HA	2.03	0.40
3:AB:217:ALA:C	3:AB:219:GLY:N	2.73	0.40
1:C1:1280:C:C2	1:C1:1281:G:C8	3.09	0.40
36:BE:43:LYS:H	49:BT:69:LYS:CA	2.33	0.40
29:B1:1948:G:N3	29:B1:1949:G:C8	2.89	0.40
5:AD:164:PRO:O	5:AD:165:LEU:C	2.59	0.40
29:D1:1736:G:N3	29:D1:1736:G:H2'	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:1734:U:C2'	1:C1:1735:U:H6	2.26	0.40
29:D1:1640:G:O2'	29:D1:1641:U:O5'	2.40	0.40
29:D1:1752:A:C4	29:D1:1753:G:C8	3.09	0.40
2:AA:10:THR:C	2:AA:14:ALA:O	2.60	0.40
14:AM:113:ILE:CB	14:AM:125:SER:N	2.85	0.40
29:B1:1651:U:H2'	29:B1:1652:G:H8	1.84	0.40
1:C1:719:U:O2	1:C1:720:G:N3	2.54	0.40
29:B1:2900:A:O2'	29:B1:2901:G:P	2.80	0.40
29:B1:600:G:O6	74:B1:3620:OHX:N2	2.54	0.40
2:AA:132:ALA:O	2:AA:133:ILE:C	2.60	0.40
29:D1:1410:U:C3'	29:D1:1410:U:C6	3.04	0.40
1:A1:500:C:O2	1:A1:501:U:C5	2.74	0.40
1:A1:1305:U:H5''	1:A1:1306:C:C4	2.57	0.40
1:A1:1306:C:H5	1:A1:1318:G:H1	1.69	0.40
45:BP:80:PHE:O	45:BP:81:TYR:C	2.58	0.40
40:BI:4:ILE:O	40:BI:5:GLN:CB	2.70	0.40
1:C1:802:G:H21	16:CO:107:SER:CB	2.34	0.40
29:D1:2117:A:H3'	29:D1:2118:C:C6	2.56	0.40
33:BB:121:GLY:O	33:BB:122:ASP:C	2.59	0.40
16:AO:114:GLU:O	16:AO:117:ARG:N	2.55	0.40
29:B1:2732:G:O6	29:B1:2733:A:C6	2.75	0.40
35:BD:31:ARG:O	35:BD:32:PRO:C	2.59	0.40
29:D1:994:G:OP2	29:D1:994:G:C8	2.74	0.40
3:CB:147:ASN:C	3:CB:149:GLY:N	2.75	0.40
29:B1:440:A:N3	29:B1:440:A:C2'	2.84	0.40
34:DC:221:THR:CB	34:DC:273:HIS:O	2.70	0.40
47:BR:145:ASN:CB	47:BR:146:SER:CB	2.99	0.40
74:B1:3524:OHX:N4	74:B1:3616:OHX:N5	2.70	0.40
39:DH:153:ILE:O	39:DH:180:VAL:N	2.54	0.40
37:DF:126:GLN:C	37:DF:128:LYS:H	2.21	0.40
43:DN:43:LYS:O	43:DN:44:VAL:O	2.39	0.40
1:A1:343:C:O2'	1:A1:344:A:H5'	2.21	0.40
72:DL:28:LEU:HA	72:DL:42:VAL:CB	2.51	0.40
15:AN:32:LYS:O	15:AN:34:LEU:N	2.52	0.40
48:DS:141:HIS:O	48:DS:142:ILE:C	2.60	0.40
11:CJ:102:LYS:C	11:CJ:104:GLU:H	2.24	0.40
29:B1:2229:A:H2'	29:B1:2230:C:C1'	2.52	0.40
41:BJ:215:GLU:O	41:BJ:217:PHE:N	2.54	0.40
34:DC:310:GLY:O	34:DC:311:PHE:C	2.60	0.40
35:DD:123:ALA:O	35:DD:124:SER:C	2.59	0.40
42:BK:39:GLN:C	42:BK:41:SER:H	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DK:160:VAL:C	42:DK:162:TRP:H	2.24	0.40
55:DZ:42:ILE:HA	55:DZ:90:VAL:O	2.22	0.40
42:DK:52:TYR:O	42:DK:60:ARG:O	2.39	0.40
36:DE:269:SER:HA	36:DE:270:LYS:HA	1.73	0.40
1:A1:1036:A:H3'	1:A1:1037:C:C6	2.56	0.40
1:A1:9:U:H2'	1:A1:11:A:N7	2.37	0.40
1:A1:122:U:O4	1:A1:123:G:O6	2.39	0.40
1:A1:1644:C:OP2	1:A1:1644:C:H3'	2.21	0.40
1:A1:1671:A:H2'	1:A1:1672:G:O4'	2.22	0.40
1:A1:399:A:C5	1:A1:401:A:C6	3.10	0.40
1:A1:444:C:N4	1:A1:460:A:H62	2.03	0.40
1:A1:484:C:C5	1:A1:485:A:C8	3.10	0.40
1:A1:614:C:N3	1:A1:615:A:N7	2.69	0.40
1:A1:959:U:P	1:A1:959:U:O4'	2.79	0.40
1:A1:960:U:H2'	1:A1:961:U:H6	1.83	0.40
29:B1:1116:G:N2	29:B1:2817:A:C8	2.89	0.40
29:B1:1211:U:O2'	29:B1:1212:A:O4'	2.32	0.40
29:B1:1778:G:O3'	29:B1:1779:C:C2	2.75	0.40
29:B1:1798:A:C2	29:B1:1799:A:N3	2.88	0.40
29:B1:1876:U:H6	29:B1:1876:U:C5'	2.34	0.40
29:B1:187:A:H1'	29:B1:211:A:H61	1.80	0.40
29:B1:2112:U:O2	29:B1:2113:A:C2	2.75	0.40
29:B1:2156:C:H2'	29:B1:2178:A:H61	1.86	0.40
29:B1:2240:G:O2'	29:B1:2241:U:H5'	2.22	0.40
29:B1:2278:C:N4	29:B1:2305:G:C5	2.89	0.40
29:B1:2313:A:O4'	29:B1:2315:G:C8	2.75	0.40
29:B1:2365:C:H2'	29:B1:2366:C:O5'	2.21	0.40
29:B1:310:U:N3	29:B1:2780:A:C6	2.87	0.40
29:B1:3060:C:H1'	29:B1:3331:U:C1'	2.30	0.40
29:B1:3120:C:H5'	29:B1:3121:U:OP2	2.22	0.40
29:B1:3153:U:C5'	29:B1:3293:U:C6	3.04	0.40
29:B1:3295:A:C4	29:B1:3296:A:C8	3.09	0.40
29:B1:3332:U:H2'	29:B1:3333:G:OP2	2.21	0.40
29:B1:3344:A:O3'	29:B1:3345:G:C8	2.75	0.40
29:B1:3363:U:H6	29:B1:3364:C:O4'	2.04	0.40
29:B1:3371:G:H8	29:B1:3371:G:H5''	1.85	0.40
29:B1:3327:G:N2	29:B1:3379:C:C2	2.89	0.40
29:B1:3390:G:C5	29:B1:3391:A:C5	3.10	0.40
29:B1:3288:G:O6	74:B1:3581:OHX:N3	2.55	0.40
29:B1:391:A:H2'	29:B1:392:G:OP1	2.22	0.40
29:B1:400:G:C5'	29:B1:403:C:O2'	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:407:A:H8	29:B1:407:A:O5'	2.04	0.40
29:B1:46:U:O4	29:B1:47:C:C4	2.74	0.40
29:B1:51:A:H2'	29:B1:52:A:C5'	2.51	0.40
29:B1:523:A:C6	29:B1:524:U:C5	3.09	0.40
29:B1:537:A:H1'	29:B1:558:U:O4	2.21	0.40
29:B1:512:U:H1'	29:B1:579:G:N2	2.36	0.40
29:B1:595:G:N1	29:B1:596:C:H5	2.19	0.40
29:B1:593:C:C3'	29:B1:609:G:H22	2.34	0.40
29:B1:866:A:H3'	29:B1:867:G:C8	2.48	0.40
31:B3:147:U:C2	31:B3:148:G:C8	3.10	0.40
1:C1:34:G:C4	1:C1:35:U:C5	3.09	0.40
1:C1:362:G:O6	1:C1:363:G:C6	2.74	0.40
1:C1:450:U:C2'	1:C1:451:A:H8	2.31	0.40
1:C1:465:G:H2'	1:C1:466:U:O4'	2.22	0.40
1:C1:40:A:H62	1:C1:467:G:N2	2.19	0.40
1:C1:55:A:C4	1:C1:403:G:N1	2.89	0.40
1:C1:21:U:N3	1:C1:605:A:H2	2.20	0.40
1:C1:623:A:C2'	1:C1:624:G:H5''	2.52	0.40
1:C1:627:C:O2	1:C1:627:C:C2'	2.68	0.40
1:C1:816:G:C6	1:C1:817:A:C6	3.10	0.40
1:C1:870:C:N3	1:C1:871:G:N7	2.70	0.40
1:C1:9:U:C2	1:C1:11:A:OP2	2.74	0.40
29:D1:1168:U:C2'	29:D1:1169:A:H5''	2.52	0.40
29:D1:1445:U:C5	29:D1:1446:A:C5	3.10	0.40
29:D1:1838:G:H4'	29:D1:1839:A:N9	2.36	0.40
29:D1:1841:A:C2	29:D1:1848:G:C5	3.09	0.40
29:D1:1847:A:C2	29:D1:1849:C:O4'	2.66	0.40
29:D1:2148:U:H2'	29:D1:2149:A:C4	2.55	0.40
29:D1:2289:U:O2	29:D1:2289:U:C2'	2.66	0.40
29:D1:2311:G:O5'	29:D1:2311:G:H8	2.04	0.40
29:D1:2313:A:C4	29:D1:2315:G:N7	2.90	0.40
29:D1:2361:A:C2'	29:D1:2362:C:O5'	2.70	0.40
29:D1:2860:U:C4	29:D1:2938:G:C5'	3.04	0.40
29:D1:2895:G:H2'	29:D1:2896:A:C8	2.55	0.40
29:D1:2897:A:N7	29:D1:2899:C:H1'	2.37	0.40
29:D1:2919:A:C2'	29:D1:2920:U:H5'	2.51	0.40
29:D1:1455:U:OP1	29:D1:3078:U:C2	2.75	0.40
29:D1:3108:G:C2'	29:D1:3109:G:O5'	2.70	0.40
29:D1:315:C:N3	29:D1:316:U:C4	2.89	0.40
29:D1:3296:A:H2'	29:D1:3297:U:O4'	2.22	0.40
29:D1:1943:C:H5'	29:D1:3344:A:H5'	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D1:516:A:C2	29:D1:574:U:N3	2.82	0.40
29:D1:516:A:O3'	29:D1:517:G:C8	2.75	0.40
29:D1:608:A:H2'	29:D1:609:G:C5'	2.51	0.40
29:D1:68:C:N3	29:D1:76:G:N2	2.70	0.40
29:D1:763:G:C5	29:D1:764:U:C2	3.09	0.40
29:D1:829:U:C4'	29:D1:866:A:C2	2.89	0.40
29:D1:931:C:N3	29:D1:932:U:C5	2.90	0.40
29:D1:40:A:C8	29:D1:937:G:C6	3.10	0.40
29:D1:955:U:C2	29:D1:956:U:C6	3.09	0.40
31:D3:70:G:C5'	31:D3:71:A:N7	2.85	0.40
31:D3:74:U:OP1	31:D3:76:C:C4	2.74	0.40
31:D3:75:G:P	31:D3:89:A:H2'	2.61	0.40
37:DF:132:ALA:O	37:DF:133:GLU:C	2.59	0.40
38:DG:48:ASN:O	38:DG:49:ALA:O	2.39	0.40
1:A1:709:C:O2'	1:A1:710:U:C4'	2.70	0.40
1:C1:745:U:H2'	1:C1:746:A:H5'	2.04	0.40
29:B1:1054:A:C2'	29:B1:1054:A:N3	2.71	0.40
29:B1:2704:A:O2'	29:B1:2705:A:H2'	2.21	0.40
30:B2:74:C:C5	30:B2:75:G:C4	3.09	0.40
31:B3:91:C:H2'	31:B3:92:A:H8	1.84	0.40
34:BC:187:SER:O	34:BC:188:ILE:O	2.39	0.40
1:A1:164:A:H2'	1:A1:165:G:H8	1.86	0.40
1:C1:112:A:O2'	1:C1:113:U:C6	2.71	0.40
1:C1:1682:U:H2'	1:C1:1682:U:H6	1.74	0.40
29:D1:2674:A:H2	29:D1:2675:C:C6	2.40	0.40
29:D1:2680:A:C3'	29:D1:2680:A:C8	3.04	0.40
29:B1:2677:G:N2	29:B1:2679:A:O4'	2.54	0.40
29:B1:2681:U:O3'	42:BK:50:ALA:HA	2.22	0.40
29:B1:2684:C:C2'	29:B1:2685:C:O5'	2.70	0.40
1:A1:1714:A:N1	1:A1:1715:G:N2	2.69	0.40
1:A1:304:U:C2	1:A1:305:C:C6	3.10	0.40
1:C1:1175:U:O2'	1:C1:1176:G:O5'	2.34	0.40
1:C1:1198:G:C8	1:C1:1199:G:O4'	2.75	0.40
1:C1:1456:C:H3'	1:C1:1457:C:C5'	2.52	0.40
1:C1:1529:C:H2'	1:C1:1530:C:H6	1.86	0.40
1:C1:1540:G:H2'	1:C1:1541:G:C8	2.55	0.40
1:A1:1264:G:N2	1:A1:1265:G:C4	2.89	0.40
1:A1:1365:C:OP2	1:A1:1366:U:OP2	2.40	0.40
1:A1:1203:A:C2	1:A1:1556:A:N3	2.89	0.40
30:B2:94:C:H2'	30:B2:95:A:C8	2.49	0.40
46:BQ:14:SER:CB	46:BQ:151:THR:HA	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B1:3202:G:C5	29:B1:3203:U:C4	3.10	0.40
15:AN:52:LYS:C	15:AN:54:GLY:H	2.25	0.40
29:B1:3235:C:C4	29:B1:3236:U:C4	3.09	0.40
29:D1:199:A:C4	29:D1:201:A:N7	2.89	0.40
29:B1:1245:A:H5'	29:B1:1246:G:O3'	2.21	0.40
29:B1:1270:A:N7	29:B1:1271:A:H1'	2.36	0.40
29:D1:3381:U:C2	29:D1:3383:G:C6	3.10	0.40
30:D2:37:G:H2'	30:D2:38:U:O5'	2.21	0.40
29:D1:2522:G:C6	29:D1:2587:U:C5	3.10	0.40
29:D1:2587:U:H2'	29:D1:2588:U:H6	1.85	0.40
1:A1:690:G:O6	1:A1:691:C:N4	2.55	0.40
29:D1:1246:G:N2	29:D1:1247:U:O2	2.55	0.40
29:D1:1624:G:N2	29:D1:1625:A:C2	2.88	0.40
1:C1:1308:G:C4	1:C1:1309:C:C6	3.09	0.40
1:C1:1334:U:C5'	1:C1:1335:U:OP2	2.65	0.40
1:C1:703:G:C5	1:C1:704:C:C4	3.09	0.40
29:D1:2095:G:O2'	29:D1:2096:A:H5'	2.21	0.40
29:D1:1081:U:C2'	29:D1:1081:U:O2	2.70	0.40
29:D1:1684:U:C5	29:D1:1685:C:N3	2.90	0.40
36:DE:106:ALA:O	36:DE:109:THR:N	2.55	0.40
18:CQ:41:ILE:C	18:CQ:43:ASP:N	2.74	0.40
9:CH:44:GLY:O	9:CH:45:GLY:C	2.59	0.40
47:BR:117:ALA:HB3	47:BR:118:GLY:CA	2.35	0.40
29:D1:1038:C:O2'	29:D1:1039:U:H5'	2.22	0.40
43:DN:33:ALA:HA	43:DN:48:GLY:HA3	2.03	0.40
30:D2:3:U:N3	30:D2:4:U:C4	2.90	0.40
29:D1:2119:A:H3'	29:D1:2119:A:C8	2.57	0.40
5:CD:141:GLY:HA2	5:CD:171:ALA:CB	2.45	0.40
1:A1:351:C:C2	7:AF:102:LYS:O	2.75	0.40
29:B1:1921:A:C5	29:B1:1932:A:C5	3.09	0.40
29:B1:1913:A:C2	29:B1:2120:A:H8	2.37	0.40
1:C1:1575:G:N2	1:C1:1576:A:O4'	2.54	0.40
29:D1:835:G:C2'	29:D1:857:G:H22	2.35	0.40
1:C1:1125:A:N7	1:C1:1126:G:C1'	2.85	0.40
6:AE:59:LEU:C	6:AE:61:THR:H	2.24	0.40
5:CD:197:GLU:HA	5:CD:210:ALA:CB	2.52	0.40
54:DY:70:LYS:O	54:DY:112:ILE:HA	2.21	0.40
29:D1:1635:G:N2	29:D1:1637:A:H3'	2.36	0.40
42:BK:82:ARG:O	42:BK:86:VAL:CB	2.69	0.40
29:B1:1543:G:N1	29:B1:1544:G:N7	2.70	0.40
1:A1:1358:G:O2'	14:AM:129:GLN:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:310:C:H2'	1:C1:311:U:C5'	2.51	0.40
34:DC:297:SER:O	34:DC:299:ASP:CB	2.70	0.40
14:CM:29:GLU:O	14:CM:30:VAL:C	2.60	0.40
29:B1:272:G:C6	29:B1:273:A:C5	3.10	0.40
42:DK:84:LEU:HA	42:DK:89:TYR:N	2.35	0.40
47:DR:149:ALA:HB2	47:DR:157:PRO:CB	2.52	0.40
1:A1:952:A:H2'	1:A1:952:A:N3	2.36	0.40
1:A1:802:G:C6	1:A1:803:A:C2	3.09	0.40
29:B1:1306:G:N9	45:BP:62:THR:CB	2.84	0.40
43:BN:109:ARG:O	43:BN:113:THR:CB	2.70	0.40
46:BQ:30:ARG:O	46:BQ:33:ALA:N	2.54	0.40
29:B1:1004:U:C2	29:B1:1005:G:C8	3.09	0.40
19:AR:8:THR:HA	19:AR:50:GLU:HA	2.04	0.40
21:CT:256:THR:O	21:CT:259:GLY:N	2.52	0.40
35:DD:250:TRP:O	35:DD:251:THR:CB	2.68	0.40
41:BJ:148:VAL:O	41:BJ:149:VAL:C	2.59	0.40
21:CT:53:LYS:O	21:CT:55:GLY:N	2.50	0.40
29:D1:2218:G:C2	29:D1:2228:A:C4	3.09	0.40
42:BK:101:ASN:C	42:BK:103:GLY:H	2.25	0.40
3:CB:149:GLY:C	3:CB:151:PRO:N	2.74	0.40
29:D1:1765:U:N3	29:D1:1766:G:C8	2.89	0.40
49:DT:56:PHE:C	49:DT:58:GLN:N	2.74	0.40
37:DF:126:GLN:O	37:DF:128:LYS:N	2.46	0.40
29:D1:2752:U:O4'	29:D1:2752:U:P	2.79	0.40
51:BV:5:ILE:N	51:BV:13:ILE:H	2.19	0.40
48:DS:8:LYS:O	48:DS:11:ALA:N	2.55	0.40
48:DS:39:ASN:C	48:DS:41:ILE:N	2.74	0.40
45:BP:77:SER:C	45:BP:79:ILE:H	2.25	0.40
34:BC:53:MET:HA	34:BC:77:THR:HA	2.03	0.40
4:AC:79:TYR:O	4:AC:81:PRO:N	2.54	0.40
36:DE:84:PRO:O	36:DE:85:ARG:C	2.59	0.40
29:B1:1574:C:O2	29:B1:1574:C:H2'	2.21	0.40
34:BC:157:VAL:O	34:BC:158:VAL:CB	2.69	0.40
38:BG:193:PRO:O	38:BG:195:PHE:N	2.55	0.40
52:BW:98:ALA:O	52:BW:99:VAL:C	2.60	0.40
21:CT:1:MET:O	21:CT:2:ALA:HB2	2.22	0.40
1:A1:1742:U:C4	1:A1:1743:U:C4	3.09	0.40
39:DH:211:LEU:O	39:DH:212:ALA:O	2.39	0.40
55:BZ:42:ILE:HA	55:BZ:90:VAL:O	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AA	218/252 (86%)	75 (34%)	68 (31%)	75 (34%)	0	0
2	CA	218/252 (86%)	78 (36%)	63 (29%)	77 (35%)	0	0
3	AB	217/254 (85%)	85 (39%)	54 (25%)	78 (36%)	0	0
3	CB	217/254 (85%)	81 (37%)	62 (29%)	74 (34%)	0	0
4	AC	187/240 (78%)	72 (38%)	56 (30%)	59 (32%)	0	0
4	CC	187/240 (78%)	69 (37%)	55 (29%)	63 (34%)	0	0
5	AD	165/225 (73%)	55 (33%)	46 (28%)	64 (39%)	0	0
5	CD	165/225 (73%)	58 (35%)	44 (27%)	63 (38%)	0	0
6	AE	153/197 (78%)	48 (31%)	54 (35%)	51 (33%)	0	0
6	CE	153/197 (78%)	48 (31%)	49 (32%)	56 (37%)	0	0
7	AF	75/156 (48%)	32 (43%)	18 (24%)	25 (33%)	0	0
7	CF	75/156 (48%)	31 (41%)	20 (27%)	24 (32%)	0	0
8	AG	115/151 (76%)	46 (40%)	38 (33%)	31 (27%)	0	1
8	CG	115/151 (76%)	49 (43%)	33 (29%)	33 (29%)	0	0
9	AH	126/137 (92%)	52 (41%)	38 (30%)	36 (29%)	0	0
9	CH	126/137 (92%)	51 (40%)	39 (31%)	36 (29%)	0	0
10	AI	119/142 (84%)	38 (32%)	40 (34%)	41 (34%)	0	0
10	CI	119/142 (84%)	43 (36%)	35 (29%)	41 (34%)	0	0
11	AJ	132/143 (92%)	57 (43%)	33 (25%)	42 (32%)	0	0
11	CJ	132/143 (92%)	52 (39%)	37 (28%)	43 (33%)	0	0
12	AK	65/136 (48%)	27 (42%)	16 (25%)	22 (34%)	0	0
12	CK	65/136 (48%)	28 (43%)	16 (25%)	21 (32%)	0	0
13	AL	116/146 (80%)	48 (41%)	34 (29%)	34 (29%)	0	0
13	CL	116/146 (80%)	48 (41%)	33 (28%)	35 (30%)	0	0
14	AM	100/144 (69%)	38 (38%)	28 (28%)	34 (34%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	CM	100/144 (69%)	36 (36%)	27 (27%)	37 (37%)	0	0
15	AN	109/121 (90%)	49 (45%)	30 (28%)	30 (28%)	0	0
15	CN	109/121 (90%)	49 (45%)	29 (27%)	31 (28%)	0	0
16	AO	125/130 (96%)	48 (38%)	40 (32%)	37 (30%)	0	0
16	CO	125/130 (96%)	49 (39%)	36 (29%)	40 (32%)	0	0
17	AP	114/145 (79%)	48 (42%)	24 (21%)	42 (37%)	0	0
17	CP	114/145 (79%)	45 (40%)	28 (25%)	41 (36%)	0	0
18	AQ	65/108 (60%)	28 (43%)	21 (32%)	16 (25%)	0	1
18	CQ	61/108 (56%)	28 (46%)	18 (30%)	15 (25%)	0	1
19	AR	45/67 (67%)	17 (38%)	12 (27%)	16 (36%)	0	0
19	CR	45/67 (67%)	17 (38%)	11 (24%)	17 (38%)	0	0
20	AS	37/56 (66%)	8 (22%)	14 (38%)	15 (40%)	0	0
20	CS	37/56 (66%)	8 (22%)	13 (35%)	16 (43%)	0	0
21	AT	309/319 (97%)	180 (58%)	71 (23%)	58 (19%)	0	3
21	CT	309/319 (97%)	184 (60%)	66 (21%)	59 (19%)	0	3
32	BA	211/217 (97%)	76 (36%)	67 (32%)	68 (32%)	0	0
32	DA	211/217 (97%)	76 (36%)	79 (37%)	56 (26%)	0	1
33	BB	228/254 (90%)	80 (35%)	55 (24%)	93 (41%)	0	0
33	DB	228/254 (90%)	83 (36%)	55 (24%)	90 (40%)	0	0
34	BC	362/387 (94%)	112 (31%)	100 (28%)	150 (41%)	0	0
34	DC	362/387 (94%)	109 (30%)	102 (28%)	151 (42%)	0	0
35	BD	266/362 (74%)	111 (42%)	79 (30%)	76 (29%)	0	0
35	DD	266/362 (74%)	109 (41%)	78 (29%)	79 (30%)	0	0
36	BE	285/297 (96%)	108 (38%)	82 (29%)	95 (33%)	0	0
36	DE	285/297 (96%)	105 (37%)	79 (28%)	101 (35%)	0	0
37	BF	174/176 (99%)	44 (25%)	62 (36%)	68 (39%)	0	0
37	DF	174/176 (99%)	43 (25%)	61 (35%)	70 (40%)	0	0
38	BG	211/244 (86%)	85 (40%)	62 (29%)	64 (30%)	0	0
38	DG	211/244 (86%)	89 (42%)	60 (28%)	62 (29%)	0	0
39	BH	171/256 (67%)	59 (34%)	58 (34%)	54 (32%)	0	0
39	DH	171/256 (67%)	60 (35%)	62 (36%)	49 (29%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
40	BI	189/191 (99%)	76 (40%)	60 (32%)	53 (28%)	0	0
40	DI	189/191 (99%)	79 (42%)	57 (30%)	53 (28%)	0	0
41	BJ	204/221 (92%)	80 (39%)	52 (26%)	72 (35%)	0	0
41	DJ	204/221 (92%)	75 (37%)	55 (27%)	74 (36%)	0	0
42	BK	163/174 (94%)	57 (35%)	42 (26%)	64 (39%)	0	0
42	DK	163/174 (94%)	56 (34%)	46 (28%)	61 (37%)	0	0
43	BN	118/138 (86%)	27 (23%)	44 (37%)	47 (40%)	0	0
43	DN	118/138 (86%)	28 (24%)	39 (33%)	51 (43%)	0	0
44	BO	185/204 (91%)	77 (42%)	49 (26%)	59 (32%)	0	0
44	DO	185/204 (91%)	76 (41%)	53 (29%)	56 (30%)	0	0
45	BP	194/199 (98%)	81 (42%)	56 (29%)	57 (29%)	0	0
45	DP	194/199 (98%)	77 (40%)	62 (32%)	55 (28%)	0	0
46	BQ	152/184 (83%)	62 (41%)	44 (29%)	46 (30%)	0	0
46	DQ	152/184 (83%)	62 (41%)	45 (30%)	45 (30%)	0	0
47	BR	141/186 (76%)	63 (45%)	28 (20%)	50 (36%)	0	0
47	DR	141/186 (76%)	59 (42%)	32 (23%)	50 (36%)	0	0
48	BS	186/189 (98%)	104 (56%)	57 (31%)	25 (13%)	0	6
48	DS	186/189 (98%)	101 (54%)	60 (32%)	25 (13%)	0	6
49	BT	117/160 (73%)	53 (45%)	18 (15%)	46 (39%)	0	0
49	DT	117/160 (73%)	50 (43%)	23 (20%)	44 (38%)	0	0
50	BU	127/137 (93%)	64 (50%)	28 (22%)	35 (28%)	0	0
50	DU	127/137 (93%)	70 (55%)	21 (16%)	36 (28%)	0	0
51	BV	57/155 (37%)	14 (25%)	19 (33%)	24 (42%)	0	0
51	DV	57/155 (37%)	15 (26%)	16 (28%)	26 (46%)	0	0
52	BW	92/142 (65%)	30 (33%)	30 (33%)	32 (35%)	0	0
52	DW	92/142 (65%)	32 (35%)	28 (30%)	32 (35%)	0	0
53	BX	105/127 (83%)	53 (50%)	28 (27%)	24 (23%)	0	1
53	DX	105/127 (83%)	55 (52%)	30 (29%)	20 (19%)	0	3
54	BY	147/149 (99%)	37 (25%)	47 (32%)	63 (43%)	0	0
54	DY	147/149 (99%)	36 (24%)	51 (35%)	60 (41%)	0	0
55	BZ	96/105 (91%)	48 (50%)	28 (29%)	20 (21%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
55	DZ	96/105 (91%)	51 (53%)	28 (29%)	17 (18%)	0	3
56	Ba	84/113 (74%)	27 (32%)	27 (32%)	30 (36%)	0	0
56	Da	84/113 (74%)	25 (30%)	28 (33%)	31 (37%)	0	0
57	Bb	123/130 (95%)	39 (32%)	28 (23%)	56 (46%)	0	0
57	Db	123/130 (95%)	41 (33%)	31 (25%)	51 (42%)	0	0
58	Bc	66/120 (55%)	28 (42%)	23 (35%)	15 (23%)	0	1
58	Dc	66/120 (55%)	28 (42%)	26 (39%)	12 (18%)	0	3
59	Bd	70/88 (80%)	19 (27%)	20 (29%)	31 (44%)	0	0
59	Dd	70/88 (80%)	17 (24%)	24 (34%)	29 (41%)	0	0
60	Be	46/51 (90%)	25 (54%)	8 (17%)	13 (28%)	0	0
60	De	46/51 (90%)	22 (48%)	12 (26%)	12 (26%)	0	1
61	Bf	93/106 (88%)	37 (40%)	28 (30%)	28 (30%)	0	0
61	Df	93/106 (88%)	37 (40%)	28 (30%)	28 (30%)	0	0
62	Bg	81/92 (88%)	31 (38%)	27 (33%)	23 (28%)	0	0
62	Dg	81/92 (88%)	32 (40%)	24 (30%)	25 (31%)	0	0
72	DL	136/165 (82%)	42 (31%)	42 (31%)	52 (38%)	0	0
73	DM	126/312 (40%)	48 (38%)	31 (25%)	47 (37%)	0	0
All	All	14930/18123 (82%)	5798 (39%)	4273 (29%)	4859 (32%)	0	0

All (4859) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AA	11	PRO
2	AA	13	ASP
2	AA	14	ALA
2	AA	21	ASN
2	AA	24	LEU
2	AA	36	TYR
2	AA	40	ALA
2	AA	41	ARG
2	AA	42	PRO
2	AA	43	ASP
2	AA	45	VAL
2	AA	49	ASN
2	AA	65	ALA
2	AA	70	PRO

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Mol	Chain	Res	Type
2	AA	71	GLU
2	AA	94	GLY
2	AA	97	PRO
2	AA	113	ARG
2	AA	117	GLU
2	AA	118	PRO
2	AA	121	VAL
2	AA	124	THR
2	AA	126	PRO
2	AA	140	ASN
2	AA	143	VAL
2	AA	159	ALA
2	AA	160	ILE
2	AA	161	PRO
2	AA	163	ASN
2	AA	172	LEU
2	AA	187	ALA
2	AA	193	GLN
2	AA	194	PRO
2	AA	202	TYR
2	AA	204	TYR
2	AA	220	THR
3	AB	37	PRO
3	AB	38	VAL
3	AB	59	HIS
3	AB	62	PRO
3	AB	66	PHE
3	AB	68	ILE
3	AB	73	LEU
3	AB	74	PRO
3	AB	84	LYS
3	AB	85	PRO
3	AB	125	ILE
3	AB	126	ARG
3	AB	133	LYS
3	AB	134	LEU
3	AB	135	SER
3	AB	136	VAL
3	AB	139	ILE
3	AB	140	ARG
3	AB	143	TYR
3	AB	147	ASN

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Mol	Chain	Res	Type
3	AB	151	PRO
3	AB	159	THR
3	AB	164	SER
3	AB	165	VAL
3	AB	166	THR
3	AB	189	GLN
3	AB	193	VAL
3	AB	196	VAL
3	AB	209	ASN
3	AB	220	ASN
3	AB	225	LEU
3	AB	234	PRO
3	AB	235	LEU
3	AB	236	PRO
3	AB	237	VAL
3	AB	238	SER
3	AB	239	PRO
3	AB	240	LEU
3	AB	243	TYR
4	AC	8	LYS
4	AC	9	ARG
4	AC	16	VAL
4	AC	22	ASN
4	AC	28	GLU
4	AC	37	VAL
4	AC	43	PRO
4	AC	66	ILE
4	AC	69	LEU
4	AC	70	THR
4	AC	76	ARG
4	AC	79	TYR
4	AC	80	ALA
4	AC	81	PRO
4	AC	94	ARG
4	AC	96	LEU
4	AC	98	ALA
4	AC	100	ALA
4	AC	131	ALA
4	AC	136	VAL
4	AC	145	ALA
4	AC	152	PHE
4	AC	157	LEU

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Mol	Chain	Res	Type
4	AC	162	GLN
4	AC	163	PRO
4	AC	167	PHE
4	AC	168	ILE
4	AC	174	HIS
4	AC	175	VAL
5	AD	40	ILE
5	AD	46	TRP
5	AD	53	VAL
5	AD	57	SER
5	AD	61	TYR
5	AD	66	GLN
5	AD	87	CYS
5	AD	88	PRO
5	AD	90	ILE
5	AD	91	GLU
5	AD	92	ARG
5	AD	93	LEU
5	AD	94	THR
5	AD	128	ASN
5	AD	129	PRO
5	AD	160	VAL
5	AD	162	VAL
5	AD	163	SER
5	AD	164	PRO
5	AD	182	ALA
5	AD	184	PHE
5	AD	187	ILE
5	AD	195	ALA
5	AD	216	GLU
6	AE	39	LYS
6	AE	41	GLU
6	AE	55	ALA
6	AE	56	ALA
6	AE	64	GLU
6	AE	67	PRO
6	AE	81	VAL
6	AE	82	ARG
6	AE	83	VAL
6	AE	85	VAL
6	AE	99	LEU
6	AE	100	LYS

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Mol	Chain	Res	Type
6	AE	106	GLU
6	AE	112	GLN
6	AE	121	SER
6	AE	122	VAL
6	AE	124	HIS
6	AE	130	THR
6	AE	131	GLN
6	AE	132	ARG
6	AE	140	ILE
6	AE	141	VAL
6	AE	143	ILE
6	AE	146	PHE
6	AE	152	SER
6	AE	153	GLU
6	AE	169	PRO
6	AE	174	ARG
7	AF	70	ILE
7	AF	80	MET
7	AF	83	THR
7	AF	86	ILE
7	AF	90	TYR
7	AF	94	ILE
7	AF	95	PRO
7	AF	98	ASN
7	AF	111	VAL
7	AF	112	SER
7	AF	113	PRO
7	AF	125	VAL
7	AF	130	PRO
7	AF	133	LYS
8	AG	46	THR
8	AG	47	PRO
8	AG	50	ILE
8	AG	62	GLN
8	AG	65	VAL
8	AG	69	ASN
8	AG	71	ILE
8	AG	82	PRO
8	AG	84	ILE
8	AG	85	PRO
8	AG	86	GLU
8	AG	126	ALA

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Mol	Chain	Res	Type
8	AG	132	VAL
8	AG	135	LEU
8	AG	136	PRO
8	AG	137	PRO
9	AH	4	VAL
9	AH	23	PHE
9	AH	26	THR
9	AH	40	ALA
9	AH	42	VAL
9	AH	43	THR
9	AH	50	ALA
9	AH	64	ALA
9	AH	65	GLN
9	AH	67	VAL
9	AH	79	VAL
9	AH	94	PRO
9	AH	96	PRO
9	AH	101	ALA
9	AH	122	PRO
9	AH	128	LYS
10	AI	11	VAL
10	AI	13	LYS
10	AI	23	GLU
10	AI	38	PRO
10	AI	51	SER
10	AI	53	PRO
10	AI	61	ARG
10	AI	68	PRO
10	AI	73	PRO
10	AI	75	PRO
10	AI	80	MET
10	AI	85	ILE
10	AI	86	VAL
10	AI	121	ILE
10	AI	125	PRO
11	AJ	34	SER
11	AJ	35	PRO
11	AJ	36	ILE
11	AJ	38	LEU
11	AJ	42	GLU
11	AJ	57	LEU
11	AJ	61	SER

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Mol	Chain	Res	Type
11	AJ	63	ILE
11	AJ	70	THR
11	AJ	74	HIS
11	AJ	85	ILE
11	AJ	97	VAL
11	AJ	105	LEU
11	AJ	118	ILE
11	AJ	126	PRO
11	AJ	136	SER
12	AK	22	PRO
12	AK	26	LEU
12	AK	29	GLN
12	AK	38	ILE
12	AK	39	ALA
12	AK	44	LYS
12	AK	60	ARG
12	AK	65	PRO
12	AK	69	ILE
13	AL	18	LEU
13	AL	27	LYS
13	AL	65	GLU
13	AL	66	LEU
13	AL	71	GLN
13	AL	72	ILE
13	AL	74	GLN
13	AL	75	ASN
13	AL	79	TYR
13	AL	80	LYS
13	AL	81	ILE
13	AL	98	TYR
13	AL	99	HIS
13	AL	102	ALA
13	AL	117	LYS
13	AL	118	LYS
14	AM	2	PRO
14	AM	4	VAL
14	AM	8	ASP
14	AM	9	VAL
14	AM	25	GLN
14	AM	36	ILE
14	AM	68	ARG
14	AM	110	LYS

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Mol	Chain	Res	Type
14	AM	111	ILE
14	AM	113	ILE
14	AM	117	SER
14	AM	119	LYS
14	AM	125	SER
14	AM	126	GLU
14	AM	127	ASN
14	AM	129	GLN
15	AN	13	GLU
15	AN	14	GLN
15	AN	15	GLN
15	AN	24	ILE
15	AN	31	VAL
15	AN	45	ALA
15	AN	50	LEU
15	AN	55	PRO
15	AN	59	PRO
15	AN	72	ASN
15	AN	76	SER
15	AN	93	LEU
15	AN	96	PRO
15	AN	108	ILE
15	AN	113	ASP
15	AN	117	VAL
16	AO	5	SER
16	AO	24	GLN
16	AO	27	ILE
16	AO	28	ARG
16	AO	29	PRO
16	AO	30	SER
16	AO	31	SER
16	AO	38	LEU
16	AO	63	VAL
16	AO	76	SER
16	AO	77	PRO
16	AO	79	PHE
16	AO	85	ASP
16	AO	86	ILE
16	AO	95	PRO
16	AO	97	ARG
16	AO	99	PHE
16	AO	100	GLY

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Mol	Chain	Res	Type
16	AO	103	ILE
16	AO	106	THR
16	AO	118	ARG
16	AO	120	HIS
16	AO	126	LEU
17	AP	37	ALA
17	AP	48	HIS
17	AP	49	ALA
17	AP	59	ILE
17	AP	64	PRO
17	AP	70	LYS
17	AP	78	LYS
17	AP	87	VAL
17	AP	90	ASP
17	AP	104	LEU
17	AP	105	ALA
17	AP	108	GLY
17	AP	119	GLY
17	AP	124	VAL
17	AP	127	VAL
17	AP	130	VAL
17	AP	135	LEU
17	AP	138	GLU
18	AQ	42	LEU
18	AQ	57	TYR
18	AQ	71	ILE
18	AQ	85	LYS
18	AQ	88	ILE
18	AQ	90	LYS
18	AQ	91	PRO
18	AQ	97	LYS
19	AR	10	ALA
19	AR	14	LYS
19	AR	15	VAL
19	AR	34	GLU
19	AR	39	THR
19	AR	44	VAL
20	AS	20	GLN
20	AS	24	CYS
20	AS	26	SER
20	AS	27	HIS
20	AS	34	TYR

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Mol	Chain	Res	Type
20	AS	43	PHE
20	AS	48	ASN
21	AT	2	ALA
21	AT	48	THR
21	AT	66	HIS
21	AT	100	TYR
21	AT	119	ALA
21	AT	189	GLU
21	AT	195	HIS
21	AT	198	ASN
21	AT	241	PHE
21	AT	247	PRO
21	AT	269	TYR
21	AT	281	TYR
21	AT	295	SER
32	BA	24	LYS
32	BA	36	VAL
32	BA	39	LYS
32	BA	42	ASP
32	BA	43	PRO
32	BA	55	LEU
32	BA	56	PRO
32	BA	58	CYS
32	BA	59	PRO
32	BA	60	ARG
32	BA	61	PRO
32	BA	109	ALA
32	BA	115	VAL
32	BA	120	VAL
32	BA	122	ARG
32	BA	124	LEU
32	BA	126	PRO
32	BA	127	GLN
32	BA	128	LEU
32	BA	129	SER
32	BA	135	PRO
32	BA	143	ASP
32	BA	151	VAL
32	BA	174	MET
32	BA	201	VAL
32	BA	207	LYS
32	BA	208	SER

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Mol	Chain	Res	Type
32	BA	209	SER
32	BA	210	MET
32	BA	212	PRO
33	BB	5	ILE
33	BB	13	GLY
33	BB	14	SER
33	BB	16	PHE
33	BB	24	GLN
33	BB	26	ALA
33	BB	38	HIS
33	BB	50	HIS
33	BB	61	VAL
33	BB	65	ASP
33	BB	79	ASN
33	BB	83	HIS
33	BB	84	THR
33	BB	90	ALA
33	BB	98	VAL
33	BB	107	VAL
33	BB	108	PRO
33	BB	110	GLY
33	BB	111	THR
33	BB	120	PRO
33	BB	136	ILE
33	BB	137	ILE
33	BB	139	HIS
33	BB	141	PRO
33	BB	148	VAL
33	BB	149	ARG
33	BB	152	SER
33	BB	166	ILE
33	BB	176	ASP
33	BB	178	PRO
33	BB	182	ALA
33	BB	188	LYS
33	BB	197	PRO
33	BB	199	THR
33	BB	207	VAL
33	BB	208	ASP
33	BB	210	PRO
33	BB	211	HIS
33	BB	217	GLN

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Mol	Chain	Res	Type
33	BB	219	ILE
33	BB	220	GLY
33	BB	222	ALA
33	BB	230	VAL
33	BB	233	GLN
33	BB	234	LYS
33	BB	235	ALA
33	BB	237	LEU
33	BB	241	ARG
33	BB	242	ARG
33	BB	243	THR
34	BC	3	HIS
34	BC	12	GLY
34	BC	21	ARG
34	BC	23	ALA
34	BC	33	PRO
34	BC	40	PRO
34	BC	41	VAL
34	BC	42	ALA
34	BC	43	LEU
34	BC	44	THR
34	BC	47	LEU
34	BC	61	ASP
34	BC	63	PRO
34	BC	68	HIS
34	BC	71	GLU
34	BC	81	THR
34	BC	83	PRO
34	BC	86	VAL
34	BC	89	VAL
34	BC	93	VAL
34	BC	94	GLU
34	BC	97	ARG
34	BC	104	THR
34	BC	105	VAL
34	BC	106	TRP
34	BC	109	HIS
34	BC	113	GLU
34	BC	117	ARG
34	BC	122	TRP
34	BC	123	TYR
34	BC	131	THR

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Mol	Chain	Res	Type
34	BC	132	LYS
34	BC	137	TYR
34	BC	139	GLN
34	BC	143	GLY
34	BC	153	LYS
34	BC	158	VAL
34	BC	160	VAL
34	BC	165	GLN
34	BC	166	ILE
34	BC	167	ARG
34	BC	170	PRO
34	BC	173	GLN
34	BC	174	LYS
34	BC	175	LYS
34	BC	176	ALA
34	BC	187	SER
34	BC	188	ILE
34	BC	192	VAL
34	BC	197	GLU
34	BC	200	GLU
34	BC	209	PHE
34	BC	220	VAL
34	BC	221	THR
34	BC	238	LEU
34	BC	239	PRO
34	BC	244	ARG
34	BC	248	LYS
34	BC	257	PRO
34	BC	259	HIS
34	BC	264	VAL
34	BC	270	ARG
34	BC	272	TYR
34	BC	274	SER
34	BC	275	ARG
34	BC	279	ASN
34	BC	284	ARG
34	BC	296	THR
34	BC	301	THR
34	BC	306	THR
34	BC	307	PRO
34	BC	317	ILE
34	BC	318	LYS

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Mol	Chain	Res	Type
34	BC	320	ASP
34	BC	324	VAL
34	BC	327	CYS
34	BC	331	ASN
34	BC	333	LYS
34	BC	335	ILE
34	BC	346	THR
34	BC	351	LEU
34	BC	359	ILE
35	BD	8	VAL
35	BD	19	ALA
35	BD	21	PRO
35	BD	23	PRO
35	BD	24	ALA
35	BD	28	ALA
35	BD	54	GLU
35	BD	69	ARG
35	BD	77	VAL
35	BD	90	PHE
35	BD	98	ARG
35	BD	100	PHE
35	BD	102	PRO
35	BD	107	ARG
35	BD	116	ASN
35	BD	131	VAL
35	BD	140	HIS
35	BD	149	PRO
35	BD	150	LEU
35	BD	159	ILE
35	BD	160	GLN
35	BD	166	VAL
35	BD	182	LEU
35	BD	194	TYR
35	BD	212	ASP
35	BD	239	ALA
35	BD	252	GLU
35	BD	254	ALA
35	BD	257	LYS
35	BD	258	LEU
35	BD	261	VAL
35	BD	265	GLU
35	BD	266	THR

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Mol	Chain	Res	Type
35	BD	267	VAL
35	BD	274	TYR
36	BE	12	TYR
36	BE	13	SER
36	BE	17	GLN
36	BE	18	THR
36	BE	19	PRO
36	BE	21	ARG
36	BE	32	GLN
36	BE	46	THR
36	BE	47	PRO
36	BE	48	LYS
36	BE	49	TYR
36	BE	50	ARG
36	BE	68	THR
36	BE	69	ILE
36	BE	78	ALA
36	BE	83	LEU
36	BE	84	PRO
36	BE	88	ILE
36	BE	100	ALA
36	BE	101	THR
36	BE	139	PRO
36	BE	148	ILE
36	BE	151	GLN
36	BE	159	VAL
36	BE	160	PHE
36	BE	171	LEU
36	BE	174	PRO
36	BE	178	ASN
36	BE	185	PHE
36	BE	191	ASP
36	BE	200	PHE
36	BE	211	LEU
36	BE	214	ASP
36	BE	231	ILE
36	BE	234	ASP
36	BE	238	ASP
36	BE	239	ILE
36	BE	246	ALA
36	BE	256	THR
36	BE	271	LYS

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Mol	Chain	Res	Type
36	BE	293	LEU
37	BF	4	GLN
37	BF	6	ALA
37	BF	7	PRO
37	BF	10	TYR
37	BF	11	PRO
37	BF	13	GLU
37	BF	16	ALA
37	BF	26	ARG
37	BF	27	PRO
37	BF	28	GLN
37	BF	32	ALA
37	BF	33	SER
37	BF	34	LEU
37	BF	39	VAL
37	BF	44	ALA
37	BF	47	PHE
37	BF	52	VAL
37	BF	53	VAL
37	BF	68	PRO
37	BF	70	LYS
37	BF	71	VAL
37	BF	85	ILE
37	BF	86	ALA
37	BF	90	LYS
37	BF	92	SER
37	BF	93	VAL
37	BF	99	GLU
37	BF	106	PHE
37	BF	109	GLU
37	BF	110	LYS
37	BF	116	LYS
37	BF	118	GLU
37	BF	121	LEU
37	BF	122	PHE
37	BF	126	GLN
37	BF	137	ASP
37	BF	144	ALA
37	BF	146	ILE
37	BF	150	LYS
37	BF	151	LYS
37	BF	167	ASN

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Mol	Chain	Res	Type
37	BF	172	HIS
37	BF	174	LEU
38	BG	32	ALA
38	BG	49	ALA
38	BG	50	ALA
38	BG	74	SER
38	BG	81	HIS
38	BG	82	LYS
38	BG	84	VAL
38	BG	85	PHE
38	BG	86	VAL
38	BG	96	PRO
38	BG	97	PRO
38	BG	112	ASN
38	BG	136	TYR
38	BG	138	TYR
38	BG	148	VAL
38	BG	149	TYR
38	BG	156	ILE
38	BG	160	ARG
38	BG	162	PRO
38	BG	177	GLY
38	BG	180	SER
38	BG	188	ILE
38	BG	193	PRO
38	BG	195	PHE
38	BG	202	LEU
38	BG	204	PRO
38	BG	206	LYS
38	BG	210	PRO
38	BG	217	PRO
38	BG	223	PHE
38	BG	224	ILE
38	BG	228	SER
38	BG	229	PHE
38	BG	232	ARG
38	BG	233	GLU
38	BG	234	GLU
39	BH	96	LYS
39	BH	98	ARG
39	BH	99	PRO
39	BH	109	LEU

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Mol	Chain	Res	Type
39	BH	110	THR
39	BH	128	LYS
39	BH	131	ALA
39	BH	132	VAL
39	BH	151	VAL
39	BH	181	LYS
39	BH	194	THR
39	BH	201	THR
39	BH	203	VAL
39	BH	209	ALA
39	BH	210	ALA
39	BH	212	ALA
39	BH	214	LEU
39	BH	227	ASP
39	BH	233	TRP
39	BH	238	LEU
39	BH	245	LYS
39	BH	249	ARG
40	BI	2	LYS
40	BI	5	GLN
40	BI	22	SER
40	BI	30	PRO
40	BI	41	ILE
40	BI	43	VAL
40	BI	46	THR
40	BI	53	ILE
40	BI	86	TYR
40	BI	104	VAL
40	BI	110	LYS
40	BI	122	LYS
40	BI	127	PRO
40	BI	138	THR
40	BI	140	VAL
40	BI	141	LYS
40	BI	142	ASP
40	BI	167	VAL
40	BI	169	ASN
40	BI	170	LYS
40	BI	172	ILE
40	BI	186	PHE
40	BI	189	GLU
41	BJ	5	PRO

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Mol	Chain	Res	Type
41	BJ	11	TYR
41	BJ	13	LYS
41	BJ	14	ASN
41	BJ	16	PRO
41	BJ	17	TYR
41	BJ	25	ALA
41	BJ	29	SER
41	BJ	34	TYR
41	BJ	39	LYS
41	BJ	43	VAL
41	BJ	46	PHE
41	BJ	48	LEU
41	BJ	57	LEU
41	BJ	61	SER
41	BJ	70	ILE
41	BJ	92	HIS
41	BJ	115	MET
41	BJ	136	PHE
41	BJ	145	LYS
41	BJ	147	VAL
41	BJ	160	PRO
41	BJ	162	GLN
41	BJ	169	LYS
41	BJ	178	ARG
41	BJ	190	VAL
41	BJ	201	SER
41	BJ	208	ASN
42	BK	8	PRO
42	BK	15	GLU
42	BK	18	VAL
42	BK	23	VAL
42	BK	32	ARG
42	BK	34	SER
42	BK	45	PRO
42	BK	47	GLN
42	BK	49	LYS
42	BK	50	ALA
42	BK	52	TYR
42	BK	54	VAL
42	BK	55	ARG
42	BK	56	THR
42	BK	62	ASN

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Mol	Chain	Res	Type
42	BK	65	ILE
42	BK	66	ALA
42	BK	69	VAL
42	BK	76	ALA
42	BK	85	LYS
42	BK	86	VAL
42	BK	88	GLU
42	BK	102	PHE
42	BK	108	GLU
42	BK	110	ILE
42	BK	115	LYS
42	BK	118	PRO
42	BK	120	ILE
42	BK	122	ILE
42	BK	129	VAL
42	BK	132	ASN
42	BK	133	ARG
42	BK	134	PRO
42	BK	143	ARG
42	BK	148	VAL
42	BK	154	THR
43	BN	10	SER
43	BN	15	VAL
43	BN	19	ARG
43	BN	20	VAL
43	BN	23	ILE
43	BN	24	LYS
43	BN	25	LYS
43	BN	27	GLN
43	BN	29	ALA
43	BN	43	LYS
43	BN	54	PRO
43	BN	55	ARG
43	BN	59	ASN
43	BN	60	LEU
43	BN	62	GLN
43	BN	63	VAL
43	BN	64	VAL
43	BN	66	THR
43	BN	67	PRO
43	BN	70	PHE
43	BN	81	VAL

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Mol	Chain	Res	Type
43	BN	82	SER
43	BN	90	VAL
43	BN	103	ILE
43	BN	111	ALA
43	BN	126	GLN
43	BN	127	LYS
44	BO	17	ASP
44	BO	30	TYR
44	BO	35	VAL
44	BO	39	ALA
44	BO	42	PRO
44	BO	46	ASP
44	BO	53	TYR
44	BO	54	LYS
44	BO	55	ALA
44	BO	60	VAL
44	BO	75	VAL
44	BO	76	PRO
44	BO	79	ALA
44	BO	80	THR
44	BO	83	LYS
44	BO	84	PRO
44	BO	96	ARG
44	BO	97	SER
44	BO	98	LEU
44	BO	121	VAL
44	BO	127	TYR
44	BO	136	ASP
44	BO	156	HIS
44	BO	161	ALA
45	BP	5	PRO
45	BP	12	LYS
45	BP	16	VAL
45	BP	23	VAL
45	BP	37	ARG
45	BP	38	ALA
45	BP	61	ALA
45	BP	66	LYS
45	BP	70	PRO
45	BP	75	ALA
45	BP	76	PRO
45	BP	83	ALA

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Mol	Chain	Res	Type
45	BP	100	GLU
45	BP	108	ILE
45	BP	109	PRO
45	BP	110	PRO
45	BP	112	TYR
45	BP	115	LYS
45	BP	120	VAL
45	BP	121	PRO
45	BP	125	ARG
45	BP	126	VAL
45	BP	128	ARG
45	BP	131	PRO
45	BP	134	LYS
45	BP	147	TRP
45	BP	188	SER
46	BQ	9	THR
46	BQ	10	ASN
46	BQ	12	ALA
46	BQ	20	SER
46	BQ	30	ARG
46	BQ	33	ALA
46	BQ	52	LEU
46	BQ	56	ARG
46	BQ	69	ARG
46	BQ	71	ALA
46	BQ	75	GLU
46	BQ	83	TRP
46	BQ	84	PRO
46	BQ	106	GLY
46	BQ	110	THR
46	BQ	114	VAL
46	BQ	118	GLN
46	BQ	122	ALA
46	BQ	123	PRO
46	BQ	142	SER
47	BR	18	ALA
47	BR	19	PRO
47	BR	22	ASP
47	BR	39	ARG
47	BR	42	ALA
47	BR	43	PRO
47	BR	60	PRO

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Mol	Chain	Res	Type
47	BR	61	PRO
47	BR	76	ALA
47	BR	93	ILE
47	BR	94	PHE
47	BR	97	PRO
47	BR	103	ALA
47	BR	104	LEU
47	BR	108	ALA
47	BR	110	ALA
47	BR	111	ARG
47	BR	112	ALA
47	BR	117	ALA
47	BR	123	THR
47	BR	143	PRO
47	BR	145	ASN
47	BR	153	PHE
48	BS	19	LYS
48	BS	60	LYS
48	BS	104	ARG
48	BS	106	LEU
48	BS	130	ASN
48	BS	133	LYS
48	BS	134	HIS
48	BS	135	LYS
48	BS	143	ILE
49	BT	9	SER
49	BT	15	PHE
49	BT	16	GLN
49	BT	31	LEU
49	BT	32	LYS
49	BT	34	TYR
49	BT	35	LYS
49	BT	43	LYS
49	BT	46	GLY
49	BT	49	GLN
49	BT	54	HIS
49	BT	64	VAL
49	BT	66	ASN
49	BT	67	VAL
49	BT	69	LYS
49	BT	70	SER
49	BT	75	ILE

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Mol	Chain	Res	Type
49	BT	76	ILE
49	BT	79	MET
49	BT	81	GLY
49	BT	85	LEU
49	BT	98	HIS
49	BT	110	LYS
50	BU	19	VAL
50	BU	31	ALA
50	BU	40	LYS
50	BU	46	LEU
50	BU	47	ASN
50	BU	66	LYS
50	BU	81	GLN
50	BU	94	TYR
50	BU	95	PHE
50	BU	97	ASP
50	BU	105	PRO
50	BU	112	SER
50	BU	131	SER
50	BU	134	GLY
50	BU	135	VAL
51	BV	3	VAL
51	BV	4	GLU
51	BV	5	ILE
51	BV	6	ASP
51	BV	8	PHE
51	BV	22	VAL
51	BV	23	ARG
51	BV	25	ASP
51	BV	28	ILE
51	BV	29	PHE
51	BV	33	ASN
51	BV	34	SER
51	BV	52	THR
51	BV	57	LYS
52	BW	49	LYS
52	BW	51	VAL
52	BW	52	PRO
52	BW	53	HIS
52	BW	58	ASP
52	BW	61	LYS
52	BW	62	VAL

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Mol	Chain	Res	Type
52	BW	64	GLU
52	BW	66	PRO
52	BW	67	ILE
52	BW	70	GLU
52	BW	84	PHE
52	BW	102	LEU
52	BW	106	ASP
52	BW	129	ASP
52	BW	130	TYR
53	BX	19	TYR
53	BX	20	PHE
53	BX	58	VAL
53	BX	59	VAL
53	BX	79	ALA
53	BX	100	HIS
53	BX	101	PRO
54	BY	2	PRO
54	BY	3	SER
54	BY	9	ARG
54	BY	10	LYS
54	BY	12	ARG
54	BY	21	ARG
54	BY	22	ILE
54	BY	27	LYS
54	BY	30	GLY
54	BY	34	MET
54	BY	36	GLY
54	BY	40	HIS
54	BY	43	ILE
54	BY	44	ASN
54	BY	50	PRO
54	BY	56	VAL
54	BY	60	TYR
54	BY	61	PHE
54	BY	69	TRP
54	BY	74	ASN
54	BY	78	LEU
54	BY	79	TRP
54	BY	85	ASP
54	BY	88	ASP
54	BY	90	TYR
54	BY	91	LEU

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Mol	Chain	Res	Type
54	BY	94	ALA
54	BY	98	THR
54	BY	102	ILE
54	BY	112	ILE
54	BY	114	GLY
54	BY	117	ARG
54	BY	118	ILE
54	BY	119	PRO
54	BY	130	VAL
54	BY	132	LYS
54	BY	148	ILE
55	BZ	27	TYR
55	BZ	63	SER
55	BZ	83	LYS
55	BZ	86	ARG
55	BZ	89	VAL
56	Ba	6	ASP
56	Ba	7	VAL
56	Ba	14	ILE
56	Ba	15	ASN
56	Ba	16	LEU
56	Ba	25	PHE
56	Ba	29	ALA
56	Ba	44	MET
56	Ba	47	ASP
56	Ba	59	ILE
56	Ba	60	TRP
56	Ba	61	LYS
56	Ba	79	ARG
56	Ba	85	ALA
57	Bb	6	HIS
57	Bb	7	PRO
57	Bb	12	LYS
57	Bb	20	HIS
57	Bb	22	SER
57	Bb	30	GLU
57	Bb	33	ARG
57	Bb	50	ILE
57	Bb	52	GLN
57	Bb	53	PRO
57	Bb	55	ILE
57	Bb	56	GLY

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Mol	Chain	Res	Type
57	Bb	61	LYS
57	Bb	64	LYS
57	Bb	68	PRO
57	Bb	69	SER
57	Bb	79	VAL
57	Bb	84	THR
57	Bb	96	ILE
57	Bb	101	SER
57	Bb	109	LEU
57	Bb	110	ALA
57	Bb	121	ASN
58	Bc	18	ALA
58	Bc	38	ARG
58	Bc	40	SER
59	Bd	5	THR
59	Bd	8	PHE
59	Bd	28	HIS
59	Bd	29	VAL
59	Bd	35	SER
59	Bd	42	ALA
59	Bd	47	TYR
59	Bd	64	MET
59	Bd	65	ARG
59	Bd	67	LEU
59	Bd	68	LYS
59	Bd	71	SER
60	Be	27	ILE
60	Be	44	TRP
60	Be	45	ARG
61	Bf	5	PRO
61	Bf	13	LYS
61	Bf	34	SER
61	Bf	47	GLN
61	Bf	53	GLN
61	Bf	66	LYS
61	Bf	93	LEU
62	Bg	16	VAL
62	Bg	18	TYR
62	Bg	34	HIS
62	Bg	35	ALA
62	Bg	37	TYR
62	Bg	48	LYS

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Mol	Chain	Res	Type
62	Bg	49	ARG
62	Bg	53	GLY
62	Bg	54	ILE
62	Bg	55	TRP
62	Bg	71	VAL
62	Bg	81	SER
62	Bg	83	ILE
2	CA	11	PRO
2	CA	13	ASP
2	CA	14	ALA
2	CA	24	LEU
2	CA	36	TYR
2	CA	40	ALA
2	CA	41	ARG
2	CA	42	PRO
2	CA	43	ASP
2	CA	45	VAL
2	CA	49	ASN
2	CA	65	ALA
2	CA	70	PRO
2	CA	71	GLU
2	CA	89	PHE
2	CA	94	GLY
2	CA	97	PRO
2	CA	113	ARG
2	CA	117	GLU
2	CA	118	PRO
2	CA	126	PRO
2	CA	140	ASN
2	CA	143	VAL
2	CA	159	ALA
2	CA	161	PRO
2	CA	163	ASN
2	CA	172	LEU
2	CA	193	GLN
2	CA	194	PRO
2	CA	202	TYR
2	CA	204	TYR
2	CA	220	THR
3	CB	37	PRO
3	CB	59	HIS
3	CB	62	PRO

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Mol	Chain	Res	Type
3	CB	63	VAL
3	CB	66	PHE
3	CB	68	ILE
3	CB	73	LEU
3	CB	74	PRO
3	CB	84	LYS
3	CB	85	PRO
3	CB	125	ILE
3	CB	126	ARG
3	CB	133	LYS
3	CB	135	SER
3	CB	136	VAL
3	CB	139	ILE
3	CB	140	ARG
3	CB	143	TYR
3	CB	147	ASN
3	CB	151	PRO
3	CB	159	THR
3	CB	161	LYS
3	CB	164	SER
3	CB	165	VAL
3	CB	166	THR
3	CB	186	LYS
3	CB	189	GLN
3	CB	193	VAL
3	CB	196	VAL
3	CB	204	THR
3	CB	209	ASN
3	CB	220	ASN
3	CB	225	LEU
3	CB	234	PRO
3	CB	235	LEU
3	CB	236	PRO
3	CB	237	VAL
3	CB	238	SER
3	CB	239	PRO
3	CB	243	TYR
4	CC	8	LYS
4	CC	9	ARG
4	CC	16	VAL
4	CC	17	PHE
4	CC	22	ASN

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Mol	Chain	Res	Type
4	CC	28	GLU
4	CC	37	VAL
4	CC	43	PRO
4	CC	66	ILE
4	CC	69	LEU
4	CC	70	THR
4	CC	74	GLN
4	CC	76	ARG
4	CC	79	TYR
4	CC	80	ALA
4	CC	81	PRO
4	CC	94	ARG
4	CC	96	LEU
4	CC	100	ALA
4	CC	131	ALA
4	CC	136	VAL
4	CC	145	ALA
4	CC	152	PHE
4	CC	157	LEU
4	CC	162	GLN
4	CC	163	PRO
4	CC	167	PHE
4	CC	168	ILE
4	CC	174	HIS
4	CC	175	VAL
4	CC	193	ALA
5	CD	40	ILE
5	CD	42	LEU
5	CD	47	SER
5	CD	56	ALA
5	CD	57	SER
5	CD	64	VAL
5	CD	65	ARG
5	CD	66	GLN
5	CD	88	PRO
5	CD	89	ILE
5	CD	92	ARG
5	CD	108	LEU
5	CD	129	PRO
5	CD	140	THR
5	CD	160	VAL
5	CD	162	VAL

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Mol	Chain	Res	Type
5	CD	163	SER
5	CD	164	PRO
5	CD	166	ARG
5	CD	167	ARG
5	CD	182	ALA
5	CD	184	PHE
5	CD	187	ILE
5	CD	216	GLU
6	CE	39	LYS
6	CE	41	GLU
6	CE	55	ALA
6	CE	56	ALA
6	CE	64	GLU
6	CE	66	ASP
6	CE	67	PRO
6	CE	81	VAL
6	CE	82	ARG
6	CE	83	VAL
6	CE	99	LEU
6	CE	100	LYS
6	CE	106	GLU
6	CE	112	GLN
6	CE	121	SER
6	CE	122	VAL
6	CE	124	HIS
6	CE	130	THR
6	CE	131	GLN
6	CE	132	ARG
6	CE	140	ILE
6	CE	141	VAL
6	CE	143	ILE
6	CE	152	SER
6	CE	153	GLU
6	CE	169	PRO
6	CE	174	ARG
7	CF	70	ILE
7	CF	80	MET
7	CF	83	THR
7	CF	86	ILE
7	CF	90	TYR
7	CF	94	ILE
7	CF	95	PRO

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Mol	Chain	Res	Type
7	CF	98	ASN
7	CF	111	VAL
7	CF	112	SER
7	CF	113	PRO
7	CF	125	VAL
7	CF	130	PRO
7	CF	133	LYS
8	CG	46	THR
8	CG	47	PRO
8	CG	50	ILE
8	CG	58	HIS
8	CG	62	GLN
8	CG	65	VAL
8	CG	69	ASN
8	CG	71	ILE
8	CG	82	PRO
8	CG	84	ILE
8	CG	85	PRO
8	CG	86	GLU
8	CG	126	ALA
8	CG	132	VAL
8	CG	135	LEU
8	CG	136	PRO
8	CG	137	PRO
9	CH	4	VAL
9	CH	23	PHE
9	CH	26	THR
9	CH	40	ALA
9	CH	42	VAL
9	CH	43	THR
9	CH	50	ALA
9	CH	65	GLN
9	CH	67	VAL
9	CH	79	VAL
9	CH	94	PRO
9	CH	96	PRO
9	CH	101	ALA
9	CH	122	PRO
10	CI	11	VAL
10	CI	13	LYS
10	CI	23	GLU
10	CI	34	VAL

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Mol	Chain	Res	Type
10	CI	38	PRO
10	CI	45	PHE
10	CI	51	SER
10	CI	53	PRO
10	CI	61	ARG
10	CI	68	PRO
10	CI	73	PRO
10	CI	75	PRO
10	CI	80	MET
10	CI	85	ILE
10	CI	86	VAL
10	CI	121	ILE
10	CI	125	PRO
11	CJ	34	SER
11	CJ	35	PRO
11	CJ	36	ILE
11	CJ	38	LEU
11	CJ	42	GLU
11	CJ	57	LEU
11	CJ	61	SER
11	CJ	63	ILE
11	CJ	70	THR
11	CJ	85	ILE
11	CJ	90	VAL
11	CJ	97	VAL
11	CJ	105	LEU
11	CJ	118	ILE
11	CJ	126	PRO
12	CK	22	PRO
12	CK	26	LEU
12	CK	29	GLN
12	CK	38	ILE
12	CK	39	ALA
12	CK	44	LYS
12	CK	60	ARG
12	CK	65	PRO
12	CK	69	ILE
13	CL	18	LEU
13	CL	27	LYS
13	CL	47	CYS
13	CL	65	GLU
13	CL	66	LEU

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Mol	Chain	Res	Type
13	CL	71	GLN
13	CL	72	ILE
13	CL	74	GLN
13	CL	75	ASN
13	CL	79	TYR
13	CL	80	LYS
13	CL	81	ILE
13	CL	98	TYR
13	CL	99	HIS
13	CL	102	ALA
13	CL	117	LYS
13	CL	118	LYS
14	CM	2	PRO
14	CM	8	ASP
14	CM	9	VAL
14	CM	25	GLN
14	CM	28	LEU
14	CM	29	GLU
14	CM	36	ILE
14	CM	68	ARG
14	CM	103	LYS
14	CM	110	LYS
14	CM	111	ILE
14	CM	113	ILE
14	CM	119	LYS
14	CM	125	SER
14	CM	126	GLU
14	CM	127	ASN
14	CM	129	GLN
15	CN	14	GLN
15	CN	15	GLN
15	CN	24	ILE
15	CN	31	VAL
15	CN	45	ALA
15	CN	50	LEU
15	CN	55	PRO
15	CN	59	PRO
15	CN	72	ASN
15	CN	76	SER
15	CN	84	MET
15	CN	93	LEU
15	CN	96	PRO

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Mol	Chain	Res	Type
15	CN	108	ILE
15	CN	117	VAL
16	CO	5	SER
16	CO	24	GLN
16	CO	27	ILE
16	CO	28	ARG
16	CO	29	PRO
16	CO	30	SER
16	CO	31	SER
16	CO	38	LEU
16	CO	63	VAL
16	CO	76	SER
16	CO	77	PRO
16	CO	79	PHE
16	CO	85	ASP
16	CO	86	ILE
16	CO	95	PRO
16	CO	97	ARG
16	CO	99	PHE
16	CO	103	ILE
16	CO	106	THR
16	CO	118	ARG
16	CO	120	HIS
16	CO	126	LEU
17	CP	32	ARG
17	CP	33	LEU
17	CP	48	HIS
17	CP	49	ALA
17	CP	59	ILE
17	CP	64	PRO
17	CP	78	LYS
17	CP	87	VAL
17	CP	90	ASP
17	CP	104	LEU
17	CP	105	ALA
17	CP	108	GLY
17	CP	119	GLY
17	CP	124	VAL
17	CP	127	VAL
17	CP	130	VAL
17	CP	135	LEU
17	CP	138	GLU

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Mol	Chain	Res	Type
18	CQ	57	TYR
18	CQ	71	ILE
18	CQ	85	LYS
18	CQ	88	ILE
18	CQ	90	LYS
18	CQ	91	PRO
18	CQ	97	LYS
19	CR	10	ALA
19	CR	14	LYS
19	CR	15	VAL
19	CR	34	GLU
19	CR	39	THR
19	CR	44	VAL
20	CS	20	GLN
20	CS	24	CYS
20	CS	26	SER
20	CS	34	TYR
20	CS	40	ARG
20	CS	43	PHE
20	CS	48	ASN
20	CS	52	PHE
21	CT	2	ALA
21	CT	48	THR
21	CT	66	HIS
21	CT	100	TYR
21	CT	119	ALA
21	CT	189	GLU
21	CT	195	HIS
21	CT	198	ASN
21	CT	231	MET
21	CT	237	GLN
21	CT	241	PHE
21	CT	269	TYR
21	CT	270	LEU
21	CT	281	TYR
21	CT	295	SER
32	DA	28	PHE
32	DA	31	THR
32	DA	36	VAL
32	DA	41	TYR
32	DA	43	PRO
32	DA	56	PRO

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Mol	Chain	Res	Type
32	DA	57	ASN
32	DA	60	ARG
32	DA	111	ILE
32	DA	120	VAL
32	DA	121	PRO
32	DA	131	ALA
32	DA	134	PHE
32	DA	138	VAL
32	DA	142	ASP
32	DA	153	SER
32	DA	167	VAL
32	DA	169	VAL
32	DA	171	ASN
32	DA	173	GLU
32	DA	201	VAL
32	DA	205	VAL
32	DA	212	PRO
33	DB	5	ILE
33	DB	9	ARG
33	DB	13	GLY
33	DB	14	SER
33	DB	16	PHE
33	DB	24	GLN
33	DB	26	ALA
33	DB	38	HIS
33	DB	50	HIS
33	DB	61	VAL
33	DB	65	ASP
33	DB	79	ASN
33	DB	83	HIS
33	DB	84	THR
33	DB	90	ALA
33	DB	92	LYS
33	DB	98	VAL
33	DB	107	VAL
33	DB	108	PRO
33	DB	110	GLY
33	DB	111	THR
33	DB	120	PRO
33	DB	137	ILE
33	DB	139	HIS
33	DB	141	PRO

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Mol	Chain	Res	Type
33	DB	149	ARG
33	DB	152	SER
33	DB	157	VAL
33	DB	163	ARG
33	DB	166	ILE
33	DB	176	ASP
33	DB	178	PRO
33	DB	182	ALA
33	DB	188	LYS
33	DB	197	PRO
33	DB	199	THR
33	DB	208	ASP
33	DB	210	PRO
33	DB	211	HIS
33	DB	216	HIS
33	DB	217	GLN
33	DB	219	ILE
33	DB	222	ALA
33	DB	230	VAL
33	DB	233	GLN
33	DB	234	LYS
33	DB	235	ALA
33	DB	237	LEU
33	DB	241	ARG
33	DB	242	ARG
33	DB	243	THR
34	DC	21	ARG
34	DC	23	ALA
34	DC	40	PRO
34	DC	41	VAL
34	DC	42	ALA
34	DC	43	LEU
34	DC	44	THR
34	DC	47	LEU
34	DC	51	ALA
34	DC	61	ASP
34	DC	63	PRO
34	DC	71	GLU
34	DC	81	THR
34	DC	82	PRO
34	DC	83	PRO
34	DC	86	VAL

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Mol	Chain	Res	Type
34	DC	89	VAL
34	DC	93	VAL
34	DC	94	GLU
34	DC	97	ARG
34	DC	105	VAL
34	DC	106	TRP
34	DC	109	HIS
34	DC	110	LEU
34	DC	113	GLU
34	DC	117	ARG
34	DC	122	TRP
34	DC	123	TYR
34	DC	131	THR
34	DC	132	LYS
34	DC	137	TYR
34	DC	139	GLN
34	DC	143	GLY
34	DC	153	LYS
34	DC	157	VAL
34	DC	158	VAL
34	DC	160	VAL
34	DC	165	GLN
34	DC	166	ILE
34	DC	167	ARG
34	DC	170	PRO
34	DC	173	GLN
34	DC	174	LYS
34	DC	175	LYS
34	DC	176	ALA
34	DC	179	ALA
34	DC	181	ILE
34	DC	187	SER
34	DC	188	ILE
34	DC	197	GLU
34	DC	199	PHE
34	DC	200	GLU
34	DC	209	PHE
34	DC	220	VAL
34	DC	221	THR
34	DC	238	LEU
34	DC	239	PRO
34	DC	244	ARG

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Mol	Chain	Res	Type
34	DC	248	LYS
34	DC	251	CYS
34	DC	259	HIS
34	DC	261	MET
34	DC	264	VAL
34	DC	270	ARG
34	DC	272	TYR
34	DC	274	SER
34	DC	279	ASN
34	DC	284	ARG
34	DC	286	GLY
34	DC	296	THR
34	DC	301	THR
34	DC	303	LYS
34	DC	306	THR
34	DC	307	PRO
34	DC	317	ILE
34	DC	318	LYS
34	DC	320	ASP
34	DC	324	VAL
34	DC	327	CYS
34	DC	331	ASN
34	DC	333	LYS
34	DC	335	ILE
34	DC	340	LYS
34	DC	346	THR
34	DC	351	LEU
34	DC	359	ILE
35	DD	19	ALA
35	DD	21	PRO
35	DD	23	PRO
35	DD	28	ALA
35	DD	54	GLU
35	DD	69	ARG
35	DD	77	VAL
35	DD	90	PHE
35	DD	100	PHE
35	DD	102	PRO
35	DD	107	ARG
35	DD	116	ASN
35	DD	131	VAL
35	DD	140	HIS

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Mol	Chain	Res	Type
35	DD	149	PRO
35	DD	150	LEU
35	DD	154	THR
35	DD	159	ILE
35	DD	166	VAL
35	DD	182	LEU
35	DD	194	TYR
35	DD	239	ALA
35	DD	252	GLU
35	DD	254	ALA
35	DD	257	LYS
35	DD	258	LEU
35	DD	261	VAL
35	DD	266	THR
35	DD	267	VAL
36	DE	12	TYR
36	DE	13	SER
36	DE	17	GLN
36	DE	18	THR
36	DE	19	PRO
36	DE	21	ARG
36	DE	32	GLN
36	DE	42	ALA
36	DE	43	LYS
36	DE	46	THR
36	DE	47	PRO
36	DE	48	LYS
36	DE	49	TYR
36	DE	50	ARG
36	DE	68	THR
36	DE	69	ILE
36	DE	78	ALA
36	DE	83	LEU
36	DE	84	PRO
36	DE	88	ILE
36	DE	101	THR
36	DE	122	VAL
36	DE	139	PRO
36	DE	148	ILE
36	DE	151	GLN
36	DE	159	VAL
36	DE	160	PHE

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Mol	Chain	Res	Type
36	DE	171	LEU
36	DE	174	PRO
36	DE	178	ASN
36	DE	185	PHE
36	DE	191	ASP
36	DE	200	PHE
36	DE	211	LEU
36	DE	214	ASP
36	DE	231	ILE
36	DE	234	ASP
36	DE	235	SER
36	DE	238	ASP
36	DE	239	ILE
36	DE	242	SER
36	DE	246	ALA
36	DE	256	THR
36	DE	271	LYS
36	DE	293	LEU
37	DF	4	GLN
37	DF	6	ALA
37	DF	7	PRO
37	DF	10	TYR
37	DF	11	PRO
37	DF	13	GLU
37	DF	21	THR
37	DF	27	PRO
37	DF	28	GLN
37	DF	32	ALA
37	DF	33	SER
37	DF	34	LEU
37	DF	39	VAL
37	DF	44	ALA
37	DF	47	PHE
37	DF	52	VAL
37	DF	53	VAL
37	DF	58	LEU
37	DF	68	PRO
37	DF	70	LYS
37	DF	71	VAL
37	DF	85	ILE
37	DF	90	LYS
37	DF	92	SER

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Mol	Chain	Res	Type
37	DF	93	VAL
37	DF	99	GLU
37	DF	106	PHE
37	DF	109	GLU
37	DF	110	LYS
37	DF	116	LYS
37	DF	118	GLU
37	DF	122	PHE
37	DF	126	GLN
37	DF	137	ASP
37	DF	144	ALA
37	DF	146	ILE
37	DF	150	LYS
37	DF	151	LYS
37	DF	167	ASN
37	DF	172	HIS
37	DF	174	LEU
38	DG	32	ALA
38	DG	49	ALA
38	DG	50	ALA
38	DG	70	LYS
38	DG	81	HIS
38	DG	82	LYS
38	DG	84	VAL
38	DG	85	PHE
38	DG	86	VAL
38	DG	96	PRO
38	DG	97	PRO
38	DG	112	ASN
38	DG	136	TYR
38	DG	138	TYR
38	DG	148	VAL
38	DG	149	TYR
38	DG	156	ILE
38	DG	160	ARG
38	DG	162	PRO
38	DG	177	GLY
38	DG	180	SER
38	DG	188	ILE
38	DG	193	PRO
38	DG	195	PHE
38	DG	202	LEU

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Mol	Chain	Res	Type
38	DG	204	PRO
38	DG	206	LYS
38	DG	210	PRO
38	DG	217	PRO
38	DG	220	PHE
38	DG	223	PHE
38	DG	224	ILE
38	DG	228	SER
38	DG	229	PHE
38	DG	232	ARG
39	DH	96	LYS
39	DH	99	PRO
39	DH	109	LEU
39	DH	110	THR
39	DH	128	LYS
39	DH	131	ALA
39	DH	132	VAL
39	DH	151	VAL
39	DH	179	ILE
39	DH	181	LYS
39	DH	194	THR
39	DH	201	THR
39	DH	203	VAL
39	DH	210	ALA
39	DH	212	ALA
39	DH	214	LEU
39	DH	227	ASP
39	DH	233	TRP
39	DH	245	LYS
39	DH	249	ARG
40	DI	2	LYS
40	DI	5	GLN
40	DI	22	SER
40	DI	30	PRO
40	DI	41	ILE
40	DI	43	VAL
40	DI	46	THR
40	DI	53	ILE
40	DI	86	TYR
40	DI	104	VAL
40	DI	110	LYS
40	DI	122	LYS

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Mol	Chain	Res	Type
40	DI	127	PRO
40	DI	138	THR
40	DI	140	VAL
40	DI	141	LYS
40	DI	142	ASP
40	DI	167	VAL
40	DI	169	ASN
40	DI	170	LYS
40	DI	171	ASP
40	DI	172	ILE
40	DI	186	PHE
40	DI	189	GLU
41	DJ	5	PRO
41	DJ	11	TYR
41	DJ	13	LYS
41	DJ	14	ASN
41	DJ	16	PRO
41	DJ	17	TYR
41	DJ	25	ALA
41	DJ	29	SER
41	DJ	34	TYR
41	DJ	39	LYS
41	DJ	43	VAL
41	DJ	46	PHE
41	DJ	48	LEU
41	DJ	56	GLU
41	DJ	57	LEU
41	DJ	70	ILE
41	DJ	92	HIS
41	DJ	115	MET
41	DJ	136	PHE
41	DJ	145	LYS
41	DJ	160	PRO
41	DJ	162	GLN
41	DJ	169	LYS
41	DJ	175	ASN
41	DJ	178	ARG
41	DJ	190	VAL
41	DJ	201	SER
41	DJ	208	ASN
42	DK	8	PRO
42	DK	18	VAL

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Mol	Chain	Res	Type
42	DK	23	VAL
42	DK	32	ARG
42	DK	34	SER
42	DK	45	PRO
42	DK	49	LYS
42	DK	50	ALA
42	DK	54	VAL
42	DK	55	ARG
42	DK	56	THR
42	DK	62	ASN
42	DK	65	ILE
42	DK	66	ALA
42	DK	69	VAL
42	DK	76	ALA
42	DK	77	GLU
42	DK	82	ARG
42	DK	85	LYS
42	DK	86	VAL
42	DK	88	GLU
42	DK	102	PHE
42	DK	108	GLU
42	DK	110	ILE
42	DK	115	LYS
42	DK	118	PRO
42	DK	120	ILE
42	DK	122	ILE
42	DK	129	VAL
42	DK	132	ASN
42	DK	133	ARG
42	DK	134	PRO
42	DK	143	ARG
42	DK	148	VAL
42	DK	154	THR
72	DL	10	VAL
72	DL	17	ALA
72	DL	18	VAL
72	DL	25	SER
72	DL	31	LYS
72	DL	35	LEU
72	DL	38	SER
72	DL	39	PRO
72	DL	49	ALA

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Mol	Chain	Res	Type
72	DL	56	ILE
72	DL	58	VAL
72	DL	75	PRO
72	DL	77	ALA
72	DL	78	SER
72	DL	88	PRO
72	DL	90	ARG
72	DL	104	ILE
72	DL	106	LEU
72	DL	112	ILE
72	DL	113	ALA
72	DL	124	THR
72	DL	141	CYS
73	DM	28	VAL
73	DM	30	VAL
73	DM	32	ASN
73	DM	33	VAL
73	DM	34	SER
73	DM	46	ARG
73	DM	60	ARG
73	DM	62	ALA
73	DM	70	LEU
73	DM	76	LEU
73	DM	77	LEU
73	DM	86	PHE
73	DM	91	GLU
73	DM	92	PRO
73	DM	100	ILE
73	DM	102	SER
73	DM	187	VAL
73	DM	188	VAL
73	DM	189	GLN
73	DM	191	TYR
73	DM	192	ASP
73	DM	198	PRO
43	DN	10	SER
43	DN	15	VAL
43	DN	19	ARG
43	DN	20	VAL
43	DN	23	ILE
43	DN	24	LYS
43	DN	25	LYS

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Mol	Chain	Res	Type
43	DN	27	GLN
43	DN	29	ALA
43	DN	32	LEU
43	DN	43	LYS
43	DN	44	VAL
43	DN	54	PRO
43	DN	55	ARG
43	DN	60	LEU
43	DN	62	GLN
43	DN	63	VAL
43	DN	64	VAL
43	DN	66	THR
43	DN	67	PRO
43	DN	70	PHE
43	DN	74	ARG
43	DN	81	VAL
43	DN	82	SER
43	DN	90	VAL
43	DN	103	ILE
43	DN	111	ALA
43	DN	126	GLN
43	DN	127	LYS
44	DO	17	ASP
44	DO	30	TYR
44	DO	35	VAL
44	DO	39	ALA
44	DO	42	PRO
44	DO	46	ASP
44	DO	53	TYR
44	DO	54	LYS
44	DO	55	ALA
44	DO	60	VAL
44	DO	75	VAL
44	DO	76	PRO
44	DO	79	ALA
44	DO	83	LYS
44	DO	84	PRO
44	DO	96	ARG
44	DO	97	SER
44	DO	98	LEU
44	DO	121	VAL
44	DO	127	TYR

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Mol	Chain	Res	Type
44	DO	136	ASP
44	DO	156	HIS
44	DO	160	GLU
44	DO	161	ALA
45	DP	5	PRO
45	DP	12	LYS
45	DP	19	LEU
45	DP	37	ARG
45	DP	61	ALA
45	DP	66	LYS
45	DP	69	GLY
45	DP	70	PRO
45	DP	75	ALA
45	DP	76	PRO
45	DP	77	SER
45	DP	100	GLU
45	DP	108	ILE
45	DP	109	PRO
45	DP	110	PRO
45	DP	112	TYR
45	DP	115	LYS
45	DP	116	LYS
45	DP	120	VAL
45	DP	121	PRO
45	DP	125	ARG
45	DP	126	VAL
45	DP	128	ARG
45	DP	131	PRO
45	DP	134	LYS
45	DP	138	LEU
45	DP	147	TRP
45	DP	188	SER
46	DQ	9	THR
46	DQ	10	ASN
46	DQ	12	ALA
46	DQ	20	SER
46	DQ	30	ARG
46	DQ	31	GLU
46	DQ	33	ALA
46	DQ	48	LEU
46	DQ	52	LEU
46	DQ	56	ARG

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Mol	Chain	Res	Type
46	DQ	69	ARG
46	DQ	71	ALA
46	DQ	75	GLU
46	DQ	83	TRP
46	DQ	84	PRO
46	DQ	106	GLY
46	DQ	110	THR
46	DQ	114	VAL
46	DQ	118	GLN
46	DQ	122	ALA
46	DQ	123	PRO
46	DQ	142	SER
47	DR	18	ALA
47	DR	19	PRO
47	DR	22	ASP
47	DR	39	ARG
47	DR	42	ALA
47	DR	43	PRO
47	DR	60	PRO
47	DR	61	PRO
47	DR	76	ALA
47	DR	93	ILE
47	DR	97	PRO
47	DR	103	ALA
47	DR	104	LEU
47	DR	108	ALA
47	DR	110	ALA
47	DR	111	ARG
47	DR	112	ALA
47	DR	117	ALA
47	DR	123	THR
47	DR	143	PRO
47	DR	145	ASN
47	DR	146	SER
47	DR	153	PHE
48	DS	3	ASN
48	DS	12	ALA
48	DS	19	LYS
48	DS	130	ASN
48	DS	133	LYS
48	DS	134	HIS
48	DS	143	ILE

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Mol	Chain	Res	Type
49	DT	16	GLN
49	DT	31	LEU
49	DT	32	LYS
49	DT	34	TYR
49	DT	35	LYS
49	DT	49	GLN
49	DT	54	HIS
49	DT	64	VAL
49	DT	66	ASN
49	DT	67	VAL
49	DT	70	SER
49	DT	75	ILE
49	DT	76	ILE
49	DT	79	MET
49	DT	81	GLY
49	DT	85	LEU
49	DT	98	HIS
49	DT	99	SER
49	DT	110	LYS
50	DU	19	VAL
50	DU	40	LYS
50	DU	46	LEU
50	DU	47	ASN
50	DU	54	LEU
50	DU	66	LYS
50	DU	80	ARG
50	DU	81	GLN
50	DU	82	ALA
50	DU	94	TYR
50	DU	95	PHE
50	DU	97	ASP
50	DU	98	ASN
50	DU	112	SER
50	DU	131	SER
50	DU	134	GLY
50	DU	135	VAL
51	DV	4	GLU
51	DV	5	ILE
51	DV	6	ASP
51	DV	8	PHE
51	DV	22	VAL
51	DV	23	ARG

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Mol	Chain	Res	Type
51	DV	25	ASP
51	DV	28	ILE
51	DV	29	PHE
51	DV	33	ASN
51	DV	34	SER
51	DV	35	LYS
51	DV	52	THR
51	DV	57	LYS
52	DW	51	VAL
52	DW	52	PRO
52	DW	53	HIS
52	DW	58	ASP
52	DW	60	TYR
52	DW	61	LYS
52	DW	62	VAL
52	DW	64	GLU
52	DW	66	PRO
52	DW	67	ILE
52	DW	70	GLU
52	DW	84	PHE
52	DW	102	LEU
52	DW	104	GLU
52	DW	106	ASP
52	DW	129	ASP
53	DX	15	ALA
53	DX	19	TYR
53	DX	20	PHE
53	DX	58	VAL
53	DX	59	VAL
53	DX	101	PRO
54	DY	3	SER
54	DY	9	ARG
54	DY	10	LYS
54	DY	12	ARG
54	DY	21	ARG
54	DY	22	ILE
54	DY	27	LYS
54	DY	30	GLY
54	DY	36	GLY
54	DY	40	HIS
54	DY	43	ILE
54	DY	44	ASN

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Mol	Chain	Res	Type
54	DY	50	PRO
54	DY	56	VAL
54	DY	60	TYR
54	DY	61	PHE
54	DY	62	HIS
54	DY	69	TRP
54	DY	74	ASN
54	DY	78	LEU
54	DY	79	TRP
54	DY	85	ASP
54	DY	88	ASP
54	DY	90	TYR
54	DY	91	LEU
54	DY	94	ALA
54	DY	98	THR
54	DY	102	ILE
54	DY	112	ILE
54	DY	114	GLY
54	DY	117	ARG
54	DY	118	ILE
54	DY	119	PRO
54	DY	127	ALA
54	DY	130	VAL
54	DY	132	LYS
54	DY	148	ILE
55	DZ	25	LEU
55	DZ	27	TYR
55	DZ	50	VAL
55	DZ	63	SER
55	DZ	83	LYS
55	DZ	86	ARG
55	DZ	89	VAL
56	Da	6	ASP
56	Da	7	VAL
56	Da	14	ILE
56	Da	15	ASN
56	Da	16	LEU
56	Da	25	PHE
56	Da	29	ALA
56	Da	44	MET
56	Da	47	ASP
56	Da	59	ILE

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Mol	Chain	Res	Type
56	Da	60	TRP
56	Da	79	ARG
56	Da	85	ALA
57	Db	6	HIS
57	Db	7	PRO
57	Db	20	HIS
57	Db	22	SER
57	Db	24	ARG
57	Db	30	GLU
57	Db	33	ARG
57	Db	50	ILE
57	Db	52	GLN
57	Db	53	PRO
57	Db	56	GLY
57	Db	61	LYS
57	Db	64	LYS
57	Db	68	PRO
57	Db	69	SER
57	Db	79	VAL
57	Db	96	ILE
57	Db	101	SER
57	Db	109	LEU
57	Db	110	ALA
57	Db	121	ASN
58	Dc	11	THR
58	Dc	38	ARG
58	Dc	40	SER
59	Dd	5	THR
59	Dd	38	GLY
59	Dd	42	ALA
59	Dd	47	TYR
59	Dd	64	MET
59	Dd	65	ARG
59	Dd	67	LEU
59	Dd	68	LYS
59	Dd	71	SER
60	De	27	ILE
60	De	33	ASN
60	De	35	ILE
60	De	45	ARG
61	Df	5	PRO
61	Df	9	LYS

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Mol	Chain	Res	Type
61	Df	13	LYS
61	Df	34	SER
61	Df	53	GLN
61	Df	66	LYS
61	Df	88	CYS
61	Df	93	LEU
62	Dg	16	VAL
62	Dg	18	TYR
62	Dg	34	HIS
62	Dg	35	ALA
62	Dg	37	TYR
62	Dg	48	LYS
62	Dg	49	ARG
62	Dg	53	GLY
62	Dg	55	TRP
62	Dg	66	GLY
62	Dg	81	SER
62	Dg	82	THR
62	Dg	83	ILE
2	AA	26	ALA
2	AA	85	ALA
2	AA	89	PHE
2	AA	116	LYS
2	AA	128	SER
2	AA	131	GLN
2	AA	148	ASP
2	AA	164	ASN
2	AA	171	GLY
2	AA	177	LEU
2	AA	189	VAL
2	AA	192	THR
2	AA	198	MET
2	AA	207	PRO
2	AA	211	GLU
2	AA	212	GLN
3	AB	40	LYS
3	AB	63	VAL
3	AB	69	ILE
3	AB	75	GLY
3	AB	124	ALA
3	AB	127	ALA
3	AB	150	GLN

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Mol	Chain	Res	Type
3	AB	154	LEU
3	AB	161	LYS
3	AB	167	VAL
3	AB	185	LYS
3	AB	186	LYS
3	AB	213	ALA
3	AB	214	ALA
3	AB	224	PHE
4	AC	17	PHE
4	AC	18	TYR
4	AC	55	THR
4	AC	61	GLU
4	AC	65	ARG
4	AC	74	GLN
4	AC	77	PHE
4	AC	95	GLY
4	AC	99	VAL
4	AC	130	GLY
4	AC	142	LEU
4	AC	143	ARG
4	AC	153	ALA
4	AC	159	HIS
4	AC	193	ALA
5	AD	43	PHE
5	AD	56	ALA
5	AD	60	ASP
5	AD	64	VAL
5	AD	89	ILE
5	AD	108	LEU
5	AD	113	ILE
5	AD	122	ASN
5	AD	140	THR
5	AD	144	GLU
5	AD	153	GLY
5	AD	166	ARG
5	AD	167	ARG
5	AD	181	GLU
5	AD	183	ALA
5	AD	197	GLU
5	AD	211	ILE
5	AD	215	ASP
6	AE	38	ASN

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Mol	Chain	Res	Type
6	AE	63	ASP
6	AE	66	ASP
6	AE	88	GLU
6	AE	113	VAL
6	AE	133	HIS
6	AE	137	GLY
6	AE	139	GLN
6	AE	170	GLY
7	AF	96	LYS
7	AF	109	VAL
7	AF	121	ASP
7	AF	127	GLN
8	AG	52	VAL
8	AG	54	LEU
8	AG	58	HIS
8	AG	128	TYR
9	AH	6	GLN
9	AH	19	ILE
9	AH	25	ASP
9	AH	28	VAL
9	AH	45	GLY
9	AH	97	GLY
9	AH	124	ASP
10	AI	22	LEU
10	AI	28	MET
10	AI	32	ASP
10	AI	34	VAL
10	AI	35	LYS
10	AI	45	PHE
10	AI	65	LEU
10	AI	113	GLY
11	AJ	43	ILE
11	AJ	62	ASN
11	AJ	92	TYR
11	AJ	98	ASP
11	AJ	104	GLU
11	AJ	107	LYS
11	AJ	129	PHE
12	AK	33	ARG
12	AK	47	ARG
12	AK	56	HIS
12	AK	63	LYS

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Mol	Chain	Res	Type
12	AK	68	GLY
13	AL	47	CYS
13	AL	84	TRP
13	AL	101	LEU
14	AM	28	LEU
14	AM	29	GLU
14	AM	51	GLU
14	AM	54	PHE
14	AM	58	ALA
14	AM	102	ARG
14	AM	103	LYS
14	AM	121	GLY
14	AM	122	ARG
15	AN	33	GLN
15	AN	37	VAL
15	AN	84	MET
15	AN	116	VAL
16	AO	22	LYS
16	AO	56	HIS
16	AO	62	VAL
16	AO	68	ARG
16	AO	72	CYS
16	AO	113	HIS
17	AP	32	ARG
17	AP	33	LEU
17	AP	41	SER
17	AP	42	PRO
17	AP	100	ASP
17	AP	114	LYS
17	AP	122	PHE
17	AP	129	GLY
17	AP	139	LYS
18	AQ	41	ILE
18	AQ	66	VAL
18	AQ	86	GLU
19	AR	28	VAL
19	AR	29	ARG
19	AR	41	VAL
19	AR	45	LYS
20	AS	16	LYS
20	AS	39	CYS
20	AS	40	ARG

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Mol	Chain	Res	Type
20	AS	44	ARG
20	AS	47	ALA
20	AS	49	ASP
20	AS	52	PHE
21	AT	21	THR
21	AT	28	GLY
21	AT	49	GLY
21	AT	59	ARG
21	AT	95	ALA
21	AT	108	SER
21	AT	112	SER
21	AT	140	CYS
21	AT	149	ASP
21	AT	176	LYS
21	AT	186	PHE
21	AT	188	ILE
21	AT	196	ASN
21	AT	202	LEU
21	AT	203	THR
21	AT	231	MET
21	AT	237	GLN
21	AT	244	ALA
21	AT	270	LEU
21	AT	283	LYS
21	AT	298	GLY
32	BA	25	LYS
32	BA	26	ARG
32	BA	41	TYR
32	BA	44	GLN
32	BA	47	LYS
32	BA	67	ILE
32	BA	77	ALA
32	BA	96	ASN
32	BA	117	ILE
32	BA	123	LEU
32	BA	169	VAL
32	BA	193	LEU
32	BA	194	LEU
32	BA	196	LYS
32	BA	197	ASN
32	BA	204	LEU
32	BA	206	VAL

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Mol	Chain	Res	Type
33	BB	9	ARG
33	BB	19	HIS
33	BB	54	ARG
33	BB	92	LYS
33	BB	103	PRO
33	BB	118	GLU
33	BB	121	GLY
33	BB	122	ASP
33	BB	134	VAL
33	BB	151	PRO
33	BB	163	ARG
33	BB	165	VAL
33	BB	169	ILE
33	BB	171	GLY
33	BB	183	GLY
33	BB	212	GLY
33	BB	216	HIS
33	BB	227	ARG
33	BB	231	SER
34	BC	2	SER
34	BC	7	GLU
34	BC	30	LYS
34	BC	37	ARG
34	BC	45	SER
34	BC	51	ALA
34	BC	69	LYS
34	BC	82	PRO
34	BC	92	TYR
34	BC	101	SER
34	BC	107	ALA
34	BC	134	SER
34	BC	148	LEU
34	BC	157	VAL
34	BC	179	ALA
34	BC	181	ILE
34	BC	194	TRP
34	BC	198	HIS
34	BC	203	VAL
34	BC	208	VAL
34	BC	224	HIS
34	BC	241	LYS
34	BC	251	CYS

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Mol	Chain	Res	Type
34	BC	260	VAL
34	BC	286	GLY
34	BC	294	GLY
34	BC	305	ILE
34	BC	340	LYS
34	BC	343	TYR
34	BC	348	ARG
34	BC	361	THR
35	BD	16	THR
35	BD	33	ASP
35	BD	55	LYS
35	BD	66	GLY
35	BD	68	GLY
35	BD	83	GLY
35	BD	135	VAL
35	BD	154	THR
35	BD	181	VAL
35	BD	189	ALA
35	BD	190	GLY
35	BD	193	LYS
35	BD	204	GLY
35	BD	238	LEU
36	BE	10	SER
36	BE	20	PHE
36	BE	29	ASP
36	BE	40	HIS
36	BE	42	ALA
36	BE	43	LYS
36	BE	45	ASN
36	BE	95	TRP
36	BE	111	GLN
36	BE	120	LYS
36	BE	122	VAL
36	BE	131	LEU
36	BE	140	ARG
36	BE	158	ARG
36	BE	195	LEU
36	BE	209	GLU
36	BE	216	GLU
36	BE	223	PHE
36	BE	227	LEU
36	BE	235	SER

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Mol	Chain	Res	Type
36	BE	240	TYR
36	BE	242	SER
36	BE	249	ALA
36	BE	268	GLU
36	BE	282	ARG
37	BF	18	LEU
37	BF	21	THR
37	BF	58	LEU
37	BF	147	ALA
38	BG	34	LYS
38	BG	70	LYS
38	BG	154	GLY
38	BG	219	LYS
39	BH	86	THR
39	BH	94	PHE
39	BH	100	GLU
39	BH	129	PRO
39	BH	157	VAL
39	BH	179	ILE
39	BH	208	GLU
39	BH	228	GLU
39	BH	229	VAL
39	BH	247	ASP
39	BH	248	LYS
40	BI	48	VAL
40	BI	52	LEU
40	BI	62	ARG
40	BI	64	HIS
40	BI	98	PRO
40	BI	129	ARG
40	BI	162	GLN
40	BI	171	ASP
41	BJ	12	GLN
41	BJ	21	ARG
41	BJ	28	ASP
41	BJ	35	ASP
41	BJ	36	LEU
41	BJ	78	THR
41	BJ	84	ALA
41	BJ	86	HIS
41	BJ	93	PRO
41	BJ	95	HIS

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Mol	Chain	Res	Type
41	BJ	143	SER
41	BJ	175	ASN
41	BJ	177	ASP
41	BJ	185	ARG
41	BJ	189	GLU
41	BJ	196	PHE
41	BJ	207	GLU
42	BK	11	ASP
42	BK	31	THR
42	BK	77	GLU
42	BK	82	ARG
42	BK	83	GLY
42	BK	92	ARG
42	BK	94	ARG
42	BK	112	LEU
42	BK	121	GLY
42	BK	123	PHE
42	BK	127	PHE
42	BK	141	ARG
42	BK	170	ASP
43	BN	32	LEU
43	BN	44	VAL
43	BN	56	GLN
43	BN	65	LEU
43	BN	73	PRO
43	BN	74	ARG
43	BN	77	ARG
43	BN	96	ALA
43	BN	104	ALA
43	BN	107	GLU
43	BN	118	PHE
43	BN	125	LYS
44	BO	16	SER
44	BO	21	PHE
44	BO	33	LYS
44	BO	52	GLY
44	BO	56	LYS
44	BO	78	GLY
44	BO	81	TYR
44	BO	110	ALA
44	BO	120	TRP
44	BO	149	ASN

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Mol	Chain	Res	Type
44	BO	160	GLU
44	BO	164	LEU
44	BO	166	ALA
44	BO	176	LYS
45	BP	6	VAL
45	BP	19	LEU
45	BP	32	LYS
45	BP	58	LEU
45	BP	62	THR
45	BP	69	GLY
45	BP	93	ALA
45	BP	96	LYS
45	BP	116	LYS
45	BP	129	LEU
45	BP	138	LEU
45	BP	163	SER
46	BQ	4	TYR
46	BQ	7	THR
46	BQ	13	LYS
46	BQ	26	PHE
46	BQ	48	LEU
46	BQ	70	THR
46	BQ	78	VAL
46	BQ	105	LYS
46	BQ	109	ALA
46	BQ	111	LYS
46	BQ	112	LEU
46	BQ	126	ARG
46	BQ	133	HIS
46	BQ	154	GLU
47	BR	20	LYS
47	BR	23	ASN
47	BR	24	VAL
47	BR	44	PHE
47	BR	67	ILE
47	BR	87	VAL
47	BR	98	LYS
47	BR	124	LEU
47	BR	127	LEU
47	BR	131	ALA
47	BR	146	SER
47	BR	154	GLY

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Mol	Chain	Res	Type
48	BS	3	ASN
48	BS	55	VAL
48	BS	67	ALA
48	BS	128	LYS
48	BS	140	GLU
49	BT	19	PHE
49	BT	36	VAL
49	BT	48	ILE
49	BT	55	LYS
49	BT	59	GLY
49	BT	72	VAL
49	BT	77	ASN
49	BT	99	SER
50	BU	28	ASN
50	BU	44	SER
50	BU	54	LEU
50	BU	79	VAL
50	BU	80	ARG
50	BU	82	ALA
50	BU	88	ARG
50	BU	98	ASN
50	BU	109	MET
51	BV	2	LYS
51	BV	42	GLN
51	BV	44	LYS
51	BV	53	VAL
52	BW	55	ASN
52	BW	60	TYR
52	BW	86	VAL
52	BW	89	LYS
52	BW	92	LYS
52	BW	95	ILE
52	BW	104	GLU
52	BW	138	ARG
53	BX	15	ALA
53	BX	25	SER
53	BX	50	ILE
53	BX	71	SER
53	BX	83	ASP
53	BX	92	GLY
53	BX	113	LYS
53	BX	116	LYS

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Mol	Chain	Res	Type
54	BY	14	HIS
54	BY	37	GLY
54	BY	53	PHE
54	BY	62	HIS
54	BY	81	LEU
54	BY	127	ALA
54	BY	131	SER
55	BZ	25	LEU
55	BZ	42	ILE
55	BZ	50	VAL
55	BZ	53	LYS
56	Ba	17	HIS
56	Ba	50	ARG
57	Bb	15	LYS
57	Bb	24	ARG
57	Bb	41	VAL
57	Bb	43	ARG
57	Bb	45	ARG
57	Bb	58	GLY
57	Bb	62	LYS
57	Bb	63	THR
57	Bb	89	THR
57	Bb	107	VAL
57	Bb	123	LYS
58	Bc	11	THR
58	Bc	27	GLU
58	Bc	37	SER
59	Bd	7	SER
59	Bd	9	GLY
59	Bd	12	HIS
59	Bd	20	ASN
59	Bd	26	SER
59	Bd	38	GLY
59	Bd	50	GLY
59	Bd	66	TYR
60	Be	26	TRP
60	Be	31	THR
60	Be	33	ASN
60	Be	34	THR
60	Be	35	ILE
61	Bf	6	LYS
61	Bf	9	LYS

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Mol	Chain	Res	Type
61	Bf	11	TYR
61	Bf	21	THR
61	Bf	41	ARG
61	Bf	46	LYS
61	Bf	57	VAL
61	Bf	58	PHE
61	Bf	81	ALA
61	Bf	88	CYS
62	Bg	15	GLY
62	Bg	66	GLY
62	Bg	67	GLY
62	Bg	82	THR
2	CA	12	GLU
2	CA	26	ALA
2	CA	88	LYS
2	CA	116	LYS
2	CA	121	VAL
2	CA	124	THR
2	CA	128	SER
2	CA	131	GLN
2	CA	148	ASP
2	CA	164	ASN
2	CA	171	GLY
2	CA	177	LEU
2	CA	187	ALA
2	CA	189	VAL
2	CA	207	PRO
2	CA	211	GLU
2	CA	212	GLN
3	CB	38	VAL
3	CB	75	GLY
3	CB	98	PHE
3	CB	124	ALA
3	CB	127	ALA
3	CB	134	LEU
3	CB	146	THR
3	CB	154	LEU
3	CB	167	VAL
3	CB	169	LEU
3	CB	185	LYS
3	CB	202	GLY
3	CB	224	PHE

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Mol	Chain	Res	Type
3	CB	228	ASN
3	CB	233	GLN
3	CB	240	LEU
4	CC	18	TYR
4	CC	42	THR
4	CC	55	THR
4	CC	65	ARG
4	CC	77	PHE
4	CC	95	GLY
4	CC	97	SER
4	CC	98	ALA
4	CC	99	VAL
4	CC	115	ILE
4	CC	130	GLY
4	CC	132	LYS
4	CC	142	LEU
4	CC	153	ALA
5	CD	48	PHE
5	CD	58	LEU
5	CD	93	LEU
5	CD	94	THR
5	CD	113	ILE
5	CD	122	ASN
5	CD	135	ASP
5	CD	183	ALA
5	CD	195	ALA
5	CD	197	GLU
6	CE	63	ASP
6	CE	85	VAL
6	CE	88	GLU
6	CE	113	VAL
6	CE	133	HIS
6	CE	137	GLY
6	CE	139	GLN
6	CE	146	PHE
7	CF	96	LYS
7	CF	109	VAL
7	CF	119	VAL
7	CF	121	ASP
7	CF	127	GLN
7	CF	140	VAL
8	CG	54	LEU

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Mol	Chain	Res	Type
8	CG	128	TYR
8	CG	138	ASN
9	CH	3	ASN
9	CH	6	GLN
9	CH	19	ILE
9	CH	25	ASP
9	CH	28	VAL
9	CH	45	GLY
9	CH	64	ALA
9	CH	73	GLU
9	CH	97	GLY
9	CH	124	ASP
9	CH	128	LYS
10	CI	12	PHE
10	CI	18	ARG
10	CI	22	LEU
10	CI	28	MET
10	CI	35	LYS
10	CI	65	LEU
10	CI	70	ASN
10	CI	81	ARG
10	CI	113	GLY
10	CI	116	LEU
11	CJ	43	ILE
11	CJ	62	ASN
11	CJ	74	HIS
11	CJ	82	ARG
11	CJ	92	TYR
11	CJ	104	GLU
11	CJ	106	LYS
11	CJ	110	THR
11	CJ	125	GLU
11	CJ	129	PHE
11	CJ	136	SER
12	CK	56	HIS
12	CK	63	LYS
12	CK	68	GLY
13	CL	44	ASN
13	CL	46	VAL
13	CL	84	TRP
14	CM	4	VAL
14	CM	51	GLU

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Mol	Chain	Res	Type
14	CM	54	PHE
14	CM	58	ALA
14	CM	102	ARG
14	CM	117	SER
15	CN	13	GLU
15	CN	33	GLN
15	CN	37	VAL
15	CN	97	VAL
15	CN	101	LYS
15	CN	113	ASP
15	CN	116	VAL
16	CO	22	LYS
16	CO	56	HIS
16	CO	62	VAL
16	CO	68	ARG
16	CO	72	CYS
16	CO	81	VAL
16	CO	94	LEU
16	CO	100	GLY
16	CO	113	HIS
17	CP	37	ALA
17	CP	42	PRO
17	CP	70	LYS
17	CP	81	LYS
17	CP	100	ASP
17	CP	114	LYS
17	CP	128	SER
17	CP	129	GLY
17	CP	139	LYS
18	CQ	42	LEU
18	CQ	66	VAL
18	CQ	75	LEU
19	CR	28	VAL
19	CR	29	ARG
19	CR	41	VAL
19	CR	43	ASN
19	CR	45	LYS
20	CS	27	HIS
20	CS	39	CYS
20	CS	44	ARG
20	CS	47	ALA
20	CS	49	ASP

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Mol	Chain	Res	Type
21	CT	21	THR
21	CT	28	GLY
21	CT	49	GLY
21	CT	59	ARG
21	CT	94	VAL
21	CT	95	ALA
21	CT	108	SER
21	CT	112	SER
21	CT	136	ILE
21	CT	140	CYS
21	CT	149	ASP
21	CT	188	ILE
21	CT	196	ASN
21	CT	202	LEU
21	CT	203	THR
21	CT	244	ALA
21	CT	247	PRO
21	CT	268	GLN
21	CT	283	LYS
21	CT	298	GLY
21	CT	318	ALA
32	DA	15	GLU
32	DA	22	GLU
32	DA	73	ASP
32	DA	82	VAL
32	DA	93	LEU
32	DA	104	SER
32	DA	109	ALA
32	DA	130	LYS
32	DA	141	ASN
32	DA	160	LYS
32	DA	170	GLY
32	DA	172	VAL
32	DA	193	LEU
32	DA	200	ASN
33	DB	19	HIS
33	DB	118	GLU
33	DB	121	GLY
33	DB	122	ASP
33	DB	128	ARG
33	DB	136	ILE
33	DB	148	VAL

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Mol	Chain	Res	Type
33	DB	165	VAL
33	DB	169	ILE
33	DB	171	GLY
33	DB	173	GLY
33	DB	183	GLY
33	DB	207	VAL
33	DB	212	GLY
33	DB	214	GLY
33	DB	220	GLY
33	DB	224	THR
33	DB	231	SER
34	DC	3	HIS
34	DC	7	GLU
34	DC	12	GLY
34	DC	30	LYS
34	DC	45	SER
34	DC	49	TYR
34	DC	57	VAL
34	DC	101	SER
34	DC	104	THR
34	DC	107	ALA
34	DC	134	SER
34	DC	146	ARG
34	DC	148	LEU
34	DC	194	TRP
34	DC	198	HIS
34	DC	203	VAL
34	DC	208	VAL
34	DC	224	HIS
34	DC	257	PRO
34	DC	273	HIS
34	DC	275	ARG
34	DC	278	ILE
34	DC	290	ASP
34	DC	294	GLY
34	DC	305	ILE
34	DC	319	ASN
34	DC	336	VAL
34	DC	343	TYR
34	DC	361	THR
35	DD	8	VAL
35	DD	24	ALA

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Mol	Chain	Res	Type
35	DD	33	ASP
35	DD	66	GLY
35	DD	68	GLY
35	DD	71	VAL
35	DD	83	GLY
35	DD	135	VAL
35	DD	160	GLN
35	DD	181	VAL
35	DD	189	ALA
35	DD	190	GLY
35	DD	193	LYS
35	DD	204	GLY
35	DD	212	ASP
35	DD	232	SER
35	DD	265	GLU
35	DD	274	TYR
36	DE	10	SER
36	DE	20	PHE
36	DE	29	ASP
36	DE	45	ASN
36	DE	79	TYR
36	DE	95	TRP
36	DE	100	ALA
36	DE	111	GLN
36	DE	120	LYS
36	DE	131	LEU
36	DE	132	THR
36	DE	140	ARG
36	DE	177	GLU
36	DE	195	LEU
36	DE	209	GLU
36	DE	216	GLU
36	DE	227	LEU
36	DE	240	TYR
36	DE	249	ALA
36	DE	268	GLU
36	DE	282	ARG
37	DF	16	ALA
37	DF	18	LEU
37	DF	26	ARG
37	DF	86	ALA
37	DF	98	VAL

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Mol	Chain	Res	Type
37	DF	121	LEU
37	DF	123	PRO
37	DF	127	ASN
37	DF	147	ALA
38	DG	30	ARG
38	DG	34	LYS
38	DG	69	ALA
38	DG	150	LYS
38	DG	154	GLY
38	DG	222	HIS
38	DG	233	GLU
38	DG	234	GLU
39	DH	94	PHE
39	DH	98	ARG
39	DH	100	GLU
39	DH	129	PRO
39	DH	157	VAL
39	DH	196	ALA
39	DH	209	ALA
39	DH	228	GLU
39	DH	229	VAL
39	DH	238	LEU
39	DH	247	ASP
39	DH	248	LYS
40	DI	48	VAL
40	DI	52	LEU
40	DI	59	ASN
40	DI	98	PRO
40	DI	116	ASN
40	DI	129	ARG
40	DI	130	ASP
40	DI	162	GLN
41	DJ	12	GLN
41	DJ	21	ARG
41	DJ	28	ASP
41	DJ	35	ASP
41	DJ	36	LEU
41	DJ	41	ALA
41	DJ	61	SER
41	DJ	78	THR
41	DJ	84	ALA
41	DJ	85	PHE

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Mol	Chain	Res	Type
41	DJ	86	HIS
41	DJ	93	PRO
41	DJ	94	PHE
41	DJ	95	HIS
41	DJ	143	SER
41	DJ	177	ASP
41	DJ	185	ARG
41	DJ	189	GLU
41	DJ	196	PHE
41	DJ	212	GLU
42	DK	11	ASP
42	DK	15	GLU
42	DK	31	THR
42	DK	47	GLN
42	DK	52	TYR
42	DK	83	GLY
42	DK	92	ARG
42	DK	94	ARG
42	DK	98	ALA
42	DK	112	LEU
42	DK	121	GLY
42	DK	127	PHE
42	DK	141	ARG
42	DK	167	TYR
42	DK	170	ASP
72	DL	14	TYR
72	DL	21	GLU
72	DL	41	LYS
72	DL	55	GLY
72	DL	60	VAL
72	DL	66	ASN
72	DL	69	ALA
72	DL	71	ALA
72	DL	91	ASP
72	DL	117	ARG
72	DL	127	SER
72	DL	140	GLY
73	DM	4	ILE
73	DM	13	ALA
73	DM	35	SER
73	DM	37	GLN
73	DM	38	MET

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Mol	Chain	Res	Type
73	DM	50	VAL
73	DM	53	MET
73	DM	66	PHE
73	DM	190	VAL
73	DM	201	ILE
43	DN	56	GLN
43	DN	59	ASN
43	DN	65	LEU
43	DN	71	ALA
43	DN	73	PRO
43	DN	89	ALA
43	DN	100	ALA
43	DN	104	ALA
43	DN	118	PHE
43	DN	125	LYS
44	DO	16	SER
44	DO	21	PHE
44	DO	33	LYS
44	DO	52	GLY
44	DO	56	LYS
44	DO	80	THR
44	DO	110	ALA
44	DO	135	VAL
44	DO	142	ILE
44	DO	149	ASN
44	DO	166	ALA
44	DO	176	LYS
45	DP	6	VAL
45	DP	16	VAL
45	DP	32	LYS
45	DP	38	ALA
45	DP	58	LEU
45	DP	62	THR
45	DP	78	ARG
45	DP	83	ALA
45	DP	93	ALA
45	DP	129	LEU
45	DP	163	SER
45	DP	166	GLU
45	DP	167	TYR
46	DQ	26	PHE
46	DQ	34	GLN

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Mol	Chain	Res	Type
46	DQ	70	THR
46	DQ	78	VAL
46	DQ	86	LYS
46	DQ	87	SER
46	DQ	111	LYS
46	DQ	112	LEU
46	DQ	126	ARG
47	DR	20	LYS
47	DR	23	ASN
47	DR	24	VAL
47	DR	37	ALA
47	DR	44	PHE
47	DR	72	LYS
47	DR	87	VAL
47	DR	94	PHE
47	DR	98	LYS
47	DR	124	LEU
48	DS	55	VAL
48	DS	60	LYS
48	DS	72	GLU
48	DS	106	LEU
48	DS	128	LYS
48	DS	135	LYS
48	DS	140	GLU
49	DT	19	PHE
49	DT	43	LYS
49	DT	46	GLY
49	DT	48	ILE
49	DT	59	GLY
49	DT	69	LYS
49	DT	72	VAL
49	DT	73	GLY
50	DU	11	PHE
50	DU	28	ASN
50	DU	31	ALA
50	DU	56	ASP
50	DU	88	ARG
50	DU	105	PRO
51	DV	3	VAL
51	DV	36	SER
51	DV	42	GLN
51	DV	44	LYS

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Mol	Chain	Res	Type
51	DV	46	PRO
52	DW	49	LYS
52	DW	55	ASN
52	DW	86	VAL
52	DW	88	MET
52	DW	92	LYS
52	DW	98	ALA
52	DW	130	TYR
52	DW	138	ARG
53	DX	65	GLY
53	DX	71	SER
53	DX	79	ALA
53	DX	83	ASP
53	DX	92	GLY
53	DX	100	HIS
53	DX	116	LYS
54	DY	14	HIS
54	DY	34	MET
54	DY	37	GLY
54	DY	53	PHE
54	DY	65	GLN
55	DZ	42	ILE
55	DZ	53	LYS
56	Da	20	LEU
56	Da	26	LYS
56	Da	49	VAL
56	Da	61	LYS
56	Da	64	VAL
57	Db	12	LYS
57	Db	15	LYS
57	Db	43	ARG
57	Db	55	ILE
57	Db	58	GLY
57	Db	62	LYS
57	Db	63	THR
57	Db	75	LEU
57	Db	84	THR
57	Db	89	THR
57	Db	123	LYS
58	Dc	18	ALA
58	Dc	37	SER
59	Dd	7	SER

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Mol	Chain	Res	Type
59	Dd	8	PHE
59	Dd	9	GLY
59	Dd	20	ASN
59	Dd	25	ARG
59	Dd	26	SER
59	Dd	28	HIS
59	Dd	29	VAL
59	Dd	35	SER
59	Dd	36	SER
59	Dd	37	CYS
59	Dd	50	GLY
59	Dd	66	TYR
60	De	31	THR
60	De	34	THR
60	De	44	TRP
60	De	49	MET
61	Df	6	LYS
61	Df	11	TYR
61	Df	17	CYS
61	Df	21	THR
61	Df	41	ARG
61	Df	46	LYS
61	Df	47	GLN
61	Df	57	VAL
61	Df	58	PHE
61	Df	81	ALA
62	Dg	15	GLY
62	Dg	54	ILE
62	Dg	67	GLY
62	Dg	71	VAL
2	AA	12	GLU
2	AA	38	PHE
2	AA	88	LYS
2	AA	153	SER
2	AA	165	ARG
2	AA	168	HIS
2	AA	203	PHE
3	AB	97	ARG
3	AB	98	PHE
3	AB	158	THR
3	AB	182	PRO
3	AB	195	ASP

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Mol	Chain	Res	Type
3	AB	202	GLY
3	AB	228	ASN
3	AB	244	SER
4	AC	42	THR
4	AC	60	GLY
4	AC	67	ASN
4	AC	82	GLY
4	AC	104	SER
4	AC	134	CYS
5	AD	55	ASP
5	AD	125	THR
5	AD	165	LEU
5	AD	205	SER
5	AD	207	THR
6	AE	87	SER
6	AE	91	LYS
6	AE	107	ARG
6	AE	134	ILE
7	AF	81	HIS
8	AG	55	ARG
8	AG	63	ALA
8	AG	89	TYR
8	AG	108	ASP
8	AG	138	ASN
9	AH	3	ASN
9	AH	34	SER
9	AH	38	THR
9	AH	48	VAL
9	AH	73	GLU
10	AI	17	TYR
10	AI	18	ARG
10	AI	92	SER
10	AI	116	LEU
11	AJ	47	LYS
11	AJ	56	GLY
11	AJ	88	GLY
11	AJ	110	THR
11	AJ	114	ARG
11	AJ	125	GLU
11	AJ	138	PHE
12	AK	28	PHE
13	AL	36	LYS

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Mol	Chain	Res	Type
13	AL	46	VAL
14	AM	120	GLY
15	AN	97	VAL
15	AN	101	LYS
16	AO	41	MET
16	AO	94	LEU
16	AO	107	SER
17	AP	28	ASN
17	AP	81	LYS
17	AP	128	SER
18	AQ	59	TYR
18	AQ	75	LEU
18	AQ	80	LEU
19	AR	8	THR
19	AR	25	VAL
19	AR	43	ASN
20	AS	22	ARG
21	AT	10	ARG
21	AT	54	PHE
21	AT	90	ARG
21	AT	91	LEU
21	AT	117	LYS
21	AT	129	LYS
21	AT	139	GLN
21	AT	200	ASN
21	AT	217	ASP
21	AT	265	LEU
21	AT	268	GLN
21	AT	289	ALA
21	AT	318	ALA
32	BA	22	GLU
32	BA	49	PHE
32	BA	57	ASN
32	BA	101	LYS
32	BA	102	LYS
32	BA	152	ARG
32	BA	202	GLY
33	BB	20	THR
33	BB	96	LEU
33	BB	128	ARG
33	BB	157	VAL
33	BB	173	GLY

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Mol	Chain	Res	Type
33	BB	187	HIS
33	BB	214	GLY
34	BC	13	HIS
34	BC	49	TYR
34	BC	65	SER
34	BC	72	VAL
34	BC	88	GLY
34	BC	110	LEU
34	BC	121	ASN
34	BC	129	ALA
34	BC	146	ARG
34	BC	211	GLN
34	BC	261	MET
34	BC	290	ASP
34	BC	303	LYS
34	BC	308	MET
34	BC	319	ASN
34	BC	336	VAL
34	BC	354	VAL
35	BD	18	ASN
35	BD	29	PRO
35	BD	40	THR
35	BD	41	SER
35	BD	115	HIS
35	BD	127	ALA
35	BD	156	LEU
35	BD	232	SER
35	BD	233	LEU
35	BD	242	ALA
35	BD	251	THR
35	BD	262	TRP
36	BE	79	TYR
36	BE	124	GLU
36	BE	132	THR
36	BE	143	LYS
36	BE	163	LEU
36	BE	184	ASP
36	BE	187	THR
36	BE	188	GLU
36	BE	230	ASP
37	BF	8	LYS
37	BF	50	LYS

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Mol	Chain	Res	Type
37	BF	55	LEU
37	BF	66	SER
37	BF	123	PRO
37	BF	127	ASN
37	BF	132	ALA
37	BF	155	LEU
37	BF	158	TYR
38	BG	69	ALA
38	BG	72	ALA
38	BG	139	PRO
38	BG	150	LYS
38	BG	164	SER
38	BG	220	PHE
38	BG	222	HIS
39	BH	82	LEU
39	BH	95	ASN
39	BH	105	LYS
39	BH	123	GLN
39	BH	190	VAL
39	BH	196	ALA
39	BH	237	ILE
40	BI	42	ASP
40	BI	56	ALA
40	BI	59	ASN
40	BI	83	THR
40	BI	106	LYS
40	BI	116	ASN
40	BI	118	LEU
40	BI	137	SER
40	BI	155	SER
40	BI	179	ILE
41	BJ	15	LYS
41	BJ	47	PRO
41	BJ	56	GLU
41	BJ	85	PHE
41	BJ	94	PHE
41	BJ	181	TYR
41	BJ	205	SER
41	BJ	214	PRO
42	BK	35	LYS
42	BK	119	SER
42	BK	156	LYS

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Mol	Chain	Res	Type
42	BK	167	TYR
43	BN	71	ALA
43	BN	85	TRP
43	BN	89	ALA
43	BN	94	TRP
44	BO	34	ASN
44	BO	41	ARG
44	BO	59	PHE
44	BO	122	ASN
44	BO	135	VAL
44	BO	138	GLN
44	BO	154	PRO
44	BO	158	HIS
44	BO	159	ARG
44	BO	172	ARG
45	BP	39	GLU
45	BP	42	ASN
45	BP	46	GLU
45	BP	82	LYS
45	BP	149	TYR
45	BP	189	ASP
45	BP	193	GLN
46	BQ	29	THR
46	BQ	66	SER
46	BQ	85	ALA
46	BQ	86	LYS
46	BQ	121	GLN
47	BR	25	TYR
47	BR	54	LEU
47	BR	72	LYS
47	BR	83	VAL
47	BR	109	GLY
47	BR	121	CYS
48	BS	71	ARG
49	BT	10	ARG
49	BT	14	MET
49	BT	73	GLY
49	BT	74	VAL
49	BT	78	LYS
50	BU	16	GLY
51	BV	36	SER
51	BV	43	ARG

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Mol	Chain	Res	Type
52	BW	88	MET
52	BW	98	ALA
52	BW	111	ASN
53	BX	65	GLY
53	BX	76	LEU
53	BX	102	SER
54	BY	29	PRO
54	BY	83	PRO
54	BY	95	SER
54	BY	126	LYS
55	BZ	9	SER
55	BZ	38	LYS
56	Ba	5	LYS
56	Ba	20	LEU
56	Ba	26	LYS
56	Ba	31	ARG
56	Ba	63	GLY
56	Ba	64	VAL
56	Ba	68	GLU
57	Bb	23	ASP
57	Bb	34	LYS
57	Bb	70	GLY
57	Bb	78	ASN
58	Bc	5	LYS
58	Bc	65	ALA
59	Bd	19	CYS
59	Bd	25	ARG
59	Bd	36	SER
59	Bd	37	CYS
59	Bd	52	LYS
60	Be	49	MET
61	Bf	17	CYS
61	Bf	19	LYS
61	Bf	56	PRO
62	Bg	65	ALA
2	CA	21	ASN
2	CA	38	PHE
2	CA	83	GLN
2	CA	85	ALA
2	CA	87	LEU
2	CA	112	THR
2	CA	165	ARG

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Mol	Chain	Res	Type
2	CA	176	LEU
2	CA	192	THR
2	CA	198	MET
2	CA	203	PHE
3	CB	40	LYS
3	CB	46	LYS
3	CB	97	ARG
3	CB	150	GLN
3	CB	195	ASP
3	CB	213	ALA
3	CB	214	ALA
4	CC	23	GLU
4	CC	60	GLY
4	CC	61	GLU
4	CC	67	ASN
4	CC	82	GLY
4	CC	143	ARG
4	CC	158	ILE
5	CD	44	ASN
5	CD	45	LYS
5	CD	121	ILE
5	CD	128	ASN
5	CD	138	THR
5	CD	144	GLU
5	CD	153	GLY
5	CD	186	ASN
5	CD	207	THR
5	CD	213	LYS
5	CD	215	ASP
6	CE	38	ASN
6	CE	87	SER
6	CE	107	ARG
6	CE	108	ARG
6	CE	123	HIS
6	CE	134	ILE
7	CF	81	HIS
7	CF	137	PHE
8	CG	52	VAL
8	CG	63	ALA
8	CG	70	LYS
8	CG	89	TYR
8	CG	110	ASP

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Mol	Chain	Res	Type
8	CG	139	TRP
9	CH	34	SER
9	CH	48	VAL
10	CI	20	VAL
10	CI	32	ASP
10	CI	74	ALA
10	CI	92	SER
11	CJ	15	SER
11	CJ	28	LEU
11	CJ	47	LYS
11	CJ	98	ASP
11	CJ	107	LYS
12	CK	40	THR
13	CL	36	LYS
13	CL	101	LEU
13	CL	136	GLN
13	CL	139	LYS
14	CM	7	ARG
14	CM	18	TYR
14	CM	120	GLY
14	CM	122	ARG
15	CN	34	LEU
15	CN	103	ILE
16	CO	41	MET
16	CO	46	TYR
16	CO	104	LEU
17	CP	28	ASN
17	CP	41	SER
17	CP	95	PHE
18	CQ	59	TYR
18	CQ	86	GLU
19	CR	8	THR
19	CR	38	ARG
20	CS	16	LYS
20	CS	22	ARG
21	CT	10	ARG
21	CT	54	PHE
21	CT	90	ARG
21	CT	91	LEU
21	CT	129	LYS
21	CT	139	GLN
21	CT	176	LYS

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Mol	Chain	Res	Type
21	CT	186	PHE
21	CT	200	ASN
21	CT	217	ASP
21	CT	265	LEU
21	CT	289	ALA
32	DA	24	LYS
32	DA	94	ASN
32	DA	96	ASN
32	DA	194	LEU
32	DA	203	SER
33	DB	20	THR
33	DB	54	ARG
33	DB	103	PRO
33	DB	134	VAL
33	DB	151	PRO
33	DB	187	HIS
33	DB	215	ASN
33	DB	227	ARG
34	DC	2	SER
34	DC	13	HIS
34	DC	37	ARG
34	DC	68	HIS
34	DC	69	LYS
34	DC	92	TYR
34	DC	129	ALA
34	DC	130	PHE
34	DC	138	ALA
34	DC	216	ASP
34	DC	235	THR
34	DC	241	LYS
34	DC	255	TRP
34	DC	295	ALA
34	DC	354	VAL
34	DC	364	LYS
35	DD	16	THR
35	DD	26	PHE
35	DD	29	PRO
35	DD	32	PRO
35	DD	127	ALA
35	DD	233	LEU
35	DD	238	LEU
35	DD	242	ALA

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Mol	Chain	Res	Type
35	DD	250	TRP
35	DD	251	THR
35	DD	269	SER
35	DD	272	VAL
36	DE	40	HIS
36	DE	41	LYS
36	DE	72	ASP
36	DE	143	LYS
36	DE	158	ARG
36	DE	188	GLU
36	DE	213	ASP
36	DE	223	PHE
36	DE	230	ASP
36	DE	263	GLU
37	DF	8	LYS
37	DF	50	LYS
37	DF	107	ALA
37	DF	132	ALA
38	DG	74	SER
38	DG	139	PRO
38	DG	145	ARG
38	DG	190	THR
38	DG	194	HIS
38	DG	209	ASN
38	DG	219	LYS
38	DG	243	MET
39	DH	95	ASN
39	DH	105	LYS
39	DH	106	LYS
39	DH	208	GLU
39	DH	221	ASN
40	DI	42	ASP
40	DI	64	HIS
40	DI	83	THR
40	DI	106	LYS
40	DI	118	LEU
40	DI	155	SER
40	DI	179	ILE
41	DJ	15	LYS
41	DJ	20	SER
41	DJ	47	PRO
41	DJ	67	ALA

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Mol	Chain	Res	Type
41	DJ	171	TRP
41	DJ	198	LYS
41	DJ	205	SER
42	DK	144	CYS
42	DK	152	HIS
42	DK	156	LYS
72	DL	15	LEU
72	DL	54	LYS
72	DL	70	ALA
72	DL	86	LYS
72	DL	95	ASP
72	DL	131	GLU
73	DM	5	ARG
73	DM	6	GLU
73	DM	61	ARG
73	DM	68	SER
73	DM	103	ASN
43	DN	40	ASP
43	DN	77	ARG
43	DN	85	TRP
43	DN	88	ALA
43	DN	96	ALA
44	DO	34	ASN
44	DO	38	ARG
44	DO	59	PHE
44	DO	78	GLY
44	DO	81	TYR
44	DO	120	TRP
44	DO	144	ARG
44	DO	154	PRO
44	DO	158	HIS
44	DO	164	LEU
44	DO	172	ARG
44	DO	185	ALA
45	DP	14	HIS
45	DP	82	LYS
45	DP	94	ARG
45	DP	96	LYS
45	DP	98	ALA
45	DP	149	TYR
45	DP	195	ALA
46	DQ	8	SER

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Mol	Chain	Res	Type
46	DQ	13	LYS
46	DQ	29	THR
46	DQ	66	SER
46	DQ	105	LYS
46	DQ	109	ALA
46	DQ	145	HIS
46	DQ	154	GLU
47	DR	77	ALA
47	DR	121	CYS
47	DR	127	LEU
47	DR	154	GLY
48	DS	20	ARG
48	DS	71	ARG
48	DS	104	ARG
48	DS	121	HIS
49	DT	15	PHE
49	DT	29	THR
49	DT	55	LYS
49	DT	74	VAL
49	DT	77	ASN
49	DT	108	ARG
50	DU	16	GLY
50	DU	42	SER
50	DU	70	ARG
50	DU	86	ARG
50	DU	91	VAL
50	DU	103	ALA
51	DV	2	LYS
51	DV	7	SER
51	DV	53	VAL
52	DW	111	ASN
53	DX	25	SER
53	DX	50	ILE
53	DX	113	LYS
54	DY	63	LYS
54	DY	81	LEU
54	DY	83	PRO
54	DY	95	SER
55	DZ	9	SER
55	DZ	38	LYS
55	DZ	84	LEU
56	Da	9	THR

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Mol	Chain	Res	Type
56	Da	17	HIS
56	Da	31	ARG
56	Da	50	ARG
56	Da	68	GLU
57	Db	45	ARG
57	Db	70	GLY
57	Db	78	ASN
57	Db	83	GLU
57	Db	103	LYS
57	Db	104	ASN
57	Db	115	LEU
57	Db	122	PRO
58	Dc	5	LYS
59	Dd	12	HIS
59	Dd	19	CYS
59	Dd	52	LYS
60	De	32	ASN
61	Df	19	LYS
61	Df	56	PRO
61	Df	62	ALA
62	Dg	50	GLY
62	Dg	65	ALA
2	AA	53	THR
2	AA	68	PRO
2	AA	82	GLY
2	AA	83	GLN
2	AA	107	PHE
2	AA	145	ALA
2	AA	158	VAL
2	AA	199	PRO
3	AB	45	VAL
3	AB	46	LYS
3	AB	71	THR
3	AB	169	LEU
3	AB	206	THR
3	AB	233	GLN
4	AC	68	GLU
4	AC	97	SER
4	AC	115	ILE
4	AC	125	TYR
4	AC	158	ILE
5	AD	58	LEU

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Mol	Chain	Res	Type
5	AD	138	THR
5	AD	148	ARG
5	AD	157	ARG
5	AD	186	ASN
5	AD	196	GLU
5	AD	212	LYS
5	AD	219	ARG
6	AE	52	ILE
6	AE	60	LEU
6	AE	180	LYS
7	AF	119	VAL
7	AF	140	VAL
8	AG	70	LYS
8	AG	81	ALA
8	AG	110	ASP
9	AH	32	ASP
9	AH	80	HIS
9	AH	110	LEU
9	AH	117	ASP
10	AI	12	PHE
10	AI	36	LEU
10	AI	52	LYS
10	AI	55	GLY
10	AI	63	ALA
10	AI	67	ALA
10	AI	70	ASN
10	AI	90	ILE
11	AJ	28	LEU
11	AJ	46	PHE
11	AJ	51	PRO
11	AJ	90	VAL
11	AJ	99	GLU
11	AJ	106	LYS
11	AJ	134	ALA
12	AK	11	ARG
12	AK	40	THR
12	AK	67	ARG
13	AL	29	VAL
13	AL	44	ASN
13	AL	58	ALA
13	AL	76	PRO
13	AL	82	PRO

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Mol	Chain	Res	Type
13	AL	83	ALA
13	AL	136	GLN
14	AM	5	SER
14	AM	52	GLY
14	AM	70	GLN
14	AM	134	ARG
15	AN	34	LEU
15	AN	41	ILE
15	AN	49	ASN
15	AN	70	THR
15	AN	103	ILE
16	AO	46	TYR
16	AO	81	VAL
16	AO	83	ILE
17	AP	95	PHE
17	AP	137	LYS
17	AP	141	GLU
18	AQ	84	GLU
19	AR	32	PHE
19	AR	38	ARG
21	AT	57	PRO
21	AT	63	GLY
21	AT	94	VAL
21	AT	105	GLY
21	AT	243	LEU
21	AT	291	SER
32	BA	27	ASN
32	BA	107	TYR
32	BA	132	GLY
32	BA	155	ILE
32	BA	165	LEU
32	BA	189	PHE
32	BA	213	ALA
33	BB	29	LEU
33	BB	52	SER
33	BB	53	GLY
33	BB	131	GLY
33	BB	224	THR
34	BC	57	VAL
34	BC	90	VAL
34	BC	164	THR
34	BC	183	LEU

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Mol	Chain	Res	Type
34	BC	193	ASP
34	BC	199	PHE
34	BC	216	ASP
34	BC	255	TRP
34	BC	256	HIS
34	BC	273	HIS
34	BC	295	ALA
34	BC	364	LYS
35	BD	39	PHE
35	BD	45	ASN
35	BD	78	GLY
35	BD	272	VAL
36	BE	41	LYS
36	BE	72	ASP
36	BE	123	GLU
36	BE	136	GLU
36	BE	177	GLU
36	BE	257	GLU
36	BE	263	GLU
36	BE	294	ALA
37	BF	61	ASN
37	BF	73	GLY
37	BF	107	ALA
37	BF	128	LYS
38	BG	28	ALA
38	BG	33	ARG
38	BG	55	TYR
38	BG	135	ALA
38	BG	161	VAL
38	BG	216	VAL
39	BH	88	ALA
39	BH	106	LYS
39	BH	155	ASN
39	BH	169	LEU
39	BH	221	ASN
39	BH	235	GLY
40	BI	17	THR
40	BI	38	LEU
40	BI	105	GLU
40	BI	111	PHE
40	BI	185	GLY
41	BJ	20	SER

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Mol	Chain	Res	Type
41	BJ	60	LEU
41	BJ	66	GLU
41	BJ	67	ALA
41	BJ	91	VAL
41	BJ	154	ARG
41	BJ	163	GLN
42	BK	98	ALA
42	BK	106	ILE
42	BK	144	CYS
43	BN	40	ASP
44	BO	47	LYS
44	BO	74	PRO
44	BO	137	PRO
44	BO	142	ILE
44	BO	175	ASN
45	BP	14	HIS
45	BP	77	SER
46	BQ	8	SER
46	BQ	31	GLU
46	BQ	34	GLN
46	BQ	87	SER
46	BQ	132	ALA
47	BR	21	SER
47	BR	37	ALA
47	BR	41	ASP
47	BR	46	LYS
47	BR	86	THR
47	BR	96	PHE
48	BS	12	ALA
48	BS	20	ARG
48	BS	72	GLU
48	BS	97	ARG
48	BS	121	HIS
49	BT	29	THR
49	BT	42	ILE
49	BT	57	TYR
50	BU	42	SER
50	BU	70	ARG
50	BU	91	VAL
50	BU	103	ALA
51	BV	9	SER
51	BV	35	LYS

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Mol	Chain	Res	Type
51	BV	46	PRO
53	BX	21	THR
53	BX	42	GLN
53	BX	96	PRO
53	BX	119	ILE
54	BY	46	ASP
54	BY	51	GLY
54	BY	63	LYS
54	BY	65	GLN
54	BY	66	ALA
54	BY	129	PHE
54	BY	136	GLU
55	BZ	69	TYR
55	BZ	77	LEU
55	BZ	84	LEU
56	Ba	49	VAL
56	Ba	72	ARG
56	Ba	77	ARG
57	Bb	17	PHE
57	Bb	35	GLN
57	Bb	49	ASN
57	Bb	83	GLU
57	Bb	92	TYR
57	Bb	103	LYS
57	Bb	108	ILE
57	Bb	115	LEU
58	Bc	28	LEU
58	Bc	35	LYS
59	Bd	22	CYS
59	Bd	33	THR
60	Be	32	ASN
61	Bf	12	CYS
61	Bf	59	HIS
62	Bg	14	TYR
62	Bg	68	ALA
2	CA	18	LEU
2	CA	68	PRO
2	CA	82	GLY
2	CA	99	ALA
2	CA	153	SER
2	CA	158	VAL
2	CA	168	HIS

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Mol	Chain	Res	Type
3	CB	69	ILE
3	CB	153	SER
3	CB	182	PRO
4	CC	93	ASP
4	CC	104	SER
4	CC	134	CYS
4	CC	146	ARG
4	CC	159	HIS
5	CD	125	THR
5	CD	134	VAL
5	CD	148	ARG
5	CD	170	GLN
5	CD	181	GLU
5	CD	196	GLU
5	CD	205	SER
5	CD	211	ILE
5	CD	212	LYS
5	CD	219	ARG
6	CE	27	GLU
6	CE	46	SER
6	CE	91	LYS
6	CE	101	VAL
6	CE	180	LYS
7	CF	101	GLU
7	CF	135	VAL
8	CG	55	ARG
8	CG	75	LEU
8	CG	81	ALA
9	CH	32	ASP
9	CH	38	THR
9	CH	110	LEU
10	CI	36	LEU
10	CI	52	LYS
10	CI	55	GLY
10	CI	67	ALA
10	CI	90	ILE
10	CI	126	VAL
11	CJ	23	LYS
11	CJ	44	LEU
11	CJ	46	PHE
11	CJ	51	PRO
11	CJ	56	GLY

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Mol	Chain	Res	Type
11	CJ	88	GLY
11	CJ	114	ARG
11	CJ	134	ALA
12	CK	11	ARG
12	CK	27	ASP
12	CK	28	PHE
12	CK	47	ARG
13	CL	56	LYS
13	CL	58	ALA
13	CL	61	LEU
13	CL	73	MET
13	CL	83	ALA
13	CL	135	GLY
13	CL	140	THR
14	CM	5	SER
14	CM	64	HIS
14	CM	70	GLN
15	CN	70	THR
16	CO	50	PHE
16	CO	60	LYS
16	CO	83	ILE
16	CO	107	SER
17	CP	122	PHE
17	CP	137	LYS
17	CP	141	GLU
18	CQ	80	LEU
18	CQ	84	GLU
19	CR	25	VAL
19	CR	32	PHE
19	CR	33	LEU
19	CR	37	SER
21	CT	57	PRO
21	CT	63	GLY
21	CT	105	GLY
21	CT	117	LYS
21	CT	192	PHE
21	CT	243	LEU
32	DA	6	SER
32	DA	25	LYS
32	DA	44	GLN
32	DA	47	LYS
32	DA	58	CYS

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Mol	Chain	Res	Type
32	DA	80	CYS
32	DA	86	SER
32	DA	154	THR
33	DB	46	LYS
33	DB	52	SER
33	DB	53	GLY
33	DB	130	SER
33	DB	131	GLY
34	DC	65	SER
34	DC	72	VAL
34	DC	90	VAL
34	DC	96	PRO
34	DC	121	ASN
34	DC	142	ALA
34	DC	183	LEU
34	DC	192	VAL
34	DC	222	LYS
34	DC	260	VAL
34	DC	308	MET
34	DC	348	ARG
35	DD	18	ASN
35	DD	55	LYS
35	DD	87	GLN
35	DD	94	CYS
35	DD	98	ARG
35	DD	106	TRP
35	DD	115	HIS
35	DD	156	LEU
35	DD	178	LEU
35	DD	262	TRP
35	DD	268	ALA
36	DE	30	TYR
36	DE	44	TYR
36	DE	184	ASP
36	DE	187	THR
37	DF	55	LEU
37	DF	66	SER
37	DF	76	LEU
37	DF	140	VAL
37	DF	155	LEU
37	DF	158	TYR
37	DF	160	SER

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Mol	Chain	Res	Type
38	DG	33	ARG
38	DG	135	ALA
38	DG	153	PHE
38	DG	164	SER
38	DG	216	VAL
39	DH	82	LEU
39	DH	84	ARG
39	DH	86	THR
39	DH	97	TYR
39	DH	169	LEU
39	DH	186	LEU
39	DH	190	VAL
39	DH	235	GLY
39	DH	237	ILE
40	DI	17	THR
40	DI	56	ALA
40	DI	62	ARG
40	DI	73	SER
40	DI	105	GLU
40	DI	111	PHE
40	DI	137	SER
40	DI	175	PHE
41	DJ	18	PRO
41	DJ	19	LYS
41	DJ	163	GLN
41	DJ	181	TYR
41	DJ	207	GLU
42	DK	119	SER
42	DK	123	PHE
42	DK	157	GLU
72	DL	89	PRO
72	DL	92	ARG
72	DL	120	SER
72	DL	128	VAL
73	DM	64	ARG
73	DM	197	PHE
43	DN	112	LEU
44	DO	41	ARG
44	DO	43	THR
44	DO	122	ASN
44	DO	173	GLY
45	DP	39	GLU

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Mol	Chain	Res	Type
46	DQ	63	PHE
46	DQ	132	ALA
47	DR	96	PHE
47	DR	128	ALA
47	DR	132	PRO
47	DR	157	PRO
48	DS	38	ARG
49	DT	9	SER
49	DT	36	VAL
49	DT	71	SER
49	DT	78	LYS
50	DU	14	SER
50	DU	79	VAL
50	DU	85	TRP
51	DV	43	ARG
51	DV	50	ALA
52	DW	89	LYS
52	DW	128	ALA
53	DX	102	SER
54	DY	19	LYS
54	DY	29	PRO
54	DY	51	GLY
54	DY	66	ALA
54	DY	96	LYS
54	DY	126	LYS
54	DY	131	SER
55	DZ	52	ARG
55	DZ	69	TYR
56	Da	5	LYS
56	Da	43	HIS
56	Da	63	GLY
57	Db	17	PHE
57	Db	23	ASP
57	Db	34	LYS
57	Db	86	THR
58	Dc	27	GLU
58	Dc	65	ALA
59	Dd	22	CYS
59	Dd	33	THR
61	Df	3	ASN
61	Df	12	CYS
62	Dg	14	TYR

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Mol	Chain	Res	Type
62	Dg	26	VAL
62	Dg	46	THR
2	AA	25	GLY
2	AA	81	PHE
2	AA	119	ARG
2	AA	195	TRP
3	AB	61	LEU
3	AB	95	ARG
3	AB	138	PRO
3	AB	146	THR
3	AB	153	SER
4	AC	93	ASP
4	AC	164	VAL
5	AD	45	LYS
5	AD	65	ARG
5	AD	213	LYS
5	AD	214	LYS
5	AD	221	ALA
6	AE	34	PHE
6	AE	101	VAL
6	AE	123	HIS
7	AF	101	GLU
7	AF	115	PHE
7	AF	135	VAL
7	AF	137	PHE
8	AG	77	SER
8	AG	142	GLU
8	AG	150	VAL
10	AI	20	VAL
10	AI	74	ALA
11	AJ	15	SER
12	AK	21	TYR
12	AK	43	SER
12	AK	66	VAL
13	AL	16	ARG
13	AL	56	LYS
13	AL	61	LEU
13	AL	120	ARG
13	AL	135	GLY
16	AO	104	LEU
17	AP	91	GLY
21	AT	158	PRO

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Mol	Chain	Res	Type
21	AT	286	GLU
32	BA	5	THR
32	BA	45	ARG
32	BA	92	LYS
32	BA	108	ASN
32	BA	154	THR
33	BB	17	THR
33	BB	27	ALA
33	BB	46	LYS
33	BB	99	GLY
33	BB	177	LYS
34	BC	111	SER
34	BC	130	PHE
34	BC	218	ILE
34	BC	347	SER
35	BD	250	TRP
35	BD	269	SER
36	BE	64	ILE
36	BE	226	TYR
36	BE	286	VAL
37	BF	30	LEU
37	BF	36	PRO
37	BF	67	GLY
37	BF	98	VAL
37	BF	140	VAL
38	BG	30	ARG
38	BG	83	LEU
38	BG	123	THR
38	BG	134	VAL
38	BG	145	ARG
38	BG	153	PHE
38	BG	211	SER
39	BH	97	TYR
39	BH	134	TYR
39	BH	241	LYS
40	BI	130	ASP
40	BI	175	PHE
41	BJ	8	CYS
41	BJ	41	ALA
41	BJ	171	TRP
41	BJ	212	GLU
42	BK	12	LEU

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Mol	Chain	Res	Type
42	BK	44	THR
42	BK	130	VAL
43	BN	36	VAL
44	BO	31	ARG
45	BP	24	ALA
45	BP	94	ARG
45	BP	98	ALA
45	BP	166	GLU
45	BP	177	LYS
45	BP	195	ALA
47	BR	77	ALA
47	BR	101	VAL
48	BS	8	LYS
48	BS	25	ASP
49	BT	27	LEU
49	BT	108	ARG
50	BU	11	PHE
50	BU	13	ILE
50	BU	56	ASP
50	BU	86	ARG
52	BW	96	LYS
52	BW	115	ARG
52	BW	128	ALA
54	BY	15	VAL
54	BY	19	LYS
54	BY	25	HIS
54	BY	28	HIS
54	BY	49	HIS
54	BY	70	LYS
54	BY	128	ARG
55	BZ	52	ARG
56	Ba	23	VAL
56	Ba	57	GLN
56	Ba	82	GLU
57	Bb	16	LYS
57	Bb	32	TRP
57	Bb	75	LEU
57	Bb	86	THR
59	Bd	34	CYS
60	Be	37	TYR
60	Be	39	ALA
61	Bf	3	ASN

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Mol	Chain	Res	Type
61	Bf	39	GLY
61	Bf	45	ARG
61	Bf	55	LYS
61	Bf	62	ALA
62	Bg	26	VAL
62	Bg	74	ALA
2	CA	93	THR
2	CA	145	ALA
2	CA	152	PRO
2	CA	160	ILE
2	CA	195	TRP
2	CA	199	PRO
3	CB	45	VAL
3	CB	71	THR
3	CB	138	PRO
4	CC	164	VAL
5	CD	60	ASP
5	CD	157	ARG
5	CD	165	LEU
5	CD	221	ALA
6	CE	60	LEU
6	CE	74	ASN
6	CE	75	ALA
6	CE	125	ALA
6	CE	170	GLY
6	CE	183	ALA
8	CG	77	SER
8	CG	150	VAL
10	CI	16	SER
10	CI	63	ALA
10	CI	117	GLY
11	CJ	55	VAL
12	CK	21	TYR
12	CK	59	LYS
12	CK	66	VAL
13	CL	82	PRO
13	CL	120	ARG
14	CM	15	ILE
14	CM	114	VAL
14	CM	121	GLY
14	CM	124	ILE
15	CN	12	GLN

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Mol	Chain	Res	Type
17	CP	102	VAL
17	CP	118	PRO
18	CQ	96	SER
21	CT	158	PRO
21	CT	286	GLU
32	DA	74	VAL
32	DA	88	ASP
33	DB	10	LYS
33	DB	177	LYS
34	DC	88	GLY
34	DC	218	ILE
34	DC	256	HIS
35	DD	12	THR
35	DD	40	THR
35	DD	41	SER
36	DE	103	LEU
36	DE	142	PHE
36	DE	156	GLY
36	DE	192	PRO
36	DE	202	GLY
36	DE	226	TYR
36	DE	248	ARG
36	DE	294	ALA
37	DF	36	PRO
37	DF	73	GLY
37	DF	81	ALA
38	DG	72	ALA
38	DG	83	LEU
38	DG	111	ILE
38	DG	134	VAL
38	DG	161	VAL
39	DH	165	PHE
39	DH	176	PRO
39	DH	243	GLN
40	DI	38	LEU
40	DI	51	GLN
40	DI	185	GLY
41	DJ	66	GLU
41	DJ	147	VAL
41	DJ	194	GLY
41	DJ	214	PRO
42	DK	130	VAL

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Mol	Chain	Res	Type
72	DL	121	PHE
72	DL	136	ALA
73	DM	69	ASP
73	DM	96	ILE
44	DO	74	PRO
45	DP	180	SER
45	DP	191	ALA
46	DQ	4	TYR
46	DQ	85	ALA
47	DR	21	SER
47	DR	41	ASP
47	DR	46	LYS
48	DS	17	VAL
48	DS	27	ASN
49	DT	10	ARG
49	DT	24	ALA
49	DT	53	PRO
49	DT	57	TYR
49	DT	102	ARG
50	DU	13	ILE
52	DW	95	ILE
52	DW	110	VAL
53	DX	42	GLN
54	DY	25	HIS
54	DY	70	LYS
55	DZ	77	LEU
56	Da	42	LEU
56	Da	72	ARG
57	Db	9	ILE
57	Db	21	HIS
60	De	26	TRP
60	De	39	ALA
61	Df	45	ARG
61	Df	48	SER
61	Df	59	HIS
62	Dg	74	ALA
3	AB	123	GLY
4	AC	29	LEU
4	AC	146	ARG
5	AD	170	GLN
9	AH	87	GLY
10	AI	76	VAL

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Mol	Chain	Res	Type
11	AJ	33	GLY
11	AJ	84	ALA
12	AK	20	TYR
14	AM	61	VAL
14	AM	114	VAL
15	AN	118	VAL
17	AP	69	ARG
17	AP	88	PRO
17	AP	118	PRO
19	AR	37	SER
21	AT	136	ILE
21	AT	138	GLY
33	BB	10	LYS
33	BB	62	VAL
34	BC	268	GLY
35	BD	32	PRO
35	BD	87	GLN
35	BD	94	CYS
35	BD	101	ALA
36	BE	141	PRO
36	BE	156	GLY
36	BE	183	TRP
36	BE	269	SER
37	BF	65	ILE
37	BF	125	GLN
38	BG	38	LYS
38	BG	243	MET
39	BH	136	LEU
40	BI	51	GLN
40	BI	158	ALA
42	BK	36	VAL
42	BK	75	LYS
42	BK	157	GLU
44	BO	38	ARG
44	BO	144	ARG
44	BO	153	ASP
44	BO	173	GLY
45	BP	164	SER
46	BQ	54	HIS
48	BS	33	ALA
49	BT	12	ARG
49	BT	24	ALA

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Mol	Chain	Res	Type
49	BT	51	GLY
49	BT	53	PRO
50	BU	55	GLY
51	BV	50	ALA
55	BZ	57	GLU
55	BZ	92	ILE
57	Bb	60	ASN
57	Bb	71	HIS
57	Bb	122	PRO
58	Bc	4	VAL
58	Bc	16	GLN
58	Bc	34	GLN
59	Bd	58	THR
60	Be	10	LYS
61	Bf	48	SER
62	Bg	50	GLY
2	CA	104	PRO
3	CB	56	ILE
3	CB	65	GLU
4	CC	15	GLY
4	CC	91	VAL
5	CD	200	ASN
8	CG	108	ASP
8	CG	143	SER
9	CH	58	TYR
9	CH	87	GLY
9	CH	115	ILE
11	CJ	33	GLY
12	CK	67	ARG
13	CL	29	VAL
13	CL	76	PRO
15	CN	118	VAL
16	CO	7	LEU
17	CP	38	PHE
20	CS	25	SER
21	CT	138	GLY
21	CT	291	SER
32	DA	135	PRO
32	DA	137	PRO
32	DA	209	SER
33	DB	6	ARG
33	DB	62	VAL

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Mol	Chain	Res	Type
33	DB	91	GLY
33	DB	113	VAL
34	DC	133	TYR
34	DC	161	LEU
34	DC	204	ALA
35	DD	169	LEU
36	DE	64	ILE
36	DE	123	GLU
36	DE	136	GLU
36	DE	141	PRO
36	DE	257	GLU
36	DE	265	TYR
36	DE	269	SER
36	DE	286	VAL
36	DE	291	ALA
37	DF	65	ILE
37	DF	67	GLY
37	DF	128	LYS
38	DG	37	ASN
40	DI	55	VAL
41	DJ	197	VAL
41	DJ	216	TYR
42	DK	35	LYS
42	DK	64	LYS
72	DL	85	LEU
72	DL	98	VAL
73	DM	47	GLY
73	DM	97	LYS
43	DN	61	GLY
45	DP	23	VAL
45	DP	84	LEU
45	DP	95	GLY
45	DP	165	ALA
46	DQ	121	GLN
47	DR	40	THR
47	DR	131	ALA
48	DS	13	SER
48	DS	25	ASP
48	DS	147	ALA
50	DU	17	LEU
50	DU	44	SER
51	DV	9	SER

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Mol	Chain	Res	Type
52	DW	115	ARG
53	DX	78	PHE
54	DY	15	VAL
54	DY	46	ASP
54	DY	49	HIS
54	DY	93	SER
55	DZ	92	ILE
56	Da	82	GLU
57	Db	107	VAL
58	Dc	4	VAL
59	Dd	32	LYS
59	Dd	60	GLY
60	De	37	TYR
61	Df	39	GLY
62	Dg	13	LYS
62	Dg	68	ALA
3	AB	160	GLY
6	AE	35	GLY
6	AE	144	PRO
9	AH	115	ILE
10	AI	105	VAL
11	AJ	39	VAL
14	AM	124	ILE
15	AN	58	LEU
17	AP	44	GLY
33	BB	91	GLY
34	BC	8	ALA
34	BC	96	PRO
38	BG	203	TRP
40	BI	55	VAL
41	BJ	4	ARG
41	BJ	172	GLY
41	BJ	194	GLY
48	BS	77	GLY
52	BW	110	VAL
53	BX	106	ILE
57	Bb	9	ILE
3	CB	160	GLY
3	CB	216	VAL
10	CI	76	VAL
11	CJ	39	VAL
14	CM	52	GLY

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Mol	Chain	Res	Type
14	CM	61	VAL
15	CN	41	ILE
15	CN	58	LEU
17	CP	96	VAL
34	DC	8	ALA
34	DC	33	PRO
35	DD	22	LEU
35	DD	52	VAL
35	DD	101	ALA
37	DF	79	VAL
41	DJ	27	PRO
41	DJ	91	VAL
42	DK	106	ILE
72	DL	23	GLY
73	DM	82	GLY
73	DM	101	VAL
43	DN	36	VAL
43	DN	38	ILE
44	DO	137	PRO
44	DO	153	ASP
46	DQ	24	VAL
47	DR	67	ILE
55	DZ	81	VAL
56	Da	8	VAL
57	Db	67	SER
61	Df	55	LYS
2	AA	104	PRO
5	AD	114	ILE
9	AH	13	VAL
9	AH	74	VAL
10	AI	126	VAL
16	AO	25	VAL
17	AP	96	VAL
17	AP	102	VAL
18	AQ	40	VAL
32	BA	69	GLY
33	BB	113	VAL
33	BB	135	ILE
33	BB	196	TRP
35	BD	52	VAL
35	BD	71	VAL
36	BE	26	GLY

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Mol	Chain	Res	Type
36	BE	254	LYS
39	BH	176	PRO
39	BH	182	GLY
44	BO	89	VAL
56	Ba	8	VAL
2	CA	25	GLY
5	CD	123	VAL
6	CE	52	ILE
6	CE	144	PRO
9	CH	13	VAL
9	CH	74	VAL
15	CN	73	GLY
17	CP	88	PRO
17	CP	91	GLY
35	DD	216	VAL
36	DE	254	LYS
41	DJ	172	GLY
42	DK	44	THR
72	DL	64	ILE
72	DL	102	GLY
72	DL	132	ILE
73	DM	80	VAL
43	DN	120	VAL
44	DO	89	VAL
47	DR	83	VAL
47	DR	109	GLY
53	DX	119	ILE
56	Da	23	VAL
57	Db	108	ILE
2	AA	144	ILE
3	AB	56	ILE
3	AB	171	PRO
3	AB	216	VAL
5	AD	121	ILE
5	AD	152	GLY
21	AT	20	VAL
32	BA	65	ILE
33	BB	85	GLY
34	BC	278	ILE
36	BE	202	GLY
38	BG	102	VAL
39	BH	127	PRO

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Mol	Chain	Res	Type
39	BH	135	GLY
41	BJ	18	PRO
49	BT	109	VAL
53	BX	105	VAL
54	BY	57	GLY
55	BZ	81	VAL
59	Bd	60	GLY
2	CA	37	VAL
4	CC	112	GLY
4	CC	123	VAL
5	CD	120	ILE
5	CD	152	GLY
6	CE	42	ILE
15	CN	42	VAL
16	CO	25	VAL
36	DE	201	GLY
37	DF	152	THR
41	DJ	4	ARG
41	DJ	89	VAL
43	DN	46	ILE
47	DR	101	VAL
48	DS	96	ILE
51	DV	45	ASN
54	DY	28	HIS
57	Db	100	ILE
58	Dc	33	VAL
2	AA	37	VAL
6	AE	73	GLY
11	AJ	50	GLU
13	AL	105	VAL
17	AP	125	VAL
36	BE	192	PRO
36	BE	201	GLY
37	BF	84	VAL
41	BJ	117	GLY
41	BJ	131	ILE
42	BK	105	GLY
42	BK	117	ASP
43	BN	38	ILE
45	BP	95	GLY
45	BP	190	VAL
46	BQ	24	VAL

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Mol	Chain	Res	Type
48	BS	17	VAL
50	BU	17	LEU
52	BW	83	VAL
55	BZ	18	ILE
2	CA	144	ILE
3	CB	123	GLY
4	CC	12	VAL
6	CE	73	GLY
9	CH	44	GLY
14	CM	112	GLY
17	CP	125	VAL
21	CT	15	GLY
32	DA	55	LEU
33	DB	135	ILE
36	DE	26	GLY
37	DF	75	PRO
40	DI	28	VAL
41	DJ	122	PRO
43	DN	18	GLY
49	DT	51	GLY
50	DU	55	GLY
52	DW	81	ILE
52	DW	83	VAL
57	D _b	41	VAL
2	AA	152	PRO
6	AE	42	ILE
10	AI	117	GLY
14	AM	26	GLY
15	AN	42	VAL
17	AP	77	ILE
35	BD	22	LEU
35	BD	86	GLY
35	BD	216	VAL
40	BI	28	VAL
40	BI	101	VAL
41	BJ	27	PRO
41	BJ	89	VAL
43	BN	72	LEU
47	BR	132	PRO
55	BZ	88	GLY
57	B _b	5	PRO
57	B _b	67	SER

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Mol	Chain	Res	Type
58	Bc	42	PRO
11	CJ	50	GLU
17	CP	117	ILE
33	DB	99	GLY
35	DD	192	GLY
36	DE	138	GLY
40	DI	24	ILE
41	DJ	117	GLY
41	DJ	131	ILE
73	DM	51	VAL
49	DT	80	VAL
58	Dc	42	PRO
58	Bc	39	PRO
59	Bd	40	PRO
58	Dc	39	PRO

5.3.2 Protein sidechains ⓘ

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A1	1787/1800 (99%)	1003 (56%)	148 (8%)
1	C1	1787/1800 (99%)	990 (55%)	150 (8%)
29	B1	3203/3396 (94%)	1725 (53%)	259 (8%)
29	D1	3203/3396 (94%)	1714 (53%)	257 (8%)
30	B2	120/121 (99%)	70 (58%)	12 (10%)
30	D2	120/121 (99%)	66 (55%)	12 (10%)
31	B3	157/158 (99%)	80 (50%)	9 (5%)
31	D3	157/158 (99%)	79 (50%)	9 (5%)
All	All	10534/10950 (96%)	5727 (54%)	856 (8%)

All (5727) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A1	2	A
1	A1	3	U
1	A1	4	C
1	A1	7	G
1	A1	8	U

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Mol	Chain	Res	Type
1	A1	13	C
1	A1	17	C
1	A1	20	G
1	A1	21	U
1	A1	22	A
1	A1	24	U
1	A1	25	C
1	A1	26	A
1	A1	27	U
1	A1	31	C
1	A1	34	G
1	A1	35	U
1	A1	40	A
1	A1	41	A
1	A1	42	G
1	A1	45	U
1	A1	46	A
1	A1	47	A
1	A1	48	G
1	A1	50	C
1	A1	51	A
1	A1	54	C
1	A1	56	U
1	A1	57	G
1	A1	58	U
1	A1	59	C
1	A1	60	U
1	A1	61	A
1	A1	62	A
1	A1	63	G
1	A1	64	U
1	A1	65	A
1	A1	66	U
1	A1	67	A
1	A1	68	A
1	A1	69	G
1	A1	70	C
1	A1	71	A
1	A1	72	A
1	A1	75	U
1	A1	76	A
1	A1	77	U

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Mol	Chain	Res	Type
1	A1	78	A
1	A1	79	C
1	A1	80	A
1	A1	81	G
1	A1	82	U
1	A1	83	G
1	A1	86	A
1	A1	88	U
1	A1	99	C
1	A1	100	A
1	A1	102	U
1	A1	104	A
1	A1	105	A
1	A1	106	U
1	A1	111	U
1	A1	112	A
1	A1	113	U
1	A1	114	C
1	A1	115	G
1	A1	117	U
1	A1	119	A
1	A1	120	U
1	A1	121	U
1	A1	122	U
1	A1	123	G
1	A1	124	A
1	A1	125	U
1	A1	126	A
1	A1	128	U
1	A1	129	U
1	A1	130	C
1	A1	131	C
1	A1	132	U
1	A1	133	U
1	A1	134	U
1	A1	135	A
1	A1	136	C
1	A1	137	U
1	A1	138	A
1	A1	139	C
1	A1	140	A
1	A1	141	U

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Mol	Chain	Res	Type
1	A1	143	G
1	A1	144	U
1	A1	145	A
1	A1	146	U
1	A1	147	A
1	A1	148	A
1	A1	149	C
1	A1	150	U
1	A1	151	G
1	A1	156	A
1	A1	158	U
1	A1	159	U
1	A1	160	C
1	A1	161	U
1	A1	162	A
1	A1	166	C
1	A1	167	U
1	A1	168	A
1	A1	169	A
1	A1	170	U
1	A1	171	A
1	A1	172	C
1	A1	173	A
1	A1	174	U
1	A1	177	U
1	A1	178	U
1	A1	179	A
1	A1	180	A
1	A1	181	A
1	A1	184	C
1	A1	187	G
1	A1	191	C
1	A1	192	U
1	A1	193	U
1	A1	194	U
1	A1	195	G
1	A1	196	G
1	A1	197	A
1	A1	198	A
1	A1	199	G
1	A1	200	A
1	A1	201	G

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Mol	Chain	Res	Type
1	A1	204	G
1	A1	208	U
1	A1	209	U
1	A1	211	U
1	A1	212	U
1	A1	213	A
1	A1	215	A
1	A1	218	A
1	A1	219	A
1	A1	220	A
1	A1	224	C
1	A1	226	A
1	A1	227	U
1	A1	228	G
1	A1	229	U
1	A1	233	C
1	A1	234	G
1	A1	238	U
1	A1	241	U
1	A1	242	U
1	A1	243	G
1	A1	244	A
1	A1	245	U
1	A1	246	G
1	A1	249	U
1	A1	250	C
1	A1	252	U
1	A1	253	A
1	A1	254	A
1	A1	255	U
1	A1	256	A
1	A1	257	A
1	A1	259	U
1	A1	260	U
1	A1	261	U
1	A1	262	U
1	A1	263	C
1	A1	264	G
1	A1	265	A
1	A1	266	A
1	A1	267	U
1	A1	270	C

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Mol	Chain	Res	Type
1	A1	271	A
1	A1	272	U
1	A1	273	G
1	A1	274	G
1	A1	276	C
1	A1	277	U
1	A1	278	U
1	A1	280	U
1	A1	282	C
1	A1	283	U
1	A1	284	G
1	A1	285	G
1	A1	289	U
1	A1	295	A
1	A1	296	U
1	A1	297	U
1	A1	298	C
1	A1	299	A
1	A1	302	U
1	A1	308	C
1	A1	309	C
1	A1	310	C
1	A1	311	U
1	A1	312	A
1	A1	314	C
1	A1	316	A
1	A1	320	U
1	A1	321	C
1	A1	322	G
1	A1	323	A
1	A1	324	U
1	A1	327	U
1	A1	330	G
1	A1	331	A
1	A1	332	U
1	A1	333	A
1	A1	334	G
1	A1	335	U
1	A1	337	G
1	A1	338	C
1	A1	340	U
1	A1	341	A

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Mol	Chain	Res	Type
1	A1	350	U
1	A1	351	C
1	A1	352	A
1	A1	354	C
1	A1	359	A
1	A1	360	A
1	A1	361	C
1	A1	365	G
1	A1	366	A
1	A1	368	U
1	A1	369	A
1	A1	370	A
1	A1	373	G
1	A1	374	U
1	A1	375	U
1	A1	376	C
1	A1	378	A
1	A1	379	U
1	A1	381	C
1	A1	382	C
1	A1	383	G
1	A1	385	A
1	A1	387	A
1	A1	390	G
1	A1	393	C
1	A1	394	C
1	A1	395	U
1	A1	396	G
1	A1	399	A
1	A1	400	A
1	A1	401	A
1	A1	402	C
1	A1	403	G
1	A1	404	G
1	A1	406	U
1	A1	411	C
1	A1	415	C
1	A1	416	A
1	A1	417	A
1	A1	418	G
1	A1	419	G
1	A1	421	A

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Mol	Chain	Res	Type
1	A1	424	C
1	A1	425	A
1	A1	426	G
1	A1	427	C
1	A1	428	A
1	A1	434	G
1	A1	437	A
1	A1	438	A
1	A1	439	U
1	A1	440	U
1	A1	441	A
1	A1	444	C
1	A1	445	A
1	A1	446	A
1	A1	447	U
1	A1	448	C
1	A1	449	C
1	A1	451	A
1	A1	452	A
1	A1	453	U
1	A1	454	U
1	A1	455	C
1	A1	458	G
1	A1	459	G
1	A1	462	G
1	A1	464	A
1	A1	467	G
1	A1	468	A
1	A1	469	C
1	A1	470	A
1	A1	475	A
1	A1	477	A
1	A1	482	U
1	A1	485	A
1	A1	486	G
1	A1	487	G
1	A1	488	G
1	A1	489	C
1	A1	490	C
1	A1	493	U
1	A1	494	U
1	A1	495	C

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Mol	Chain	Res	Type
1	A1	496	G
1	A1	498	G
1	A1	500	C
1	A1	504	U
1	A1	505	A
1	A1	506	A
1	A1	510	G
1	A1	511	A
1	A1	512	A
1	A1	513	U
1	A1	514	G
1	A1	515	A
1	A1	516	G
1	A1	517	U
1	A1	519	C
1	A1	521	A
1	A1	522	U
1	A1	523	G
1	A1	524	U
1	A1	526	A
1	A1	527	A
1	A1	528	U
1	A1	529	A
1	A1	530	C
1	A1	531	C
1	A1	533	U
1	A1	535	A
1	A1	537	G
1	A1	538	A
1	A1	539	G
1	A1	540	G
1	A1	541	A
1	A1	542	A
1	A1	543	C
1	A1	544	A
1	A1	545	A
1	A1	546	U
1	A1	548	G
1	A1	550	A
1	A1	551	G
1	A1	554	C
1	A1	555	A

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Mol	Chain	Res	Type
1	A1	556	A
1	A1	557	G
1	A1	558	U
1	A1	560	U
1	A1	561	G
1	A1	563	U
1	A1	564	G
1	A1	565	C
1	A1	568	G
1	A1	570	A
1	A1	572	C
1	A1	574	G
1	A1	578	U
1	A1	579	A
1	A1	580	A
1	A1	585	A
1	A1	594	A
1	A1	595	G
1	A1	596	C
1	A1	599	A
1	A1	601	A
1	A1	602	U
1	A1	605	A
1	A1	607	G
1	A1	608	U
1	A1	609	U
1	A1	610	G
1	A1	611	U
1	A1	612	U
1	A1	614	C
1	A1	615	A
1	A1	616	G
1	A1	619	A
1	A1	620	A
1	A1	622	A
1	A1	623	A
1	A1	624	G
1	A1	626	U
1	A1	630	A
1	A1	633	U
1	A1	635	A
1	A1	638	U

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Mol	Chain	Res	Type
1	A1	639	U
1	A1	640	U
1	A1	647	G
1	A1	649	U
1	A1	650	U
1	A1	653	C
1	A1	656	G
1	A1	659	C
1	A1	660	G
1	A1	662	U
1	A1	663	U
1	A1	665	U
1	A1	666	U
1	A1	667	U
1	A1	681	U
1	A1	682	C
1	A1	683	C
1	A1	685	A
1	A1	686	C
1	A1	691	C
1	A1	692	C
1	A1	693	U
1	A1	694	U
1	A1	696	C
1	A1	697	C
1	A1	698	U
1	A1	700	C
1	A1	702	G
1	A1	703	G
1	A1	705	U
1	A1	708	C
1	A1	709	C
1	A1	710	U
1	A1	713	A
1	A1	714	G
1	A1	715	U
1	A1	718	U
1	A1	719	U
1	A1	720	G
1	A1	721	U
1	A1	722	G
1	A1	725	U

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Mol	Chain	Res	Type
1	A1	726	C
1	A1	727	U
1	A1	728	U
1	A1	729	G
1	A1	731	C
1	A1	732	G
1	A1	733	A
1	A1	734	A
1	A1	735	C
1	A1	736	C
1	A1	737	A
1	A1	738	G
1	A1	739	G
1	A1	742	U
1	A1	743	U
1	A1	744	U
1	A1	750	U
1	A1	751	G
1	A1	754	A
1	A1	756	A
1	A1	765	G
1	A1	766	U
1	A1	767	U
1	A1	774	A
1	A1	775	G
1	A1	778	G
1	A1	779	U
1	A1	780	A
1	A1	781	U
1	A1	782	U
1	A1	783	G
1	A1	787	G
1	A1	789	A
1	A1	790	U
1	A1	793	A
1	A1	794	U
1	A1	803	A
1	A1	808	U
1	A1	811	A
1	A1	812	A
1	A1	813	U
1	A1	814	A

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Mol	Chain	Res	Type
1	A1	815	G
1	A1	816	G
1	A1	818	C
1	A1	819	G
1	A1	820	U
1	A1	821	U
1	A1	822	U
1	A1	823	G
1	A1	824	G
1	A1	825	U
1	A1	826	U
1	A1	828	U
1	A1	829	A
1	A1	830	U
1	A1	831	U
1	A1	832	U
1	A1	834	G
1	A1	839	U
1	A1	840	U
1	A1	841	U
1	A1	842	C
1	A1	844	A
1	A1	847	A
1	A1	848	C
1	A1	850	A
1	A1	856	A
1	A1	857	U
1	A1	858	G
1	A1	860	U
1	A1	861	U
1	A1	862	A
1	A1	863	A
1	A1	864	U
1	A1	865	A
1	A1	872	G
1	A1	873	U
1	A1	876	G
1	A1	880	C
1	A1	881	A
1	A1	883	C
1	A1	886	U
1	A1	888	U

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Mol	Chain	Res	Type
1	A1	891	A
1	A1	893	U
1	A1	894	U
1	A1	896	U
1	A1	897	C
1	A1	899	G
1	A1	901	G
1	A1	902	G
1	A1	903	U
1	A1	904	G
1	A1	905	A
1	A1	906	A
1	A1	909	U
1	A1	910	C
1	A1	911	U
1	A1	912	U
1	A1	913	G
1	A1	914	G
1	A1	915	A
1	A1	916	U
1	A1	920	U
1	A1	922	G
1	A1	923	A
1	A1	927	C
1	A1	929	A
1	A1	932	U
1	A1	933	A
1	A1	934	C
1	A1	935	U
1	A1	938	G
1	A1	939	A
1	A1	942	G
1	A1	943	C
1	A1	944	A
1	A1	952	A
1	A1	959	U
1	A1	960	U
1	A1	961	U
1	A1	964	U
1	A1	965	U
1	A1	966	A
1	A1	967	A

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Mol	Chain	Res	Type
1	A1	975	C
1	A1	976	G
1	A1	977	A
1	A1	978	A
1	A1	979	A
1	A1	981	U
1	A1	987	G
1	A1	988	A
1	A1	992	A
1	A1	993	A
1	A1	995	A
1	A1	996	U
1	A1	998	A
1	A1	1000	C
1	A1	1003	A
1	A1	1004	U
1	A1	1005	A
1	A1	1007	C
1	A1	1008	G
1	A1	1010	C
1	A1	1019	A
1	A1	1027	A
1	A1	1028	C
1	A1	1029	U
1	A1	1030	A
1	A1	1032	G
1	A1	1033	C
1	A1	1036	A
1	A1	1039	A
1	A1	1040	G
1	A1	1044	U
1	A1	1045	C
1	A1	1046	G
1	A1	1048	G
1	A1	1049	U
1	A1	1057	U
1	A1	1058	U
1	A1	1059	U
1	A1	1060	U
1	A1	1066	C
1	A1	1071	U
1	A1	1072	C

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Mol	Chain	Res	Type
1	A1	1073	G
1	A1	1074	G
1	A1	1075	C
1	A1	1077	C
1	A1	1079	U
1	A1	1080	U
1	A1	1082	C
1	A1	1087	A
1	A1	1089	U
1	A1	1090	C
1	A1	1091	A
1	A1	1092	A
1	A1	1093	A
1	A1	1094	G
1	A1	1095	U
1	A1	1096	C
1	A1	1097	U
1	A1	1098	U
1	A1	1099	U
1	A1	1100	G
1	A1	1101	G
1	A1	1103	U
1	A1	1107	G
1	A1	1108	G
1	A1	1109	G
1	A1	1110	G
1	A1	1111	G
1	A1	1112	G
1	A1	1113	A
1	A1	1114	G
1	A1	1115	U
1	A1	1119	G
1	A1	1123	C
1	A1	1124	A
1	A1	1126	G
1	A1	1129	U
1	A1	1136	U
1	A1	1137	A
1	A1	1138	A
1	A1	1139	A
1	A1	1140	G
1	A1	1141	G

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Mol	Chain	Res	Type
1	A1	1142	A
1	A1	1143	A
1	A1	1145	U
1	A1	1146	G
1	A1	1147	A
1	A1	1149	G
1	A1	1150	G
1	A1	1151	A
1	A1	1152	A
1	A1	1153	G
1	A1	1154	G
1	A1	1158	C
1	A1	1160	A
1	A1	1161	C
1	A1	1162	C
1	A1	1166	A
1	A1	1167	G
1	A1	1168	U
1	A1	1178	G
1	A1	1179	G
1	A1	1181	U
1	A1	1185	U
1	A1	1186	U
1	A1	1189	A
1	A1	1190	C
1	A1	1191	U
1	A1	1193	A
1	A1	1194	A
1	A1	1196	A
1	A1	1197	C
1	A1	1198	G
1	A1	1199	G
1	A1	1200	G
1	A1	1201	G
1	A1	1202	A
1	A1	1203	A
1	A1	1204	A
1	A1	1205	C
1	A1	1206	U
1	A1	1207	C
1	A1	1208	A
1	A1	1211	A

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Mol	Chain	Res	Type
1	A1	1217	A
1	A1	1218	G
1	A1	1219	A
1	A1	1220	C
1	A1	1222	C
1	A1	1225	U
1	A1	1228	G
1	A1	1229	G
1	A1	1230	A
1	A1	1231	U
1	A1	1232	U
1	A1	1234	A
1	A1	1235	C
1	A1	1238	A
1	A1	1239	U
1	A1	1240	U
1	A1	1242	A
1	A1	1243	G
1	A1	1244	A
1	A1	1245	G
1	A1	1248	C
1	A1	1254	U
1	A1	1255	G
1	A1	1256	A
1	A1	1257	U
1	A1	1258	U
1	A1	1259	U
1	A1	1260	U
1	A1	1264	G
1	A1	1266	U
1	A1	1268	G
1	A1	1270	G
1	A1	1273	G
1	A1	1274	C
1	A1	1275	A
1	A1	1276	U
1	A1	1280	C
1	A1	1283	U
1	A1	1284	C
1	A1	1286	U
1	A1	1287	A
1	A1	1288	G

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Mol	Chain	Res	Type
1	A1	1290	U
1	A1	1297	G
1	A1	1302	U
1	A1	1306	C
1	A1	1310	U
1	A1	1311	U
1	A1	1312	A
1	A1	1314	U
1	A1	1315	U
1	A1	1316	G
1	A1	1321	A
1	A1	1324	G
1	A1	1325	A
1	A1	1326	A
1	A1	1331	A
1	A1	1332	C
1	A1	1333	C
1	A1	1335	U
1	A1	1336	A
1	A1	1337	A
1	A1	1340	U
1	A1	1341	A
1	A1	1342	C
1	A1	1345	A
1	A1	1346	A
1	A1	1347	U
1	A1	1349	G
1	A1	1350	U
1	A1	1351	G
1	A1	1352	G
1	A1	1353	U
1	A1	1354	G
1	A1	1355	C
1	A1	1358	G
1	A1	1359	C
1	A1	1360	A
1	A1	1361	U
1	A1	1362	U
1	A1	1363	U
1	A1	1364	G
1	A1	1365	C
1	A1	1366	U

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Mol	Chain	Res	Type
1	A1	1367	G
1	A1	1368	G
1	A1	1369	U
1	A1	1371	A
1	A1	1373	C
1	A1	1374	C
1	A1	1378	U
1	A1	1379	C
1	A1	1380	U
1	A1	1383	G
1	A1	1384	A
1	A1	1388	A
1	A1	1390	U
1	A1	1391	A
1	A1	1392	U
1	A1	1397	U
1	A1	1398	U
1	A1	1399	C
1	A1	1400	A
1	A1	1401	A
1	A1	1402	G
1	A1	1407	U
1	A1	1408	G
1	A1	1409	G
1	A1	1410	A
1	A1	1412	G
1	A1	1413	U
1	A1	1414	U
1	A1	1415	U
1	A1	1418	G
1	A1	1419	G
1	A1	1420	C
1	A1	1422	A
1	A1	1427	A
1	A1	1428	G
1	A1	1429	G
1	A1	1431	C
1	A1	1432	U
1	A1	1433	G
1	A1	1434	U
1	A1	1435	G
1	A1	1436	A

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Mol	Chain	Res	Type
1	A1	1438	G
1	A1	1443	U
1	A1	1445	G
1	A1	1446	A
1	A1	1447	C
1	A1	1448	G
1	A1	1449	U
1	A1	1450	U
1	A1	1453	G
1	A1	1454	G
1	A1	1455	G
1	A1	1456	C
1	A1	1458	G
1	A1	1459	C
1	A1	1460	A
1	A1	1461	C
1	A1	1466	G
1	A1	1467	C
1	A1	1468	U
1	A1	1469	A
1	A1	1471	A
1	A1	1472	C
1	A1	1473	U
1	A1	1474	G
1	A1	1477	G
1	A1	1478	G
1	A1	1479	A
1	A1	1481	C
1	A1	1482	C
1	A1	1483	A
1	A1	1484	G
1	A1	1485	C
1	A1	1486	G
1	A1	1490	C
1	A1	1491	U
1	A1	1492	A
1	A1	1493	A
1	A1	1494	C
1	A1	1503	A
1	A1	1505	A
1	A1	1506	G
1	A1	1509	C

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Mol	Chain	Res	Type
1	A1	1510	U
1	A1	1514	U
1	A1	1515	A
1	A1	1516	A
1	A1	1517	U
1	A1	1518	C
1	A1	1519	U
1	A1	1521	G
1	A1	1522	U
1	A1	1523	G
1	A1	1524	A
1	A1	1533	C
1	A1	1534	G
1	A1	1535	U
1	A1	1536	G
1	A1	1537	C
1	A1	1538	U
1	A1	1539	G
1	A1	1540	G
1	A1	1541	G
1	A1	1542	G
1	A1	1545	A
1	A1	1547	A
1	A1	1548	G
1	A1	1550	A
1	A1	1551	U
1	A1	1553	G
1	A1	1554	U
1	A1	1555	A
1	A1	1556	A
1	A1	1557	U
1	A1	1558	U
1	A1	1559	A
1	A1	1560	U
1	A1	1565	C
1	A1	1568	C
1	A1	1570	A
1	A1	1572	G
1	A1	1573	A
1	A1	1574	G
1	A1	1575	G
1	A1	1576	A

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Mol	Chain	Res	Type
1	A1	1581	C
1	A1	1583	A
1	A1	1584	G
1	A1	1587	A
1	A1	1590	G
1	A1	1591	C
1	A1	1592	A
1	A1	1599	C
1	A1	1600	A
1	A1	1601	G
1	A1	1602	C
1	A1	1605	G
1	A1	1607	G
1	A1	1609	U
1	A1	1610	G
1	A1	1611	A
1	A1	1613	U
1	A1	1614	A
1	A1	1615	C
1	A1	1616	G
1	A1	1618	C
1	A1	1623	C
1	A1	1624	C
1	A1	1625	C
1	A1	1627	U
1	A1	1628	U
1	A1	1630	U
1	A1	1631	A
1	A1	1632	C
1	A1	1633	A
1	A1	1634	C
1	A1	1635	A
1	A1	1636	C
1	A1	1637	C
1	A1	1638	G
1	A1	1639	C
1	A1	1642	G
1	A1	1644	C
1	A1	1645	G
1	A1	1646	C
1	A1	1650	U
1	A1	1654	G

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Mol	Chain	Res	Type
1	A1	1656	U
1	A1	1657	U
1	A1	1658	G
1	A1	1659	A
1	A1	1664	C
1	A1	1665	U
1	A1	1667	A
1	A1	1668	G
1	A1	1673	G
1	A1	1674	C
1	A1	1675	C
1	A1	1676	U
1	A1	1677	C
1	A1	1678	A
1	A1	1680	G
1	A1	1681	A
1	A1	1682	U
1	A1	1683	C
1	A1	1684	U
1	A1	1685	G
1	A1	1688	U
1	A1	1689	A
1	A1	1691	A
1	A1	1692	G
1	A1	1693	A
1	A1	1695	G
1	A1	1696	G
1	A1	1698	G
1	A1	1700	C
1	A1	1701	A
1	A1	1706	C
1	A1	1707	A
1	A1	1710	U
1	A1	1711	C
1	A1	1716	C
1	A1	1719	A
1	A1	1720	G
1	A1	1722	A
1	A1	1728	A
1	A1	1731	A
1	A1	1739	C
1	A1	1742	U

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Mol	Chain	Res	Type
1	A1	1744	A
1	A1	1746	A
1	A1	1748	G
1	A1	1754	A
1	A1	1755	A
1	A1	1757	G
1	A1	1758	U
1	A1	1759	C
1	A1	1760	G
1	A1	1762	A
1	A1	1763	A
1	A1	1764	C
1	A1	1766	A
1	A1	1767	G
1	A1	1768	G
1	A1	1769	U
1	A1	1770	U
1	A1	1772	C
1	A1	1773	C
1	A1	1774	G
1	A1	1777	G
1	A1	1779	U
1	A1	1780	G
1	A1	1782	A
1	A1	1783	C
1	A1	1788	G
1	A1	1792	G
1	A1	1793	G
1	A1	1794	A
1	A1	1795	U
1	A1	1797	A
1	A1	1798	U
29	B1	6	A
29	B1	9	U
29	B1	12	A
29	B1	14	U
29	B1	15	C
29	B1	16	A
29	B1	20	A
29	B1	21	G
29	B1	25	U
29	B1	29	C

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Mol	Chain	Res	Type
29	B1	32	U
29	B1	35	A
29	B1	38	U
29	B1	40	A
29	B1	43	A
29	B1	44	U
29	B1	47	C
29	B1	50	U
29	B1	53	G
29	B1	56	G
29	B1	58	G
29	B1	59	G
29	B1	60	A
29	B1	62	A
29	B1	65	A
29	B1	66	A
29	B1	68	C
29	B1	69	C
29	B1	70	A
29	B1	71	A
29	B1	72	C
29	B1	73	C
29	B1	74	G
29	B1	76	G
29	B1	77	A
29	B1	81	C
29	B1	83	U
29	B1	85	A
29	B1	87	U
29	B1	88	A
29	B1	89	A
29	B1	92	G
29	B1	93	C
29	B1	94	G
29	B1	96	G
29	B1	97	U
29	B1	98	G
29	B1	99	A
29	B1	100	A
29	B1	102	C
29	B1	103	G
29	B1	105	C

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Mol	Chain	Res	Type
29	B1	106	A
29	B1	108	A
29	B1	109	A
29	B1	110	G
29	B1	113	C
29	B1	114	A
29	B1	117	U
29	B1	118	U
29	B1	119	U
29	B1	120	G
29	B1	121	A
29	B1	125	C
29	B1	126	U
29	B1	127	G
29	B1	131	C
29	B1	133	U
29	B1	134	U
29	B1	136	G
29	B1	138	U
29	B1	140	C
29	B1	141	C
29	B1	144	A
29	B1	145	G
29	B1	146	U
29	B1	147	U
29	B1	148	G
29	B1	149	U
29	B1	150	A
29	B1	152	U
29	B1	154	U
29	B1	155	G
29	B1	156	G
29	B1	157	A
29	B1	158	G
29	B1	159	A
29	B1	160	G
29	B1	161	G
29	B1	164	A
29	B1	167	U
29	B1	169	U
29	B1	170	G
29	B1	171	G

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Mol	Chain	Res	Type
29	B1	172	G
29	B1	173	G
29	B1	175	C
29	B1	176	G
29	B1	177	U
29	B1	178	U
29	B1	179	C
29	B1	182	U
29	B1	187	A
29	B1	188	U
29	B1	190	U
29	B1	191	U
29	B1	196	G
29	B1	197	G
29	B1	199	A
29	B1	201	A
29	B1	204	A
29	B1	205	C
29	B1	209	A
29	B1	210	U
29	B1	211	A
29	B1	214	G
29	B1	215	G
29	B1	217	U
29	B1	218	G
29	B1	219	A
29	B1	220	G
29	B1	221	A
29	B1	223	U
29	B1	224	C
29	B1	225	C
29	B1	227	G
29	B1	230	U
29	B1	231	G
29	B1	237	G
29	B1	238	A
29	B1	239	G
29	B1	240	U
29	B1	241	G
29	B1	242	C
29	B1	244	G
29	B1	245	U

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Mol	Chain	Res	Type
29	B1	246	U
29	B1	247	C
29	B1	248	U
29	B1	249	U
29	B1	250	U
29	B1	251	G
29	B1	252	U
29	B1	253	A
29	B1	255	A
29	B1	256	G
29	B1	257	U
29	B1	258	G
29	B1	259	C
29	B1	260	C
29	B1	262	U
29	B1	263	C
29	B1	264	G
29	B1	265	A
29	B1	266	A
29	B1	267	G
29	B1	269	G
29	B1	282	G
29	B1	283	G
29	B1	284	A
29	B1	285	A
29	B1	289	A
29	B1	292	U
29	B1	293	C
29	B1	295	A
29	B1	297	G
29	B1	298	U
29	B1	301	G
29	B1	304	G
29	B1	305	U
29	B1	306	A
29	B1	307	A
29	B1	311	C
29	B1	315	C
29	B1	316	U
29	B1	317	A
29	B1	318	A
29	B1	319	A

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Mol	Chain	Res	Type
29	B1	323	A
29	B1	324	A
29	B1	325	A
29	B1	326	U
29	B1	327	A
29	B1	328	U
29	B1	329	U
29	B1	330	G
29	B1	331	G
29	B1	332	C
29	B1	333	G
29	B1	335	G
29	B1	338	A
29	B1	339	C
29	B1	340	C
29	B1	341	G
29	B1	342	A
29	B1	345	G
29	B1	346	C
29	B1	349	A
29	B1	350	C
29	B1	351	A
29	B1	352	A
29	B1	354	U
29	B1	362	U
29	B1	364	G
29	B1	368	G
29	B1	371	G
29	B1	374	A
29	B1	375	A
29	B1	376	G
29	B1	377	A
29	B1	378	A
29	B1	379	C
29	B1	380	U
29	B1	381	U
29	B1	382	U
29	B1	383	G
29	B1	384	A
29	B1	385	A
29	B1	386	A
29	B1	387	A

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Mol	Chain	Res	Type
29	B1	390	G
29	B1	391	A
29	B1	392	G
29	B1	395	A
29	B1	396	A
29	B1	397	A
29	B1	398	A
29	B1	399	A
29	B1	400	G
29	B1	401	U
29	B1	402	A
29	B1	403	C
29	B1	404	G
29	B1	419	G
29	B1	421	G
29	B1	422	A
29	B1	423	A
29	B1	424	G
29	B1	425	G
29	B1	428	A
29	B1	429	U
29	B1	431	U
29	B1	432	G
29	B1	439	C
29	B1	493	G
29	B1	495	G
29	B1	500	C
29	B1	504	A
29	B1	509	U
29	B1	510	G
29	B1	511	G
29	B1	514	G
29	B1	515	C
29	B1	516	A
29	B1	517	G
29	B1	518	G
29	B1	519	A
29	B1	520	U
29	B1	521	A
29	B1	523	A
29	B1	524	U
29	B1	525	C

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Mol	Chain	Res	Type
29	B1	528	U
29	B1	529	A
29	B1	533	A
29	B1	536	U
29	B1	537	A
29	B1	538	G
29	B1	539	C
29	B1	540	U
29	B1	541	U
29	B1	544	C
29	B1	546	C
29	B1	547	G
29	B1	548	G
29	B1	549	U
29	B1	550	A
29	B1	556	U
29	B1	559	A
29	B1	560	G
29	B1	561	C
29	B1	562	C
29	B1	563	U
29	B1	564	G
29	B1	565	U
29	B1	566	G
29	B1	571	U
29	B1	574	U
29	B1	575	G
29	B1	576	C
29	B1	577	C
29	B1	578	A
29	B1	579	G
29	B1	580	C
29	B1	584	G
29	B1	586	C
29	B1	588	G
29	B1	590	G
29	B1	591	G
29	B1	592	A
29	B1	593	C
29	B1	594	U
29	B1	595	G
29	B1	597	G

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Mol	Chain	Res	Type
29	B1	603	A
29	B1	604	G
29	B1	605	U
29	B1	606	C
29	B1	607	A
29	B1	608	A
29	B1	609	G
29	B1	610	G
29	B1	611	A
29	B1	612	U
29	B1	618	C
29	B1	619	A
29	B1	620	U
29	B1	621	A
29	B1	622	A
29	B1	624	G
29	B1	625	G
29	B1	626	U
29	B1	628	A
29	B1	630	A
29	B1	632	G
29	B1	636	C
29	B1	637	C
29	B1	642	U
29	B1	645	A
29	B1	646	A
29	B1	647	A
29	B1	648	C
29	B1	649	A
29	B1	650	C
29	B1	651	G
29	B1	656	A
29	B1	657	A
29	B1	661	G
29	B1	666	A
29	B1	667	C
29	B1	668	G
29	B1	669	U
29	B1	674	G
29	B1	675	C
29	B1	677	A
29	B1	679	U

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Mol	Chain	Res	Type
29	B1	680	G
29	B1	681	U
29	B1	682	U
29	B1	683	U
29	B1	685	G
29	B1	691	A
29	B1	692	A
29	B1	694	C
29	B1	697	A
29	B1	698	U
29	B1	699	A
29	B1	705	A
29	B1	706	A
29	B1	712	G
29	B1	714	G
29	B1	715	A
29	B1	716	A
29	B1	717	C
29	B1	718	G
29	B1	719	U
29	B1	720	A
29	B1	721	G
29	B1	722	G
29	B1	723	U
29	B1	724	U
29	B1	725	G
29	B1	726	G
29	B1	727	G
29	B1	728	G
29	B1	731	U
29	B1	732	C
29	B1	733	G
29	B1	734	C
29	B1	735	A
29	B1	736	A
29	B1	738	A
29	B1	741	U
29	B1	743	C
29	B1	744	A
29	B1	745	C
29	B1	746	A
29	B1	747	A

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Mol	Chain	Res	Type
29	B1	748	U
29	B1	749	C
29	B1	751	A
29	B1	752	C
29	B1	753	C
29	B1	756	U
29	B1	757	C
29	B1	758	C
29	B1	759	U
29	B1	761	A
29	B1	762	U
29	B1	764	U
29	B1	765	C
29	B1	766	U
29	B1	767	U
29	B1	768	C
29	B1	769	G
29	B1	770	G
29	B1	771	A
29	B1	772	U
29	B1	774	G
29	B1	776	U
29	B1	777	U
29	B1	778	U
29	B1	779	G
29	B1	781	G
29	B1	782	U
29	B1	784	A
29	B1	785	G
29	B1	786	A
29	B1	787	G
29	B1	788	C
29	B1	791	A
29	B1	794	U
29	B1	798	G
29	B1	802	C
29	B1	803	C
29	B1	805	G
29	B1	806	A
29	B1	807	A
29	B1	808	A
29	B1	809	G

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Mol	Chain	Res	Type
29	B1	810	A
29	B1	815	G
29	B1	817	A
29	B1	822	G
29	B1	825	U
29	B1	826	G
29	B1	828	A
29	B1	830	A
29	B1	831	G
29	B1	834	U
29	B1	835	G
29	B1	836	A
29	B1	837	A
29	B1	838	G
29	B1	841	A
29	B1	845	G
29	B1	846	A
29	B1	847	A
29	B1	857	G
29	B1	858	A
29	B1	859	G
29	B1	860	G
29	B1	861	C
29	B1	863	C
29	B1	870	G
29	B1	871	U
29	B1	874	U
29	B1	875	G
29	B1	879	U
29	B1	880	G
29	B1	882	A
29	B1	884	A
29	B1	886	C
29	B1	887	G
29	B1	888	A
29	B1	892	U
29	B1	894	G
29	B1	895	A
29	B1	896	A
29	B1	897	U
29	B1	901	G
29	B1	903	U

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Mol	Chain	Res	Type
29	B1	907	G
29	B1	908	G
29	B1	909	G
29	B1	911	C
29	B1	913	A
29	B1	914	A
29	B1	915	A
29	B1	916	G
29	B1	917	A
29	B1	920	A
29	B1	921	A
29	B1	922	U
29	B1	924	G
29	B1	933	A
29	B1	934	G
29	B1	937	G
29	B1	939	U
29	B1	941	G
29	B1	943	U
29	B1	944	C
29	B1	945	C
29	B1	947	G
29	B1	949	C
29	B1	952	A
29	B1	953	G
29	B1	954	U
29	B1	957	C
29	B1	958	C
29	B1	960	U
29	B1	961	C
29	B1	962	A
29	B1	963	G
29	B1	967	A
29	B1	970	A
29	B1	971	G
29	B1	974	G
29	B1	975	C
29	B1	978	G
29	B1	979	U
29	B1	980	A
29	B1	981	U
29	B1	984	G

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Mol	Chain	Res	Type
29	B1	987	U
29	B1	994	G
29	B1	995	U
29	B1	996	A
29	B1	1000	C
29	B1	1002	A
29	B1	1006	A
29	B1	1007	U
29	B1	1010	G
29	B1	1011	A
29	B1	1013	G
29	B1	1014	U
29	B1	1015	U
29	B1	1017	C
29	B1	1019	G
29	B1	1024	G
29	B1	1026	A
29	B1	1027	A
29	B1	1030	A
29	B1	1033	U
29	B1	1036	A
29	B1	1038	C
29	B1	1041	U
29	B1	1042	U
29	B1	1043	C
29	B1	1047	A
29	B1	1048	A
29	B1	1049	C
29	B1	1053	A
29	B1	1060	U
29	B1	1061	A
29	B1	1063	G
29	B1	1064	A
29	B1	1065	A
29	B1	1066	G
29	B1	1067	U
29	B1	1068	C
29	B1	1071	U
29	B1	1073	U
29	B1	1074	U
29	B1	1075	A
29	B1	1077	U

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Mol	Chain	Res	Type
29	B1	1078	U
29	B1	1079	A
29	B1	1080	A
29	B1	1081	U
29	B1	1082	U
29	B1	1085	A
29	B1	1086	C
29	B1	1093	A
29	B1	1094	U
29	B1	1095	U
29	B1	1096	U
29	B1	1097	G
29	B1	1098	A
29	B1	1100	U
29	B1	1101	G
29	B1	1102	A
29	B1	1103	A
29	B1	1104	G
29	B1	1105	A
29	B1	1109	U
29	B1	1110	U
29	B1	1113	G
29	B1	1115	G
29	B1	1116	G
29	B1	1117	G
29	B1	1119	C
29	B1	1120	A
29	B1	1123	U
29	B1	1124	U
29	B1	1128	U
29	B1	1129	A
29	B1	1130	A
29	B1	1131	G
29	B1	1132	C
29	B1	1133	A
29	B1	1136	A
29	B1	1139	G
29	B1	1140	G
29	B1	1142	G
29	B1	1143	A
29	B1	1144	U
29	B1	1145	G

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Mol	Chain	Res	Type
29	B1	1149	G
29	B1	1151	U
29	B1	1152	G
29	B1	1153	A
29	B1	1154	A
29	B1	1155	C
29	B1	1157	G
29	B1	1158	A
29	B1	1159	A
29	B1	1160	C
29	B1	1162	U
29	B1	1163	A
29	B1	1168	U
29	B1	1169	A
29	B1	1175	C
29	B1	1176	C
29	B1	1177	G
29	B1	1178	G
29	B1	1179	A
29	B1	1180	A
29	B1	1181	U
29	B1	1184	A
29	B1	1187	C
29	B1	1190	A
29	B1	1191	U
29	B1	1192	C
29	B1	1193	A
29	B1	1194	G
29	B1	1195	A
29	B1	1196	C
29	B1	1197	A
29	B1	1198	C
29	B1	1199	C
29	B1	1200	A
29	B1	1201	C
29	B1	1202	A
29	B1	1203	A
29	B1	1205	A
29	B1	1207	G
29	B1	1208	U
29	B1	1209	G
29	B1	1211	U

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Mol	Chain	Res	Type
29	B1	1212	A
29	B1	1213	G
29	B1	1214	U
29	B1	1217	A
29	B1	1218	U
29	B1	1219	C
29	B1	1220	U
29	B1	1222	G
29	B1	1223	A
29	B1	1224	C
29	B1	1225	A
29	B1	1226	G
29	B1	1231	A
29	B1	1232	C
29	B1	1233	G
29	B1	1234	G
29	B1	1235	U
29	B1	1236	G
29	B1	1237	G
29	B1	1238	C
29	B1	1242	G
29	B1	1243	G
29	B1	1244	A
29	B1	1245	A
29	B1	1246	G
29	B1	1247	U
29	B1	1248	C
29	B1	1250	G
29	B1	1252	A
29	B1	1253	U
29	B1	1254	C
29	B1	1256	G
29	B1	1257	C
29	B1	1258	U
29	B1	1259	A
29	B1	1260	A
29	B1	1261	G
29	B1	1262	G
29	B1	1263	A
29	B1	1264	G
29	B1	1265	U
29	B1	1267	U

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Mol	Chain	Res	Type
29	B1	1269	U
29	B1	1270	A
29	B1	1272	C
29	B1	1273	A
29	B1	1277	C
29	B1	1278	A
29	B1	1279	C
29	B1	1281	G
29	B1	1285	G
29	B1	1286	A
29	B1	1287	A
29	B1	1288	U
29	B1	1289	G
29	B1	1290	A
29	B1	1291	A
29	B1	1292	C
29	B1	1295	G
29	B1	1296	C
29	B1	1297	C
29	B1	1299	U
29	B1	1303	A
29	B1	1305	U
29	B1	1307	G
29	B1	1308	A
29	B1	1309	U
29	B1	1310	G
29	B1	1313	G
29	B1	1314	C
29	B1	1315	U
29	B1	1316	C
29	B1	1318	A
29	B1	1320	C
29	B1	1323	G
29	B1	1324	U
29	B1	1325	U
29	B1	1326	A
29	B1	1330	A
29	B1	1331	U
29	B1	1332	A
29	B1	1342	C
29	B1	1348	U
29	B1	1349	G

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Mol	Chain	Res	Type
29	B1	1350	A
29	B1	1351	U
29	B1	1353	U
29	B1	1354	G
29	B1	1355	A
29	B1	1356	U
29	B1	1365	G
29	B1	1367	G
29	B1	1368	U
29	B1	1370	G
29	B1	1371	G
29	B1	1378	U
29	B1	1379	G
29	B1	1380	G
29	B1	1384	U
29	B1	1385	C
29	B1	1386	A
29	B1	1389	G
29	B1	1390	A
29	B1	1392	G
29	B1	1394	A
29	B1	1395	G
29	B1	1398	U
29	B1	1399	A
29	B1	1400	G
29	B1	1404	G
29	B1	1405	U
29	B1	1406	A
29	B1	1407	A
29	B1	1408	G
29	B1	1410	U
29	B1	1411	C
29	B1	1412	G
29	B1	1416	C
29	B1	1418	A
29	B1	1419	A
29	B1	1429	G
29	B1	1430	U
29	B1	1431	G
29	B1	1434	G
29	B1	1435	A
29	B1	1437	C

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Mol	Chain	Res	Type
29	B1	1440	G
29	B1	1441	G
29	B1	1442	U
29	B1	1445	U
29	B1	1446	A
29	B1	1450	G
29	B1	1453	A
29	B1	1455	U
29	B1	1456	A
29	B1	1460	A
29	B1	1462	A
29	B1	1465	A
29	B1	1467	A
29	B1	1468	A
29	B1	1469	C
29	B1	1470	U
29	B1	1478	C
29	B1	1479	U
29	B1	1480	G
29	B1	1481	A
29	B1	1482	A
29	B1	1483	G
29	B1	1484	U
29	B1	1485	G
29	B1	1488	G
29	B1	1493	G
29	B1	1495	U
29	B1	1496	C
29	B1	1497	C
29	B1	1501	U
29	B1	1503	A
29	B1	1504	A
29	B1	1505	C
29	B1	1506	A
29	B1	1507	G
29	B1	1508	C
29	B1	1509	A
29	B1	1510	G
29	B1	1511	U
29	B1	1520	G
29	B1	1521	G
29	B1	1524	A

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Mol	Chain	Res	Type
29	B1	1525	G
29	B1	1527	C
29	B1	1530	U
29	B1	1531	C
29	B1	1533	U
29	B1	1535	A
29	B1	1536	G
29	B1	1539	A
29	B1	1540	U
29	B1	1542	G
29	B1	1548	C
29	B1	1549	U
29	B1	1551	C
29	B1	1552	G
29	B1	1553	U
29	B1	1554	U
29	B1	1556	C
29	B1	1557	A
29	B1	1558	A
29	B1	1559	A
29	B1	1560	G
29	B1	1567	U
29	B1	1568	U
29	B1	1572	U
29	B1	1575	A
29	B1	1579	C
29	B1	1580	A
29	B1	1581	C
29	B1	1582	C
29	B1	1583	A
29	B1	1584	U
29	B1	1587	A
29	B1	1589	A
29	B1	1593	A
29	B1	1595	U
29	B1	1596	C
29	B1	1601	U
29	B1	1602	A
29	B1	1605	A
29	B1	1606	U
29	B1	1607	U
29	B1	1608	C

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Mol	Chain	Res	Type
29	B1	1609	C
29	B1	1610	G
29	B1	1620	U
29	B1	1622	U
29	B1	1626	U
29	B1	1627	U
29	B1	1628	C
29	B1	1629	U
29	B1	1630	U
29	B1	1631	C
29	B1	1632	A
29	B1	1633	C
29	B1	1634	G
29	B1	1635	G
29	B1	1636	U
29	B1	1638	A
29	B1	1639	C
29	B1	1641	U
29	B1	1642	A
29	B1	1643	A
29	B1	1644	C
29	B1	1645	U
29	B1	1646	G
29	B1	1652	G
29	B1	1653	G
29	B1	1655	G
29	B1	1656	A
29	B1	1657	C
29	B1	1661	G
29	B1	1667	A
29	B1	1668	G
29	B1	1671	C
29	B1	1672	U
29	B1	1678	G
29	B1	1681	U
29	B1	1682	U
29	B1	1683	A
29	B1	1684	U
29	B1	1685	C
29	B1	1686	U
29	B1	1687	U
29	B1	1688	U

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Mol	Chain	Res	Type
29	B1	1689	U
29	B1	1692	U
29	B1	1694	U
29	B1	1698	C
29	B1	1699	A
29	B1	1701	C
29	B1	1703	U
29	B1	1704	A
29	B1	1706	C
29	B1	1708	C
29	B1	1710	C
29	B1	1713	G
29	B1	1714	A
29	B1	1716	U
29	B1	1717	U
29	B1	1724	U
29	B1	1725	C
29	B1	1726	C
29	B1	1727	G
29	B1	1728	G
29	B1	1729	A
29	B1	1730	G
29	B1	1734	G
29	B1	1735	G
29	B1	1736	G
29	B1	1739	U
29	B1	1740	U
29	B1	1744	G
29	B1	1750	A
29	B1	1754	G
29	B1	1756	C
29	B1	1760	A
29	B1	1762	C
29	B1	1766	G
29	B1	1769	G
29	B1	1773	C
29	B1	1774	C
29	B1	1775	G
29	B1	1779	C
29	B1	1780	G
29	B1	1781	C
29	B1	1782	U

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Mol	Chain	Res	Type
29	B1	1783	U
29	B1	1786	G
29	B1	1787	A
29	B1	1788	C
29	B1	1792	C
29	B1	1793	C
29	B1	1794	G
29	B1	1795	U
29	B1	1796	G
29	B1	1797	A
29	B1	1802	C
29	B1	1803	C
29	B1	1806	A
29	B1	1807	G
29	B1	1808	G
29	B1	1809	A
29	B1	1810	A
29	B1	1812	G
29	B1	1813	A
29	B1	1814	A
29	B1	1815	U
29	B1	1816	A
29	B1	1820	U
29	B1	1821	U
29	B1	1822	C
29	B1	1830	G
29	B1	1834	U
29	B1	1835	A
29	B1	1839	A
29	B1	1840	U
29	B1	1841	A
29	B1	1842	A
29	B1	1844	C
29	B1	1846	C
29	B1	1847	A
29	B1	1849	C
29	B1	1852	G
29	B1	1853	U
29	B1	1855	U
29	B1	1857	C
29	B1	1858	A
29	B1	1859	A

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Mol	Chain	Res	Type
29	B1	1860	G
29	B1	1864	A
29	B1	1871	U
29	B1	1875	G
29	B1	1876	U
29	B1	1877	U
29	B1	1878	G
29	B1	1879	A
29	B1	1880	U
29	B1	1881	A
29	B1	1885	U
29	B1	1886	A
29	B1	1889	G
29	B1	1891	A
29	B1	1895	A
29	B1	1901	A
29	B1	1905	G
29	B1	1906	G
29	B1	1907	C
29	B1	1913	A
29	B1	1914	G
29	B1	1920	U
29	B1	1921	A
29	B1	1925	U
29	B1	1926	C
29	B1	1927	G
29	B1	1928	G
29	B1	1930	A
29	B1	1931	U
29	B1	1932	A
29	B1	1933	A
29	B1	1935	G
29	B1	1941	C
29	B1	1946	A
29	B1	1947	G
29	B1	1948	G
29	B1	1950	U
29	B1	2093	A
29	B1	2095	G
29	B1	2096	A
29	B1	2102	U
29	B1	2105	G

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Mol	Chain	Res	Type
29	B1	2106	A
29	B1	2111	G
29	B1	2112	U
29	B1	2113	A
29	B1	2114	C
29	B1	2115	G
29	B1	2117	A
29	B1	2121	G
29	B1	2122	G
29	B1	2126	A
29	B1	2129	U
29	B1	2130	G
29	B1	2131	A
29	B1	2132	C
29	B1	2137	U
29	B1	2138	A
29	B1	2139	A
29	B1	2144	A
29	B1	2147	A
29	B1	2148	U
29	B1	2149	A
29	B1	2150	G
29	B1	2151	C
29	B1	2152	A
29	B1	2158	A
29	B1	2161	G
29	B1	2168	A
29	B1	2169	G
29	B1	2172	A
29	B1	2173	U
29	B1	2174	G
29	B1	2176	U
29	B1	2178	A
29	B1	2185	G
29	B1	2187	G
29	B1	2188	A
29	B1	2191	U
29	B1	2193	U
29	B1	2194	G
29	B1	2195	C
29	B1	2201	G
29	B1	2205	U

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Mol	Chain	Res	Type
29	B1	2206	G
29	B1	2207	A
29	B1	2208	A
29	B1	2209	U
29	B1	2210	G
29	B1	2211	U
29	B1	2215	A
29	B1	2222	A
29	B1	2223	A
29	B1	2224	A
29	B1	2227	C
29	B1	2237	C
29	B1	2244	A
29	B1	2247	G
29	B1	2248	C
29	B1	2249	G
29	B1	2250	G
29	B1	2252	A
29	B1	2254	U
29	B1	2255	A
29	B1	2256	A
29	B1	2257	C
29	B1	2259	A
29	B1	2260	U
29	B1	2261	G
29	B1	2262	A
29	B1	2263	C
29	B1	2264	U
29	B1	2266	U
29	B1	2270	A
29	B1	2272	G
29	B1	2273	G
29	B1	2275	A
29	B1	2276	G
29	B1	2277	C
29	B1	2280	A
29	B1	2281	A
29	B1	2282	U
29	B1	2283	G
29	B1	2286	U
29	B1	2288	G
29	B1	2290	C

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Mol	Chain	Res	Type
29	B1	2291	A
29	B1	2292	U
29	B1	2295	A
29	B1	2296	A
29	B1	2297	U
29	B1	2298	U
29	B1	2299	A
29	B1	2300	G
29	B1	2303	A
29	B1	2306	C
29	B1	2307	G
29	B1	2308	C
29	B1	2309	A
29	B1	2310	U
29	B1	2311	G
29	B1	2313	A
29	B1	2314	U
29	B1	2315	G
29	B1	2320	A
29	B1	2324	A
29	B1	2325	G
29	B1	2326	A
29	B1	2327	U
29	B1	2329	C
29	B1	2330	C
29	B1	2334	U
29	B1	2335	G
29	B1	2336	U
29	B1	2339	C
29	B1	2341	A
29	B1	2342	U
29	B1	2344	U
29	B1	2345	A
29	B1	2360	C
29	B1	2361	A
29	B1	2363	A
29	B1	2364	G
29	B1	2365	C
29	B1	2371	G
29	B1	2372	A
29	B1	2373	A
29	B1	2374	C

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Mol	Chain	Res	Type
29	B1	2375	G
29	B1	2377	G
29	B1	2379	U
29	B1	2380	U
29	B1	2383	C
29	B1	2384	A
29	B1	2385	G
29	B1	2386	A
29	B1	2390	A
29	B1	2393	G
29	B1	2397	A
29	B1	2401	A
29	B1	2402	A
29	B1	2403	G
29	B1	2404	A
29	B1	2405	C
29	B1	2410	U
29	B1	2411	U
29	B1	2412	G
29	B1	2414	G
29	B1	2415	C
29	B1	2417	U
29	B1	2421	U
29	B1	2422	C
29	B1	2423	U
29	B1	2424	A
29	B1	2432	A
29	B1	2433	U
29	B1	2434	U
29	B1	2436	U
29	B1	2437	G
29	B1	2439	A
29	B1	2443	A
29	B1	2445	A
29	B1	2446	U
29	B1	2449	A
29	B1	2450	G
29	B1	2451	G
29	B1	2452	G
29	B1	2453	U
29	B1	2454	G
29	B1	2458	A

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Mol	Chain	Res	Type
29	B1	2459	A
29	B1	2461	A
29	B1	2462	A
29	B1	2463	G
29	B1	2468	A
29	B1	2472	U
29	B1	2473	C
29	B1	2474	G
29	B1	2479	C
29	B1	2484	A
29	B1	2485	A
29	B1	2486	A
29	B1	2487	U
29	B1	2488	A
29	B1	2491	A
29	B1	2492	C
29	B1	2493	U
29	B1	2499	U
29	B1	2500	A
29	B1	2501	U
29	B1	2502	A
29	B1	2503	G
29	B1	2504	U
29	B1	2508	U
29	B1	2511	A
29	B1	2512	C
29	B1	2513	U
29	B1	2514	U
29	B1	2515	A
29	B1	2516	U
29	B1	2517	U
29	B1	2520	A
29	B1	2521	U
29	B1	2522	G
29	B1	2523	A
29	B1	2524	A
29	B1	2525	G
29	B1	2526	C
29	B1	2528	G
29	B1	2530	G
29	B1	2531	C
29	B1	2536	A

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Mol	Chain	Res	Type
29	B1	2539	C
29	B1	2540	A
29	B1	2541	U
29	B1	2542	U
29	B1	2543	U
29	B1	2547	A
29	B1	2548	C
29	B1	2549	G
29	B1	2550	U
29	B1	2552	C
29	B1	2553	U
29	B1	2554	A
29	B1	2555	G
29	B1	2556	C
29	B1	2557	A
29	B1	2558	U
29	B1	2559	U
29	B1	2560	C
29	B1	2561	A
29	B1	2569	A
29	B1	2572	C
29	B1	2574	G
29	B1	2580	A
29	B1	2581	U
29	B1	2582	C
29	B1	2583	C
29	B1	2584	G
29	B1	2585	G
29	B1	2586	G
29	B1	2587	U
29	B1	2589	G
29	B1	2593	A
29	B1	2594	C
29	B1	2598	G
29	B1	2600	C
29	B1	2603	G
29	B1	2605	G
29	B1	2606	G
29	B1	2607	G
29	B1	2612	U
29	B1	2613	U
29	B1	2614	G

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Mol	Chain	Res	Type
29	B1	2618	G
29	B1	2619	G
29	B1	2624	G
29	B1	2626	A
29	B1	2627	C
29	B1	2628	A
29	B1	2629	U
29	B1	2631	U
29	B1	2636	A
29	B1	2637	A
29	B1	2638	C
29	B1	2639	G
29	B1	2642	A
29	B1	2643	A
29	B1	2644	C
29	B1	2648	G
29	B1	2649	A
29	B1	2650	U
29	B1	2651	G
29	B1	2652	U
29	B1	2653	C
29	B1	2655	U
29	B1	2656	A
29	B1	2657	A
29	B1	2658	G
29	B1	2662	G
29	B1	2663	G
29	B1	2664	C
29	B1	2666	C
29	B1	2667	A
29	B1	2668	U
29	B1	2671	A
29	B1	2672	G
29	B1	2675	C
29	B1	2676	A
29	B1	2677	G
29	B1	2678	A
29	B1	2679	A
29	B1	2681	U
29	B1	2682	C
29	B1	2683	U
29	B1	2684	C

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Mol	Chain	Res	Type
29	B1	2685	C
29	B1	2686	A
29	B1	2687	G
29	B1	2688	U
29	B1	2689	A
29	B1	2690	G
29	B1	2691	A
29	B1	2693	C
29	B1	2694	A
29	B1	2695	A
29	B1	2696	A
29	B1	2697	A
29	B1	2699	G
29	B1	2700	G
29	B1	2702	A
29	B1	2703	A
29	B1	2704	A
29	B1	2707	C
29	B1	2708	C
29	B1	2709	C
29	B1	2710	C
29	B1	2712	U
29	B1	2713	U
29	B1	2714	G
29	B1	2715	A
29	B1	2716	U
29	B1	2717	U
29	B1	2718	U
29	B1	2719	U
29	B1	2725	U
29	B1	2726	C
29	B1	2727	A
29	B1	2728	G
29	B1	2729	U
29	B1	2730	G
29	B1	2731	U
29	B1	2733	A
29	B1	2735	U
29	B1	2740	A
29	B1	2742	C
29	B1	2743	A
29	B1	2746	A

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Mol	Chain	Res	Type
29	B1	2751	G
29	B1	2752	U
29	B1	2753	G
29	B1	2755	C
29	B1	2756	C
29	B1	2760	C
29	B1	2762	A
29	B1	2764	C
29	B1	2766	U
29	B1	2769	A
29	B1	2771	U
29	B1	2772	C
29	B1	2776	C
29	B1	2777	G
29	B1	2778	G
29	B1	2779	A
29	B1	2780	A
29	B1	2782	U
29	B1	2783	U
29	B1	2784	G
29	B1	2787	G
29	B1	2790	A
29	B1	2796	G
29	B1	2798	C
29	B1	2799	A
29	B1	2800	G
29	B1	2801	A
29	B1	2802	A
29	B1	2804	A
29	B1	2805	G
29	B1	2807	U
29	B1	2809	C
29	B1	2810	C
29	B1	2814	G
29	B1	2816	G
29	B1	2817	A
29	B1	2818	U
29	B1	2822	U
29	B1	2823	G
29	B1	2825	C
29	B1	2826	U
29	B1	2828	G

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Mol	Chain	Res	Type
29	B1	2829	U
29	B1	2830	G
29	B1	2833	A
29	B1	2834	G
29	B1	2835	U
29	B1	2836	C
29	B1	2838	A
29	B1	2839	G
29	B1	2840	C
29	B1	2842	U
29	B1	2843	U
29	B1	2844	C
29	B1	2845	A
29	B1	2846	U
29	B1	2847	A
29	B1	2849	C
29	B1	2850	G
29	B1	2851	A
29	B1	2852	C
29	B1	2859	U
29	B1	2860	U
29	B1	2867	C
29	B1	2870	C
29	B1	2871	G
29	B1	2872	A
29	B1	2873	U
29	B1	2874	G
29	B1	2875	U
29	B1	2878	G
29	B1	2881	C
29	B1	2882	U
29	B1	2883	U
29	B1	2884	C
29	B1	2886	U
29	B1	2887	A
29	B1	2888	U
29	B1	2894	C
29	B1	2896	A
29	B1	2897	A
29	B1	2898	G
29	B1	2899	C
29	B1	2900	A

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Mol	Chain	Res	Type
29	B1	2901	G
29	B1	2905	U
29	B1	2911	A
29	B1	2912	G
29	B1	2914	G
29	B1	2915	U
29	B1	2916	U
29	B1	2918	G
29	B1	2919	A
29	B1	2920	U
29	B1	2922	G
29	B1	2923	U
29	B1	2928	C
29	B1	2929	C
29	B1	2932	U
29	B1	2935	U
29	B1	2936	A
29	B1	2939	G
29	B1	2941	A
29	B1	2942	C
29	B1	2943	G
29	B1	2944	U
29	B1	2945	G
29	B1	2947	G
29	B1	2954	U
29	B1	2957	G
29	B1	2960	C
29	B1	2961	G
29	B1	2962	U
29	B1	2965	U
29	B1	2968	G
29	B1	2971	A
29	B1	2972	G
29	B1	2973	G
29	B1	2978	U
29	B1	2979	U
29	B1	2983	C
29	B1	2984	C
29	B1	2986	U
29	B1	2988	C
29	B1	2989	U
29	B1	2990	G

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Mol	Chain	Res	Type
29	B1	2993	G
29	B1	2996	U
29	B1	2997	G
29	B1	2998	U
29	B1	2999	U
29	B1	3003	G
29	B1	3005	A
29	B1	3006	A
29	B1	3011	A
29	B1	3012	A
29	B1	3013	U
29	B1	3014	U
29	B1	3019	U
29	B1	3020	U
29	B1	3023	U
29	B1	3024	A
29	B1	3025	C
29	B1	3028	G
29	B1	3030	G
29	B1	3031	G
29	B1	3033	A
29	B1	3039	C
29	B1	3040	A
29	B1	3041	U
29	B1	3045	G
29	B1	3046	A
29	B1	3048	A
29	B1	3049	A
29	B1	3052	G
29	B1	3054	U
29	B1	3056	U
29	B1	3057	U
29	B1	3058	U
29	B1	3059	G
29	B1	3060	C
29	B1	3061	G
29	B1	3064	U
29	B1	3066	U
29	B1	3071	U
29	B1	3072	C
29	B1	3074	G
29	B1	3075	G

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Mol	Chain	Res	Type
29	B1	3077	A
29	B1	3078	U
29	B1	3079	U
29	B1	3080	G
29	B1	3090	U
29	B1	3091	A
29	B1	3092	C
29	B1	3093	C
29	B1	3094	A
29	B1	3096	C
29	B1	3097	C
29	B1	3098	G
29	B1	3099	C
29	B1	3100	U
29	B1	3101	G
29	B1	3102	G
29	B1	3103	A
29	B1	3104	U
29	B1	3105	U
29	B1	3113	A
29	B1	3115	C
29	B1	3120	C
29	B1	3121	U
29	B1	3122	A
29	B1	3123	A
29	B1	3126	C
29	B1	3127	A
29	B1	3128	G
29	B1	3129	A
29	B1	3130	A
29	B1	3131	U
29	B1	3133	C
29	B1	3134	A
29	B1	3136	G
29	B1	3137	C
29	B1	3138	U
29	B1	3139	A
29	B1	3140	G
29	B1	3141	A
29	B1	3142	A
29	B1	3143	C
29	B1	3144	G

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Mol	Chain	Res	Type
29	B1	3145	C
29	B1	3149	G
29	B1	3151	U
29	B1	3152	U
29	B1	3153	U
29	B1	3154	C
29	B1	3157	U
29	B1	3159	C
29	B1	3160	U
29	B1	3161	C
29	B1	3162	C
29	B1	3163	A
29	B1	3164	C
29	B1	3166	C
29	B1	3169	U
29	B1	3170	A
29	B1	3171	U
29	B1	3172	A
29	B1	3173	G
29	B1	3174	A
29	B1	3175	U
29	B1	3176	G
29	B1	3177	G
29	B1	3178	A
29	B1	3179	U
29	B1	3180	A
29	B1	3181	C
29	B1	3184	A
29	B1	3185	U
29	B1	3187	A
29	B1	3191	G
29	B1	3195	U
29	B1	3196	U
29	B1	3198	U
29	B1	3199	G
29	B1	3200	G
29	B1	3201	C
29	B1	3202	G
29	B1	3203	U
29	B1	3204	C
29	B1	3205	G
29	B1	3206	C

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Mol	Chain	Res	Type
29	B1	3207	U
29	B1	3208	G
29	B1	3209	A
29	B1	3210	A
29	B1	3211	C
29	B1	3212	C
29	B1	3214	U
29	B1	3215	A
29	B1	3216	G
29	B1	3217	C
29	B1	3218	A
29	B1	3219	G
29	B1	3220	G
29	B1	3223	A
29	B1	3225	C
29	B1	3227	A
29	B1	3228	C
29	B1	3229	G
29	B1	3237	U
29	B1	3238	G
29	B1	3243	A
29	B1	3244	A
29	B1	3245	A
29	B1	3246	G
29	B1	3254	G
29	B1	3257	C
29	B1	3258	U
29	B1	3259	U
29	B1	3260	G
29	B1	3261	C
29	B1	3262	U
29	B1	3263	G
29	B1	3265	C
29	B1	3267	A
29	B1	3268	A
29	B1	3269	U
29	B1	3270	U
29	B1	3271	G
29	B1	3272	C
29	B1	3273	A
29	B1	3274	A
29	B1	3275	U

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Mol	Chain	Res	Type
29	B1	3276	G
29	B1	3277	U
29	B1	3279	A
29	B1	3280	U
29	B1	3281	U
29	B1	3282	U
29	B1	3283	U
29	B1	3285	C
29	B1	3287	U
29	B1	3288	G
29	B1	3290	G
29	B1	3291	G
29	B1	3292	A
29	B1	3293	U
29	B1	3294	A
29	B1	3300	U
29	B1	3301	U
29	B1	3302	U
29	B1	3303	G
29	B1	3304	U
29	B1	3305	A
29	B1	3306	U
29	B1	3312	U
29	B1	3313	U
29	B1	3314	A
29	B1	3315	G
29	B1	3316	A
29	B1	3317	U
29	B1	3318	G
29	B1	3319	U
29	B1	3320	A
29	B1	3321	C
29	B1	3322	A
29	B1	3324	C
29	B1	3329	U
29	B1	3331	U
29	B1	3332	U
29	B1	3333	G
29	B1	3334	U
29	B1	3339	A
29	B1	3341	U
29	B1	3342	A

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Mol	Chain	Res	Type
29	B1	3343	G
29	B1	3344	A
29	B1	3350	C
29	B1	3351	U
29	B1	3352	U
29	B1	3353	G
29	B1	3354	U
29	B1	3355	U
29	B1	3356	G
29	B1	3357	U
29	B1	3358	U
29	B1	3360	C
29	B1	3361	G
29	B1	3362	A
29	B1	3363	U
29	B1	3369	G
29	B1	3370	A
29	B1	3371	G
29	B1	3372	A
29	B1	3375	A
29	B1	3376	A
29	B1	3377	G
29	B1	3378	C
29	B1	3379	C
29	B1	3381	U
29	B1	3382	U
29	B1	3383	G
29	B1	3384	U
29	B1	3387	U
29	B1	3389	U
29	B1	3390	G
29	B1	3392	U
29	B1	3394	U
29	B1	3395	G
29	B1	3396	U
30	B2	2	G
30	B2	3	U
30	B2	5	G
30	B2	6	C
30	B2	9	C
30	B2	10	C
30	B2	11	A

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Mol	Chain	Res	Type
30	B2	12	U
30	B2	13	A
30	B2	14	U
30	B2	15	C
30	B2	19	C
30	B2	22	A
30	B2	27	A
30	B2	29	C
30	B2	30	G
30	B2	31	U
30	B2	33	U
30	B2	34	C
30	B2	35	C
30	B2	36	C
30	B2	38	U
30	B2	39	C
30	B2	40	C
30	B2	41	G
30	B2	42	A
30	B2	43	U
30	B2	44	C
30	B2	47	C
30	B2	48	U
30	B2	49	G
30	B2	50	U
30	B2	51	A
30	B2	54	U
30	B2	55	A
30	B2	56	A
30	B2	58	C
30	B2	61	G
30	B2	63	A
30	B2	64	A
30	B2	65	G
30	B2	66	A
30	B2	68	C
30	B2	70	U
30	B2	75	G
30	B2	76	A
30	B2	78	U
30	B2	79	A
30	B2	81	U

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Mol	Chain	Res	Type
30	B2	83	U
30	B2	84	A
30	B2	87	G
30	B2	89	G
30	B2	92	A
30	B2	93	C
30	B2	96	U
30	B2	97	A
30	B2	98	C
30	B2	99	G
30	B2	102	A
30	B2	103	A
30	B2	105	C
30	B2	107	C
30	B2	109	G
30	B2	110	G
30	B2	112	G
30	B2	115	G
30	B2	118	A
30	B2	120	C
30	B2	121	U
31	B3	2	A
31	B3	6	U
31	B3	10	A
31	B3	12	A
31	B3	14	C
31	B3	15	G
31	B3	23	U
31	B3	24	G
31	B3	25	G
31	B3	30	C
31	B3	34	U
31	B3	38	U
31	B3	40	A
31	B3	41	A
31	B3	45	C
31	B3	49	G
31	B3	50	C
31	B3	51	G
31	B3	55	U
31	B3	59	A
31	B3	60	U

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Mol	Chain	Res	Type
31	B3	61	A
31	B3	62	C
31	B3	63	G
31	B3	65	A
31	B3	67	U
31	B3	68	G
31	B3	70	G
31	B3	71	A
31	B3	72	A
31	B3	73	U
31	B3	75	G
31	B3	76	C
31	B3	77	A
31	B3	78	G
31	B3	80	A
31	B3	82	U
31	B3	83	C
31	B3	85	G
31	B3	86	U
31	B3	87	G
31	B3	88	A
31	B3	89	A
31	B3	90	U
31	B3	93	U
31	B3	94	C
31	B3	95	G
31	B3	96	A
31	B3	97	A
31	B3	99	C
31	B3	101	U
31	B3	104	A
31	B3	105	A
31	B3	106	C
31	B3	107	G
31	B3	108	C
31	B3	110	C
31	B3	111	A
31	B3	112	U
31	B3	113	U
31	B3	114	G
31	B3	117	C
31	B3	124	G

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Mol	Chain	Res	Type
31	B3	125	U
31	B3	126	A
31	B3	127	U
31	B3	128	U
31	B3	129	C
31	B3	130	C
31	B3	132	G
31	B3	137	C
31	B3	138	A
31	B3	141	C
31	B3	145	U
31	B3	147	U
31	B3	149	A
31	B3	151	C
31	B3	152	G
31	B3	157	U
31	B3	158	U
1	C1	2	A
1	C1	3	U
1	C1	4	C
1	C1	7	G
1	C1	8	U
1	C1	13	C
1	C1	17	C
1	C1	20	G
1	C1	21	U
1	C1	22	A
1	C1	24	U
1	C1	25	C
1	C1	26	A
1	C1	27	U
1	C1	31	C
1	C1	34	G
1	C1	35	U
1	C1	40	A
1	C1	41	A
1	C1	42	G
1	C1	45	U
1	C1	46	A
1	C1	47	A
1	C1	48	G
1	C1	50	C

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Mol	Chain	Res	Type
1	C1	51	A
1	C1	54	C
1	C1	56	U
1	C1	57	G
1	C1	58	U
1	C1	59	C
1	C1	60	U
1	C1	61	A
1	C1	62	A
1	C1	63	G
1	C1	64	U
1	C1	65	A
1	C1	66	U
1	C1	67	A
1	C1	68	A
1	C1	69	G
1	C1	70	C
1	C1	71	A
1	C1	72	A
1	C1	75	U
1	C1	76	A
1	C1	77	U
1	C1	78	A
1	C1	79	C
1	C1	80	A
1	C1	81	G
1	C1	82	U
1	C1	83	G
1	C1	86	A
1	C1	88	U
1	C1	95	G
1	C1	99	C
1	C1	102	U
1	C1	104	A
1	C1	105	A
1	C1	106	U
1	C1	111	U
1	C1	112	A
1	C1	113	U
1	C1	114	C
1	C1	115	G
1	C1	117	U

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Mol	Chain	Res	Type
1	C1	119	A
1	C1	120	U
1	C1	121	U
1	C1	122	U
1	C1	123	G
1	C1	124	A
1	C1	125	U
1	C1	126	A
1	C1	128	U
1	C1	129	U
1	C1	130	C
1	C1	131	C
1	C1	132	U
1	C1	133	U
1	C1	134	U
1	C1	135	A
1	C1	136	C
1	C1	137	U
1	C1	138	A
1	C1	139	C
1	C1	140	A
1	C1	141	U
1	C1	144	U
1	C1	145	A
1	C1	146	U
1	C1	147	A
1	C1	148	A
1	C1	149	C
1	C1	150	U
1	C1	151	G
1	C1	154	G
1	C1	156	A
1	C1	158	U
1	C1	159	U
1	C1	160	C
1	C1	161	U
1	C1	162	A
1	C1	166	C
1	C1	167	U
1	C1	168	A
1	C1	169	A
1	C1	170	U

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Mol	Chain	Res	Type
1	C1	171	A
1	C1	172	C
1	C1	174	U
1	C1	176	C
1	C1	177	U
1	C1	178	U
1	C1	179	A
1	C1	180	A
1	C1	181	A
1	C1	184	C
1	C1	187	G
1	C1	190	C
1	C1	191	C
1	C1	192	U
1	C1	193	U
1	C1	194	U
1	C1	195	G
1	C1	196	G
1	C1	197	A
1	C1	198	A
1	C1	199	G
1	C1	200	A
1	C1	201	G
1	C1	204	G
1	C1	208	U
1	C1	209	U
1	C1	211	U
1	C1	212	U
1	C1	213	A
1	C1	215	A
1	C1	218	A
1	C1	219	A
1	C1	220	A
1	C1	224	C
1	C1	226	A
1	C1	227	U
1	C1	228	G
1	C1	229	U
1	C1	233	C
1	C1	234	G
1	C1	238	U
1	C1	241	U

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Mol	Chain	Res	Type
1	C1	242	U
1	C1	243	G
1	C1	244	A
1	C1	245	U
1	C1	246	G
1	C1	249	U
1	C1	250	C
1	C1	251	A
1	C1	252	U
1	C1	253	A
1	C1	254	A
1	C1	255	U
1	C1	256	A
1	C1	257	A
1	C1	259	U
1	C1	260	U
1	C1	261	U
1	C1	262	U
1	C1	263	C
1	C1	264	G
1	C1	265	A
1	C1	267	U
1	C1	270	C
1	C1	271	A
1	C1	272	U
1	C1	273	G
1	C1	274	G
1	C1	276	C
1	C1	277	U
1	C1	278	U
1	C1	280	U
1	C1	282	C
1	C1	283	U
1	C1	284	G
1	C1	285	G
1	C1	289	U
1	C1	295	A
1	C1	296	U
1	C1	297	U
1	C1	298	C
1	C1	299	A
1	C1	302	U

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Mol	Chain	Res	Type
1	C1	309	C
1	C1	310	C
1	C1	311	U
1	C1	312	A
1	C1	314	C
1	C1	316	A
1	C1	320	U
1	C1	321	C
1	C1	322	G
1	C1	323	A
1	C1	324	U
1	C1	327	U
1	C1	330	G
1	C1	331	A
1	C1	332	U
1	C1	333	A
1	C1	334	G
1	C1	335	U
1	C1	337	G
1	C1	338	C
1	C1	340	U
1	C1	341	A
1	C1	350	U
1	C1	351	C
1	C1	352	A
1	C1	354	C
1	C1	357	G
1	C1	359	A
1	C1	360	A
1	C1	361	C
1	C1	365	G
1	C1	366	A
1	C1	368	U
1	C1	369	A
1	C1	370	A
1	C1	373	G
1	C1	374	U
1	C1	375	U
1	C1	376	C
1	C1	378	A
1	C1	379	U
1	C1	381	C

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Mol	Chain	Res	Type
1	C1	382	C
1	C1	383	G
1	C1	385	A
1	C1	387	A
1	C1	390	G
1	C1	393	C
1	C1	394	C
1	C1	395	U
1	C1	396	G
1	C1	397	A
1	C1	399	A
1	C1	400	A
1	C1	401	A
1	C1	402	C
1	C1	403	G
1	C1	404	G
1	C1	406	U
1	C1	411	C
1	C1	415	C
1	C1	416	A
1	C1	417	A
1	C1	418	G
1	C1	419	G
1	C1	421	A
1	C1	424	C
1	C1	425	A
1	C1	426	G
1	C1	427	C
1	C1	428	A
1	C1	434	G
1	C1	436	A
1	C1	437	A
1	C1	438	A
1	C1	439	U
1	C1	440	U
1	C1	441	A
1	C1	444	C
1	C1	445	A
1	C1	446	A
1	C1	447	U
1	C1	448	C
1	C1	449	C

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Mol	Chain	Res	Type
1	C1	451	A
1	C1	452	A
1	C1	453	U
1	C1	454	U
1	C1	455	C
1	C1	458	G
1	C1	459	G
1	C1	462	G
1	C1	464	A
1	C1	467	G
1	C1	468	A
1	C1	469	C
1	C1	470	A
1	C1	475	A
1	C1	477	A
1	C1	480	G
1	C1	482	U
1	C1	485	A
1	C1	486	G
1	C1	487	G
1	C1	488	G
1	C1	489	C
1	C1	490	C
1	C1	493	U
1	C1	494	U
1	C1	495	C
1	C1	496	G
1	C1	498	G
1	C1	500	C
1	C1	504	U
1	C1	505	A
1	C1	506	A
1	C1	510	G
1	C1	511	A
1	C1	512	A
1	C1	513	U
1	C1	514	G
1	C1	515	A
1	C1	516	G
1	C1	517	U
1	C1	519	C
1	C1	522	U

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Mol	Chain	Res	Type
1	C1	523	G
1	C1	524	U
1	C1	526	A
1	C1	527	A
1	C1	528	U
1	C1	529	A
1	C1	530	C
1	C1	531	C
1	C1	535	A
1	C1	537	G
1	C1	538	A
1	C1	539	G
1	C1	540	G
1	C1	541	A
1	C1	542	A
1	C1	543	C
1	C1	544	A
1	C1	545	A
1	C1	546	U
1	C1	548	G
1	C1	550	A
1	C1	551	G
1	C1	554	C
1	C1	555	A
1	C1	556	A
1	C1	557	G
1	C1	558	U
1	C1	560	U
1	C1	561	G
1	C1	563	U
1	C1	564	G
1	C1	565	C
1	C1	568	G
1	C1	570	A
1	C1	572	C
1	C1	574	G
1	C1	578	U
1	C1	579	A
1	C1	580	A
1	C1	585	A
1	C1	594	A
1	C1	595	G

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Mol	Chain	Res	Type
1	C1	596	C
1	C1	599	A
1	C1	601	A
1	C1	602	U
1	C1	605	A
1	C1	607	G
1	C1	608	U
1	C1	609	U
1	C1	610	G
1	C1	611	U
1	C1	612	U
1	C1	614	C
1	C1	615	A
1	C1	616	G
1	C1	619	A
1	C1	620	A
1	C1	622	A
1	C1	623	A
1	C1	624	G
1	C1	626	U
1	C1	630	A
1	C1	633	U
1	C1	638	U
1	C1	639	U
1	C1	640	U
1	C1	646	C
1	C1	647	G
1	C1	649	U
1	C1	650	U
1	C1	653	C
1	C1	656	G
1	C1	659	C
1	C1	660	G
1	C1	662	U
1	C1	663	U
1	C1	665	U
1	C1	666	U
1	C1	667	U
1	C1	681	U
1	C1	682	C
1	C1	683	C
1	C1	685	A

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Mol	Chain	Res	Type
1	C1	686	C
1	C1	691	C
1	C1	692	C
1	C1	693	U
1	C1	694	U
1	C1	695	U
1	C1	696	C
1	C1	697	C
1	C1	698	U
1	C1	699	U
1	C1	702	G
1	C1	703	G
1	C1	706	A
1	C1	707	A
1	C1	708	C
1	C1	710	U
1	C1	714	G
1	C1	715	U
1	C1	718	U
1	C1	719	U
1	C1	720	G
1	C1	721	U
1	C1	722	G
1	C1	723	G
1	C1	729	G
1	C1	730	G
1	C1	731	C
1	C1	733	A
1	C1	736	C
1	C1	739	G
1	C1	741	C
1	C1	742	U
1	C1	743	U
1	C1	744	U
1	C1	750	U
1	C1	751	G
1	C1	754	A
1	C1	756	A
1	C1	765	G
1	C1	766	U
1	C1	767	U
1	C1	774	A

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Mol	Chain	Res	Type
1	C1	775	G
1	C1	778	G
1	C1	779	U
1	C1	780	A
1	C1	781	U
1	C1	782	U
1	C1	783	G
1	C1	787	G
1	C1	789	A
1	C1	790	U
1	C1	793	A
1	C1	794	U
1	C1	803	A
1	C1	808	U
1	C1	811	A
1	C1	812	A
1	C1	813	U
1	C1	814	A
1	C1	815	G
1	C1	816	G
1	C1	818	C
1	C1	819	G
1	C1	820	U
1	C1	821	U
1	C1	822	U
1	C1	823	G
1	C1	824	G
1	C1	825	U
1	C1	826	U
1	C1	828	U
1	C1	829	A
1	C1	830	U
1	C1	831	U
1	C1	832	U
1	C1	834	G
1	C1	839	U
1	C1	840	U
1	C1	841	U
1	C1	842	C
1	C1	844	A
1	C1	847	A
1	C1	848	C

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Mol	Chain	Res	Type
1	C1	850	A
1	C1	856	A
1	C1	857	U
1	C1	858	G
1	C1	860	U
1	C1	861	U
1	C1	862	A
1	C1	863	A
1	C1	864	U
1	C1	865	A
1	C1	872	G
1	C1	873	U
1	C1	876	G
1	C1	880	C
1	C1	881	A
1	C1	883	C
1	C1	886	U
1	C1	888	U
1	C1	891	A
1	C1	893	U
1	C1	894	U
1	C1	896	U
1	C1	897	C
1	C1	899	G
1	C1	901	G
1	C1	902	G
1	C1	903	U
1	C1	904	G
1	C1	905	A
1	C1	906	A
1	C1	909	U
1	C1	910	C
1	C1	911	U
1	C1	912	U
1	C1	913	G
1	C1	914	G
1	C1	915	A
1	C1	916	U
1	C1	920	U
1	C1	922	G
1	C1	923	A
1	C1	927	C

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Mol	Chain	Res	Type
1	C1	929	A
1	C1	932	U
1	C1	933	A
1	C1	934	C
1	C1	938	G
1	C1	939	A
1	C1	942	G
1	C1	943	C
1	C1	944	A
1	C1	952	A
1	C1	959	U
1	C1	960	U
1	C1	961	U
1	C1	964	U
1	C1	965	U
1	C1	966	A
1	C1	967	A
1	C1	973	A
1	C1	975	C
1	C1	976	G
1	C1	977	A
1	C1	978	A
1	C1	981	U
1	C1	987	G
1	C1	988	A
1	C1	992	A
1	C1	993	A
1	C1	995	A
1	C1	996	U
1	C1	998	A
1	C1	1000	C
1	C1	1003	A
1	C1	1004	U
1	C1	1005	A
1	C1	1007	C
1	C1	1008	G
1	C1	1010	C
1	C1	1019	A
1	C1	1027	A
1	C1	1028	C
1	C1	1029	U
1	C1	1030	A

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Mol	Chain	Res	Type
1	C1	1032	G
1	C1	1036	A
1	C1	1039	A
1	C1	1040	G
1	C1	1044	U
1	C1	1045	C
1	C1	1046	G
1	C1	1048	G
1	C1	1049	U
1	C1	1057	U
1	C1	1058	U
1	C1	1059	U
1	C1	1060	U
1	C1	1066	C
1	C1	1071	U
1	C1	1072	C
1	C1	1073	G
1	C1	1074	G
1	C1	1075	C
1	C1	1077	C
1	C1	1079	U
1	C1	1080	U
1	C1	1082	C
1	C1	1087	A
1	C1	1090	C
1	C1	1091	A
1	C1	1092	A
1	C1	1093	A
1	C1	1094	G
1	C1	1095	U
1	C1	1096	C
1	C1	1097	U
1	C1	1098	U
1	C1	1099	U
1	C1	1100	G
1	C1	1101	G
1	C1	1103	U
1	C1	1107	G
1	C1	1108	G
1	C1	1109	G
1	C1	1110	G
1	C1	1111	G

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Mol	Chain	Res	Type
1	C1	1112	G
1	C1	1113	A
1	C1	1114	G
1	C1	1115	U
1	C1	1119	G
1	C1	1124	A
1	C1	1126	G
1	C1	1129	U
1	C1	1136	U
1	C1	1137	A
1	C1	1138	A
1	C1	1139	A
1	C1	1140	G
1	C1	1141	G
1	C1	1142	A
1	C1	1143	A
1	C1	1145	U
1	C1	1146	G
1	C1	1147	A
1	C1	1149	G
1	C1	1150	G
1	C1	1151	A
1	C1	1152	A
1	C1	1153	G
1	C1	1154	G
1	C1	1158	C
1	C1	1160	A
1	C1	1161	C
1	C1	1162	C
1	C1	1166	A
1	C1	1167	G
1	C1	1168	U
1	C1	1178	G
1	C1	1179	G
1	C1	1185	U
1	C1	1186	U
1	C1	1189	A
1	C1	1190	C
1	C1	1191	U
1	C1	1193	A
1	C1	1194	A
1	C1	1196	A

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Mol	Chain	Res	Type
1	C1	1197	C
1	C1	1198	G
1	C1	1199	G
1	C1	1200	G
1	C1	1201	G
1	C1	1202	A
1	C1	1203	A
1	C1	1204	A
1	C1	1205	C
1	C1	1206	U
1	C1	1207	C
1	C1	1208	A
1	C1	1209	C
1	C1	1211	A
1	C1	1217	A
1	C1	1218	G
1	C1	1219	A
1	C1	1220	C
1	C1	1222	C
1	C1	1225	U
1	C1	1228	G
1	C1	1229	G
1	C1	1230	A
1	C1	1231	U
1	C1	1232	U
1	C1	1234	A
1	C1	1235	C
1	C1	1238	A
1	C1	1239	U
1	C1	1240	U
1	C1	1242	A
1	C1	1243	G
1	C1	1244	A
1	C1	1245	G
1	C1	1246	C
1	C1	1248	C
1	C1	1254	U
1	C1	1255	G
1	C1	1256	A
1	C1	1257	U
1	C1	1258	U
1	C1	1259	U

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Mol	Chain	Res	Type
1	C1	1260	U
1	C1	1264	G
1	C1	1266	U
1	C1	1268	G
1	C1	1270	G
1	C1	1273	G
1	C1	1274	C
1	C1	1275	A
1	C1	1276	U
1	C1	1280	C
1	C1	1283	U
1	C1	1284	C
1	C1	1286	U
1	C1	1287	A
1	C1	1288	G
1	C1	1290	U
1	C1	1297	G
1	C1	1299	G
1	C1	1302	U
1	C1	1303	U
1	C1	1306	C
1	C1	1310	U
1	C1	1311	U
1	C1	1312	A
1	C1	1314	U
1	C1	1315	U
1	C1	1316	G
1	C1	1321	A
1	C1	1324	G
1	C1	1325	A
1	C1	1326	A
1	C1	1331	A
1	C1	1332	C
1	C1	1333	C
1	C1	1335	U
1	C1	1336	A
1	C1	1337	A
1	C1	1340	U
1	C1	1341	A
1	C1	1342	C
1	C1	1345	A
1	C1	1346	A

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Mol	Chain	Res	Type
1	C1	1347	U
1	C1	1348	A
1	C1	1349	G
1	C1	1350	U
1	C1	1351	G
1	C1	1353	U
1	C1	1354	G
1	C1	1355	C
1	C1	1358	G
1	C1	1359	C
1	C1	1360	A
1	C1	1361	U
1	C1	1362	U
1	C1	1363	U
1	C1	1364	G
1	C1	1365	C
1	C1	1366	U
1	C1	1367	G
1	C1	1368	G
1	C1	1369	U
1	C1	1371	A
1	C1	1373	C
1	C1	1374	C
1	C1	1378	U
1	C1	1379	C
1	C1	1380	U
1	C1	1383	G
1	C1	1384	A
1	C1	1388	A
1	C1	1390	U
1	C1	1391	A
1	C1	1392	U
1	C1	1397	U
1	C1	1398	U
1	C1	1399	C
1	C1	1400	A
1	C1	1401	A
1	C1	1402	G
1	C1	1407	U
1	C1	1408	G
1	C1	1409	G
1	C1	1410	A

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Mol	Chain	Res	Type
1	C1	1412	G
1	C1	1413	U
1	C1	1414	U
1	C1	1415	U
1	C1	1418	G
1	C1	1419	G
1	C1	1420	C
1	C1	1422	A
1	C1	1427	A
1	C1	1428	G
1	C1	1429	G
1	C1	1431	C
1	C1	1432	U
1	C1	1433	G
1	C1	1434	U
1	C1	1435	G
1	C1	1436	A
1	C1	1438	G
1	C1	1443	U
1	C1	1445	G
1	C1	1446	A
1	C1	1447	C
1	C1	1448	G
1	C1	1449	U
1	C1	1450	U
1	C1	1454	G
1	C1	1455	G
1	C1	1456	C
1	C1	1458	G
1	C1	1459	C
1	C1	1460	A
1	C1	1466	G
1	C1	1467	C
1	C1	1468	U
1	C1	1469	A
1	C1	1471	A
1	C1	1472	C
1	C1	1473	U
1	C1	1474	G
1	C1	1477	G
1	C1	1478	G
1	C1	1479	A

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Mol	Chain	Res	Type
1	C1	1481	C
1	C1	1482	C
1	C1	1483	A
1	C1	1484	G
1	C1	1485	C
1	C1	1486	G
1	C1	1490	C
1	C1	1491	U
1	C1	1492	A
1	C1	1493	A
1	C1	1494	C
1	C1	1499	G
1	C1	1503	A
1	C1	1505	A
1	C1	1506	G
1	C1	1509	C
1	C1	1510	U
1	C1	1514	U
1	C1	1515	A
1	C1	1516	A
1	C1	1517	U
1	C1	1519	U
1	C1	1521	G
1	C1	1522	U
1	C1	1523	G
1	C1	1524	A
1	C1	1533	C
1	C1	1534	G
1	C1	1535	U
1	C1	1536	G
1	C1	1538	U
1	C1	1539	G
1	C1	1540	G
1	C1	1541	G
1	C1	1542	G
1	C1	1545	A
1	C1	1547	A
1	C1	1548	G
1	C1	1550	A
1	C1	1551	U
1	C1	1553	G
1	C1	1554	U

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Mol	Chain	Res	Type
1	C1	1555	A
1	C1	1556	A
1	C1	1557	U
1	C1	1558	U
1	C1	1559	A
1	C1	1560	U
1	C1	1568	C
1	C1	1570	A
1	C1	1572	G
1	C1	1573	A
1	C1	1574	G
1	C1	1575	G
1	C1	1576	A
1	C1	1581	C
1	C1	1583	A
1	C1	1584	G
1	C1	1587	A
1	C1	1590	G
1	C1	1591	C
1	C1	1592	A
1	C1	1598	U
1	C1	1599	C
1	C1	1600	A
1	C1	1601	G
1	C1	1602	C
1	C1	1605	G
1	C1	1607	G
1	C1	1609	U
1	C1	1611	A
1	C1	1613	U
1	C1	1614	A
1	C1	1615	C
1	C1	1616	G
1	C1	1618	C
1	C1	1623	C
1	C1	1624	C
1	C1	1625	C
1	C1	1627	U
1	C1	1628	U
1	C1	1630	U
1	C1	1631	A
1	C1	1632	C

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Mol	Chain	Res	Type
1	C1	1633	A
1	C1	1634	C
1	C1	1635	A
1	C1	1636	C
1	C1	1637	C
1	C1	1638	G
1	C1	1639	C
1	C1	1644	C
1	C1	1645	G
1	C1	1646	C
1	C1	1650	U
1	C1	1656	U
1	C1	1657	U
1	C1	1658	G
1	C1	1659	A
1	C1	1664	C
1	C1	1665	U
1	C1	1667	A
1	C1	1668	G
1	C1	1673	G
1	C1	1674	C
1	C1	1675	C
1	C1	1676	U
1	C1	1677	C
1	C1	1678	A
1	C1	1680	G
1	C1	1681	A
1	C1	1682	U
1	C1	1683	C
1	C1	1684	U
1	C1	1685	G
1	C1	1688	U
1	C1	1689	A
1	C1	1691	A
1	C1	1692	G
1	C1	1693	A
1	C1	1695	G
1	C1	1696	G
1	C1	1698	G
1	C1	1700	C
1	C1	1701	A
1	C1	1706	C

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Mol	Chain	Res	Type
1	C1	1707	A
1	C1	1710	U
1	C1	1711	C
1	C1	1716	C
1	C1	1719	A
1	C1	1720	G
1	C1	1722	A
1	C1	1728	A
1	C1	1731	A
1	C1	1739	C
1	C1	1740	A
1	C1	1744	A
1	C1	1746	A
1	C1	1748	G
1	C1	1754	A
1	C1	1755	A
1	C1	1756	A
1	C1	1757	G
1	C1	1760	G
1	C1	1762	A
1	C1	1764	C
1	C1	1766	A
1	C1	1767	G
1	C1	1768	G
1	C1	1769	U
1	C1	1770	U
1	C1	1772	C
1	C1	1773	C
1	C1	1774	G
1	C1	1777	G
1	C1	1779	U
1	C1	1780	G
1	C1	1782	A
1	C1	1783	C
1	C1	1788	G
1	C1	1792	G
1	C1	1793	G
1	C1	1794	A
1	C1	1795	U
1	C1	1797	A
1	C1	1798	U
29	D1	6	A

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Mol	Chain	Res	Type
29	D1	9	U
29	D1	10	C
29	D1	12	A
29	D1	14	U
29	D1	15	C
29	D1	16	A
29	D1	20	A
29	D1	21	G
29	D1	22	G
29	D1	25	U
29	D1	32	U
29	D1	35	A
29	D1	38	U
29	D1	40	A
29	D1	43	A
29	D1	44	U
29	D1	47	C
29	D1	50	U
29	D1	53	G
29	D1	56	G
29	D1	58	G
29	D1	59	G
29	D1	60	A
29	D1	62	A
29	D1	65	A
29	D1	66	A
29	D1	68	C
29	D1	70	A
29	D1	71	A
29	D1	72	C
29	D1	73	C
29	D1	74	G
29	D1	76	G
29	D1	77	A
29	D1	81	C
29	D1	83	U
29	D1	85	A
29	D1	87	U
29	D1	88	A
29	D1	89	A
29	D1	92	G
29	D1	93	C

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Mol	Chain	Res	Type
29	D1	94	G
29	D1	96	G
29	D1	97	U
29	D1	98	G
29	D1	99	A
29	D1	102	C
29	D1	103	G
29	D1	105	C
29	D1	106	A
29	D1	108	A
29	D1	109	A
29	D1	110	G
29	D1	113	C
29	D1	114	A
29	D1	117	U
29	D1	118	U
29	D1	119	U
29	D1	120	G
29	D1	121	A
29	D1	122	A
29	D1	125	C
29	D1	126	U
29	D1	127	G
29	D1	131	C
29	D1	133	U
29	D1	134	U
29	D1	136	G
29	D1	138	U
29	D1	141	C
29	D1	144	A
29	D1	145	G
29	D1	146	U
29	D1	147	U
29	D1	148	G
29	D1	149	U
29	D1	150	A
29	D1	152	U
29	D1	155	G
29	D1	156	G
29	D1	157	A
29	D1	158	G
29	D1	159	A

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Mol	Chain	Res	Type
29	D1	160	G
29	D1	161	G
29	D1	164	A
29	D1	167	U
29	D1	169	U
29	D1	170	G
29	D1	171	G
29	D1	172	G
29	D1	173	G
29	D1	175	C
29	D1	176	G
29	D1	177	U
29	D1	178	U
29	D1	179	C
29	D1	182	U
29	D1	187	A
29	D1	188	U
29	D1	190	U
29	D1	191	U
29	D1	196	G
29	D1	197	G
29	D1	199	A
29	D1	200	C
29	D1	201	A
29	D1	204	A
29	D1	205	C
29	D1	209	A
29	D1	210	U
29	D1	211	A
29	D1	214	G
29	D1	215	G
29	D1	218	G
29	D1	219	A
29	D1	220	G
29	D1	221	A
29	D1	223	U
29	D1	224	C
29	D1	225	C
29	D1	227	G
29	D1	230	U
29	D1	231	G
29	D1	237	G

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Mol	Chain	Res	Type
29	D1	238	A
29	D1	239	G
29	D1	240	U
29	D1	241	G
29	D1	242	C
29	D1	244	G
29	D1	245	U
29	D1	246	U
29	D1	247	C
29	D1	248	U
29	D1	249	U
29	D1	250	U
29	D1	251	G
29	D1	252	U
29	D1	253	A
29	D1	255	A
29	D1	256	G
29	D1	257	U
29	D1	258	G
29	D1	259	C
29	D1	260	C
29	D1	261	U
29	D1	262	U
29	D1	263	C
29	D1	264	G
29	D1	265	A
29	D1	266	A
29	D1	267	G
29	D1	269	G
29	D1	277	G
29	D1	282	G
29	D1	283	G
29	D1	284	A
29	D1	285	A
29	D1	288	C
29	D1	289	A
29	D1	290	G
29	D1	292	U
29	D1	293	C
29	D1	295	A
29	D1	297	G
29	D1	298	U

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Mol	Chain	Res	Type
29	D1	301	G
29	D1	304	G
29	D1	305	U
29	D1	306	A
29	D1	307	A
29	D1	311	C
29	D1	315	C
29	D1	316	U
29	D1	317	A
29	D1	318	A
29	D1	319	A
29	D1	323	A
29	D1	324	A
29	D1	325	A
29	D1	326	U
29	D1	327	A
29	D1	328	U
29	D1	329	U
29	D1	330	G
29	D1	331	G
29	D1	332	C
29	D1	333	G
29	D1	335	G
29	D1	338	A
29	D1	339	C
29	D1	340	C
29	D1	341	G
29	D1	342	A
29	D1	345	G
29	D1	346	C
29	D1	349	A
29	D1	350	C
29	D1	351	A
29	D1	352	A
29	D1	354	U
29	D1	362	U
29	D1	364	G
29	D1	368	G
29	D1	370	U
29	D1	371	G
29	D1	374	A
29	D1	375	A

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Mol	Chain	Res	Type
29	D1	376	G
29	D1	377	A
29	D1	378	A
29	D1	379	C
29	D1	380	U
29	D1	381	U
29	D1	382	U
29	D1	383	G
29	D1	384	A
29	D1	385	A
29	D1	386	A
29	D1	387	A
29	D1	390	G
29	D1	391	A
29	D1	392	G
29	D1	395	A
29	D1	396	A
29	D1	397	A
29	D1	398	A
29	D1	399	A
29	D1	400	G
29	D1	401	U
29	D1	402	A
29	D1	403	C
29	D1	404	G
29	D1	419	G
29	D1	421	G
29	D1	422	A
29	D1	423	A
29	D1	424	G
29	D1	425	G
29	D1	428	A
29	D1	429	U
29	D1	431	U
29	D1	432	G
29	D1	439	C
29	D1	493	G
29	D1	495	G
29	D1	499	G
29	D1	500	C
29	D1	502	U
29	D1	504	A

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Mol	Chain	Res	Type
29	D1	509	U
29	D1	511	G
29	D1	514	G
29	D1	515	C
29	D1	516	A
29	D1	517	G
29	D1	518	G
29	D1	519	A
29	D1	520	U
29	D1	521	A
29	D1	523	A
29	D1	524	U
29	D1	525	C
29	D1	528	U
29	D1	529	A
29	D1	533	A
29	D1	536	U
29	D1	537	A
29	D1	538	G
29	D1	539	C
29	D1	540	U
29	D1	541	U
29	D1	544	C
29	D1	546	C
29	D1	547	G
29	D1	548	G
29	D1	549	U
29	D1	550	A
29	D1	556	U
29	D1	559	A
29	D1	560	G
29	D1	561	C
29	D1	562	C
29	D1	563	U
29	D1	564	G
29	D1	565	U
29	D1	566	G
29	D1	571	U
29	D1	574	U
29	D1	575	G
29	D1	576	C
29	D1	577	C

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Mol	Chain	Res	Type
29	D1	578	A
29	D1	579	G
29	D1	580	C
29	D1	586	C
29	D1	588	G
29	D1	590	G
29	D1	591	G
29	D1	592	A
29	D1	593	C
29	D1	594	U
29	D1	595	G
29	D1	597	G
29	D1	602	A
29	D1	603	A
29	D1	604	G
29	D1	605	U
29	D1	606	C
29	D1	607	A
29	D1	608	A
29	D1	609	G
29	D1	610	G
29	D1	611	A
29	D1	612	U
29	D1	619	A
29	D1	620	U
29	D1	621	A
29	D1	622	A
29	D1	624	G
29	D1	625	G
29	D1	626	U
29	D1	628	A
29	D1	630	A
29	D1	632	G
29	D1	636	C
29	D1	637	C
29	D1	641	C
29	D1	642	U
29	D1	645	A
29	D1	647	A
29	D1	648	C
29	D1	649	A
29	D1	650	C

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Mol	Chain	Res	Type
29	D1	651	G
29	D1	656	A
29	D1	657	A
29	D1	661	G
29	D1	666	A
29	D1	667	C
29	D1	669	U
29	D1	674	G
29	D1	675	C
29	D1	677	A
29	D1	679	U
29	D1	680	G
29	D1	681	U
29	D1	682	U
29	D1	683	U
29	D1	691	A
29	D1	692	A
29	D1	694	C
29	D1	697	A
29	D1	699	A
29	D1	705	A
29	D1	706	A
29	D1	712	G
29	D1	714	G
29	D1	715	A
29	D1	716	A
29	D1	717	C
29	D1	718	G
29	D1	719	U
29	D1	720	A
29	D1	721	G
29	D1	722	G
29	D1	723	U
29	D1	724	U
29	D1	725	G
29	D1	726	G
29	D1	727	G
29	D1	728	G
29	D1	731	U
29	D1	732	C
29	D1	733	G
29	D1	734	C

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Mol	Chain	Res	Type
29	D1	735	A
29	D1	736	A
29	D1	738	A
29	D1	741	U
29	D1	743	C
29	D1	744	A
29	D1	745	C
29	D1	746	A
29	D1	747	A
29	D1	748	U
29	D1	749	C
29	D1	751	A
29	D1	752	C
29	D1	753	C
29	D1	756	U
29	D1	757	C
29	D1	758	C
29	D1	759	U
29	D1	761	A
29	D1	762	U
29	D1	764	U
29	D1	765	C
29	D1	766	U
29	D1	767	U
29	D1	768	C
29	D1	769	G
29	D1	770	G
29	D1	771	A
29	D1	772	U
29	D1	776	U
29	D1	777	U
29	D1	778	U
29	D1	779	G
29	D1	781	G
29	D1	782	U
29	D1	784	A
29	D1	785	G
29	D1	786	A
29	D1	787	G
29	D1	788	C
29	D1	791	A
29	D1	794	U

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Mol	Chain	Res	Type
29	D1	799	G
29	D1	802	C
29	D1	803	C
29	D1	805	G
29	D1	806	A
29	D1	807	A
29	D1	808	A
29	D1	809	G
29	D1	815	G
29	D1	817	A
29	D1	822	G
29	D1	825	U
29	D1	826	G
29	D1	828	A
29	D1	830	A
29	D1	831	G
29	D1	834	U
29	D1	835	G
29	D1	836	A
29	D1	837	A
29	D1	838	G
29	D1	841	A
29	D1	845	G
29	D1	846	A
29	D1	847	A
29	D1	857	G
29	D1	858	A
29	D1	859	G
29	D1	860	G
29	D1	861	C
29	D1	870	G
29	D1	871	U
29	D1	874	U
29	D1	875	G
29	D1	879	U
29	D1	880	G
29	D1	882	A
29	D1	884	A
29	D1	886	C
29	D1	887	G
29	D1	888	A
29	D1	894	G

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Mol	Chain	Res	Type
29	D1	895	A
29	D1	896	A
29	D1	897	U
29	D1	901	G
29	D1	903	U
29	D1	904	A
29	D1	907	G
29	D1	908	G
29	D1	909	G
29	D1	911	C
29	D1	913	A
29	D1	914	A
29	D1	915	A
29	D1	916	G
29	D1	917	A
29	D1	920	A
29	D1	921	A
29	D1	922	U
29	D1	923	C
29	D1	924	G
29	D1	933	A
29	D1	934	G
29	D1	935	U
29	D1	937	G
29	D1	939	U
29	D1	943	U
29	D1	944	C
29	D1	945	C
29	D1	949	C
29	D1	952	A
29	D1	953	G
29	D1	954	U
29	D1	957	C
29	D1	958	C
29	D1	960	U
29	D1	961	C
29	D1	962	A
29	D1	963	G
29	D1	967	A
29	D1	970	A
29	D1	971	G
29	D1	973	A

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Mol	Chain	Res	Type
29	D1	974	G
29	D1	975	C
29	D1	978	G
29	D1	979	U
29	D1	980	A
29	D1	981	U
29	D1	984	G
29	D1	987	U
29	D1	994	G
29	D1	995	U
29	D1	996	A
29	D1	1000	C
29	D1	1002	A
29	D1	1006	A
29	D1	1007	U
29	D1	1010	G
29	D1	1011	A
29	D1	1013	G
29	D1	1014	U
29	D1	1015	U
29	D1	1017	C
29	D1	1019	G
29	D1	1024	G
29	D1	1026	A
29	D1	1027	A
29	D1	1030	A
29	D1	1033	U
29	D1	1036	A
29	D1	1038	C
29	D1	1041	U
29	D1	1042	U
29	D1	1047	A
29	D1	1048	A
29	D1	1049	C
29	D1	1051	U
29	D1	1053	A
29	D1	1060	U
29	D1	1061	A
29	D1	1063	G
29	D1	1064	A
29	D1	1065	A
29	D1	1066	G

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Mol	Chain	Res	Type
29	D1	1067	U
29	D1	1068	C
29	D1	1071	U
29	D1	1074	U
29	D1	1075	A
29	D1	1077	U
29	D1	1078	U
29	D1	1079	A
29	D1	1080	A
29	D1	1081	U
29	D1	1082	U
29	D1	1085	A
29	D1	1093	A
29	D1	1094	U
29	D1	1095	U
29	D1	1096	U
29	D1	1097	G
29	D1	1098	A
29	D1	1100	U
29	D1	1101	G
29	D1	1102	A
29	D1	1103	A
29	D1	1104	G
29	D1	1109	U
29	D1	1113	G
29	D1	1115	G
29	D1	1116	G
29	D1	1117	G
29	D1	1119	C
29	D1	1120	A
29	D1	1123	U
29	D1	1124	U
29	D1	1128	U
29	D1	1129	A
29	D1	1130	A
29	D1	1131	G
29	D1	1132	C
29	D1	1133	A
29	D1	1136	A
29	D1	1139	G
29	D1	1140	G
29	D1	1143	A

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Mol	Chain	Res	Type
29	D1	1144	U
29	D1	1145	G
29	D1	1149	G
29	D1	1151	U
29	D1	1152	G
29	D1	1153	A
29	D1	1154	A
29	D1	1155	C
29	D1	1157	G
29	D1	1158	A
29	D1	1159	A
29	D1	1160	C
29	D1	1162	U
29	D1	1163	A
29	D1	1168	U
29	D1	1169	A
29	D1	1174	G
29	D1	1175	C
29	D1	1176	C
29	D1	1177	G
29	D1	1178	G
29	D1	1179	A
29	D1	1180	A
29	D1	1181	U
29	D1	1184	A
29	D1	1187	C
29	D1	1189	C
29	D1	1190	A
29	D1	1191	U
29	D1	1192	C
29	D1	1193	A
29	D1	1194	G
29	D1	1195	A
29	D1	1196	C
29	D1	1197	A
29	D1	1198	C
29	D1	1199	C
29	D1	1200	A
29	D1	1201	C
29	D1	1202	A
29	D1	1205	A
29	D1	1206	G

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Mol	Chain	Res	Type
29	D1	1207	G
29	D1	1208	U
29	D1	1209	G
29	D1	1211	U
29	D1	1212	A
29	D1	1213	G
29	D1	1214	U
29	D1	1217	A
29	D1	1218	U
29	D1	1219	C
29	D1	1220	U
29	D1	1221	A
29	D1	1222	G
29	D1	1223	A
29	D1	1224	C
29	D1	1225	A
29	D1	1226	G
29	D1	1227	C
29	D1	1228	C
29	D1	1229	G
29	D1	1235	U
29	D1	1236	G
29	D1	1237	G
29	D1	1239	C
29	D1	1240	A
29	D1	1241	U
29	D1	1242	G
29	D1	1244	A
29	D1	1245	A
29	D1	1246	G
29	D1	1248	C
29	D1	1249	G
29	D1	1251	A
29	D1	1253	U
29	D1	1254	C
29	D1	1256	G
29	D1	1257	C
29	D1	1258	U
29	D1	1259	A
29	D1	1261	G
29	D1	1262	G
29	D1	1263	A

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Mol	Chain	Res	Type
29	D1	1264	G
29	D1	1265	U
29	D1	1268	G
29	D1	1269	U
29	D1	1270	A
29	D1	1272	C
29	D1	1273	A
29	D1	1274	A
29	D1	1275	C
29	D1	1277	C
29	D1	1278	A
29	D1	1279	C
29	D1	1280	C
29	D1	1284	C
29	D1	1286	A
29	D1	1287	A
29	D1	1288	U
29	D1	1289	G
29	D1	1290	A
29	D1	1291	A
29	D1	1292	C
29	D1	1295	G
29	D1	1296	C
29	D1	1297	C
29	D1	1298	C
29	D1	1299	U
29	D1	1303	A
29	D1	1305	U
29	D1	1307	G
29	D1	1308	A
29	D1	1309	U
29	D1	1310	G
29	D1	1313	G
29	D1	1314	C
29	D1	1315	U
29	D1	1316	C
29	D1	1318	A
29	D1	1320	C
29	D1	1324	U
29	D1	1325	U
29	D1	1326	A
29	D1	1330	A

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Mol	Chain	Res	Type
29	D1	1331	U
29	D1	1332	A
29	D1	1338	C
29	D1	1341	U
29	D1	1342	C
29	D1	1348	U
29	D1	1349	G
29	D1	1350	A
29	D1	1351	U
29	D1	1352	A
29	D1	1353	U
29	D1	1354	G
29	D1	1355	A
29	D1	1356	U
29	D1	1365	G
29	D1	1368	U
29	D1	1370	G
29	D1	1371	G
29	D1	1373	A
29	D1	1378	U
29	D1	1379	G
29	D1	1380	G
29	D1	1384	U
29	D1	1385	C
29	D1	1386	A
29	D1	1389	G
29	D1	1390	A
29	D1	1392	G
29	D1	1394	A
29	D1	1395	G
29	D1	1398	U
29	D1	1399	A
29	D1	1400	G
29	D1	1404	G
29	D1	1405	U
29	D1	1406	A
29	D1	1407	A
29	D1	1408	G
29	D1	1410	U
29	D1	1412	G
29	D1	1416	C
29	D1	1418	A

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Mol	Chain	Res	Type
29	D1	1419	A
29	D1	1429	G
29	D1	1430	U
29	D1	1431	G
29	D1	1434	G
29	D1	1435	A
29	D1	1437	C
29	D1	1440	G
29	D1	1441	G
29	D1	1442	U
29	D1	1443	G
29	D1	1445	U
29	D1	1446	A
29	D1	1450	G
29	D1	1453	A
29	D1	1455	U
29	D1	1456	A
29	D1	1460	A
29	D1	1462	A
29	D1	1465	A
29	D1	1467	A
29	D1	1468	A
29	D1	1469	C
29	D1	1470	U
29	D1	1478	C
29	D1	1479	U
29	D1	1480	G
29	D1	1481	A
29	D1	1482	A
29	D1	1483	G
29	D1	1484	U
29	D1	1485	G
29	D1	1488	G
29	D1	1493	G
29	D1	1495	U
29	D1	1496	C
29	D1	1497	C
29	D1	1501	U
29	D1	1503	A
29	D1	1504	A
29	D1	1505	C
29	D1	1506	A

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Mol	Chain	Res	Type
29	D1	1507	G
29	D1	1508	C
29	D1	1510	G
29	D1	1511	U
29	D1	1512	U
29	D1	1520	G
29	D1	1521	G
29	D1	1524	A
29	D1	1525	G
29	D1	1527	C
29	D1	1530	U
29	D1	1531	C
29	D1	1533	U
29	D1	1536	G
29	D1	1539	A
29	D1	1540	U
29	D1	1542	G
29	D1	1548	C
29	D1	1549	U
29	D1	1551	C
29	D1	1552	G
29	D1	1553	U
29	D1	1554	U
29	D1	1556	C
29	D1	1557	A
29	D1	1558	A
29	D1	1559	A
29	D1	1560	G
29	D1	1567	U
29	D1	1568	U
29	D1	1572	U
29	D1	1575	A
29	D1	1579	C
29	D1	1580	A
29	D1	1581	C
29	D1	1582	C
29	D1	1583	A
29	D1	1584	U
29	D1	1587	A
29	D1	1589	A
29	D1	1593	A
29	D1	1595	U

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Mol	Chain	Res	Type
29	D1	1596	C
29	D1	1601	U
29	D1	1602	A
29	D1	1605	A
29	D1	1606	U
29	D1	1607	U
29	D1	1608	C
29	D1	1609	C
29	D1	1610	G
29	D1	1620	U
29	D1	1622	U
29	D1	1626	U
29	D1	1627	U
29	D1	1628	C
29	D1	1629	U
29	D1	1630	U
29	D1	1631	C
29	D1	1632	A
29	D1	1633	C
29	D1	1634	G
29	D1	1635	G
29	D1	1636	U
29	D1	1638	A
29	D1	1639	C
29	D1	1641	U
29	D1	1643	A
29	D1	1644	C
29	D1	1645	U
29	D1	1646	G
29	D1	1647	A
29	D1	1652	G
29	D1	1653	G
29	D1	1655	G
29	D1	1656	A
29	D1	1661	G
29	D1	1667	A
29	D1	1668	G
29	D1	1671	C
29	D1	1672	U
29	D1	1678	G
29	D1	1681	U
29	D1	1682	U

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Mol	Chain	Res	Type
29	D1	1683	A
29	D1	1684	U
29	D1	1685	C
29	D1	1686	U
29	D1	1687	U
29	D1	1688	U
29	D1	1689	U
29	D1	1692	U
29	D1	1694	U
29	D1	1698	C
29	D1	1699	A
29	D1	1701	C
29	D1	1703	U
29	D1	1704	A
29	D1	1706	C
29	D1	1708	C
29	D1	1710	C
29	D1	1713	G
29	D1	1714	A
29	D1	1716	U
29	D1	1717	U
29	D1	1724	U
29	D1	1725	C
29	D1	1726	C
29	D1	1727	G
29	D1	1728	G
29	D1	1729	A
29	D1	1730	G
29	D1	1734	G
29	D1	1735	G
29	D1	1736	G
29	D1	1739	U
29	D1	1740	U
29	D1	1744	G
29	D1	1750	A
29	D1	1754	G
29	D1	1756	C
29	D1	1760	A
29	D1	1762	C
29	D1	1766	G
29	D1	1769	G
29	D1	1773	C

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Mol	Chain	Res	Type
29	D1	1774	C
29	D1	1775	G
29	D1	1779	C
29	D1	1780	G
29	D1	1781	C
29	D1	1782	U
29	D1	1783	U
29	D1	1786	G
29	D1	1787	A
29	D1	1788	C
29	D1	1792	C
29	D1	1793	C
29	D1	1794	G
29	D1	1795	U
29	D1	1796	G
29	D1	1797	A
29	D1	1802	C
29	D1	1803	C
29	D1	1806	A
29	D1	1807	G
29	D1	1808	G
29	D1	1809	A
29	D1	1810	A
29	D1	1812	G
29	D1	1813	A
29	D1	1814	A
29	D1	1815	U
29	D1	1816	A
29	D1	1820	U
29	D1	1821	U
29	D1	1822	C
29	D1	1830	G
29	D1	1834	U
29	D1	1839	A
29	D1	1840	U
29	D1	1841	A
29	D1	1842	A
29	D1	1844	C
29	D1	1845	G
29	D1	1846	C
29	D1	1847	A
29	D1	1849	C

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Mol	Chain	Res	Type
29	D1	1852	G
29	D1	1853	U
29	D1	1855	U
29	D1	1857	C
29	D1	1858	A
29	D1	1859	A
29	D1	1864	A
29	D1	1871	U
29	D1	1875	G
29	D1	1876	U
29	D1	1877	U
29	D1	1878	G
29	D1	1879	A
29	D1	1880	U
29	D1	1882	G
29	D1	1885	U
29	D1	1886	A
29	D1	1888	U
29	D1	1889	G
29	D1	1891	A
29	D1	1901	A
29	D1	1905	G
29	D1	1906	G
29	D1	1907	C
29	D1	1913	A
29	D1	1914	G
29	D1	1920	U
29	D1	1921	A
29	D1	1925	U
29	D1	1926	C
29	D1	1927	G
29	D1	1928	G
29	D1	1931	U
29	D1	1932	A
29	D1	1933	A
29	D1	1935	G
29	D1	1941	C
29	D1	1946	A
29	D1	1947	G
29	D1	1948	G
29	D1	1950	U
29	D1	2093	A

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Mol	Chain	Res	Type
29	D1	2095	G
29	D1	2096	A
29	D1	2102	U
29	D1	2105	G
29	D1	2106	A
29	D1	2111	G
29	D1	2112	U
29	D1	2113	A
29	D1	2114	C
29	D1	2115	G
29	D1	2117	A
29	D1	2121	G
29	D1	2122	G
29	D1	2126	A
29	D1	2129	U
29	D1	2131	A
29	D1	2132	C
29	D1	2133	U
29	D1	2137	U
29	D1	2138	A
29	D1	2139	A
29	D1	2141	U
29	D1	2144	A
29	D1	2147	A
29	D1	2148	U
29	D1	2149	A
29	D1	2150	G
29	D1	2151	C
29	D1	2152	A
29	D1	2158	A
29	D1	2161	G
29	D1	2168	A
29	D1	2169	G
29	D1	2172	A
29	D1	2173	U
29	D1	2174	G
29	D1	2176	U
29	D1	2178	A
29	D1	2185	G
29	D1	2187	G
29	D1	2191	U
29	D1	2193	U

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Mol	Chain	Res	Type
29	D1	2194	G
29	D1	2195	C
29	D1	2201	G
29	D1	2205	U
29	D1	2206	G
29	D1	2207	A
29	D1	2208	A
29	D1	2209	U
29	D1	2210	G
29	D1	2211	U
29	D1	2215	A
29	D1	2222	A
29	D1	2223	A
29	D1	2224	A
29	D1	2227	C
29	D1	2244	A
29	D1	2247	G
29	D1	2248	C
29	D1	2249	G
29	D1	2250	G
29	D1	2252	A
29	D1	2254	U
29	D1	2255	A
29	D1	2256	A
29	D1	2257	C
29	D1	2259	A
29	D1	2260	U
29	D1	2261	G
29	D1	2262	A
29	D1	2263	C
29	D1	2266	U
29	D1	2270	A
29	D1	2272	G
29	D1	2273	G
29	D1	2275	A
29	D1	2276	G
29	D1	2277	C
29	D1	2280	A
29	D1	2281	A
29	D1	2282	U
29	D1	2283	G
29	D1	2286	U

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Mol	Chain	Res	Type
29	D1	2288	G
29	D1	2290	C
29	D1	2291	A
29	D1	2292	U
29	D1	2295	A
29	D1	2296	A
29	D1	2297	U
29	D1	2298	U
29	D1	2299	A
29	D1	2303	A
29	D1	2306	C
29	D1	2307	G
29	D1	2308	C
29	D1	2309	A
29	D1	2310	U
29	D1	2311	G
29	D1	2313	A
29	D1	2314	U
29	D1	2315	G
29	D1	2320	A
29	D1	2324	A
29	D1	2326	A
29	D1	2327	U
29	D1	2329	C
29	D1	2330	C
29	D1	2334	U
29	D1	2335	G
29	D1	2336	U
29	D1	2339	C
29	D1	2341	A
29	D1	2342	U
29	D1	2344	U
29	D1	2345	A
29	D1	2360	C
29	D1	2361	A
29	D1	2362	C
29	D1	2363	A
29	D1	2364	G
29	D1	2365	C
29	D1	2371	G
29	D1	2372	A
29	D1	2373	A

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Mol	Chain	Res	Type
29	D1	2374	C
29	D1	2375	G
29	D1	2377	G
29	D1	2379	U
29	D1	2383	C
29	D1	2384	A
29	D1	2385	G
29	D1	2386	A
29	D1	2393	G
29	D1	2397	A
29	D1	2401	A
29	D1	2402	A
29	D1	2403	G
29	D1	2404	A
29	D1	2405	C
29	D1	2411	U
29	D1	2412	G
29	D1	2414	G
29	D1	2415	C
29	D1	2417	U
29	D1	2421	U
29	D1	2422	C
29	D1	2423	U
29	D1	2424	A
29	D1	2432	A
29	D1	2434	U
29	D1	2436	U
29	D1	2437	G
29	D1	2439	A
29	D1	2443	A
29	D1	2445	A
29	D1	2446	U
29	D1	2449	A
29	D1	2450	G
29	D1	2451	G
29	D1	2452	G
29	D1	2453	U
29	D1	2454	G
29	D1	2458	A
29	D1	2459	A
29	D1	2461	A
29	D1	2462	A

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Mol	Chain	Res	Type
29	D1	2463	G
29	D1	2468	A
29	D1	2472	U
29	D1	2473	C
29	D1	2474	G
29	D1	2479	C
29	D1	2484	A
29	D1	2485	A
29	D1	2486	A
29	D1	2487	U
29	D1	2488	A
29	D1	2491	A
29	D1	2492	C
29	D1	2493	U
29	D1	2499	U
29	D1	2500	A
29	D1	2501	U
29	D1	2502	A
29	D1	2503	G
29	D1	2504	U
29	D1	2508	U
29	D1	2511	A
29	D1	2512	C
29	D1	2513	U
29	D1	2514	U
29	D1	2515	A
29	D1	2516	U
29	D1	2517	U
29	D1	2520	A
29	D1	2521	U
29	D1	2522	G
29	D1	2523	A
29	D1	2524	A
29	D1	2525	G
29	D1	2526	C
29	D1	2528	G
29	D1	2530	G
29	D1	2531	C
29	D1	2536	A
29	D1	2539	C
29	D1	2540	A
29	D1	2541	U

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Mol	Chain	Res	Type
29	D1	2542	U
29	D1	2543	U
29	D1	2547	A
29	D1	2548	C
29	D1	2549	G
29	D1	2550	U
29	D1	2552	C
29	D1	2553	U
29	D1	2554	A
29	D1	2555	G
29	D1	2556	C
29	D1	2557	A
29	D1	2558	U
29	D1	2559	U
29	D1	2560	C
29	D1	2561	A
29	D1	2569	A
29	D1	2572	C
29	D1	2574	G
29	D1	2580	A
29	D1	2581	U
29	D1	2582	C
29	D1	2583	C
29	D1	2584	G
29	D1	2585	G
29	D1	2586	G
29	D1	2587	U
29	D1	2589	G
29	D1	2593	A
29	D1	2594	C
29	D1	2598	G
29	D1	2600	C
29	D1	2603	G
29	D1	2605	G
29	D1	2606	G
29	D1	2607	G
29	D1	2612	U
29	D1	2613	U
29	D1	2614	G
29	D1	2618	G
29	D1	2619	G
29	D1	2624	G

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Mol	Chain	Res	Type
29	D1	2626	A
29	D1	2627	C
29	D1	2628	A
29	D1	2629	U
29	D1	2631	U
29	D1	2636	A
29	D1	2637	A
29	D1	2638	C
29	D1	2639	G
29	D1	2642	A
29	D1	2643	A
29	D1	2644	C
29	D1	2648	G
29	D1	2649	A
29	D1	2650	U
29	D1	2651	G
29	D1	2652	U
29	D1	2653	C
29	D1	2655	U
29	D1	2656	A
29	D1	2657	A
29	D1	2658	G
29	D1	2662	G
29	D1	2663	G
29	D1	2664	C
29	D1	2666	C
29	D1	2667	A
29	D1	2668	U
29	D1	2671	A
29	D1	2672	G
29	D1	2675	C
29	D1	2676	A
29	D1	2677	G
29	D1	2678	A
29	D1	2679	A
29	D1	2681	U
29	D1	2682	C
29	D1	2683	U
29	D1	2684	C
29	D1	2685	C
29	D1	2686	A
29	D1	2687	G

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Mol	Chain	Res	Type
29	D1	2688	U
29	D1	2689	A
29	D1	2690	G
29	D1	2691	A
29	D1	2693	C
29	D1	2694	A
29	D1	2695	A
29	D1	2696	A
29	D1	2697	A
29	D1	2699	G
29	D1	2700	G
29	D1	2702	A
29	D1	2703	A
29	D1	2704	A
29	D1	2708	C
29	D1	2709	C
29	D1	2710	C
29	D1	2712	U
29	D1	2713	U
29	D1	2714	G
29	D1	2715	A
29	D1	2716	U
29	D1	2717	U
29	D1	2718	U
29	D1	2719	U
29	D1	2725	U
29	D1	2726	C
29	D1	2727	A
29	D1	2728	G
29	D1	2729	U
29	D1	2730	G
29	D1	2731	U
29	D1	2733	A
29	D1	2735	U
29	D1	2738	A
29	D1	2740	A
29	D1	2742	C
29	D1	2743	A
29	D1	2746	A
29	D1	2751	G
29	D1	2752	U
29	D1	2753	G

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Mol	Chain	Res	Type
29	D1	2755	C
29	D1	2760	C
29	D1	2762	A
29	D1	2764	C
29	D1	2766	U
29	D1	2769	A
29	D1	2771	U
29	D1	2772	C
29	D1	2776	C
29	D1	2777	G
29	D1	2778	G
29	D1	2779	A
29	D1	2780	A
29	D1	2782	U
29	D1	2784	G
29	D1	2786	G
29	D1	2787	G
29	D1	2790	A
29	D1	2796	G
29	D1	2798	C
29	D1	2799	A
29	D1	2801	A
29	D1	2802	A
29	D1	2804	A
29	D1	2805	G
29	D1	2807	U
29	D1	2809	C
29	D1	2810	C
29	D1	2814	G
29	D1	2816	G
29	D1	2817	A
29	D1	2818	U
29	D1	2822	U
29	D1	2825	C
29	D1	2826	U
29	D1	2828	G
29	D1	2829	U
29	D1	2830	G
29	D1	2833	A
29	D1	2834	G
29	D1	2835	U
29	D1	2836	C

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Mol	Chain	Res	Type
29	D1	2838	A
29	D1	2839	G
29	D1	2840	C
29	D1	2842	U
29	D1	2843	U
29	D1	2844	C
29	D1	2845	A
29	D1	2846	U
29	D1	2847	A
29	D1	2850	G
29	D1	2851	A
29	D1	2852	C
29	D1	2859	U
29	D1	2860	U
29	D1	2867	C
29	D1	2870	C
29	D1	2871	G
29	D1	2872	A
29	D1	2873	U
29	D1	2874	G
29	D1	2875	U
29	D1	2881	C
29	D1	2883	U
29	D1	2884	C
29	D1	2886	U
29	D1	2887	A
29	D1	2888	U
29	D1	2894	C
29	D1	2896	A
29	D1	2897	A
29	D1	2898	G
29	D1	2899	C
29	D1	2900	A
29	D1	2901	G
29	D1	2905	U
29	D1	2911	A
29	D1	2912	G
29	D1	2914	G
29	D1	2915	U
29	D1	2916	U
29	D1	2918	G
29	D1	2919	A

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Mol	Chain	Res	Type
29	D1	2920	U
29	D1	2922	G
29	D1	2923	U
29	D1	2928	C
29	D1	2929	C
29	D1	2930	A
29	D1	2932	U
29	D1	2935	U
29	D1	2936	A
29	D1	2939	G
29	D1	2941	A
29	D1	2942	C
29	D1	2943	G
29	D1	2944	U
29	D1	2945	G
29	D1	2947	G
29	D1	2954	U
29	D1	2956	A
29	D1	2957	G
29	D1	2960	C
29	D1	2961	G
29	D1	2962	U
29	D1	2965	U
29	D1	2968	G
29	D1	2971	A
29	D1	2972	G
29	D1	2973	G
29	D1	2978	U
29	D1	2979	U
29	D1	2983	C
29	D1	2984	C
29	D1	2986	U
29	D1	2987	A
29	D1	2988	C
29	D1	2989	U
29	D1	2990	G
29	D1	2993	G
29	D1	2996	U
29	D1	2997	G
29	D1	2998	U
29	D1	2999	U
29	D1	3003	G

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Mol	Chain	Res	Type
29	D1	3004	C
29	D1	3005	A
29	D1	3006	A
29	D1	3007	U
29	D1	3010	U
29	D1	3011	A
29	D1	3012	A
29	D1	3013	U
29	D1	3014	U
29	D1	3019	U
29	D1	3020	U
29	D1	3023	U
29	D1	3024	A
29	D1	3030	G
29	D1	3031	G
29	D1	3033	A
29	D1	3038	U
29	D1	3039	C
29	D1	3040	A
29	D1	3041	U
29	D1	3045	G
29	D1	3046	A
29	D1	3048	A
29	D1	3049	A
29	D1	3052	G
29	D1	3054	U
29	D1	3056	U
29	D1	3057	U
29	D1	3058	U
29	D1	3059	G
29	D1	3060	C
29	D1	3061	G
29	D1	3064	U
29	D1	3066	U
29	D1	3071	U
29	D1	3072	C
29	D1	3074	G
29	D1	3075	G
29	D1	3077	A
29	D1	3078	U
29	D1	3079	U
29	D1	3080	G

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Mol	Chain	Res	Type
29	D1	3090	U
29	D1	3091	A
29	D1	3092	C
29	D1	3093	C
29	D1	3094	A
29	D1	3096	C
29	D1	3097	C
29	D1	3098	G
29	D1	3099	C
29	D1	3100	U
29	D1	3101	G
29	D1	3102	G
29	D1	3103	A
29	D1	3104	U
29	D1	3105	U
29	D1	3107	U
29	D1	3115	C
29	D1	3116	G
29	D1	3120	C
29	D1	3121	U
29	D1	3122	A
29	D1	3123	A
29	D1	3126	C
29	D1	3127	A
29	D1	3128	G
29	D1	3129	A
29	D1	3130	A
29	D1	3131	U
29	D1	3133	C
29	D1	3134	A
29	D1	3136	G
29	D1	3137	C
29	D1	3138	U
29	D1	3139	A
29	D1	3140	G
29	D1	3141	A
29	D1	3142	A
29	D1	3143	C
29	D1	3144	G
29	D1	3145	C
29	D1	3149	G
29	D1	3151	U

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Mol	Chain	Res	Type
29	D1	3152	U
29	D1	3153	U
29	D1	3154	C
29	D1	3157	U
29	D1	3159	C
29	D1	3160	U
29	D1	3161	C
29	D1	3162	C
29	D1	3163	A
29	D1	3164	C
29	D1	3166	C
29	D1	3169	U
29	D1	3170	A
29	D1	3171	U
29	D1	3172	A
29	D1	3173	G
29	D1	3174	A
29	D1	3175	U
29	D1	3176	G
29	D1	3177	G
29	D1	3178	A
29	D1	3179	U
29	D1	3180	A
29	D1	3181	C
29	D1	3184	A
29	D1	3185	U
29	D1	3187	A
29	D1	3191	G
29	D1	3195	U
29	D1	3196	U
29	D1	3198	U
29	D1	3200	G
29	D1	3201	C
29	D1	3202	G
29	D1	3203	U
29	D1	3204	C
29	D1	3205	G
29	D1	3206	C
29	D1	3207	U
29	D1	3208	G
29	D1	3209	A
29	D1	3210	A

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Mol	Chain	Res	Type
29	D1	3211	C
29	D1	3212	C
29	D1	3213	A
29	D1	3214	U
29	D1	3215	A
29	D1	3216	G
29	D1	3217	C
29	D1	3218	A
29	D1	3219	G
29	D1	3220	G
29	D1	3223	A
29	D1	3225	C
29	D1	3227	A
29	D1	3228	C
29	D1	3229	G
29	D1	3237	U
29	D1	3238	G
29	D1	3242	G
29	D1	3243	A
29	D1	3244	A
29	D1	3245	A
29	D1	3246	G
29	D1	3254	G
29	D1	3257	C
29	D1	3258	U
29	D1	3259	U
29	D1	3260	G
29	D1	3261	C
29	D1	3262	U
29	D1	3263	G
29	D1	3265	C
29	D1	3267	A
29	D1	3268	A
29	D1	3269	U
29	D1	3270	U
29	D1	3271	G
29	D1	3272	C
29	D1	3273	A
29	D1	3274	A
29	D1	3275	U
29	D1	3276	G
29	D1	3277	U

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Mol	Chain	Res	Type
29	D1	3279	A
29	D1	3280	U
29	D1	3281	U
29	D1	3282	U
29	D1	3283	U
29	D1	3285	C
29	D1	3287	U
29	D1	3288	G
29	D1	3290	G
29	D1	3291	G
29	D1	3292	A
29	D1	3293	U
29	D1	3294	A
29	D1	3300	U
29	D1	3301	U
29	D1	3302	U
29	D1	3303	G
29	D1	3304	U
29	D1	3305	A
29	D1	3306	U
29	D1	3312	U
29	D1	3313	U
29	D1	3314	A
29	D1	3315	G
29	D1	3316	A
29	D1	3317	U
29	D1	3318	G
29	D1	3319	U
29	D1	3320	A
29	D1	3321	C
29	D1	3322	A
29	D1	3324	C
29	D1	3329	U
29	D1	3331	U
29	D1	3332	U
29	D1	3333	G
29	D1	3334	U
29	D1	3339	A
29	D1	3341	U
29	D1	3342	A
29	D1	3343	G
29	D1	3344	A

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Mol	Chain	Res	Type
29	D1	3350	C
29	D1	3351	U
29	D1	3352	U
29	D1	3353	G
29	D1	3354	U
29	D1	3355	U
29	D1	3356	G
29	D1	3357	U
29	D1	3358	U
29	D1	3359	A
29	D1	3360	C
29	D1	3361	G
29	D1	3362	A
29	D1	3363	U
29	D1	3369	G
29	D1	3370	A
29	D1	3371	G
29	D1	3375	A
29	D1	3376	A
29	D1	3377	G
29	D1	3378	C
29	D1	3379	C
29	D1	3381	U
29	D1	3382	U
29	D1	3383	G
29	D1	3384	U
29	D1	3387	U
29	D1	3389	U
29	D1	3390	G
29	D1	3392	U
29	D1	3394	U
29	D1	3395	G
29	D1	3396	U
30	D2	2	G
30	D2	5	G
30	D2	6	C
30	D2	9	C
30	D2	10	C
30	D2	11	A
30	D2	12	U
30	D2	13	A
30	D2	14	U

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Mol	Chain	Res	Type
30	D2	15	C
30	D2	19	C
30	D2	22	A
30	D2	27	A
30	D2	29	C
30	D2	30	G
30	D2	31	U
30	D2	33	U
30	D2	34	C
30	D2	35	C
30	D2	36	C
30	D2	38	U
30	D2	39	C
30	D2	40	C
30	D2	41	G
30	D2	42	A
30	D2	43	U
30	D2	44	C
30	D2	47	C
30	D2	48	U
30	D2	49	G
30	D2	50	U
30	D2	51	A
30	D2	54	U
30	D2	55	A
30	D2	56	A
30	D2	58	C
30	D2	63	A
30	D2	64	A
30	D2	65	G
30	D2	66	A
30	D2	68	C
30	D2	70	U
30	D2	75	G
30	D2	76	A
30	D2	78	U
30	D2	79	A
30	D2	81	U
30	D2	83	U
30	D2	87	G
30	D2	89	G
30	D2	92	A

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Mol	Chain	Res	Type
30	D2	93	C
30	D2	96	U
30	D2	97	A
30	D2	98	C
30	D2	99	G
30	D2	103	A
30	D2	105	C
30	D2	107	C
30	D2	109	G
30	D2	110	G
30	D2	112	G
30	D2	115	G
30	D2	118	A
30	D2	120	C
30	D2	121	U
31	D3	2	A
31	D3	6	U
31	D3	10	A
31	D3	12	A
31	D3	14	C
31	D3	23	U
31	D3	24	G
31	D3	25	G
31	D3	30	C
31	D3	33	A
31	D3	34	U
31	D3	38	U
31	D3	40	A
31	D3	41	A
31	D3	45	C
31	D3	49	G
31	D3	50	C
31	D3	51	G
31	D3	55	U
31	D3	59	A
31	D3	60	U
31	D3	61	A
31	D3	62	C
31	D3	63	G
31	D3	65	A
31	D3	67	U
31	D3	68	G

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Mol	Chain	Res	Type
31	D3	70	G
31	D3	71	A
31	D3	72	A
31	D3	73	U
31	D3	75	G
31	D3	76	C
31	D3	77	A
31	D3	78	G
31	D3	80	A
31	D3	82	U
31	D3	83	C
31	D3	85	G
31	D3	86	U
31	D3	87	G
31	D3	88	A
31	D3	89	A
31	D3	90	U
31	D3	93	U
31	D3	94	C
31	D3	95	G
31	D3	96	A
31	D3	97	A
31	D3	99	C
31	D3	101	U
31	D3	104	A
31	D3	105	A
31	D3	106	C
31	D3	107	G
31	D3	108	C
31	D3	110	C
31	D3	111	A
31	D3	112	U
31	D3	113	U
31	D3	114	G
31	D3	117	C
31	D3	124	G
31	D3	125	U
31	D3	126	A
31	D3	127	U
31	D3	128	U
31	D3	129	C
31	D3	130	C

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Mol	Chain	Res	Type
31	D3	132	G
31	D3	138	A
31	D3	141	C
31	D3	145	U
31	D3	147	U
31	D3	149	A
31	D3	151	C
31	D3	152	G
31	D3	157	U
31	D3	158	U

All (856) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	A1	24	U
1	A1	40	A
1	A1	45	U
1	A1	61	A
1	A1	62	A
1	A1	65	A
1	A1	67	A
1	A1	68	A
1	A1	71	A
1	A1	78	A
1	A1	80	A
1	A1	103	A
1	A1	112	A
1	A1	114	C
1	A1	121	U
1	A1	125	U
1	A1	133	U
1	A1	135	A
1	A1	137	U
1	A1	139	C
1	A1	150	U
1	A1	160	C
1	A1	167	U
1	A1	183	U
1	A1	191	C
1	A1	195	G
1	A1	198	A
1	A1	203	U

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Mol	Chain	Res	Type
1	A1	211	U
1	A1	217	A
1	A1	241	U
1	A1	243	G
1	A1	248	U
1	A1	254	A
1	A1	262	U
1	A1	263	C
1	A1	270	C
1	A1	272	U
1	A1	284	G
1	A1	290	G
1	A1	295	A
1	A1	310	C
1	A1	320	U
1	A1	322	G
1	A1	351	C
1	A1	358	U
1	A1	380	U
1	A1	386	G
1	A1	399	A
1	A1	400	A
1	A1	416	A
1	A1	417	A
1	A1	427	C
1	A1	438	A
1	A1	439	U
1	A1	447	U
1	A1	511	A
1	A1	515	A
1	A1	521	A
1	A1	525	A
1	A1	528	U
1	A1	540	G
1	A1	541	A
1	A1	555	A
1	A1	577	G
1	A1	594	A
1	A1	607	G
1	A1	622	A
1	A1	659	C
1	A1	699	U

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Mol	Chain	Res	Type
1	A1	704	C
1	A1	720	G
1	A1	721	U
1	A1	750	U
1	A1	755	A
1	A1	765	G
1	A1	782	U
1	A1	807	A
1	A1	820	U
1	A1	827	C
1	A1	829	A
1	A1	842	C
1	A1	846	G
1	A1	859	A
1	A1	913	G
1	A1	914	G
1	A1	932	U
1	A1	959	U
1	A1	963	A
1	A1	964	U
1	A1	986	G
1	A1	1003	A
1	A1	1045	C
1	A1	1091	A
1	A1	1094	G
1	A1	1097	U
1	A1	1100	G
1	A1	1107	G
1	A1	1110	G
1	A1	1139	A
1	A1	1142	A
1	A1	1149	G
1	A1	1150	G
1	A1	1185	U
1	A1	1190	C
1	A1	1196	A
1	A1	1200	G
1	A1	1202	A
1	A1	1203	A
1	A1	1204	A
1	A1	1207	C
1	A1	1255	G

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Mol	Chain	Res	Type
1	A1	1269	U
1	A1	1274	C
1	A1	1285	U
1	A1	1305	U
1	A1	1344	A
1	A1	1349	G
1	A1	1392	U
1	A1	1435	G
1	A1	1458	G
1	A1	1472	C
1	A1	1478	G
1	A1	1480	G
1	A1	1481	C
1	A1	1492	A
1	A1	1513	G
1	A1	1522	U
1	A1	1539	G
1	A1	1560	U
1	A1	1567	U
1	A1	1573	A
1	A1	1574	G
1	A1	1580	C
1	A1	1591	C
1	A1	1609	U
1	A1	1633	A
1	A1	1634	C
1	A1	1636	C
1	A1	1645	G
1	A1	1657	U
1	A1	1694	A
1	A1	1754	A
1	A1	1761	U
1	A1	1764	C
1	A1	1779	U
1	A1	1791	A
1	A1	1793	G
29	B1	14	U
29	B1	15	C
29	B1	20	A
29	B1	42	C
29	B1	48	A
29	B1	65	A

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Mol	Chain	Res	Type
29	B1	88	A
29	B1	92	G
29	B1	97	U
29	B1	102	C
29	B1	120	G
29	B1	152	U
29	B1	154	U
29	B1	155	G
29	B1	156	G
29	B1	157	A
29	B1	191	U
29	B1	200	C
29	B1	209	A
29	B1	210	U
29	B1	249	U
29	B1	251	G
29	B1	265	A
29	B1	282	G
29	B1	304	G
29	B1	326	U
29	B1	327	A
29	B1	329	U
29	B1	330	G
29	B1	332	C
29	B1	340	C
29	B1	344	A
29	B1	369	A
29	B1	379	C
29	B1	396	A
29	B1	400	G
29	B1	422	A
29	B1	423	A
29	B1	424	G
29	B1	425	G
29	B1	431	U
29	B1	516	A
29	B1	520	U
29	B1	524	U
29	B1	536	U
29	B1	560	G
29	B1	561	C
29	B1	574	U

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Mol	Chain	Res	Type
29	B1	575	G
29	B1	576	C
29	B1	577	C
29	B1	590	G
29	B1	603	A
29	B1	604	G
29	B1	605	U
29	B1	609	G
29	B1	620	U
29	B1	625	G
29	B1	641	C
29	B1	647	A
29	B1	666	A
29	B1	674	G
29	B1	698	U
29	B1	705	A
29	B1	715	A
29	B1	718	G
29	B1	720	A
29	B1	746	A
29	B1	747	A
29	B1	758	C
29	B1	769	G
29	B1	806	A
29	B1	834	U
29	B1	845	G
29	B1	857	G
29	B1	858	A
29	B1	908	G
29	B1	914	A
29	B1	943	U
29	B1	953	G
29	B1	975	C
29	B1	979	U
29	B1	1005	G
29	B1	1026	A
29	B1	1038	C
29	B1	1062	A
29	B1	1063	G
29	B1	1076	C
29	B1	1102	A
29	B1	1103	A

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Mol	Chain	Res	Type
29	B1	1130	A
29	B1	1139	G
29	B1	1143	A
29	B1	1144	U
29	B1	1152	G
29	B1	1154	A
29	B1	1157	G
29	B1	1159	A
29	B1	1167	U
29	B1	1177	G
29	B1	1197	A
29	B1	1202	A
29	B1	1207	G
29	B1	1211	U
29	B1	1260	A
29	B1	1286	A
29	B1	1289	G
29	B1	1291	A
29	B1	1294	A
29	B1	1296	C
29	B1	1306	G
29	B1	1307	G
29	B1	1317	A
29	B1	1329	U
29	B1	1331	U
29	B1	1367	G
29	B1	1389	G
29	B1	1398	U
29	B1	1428	A
29	B1	1454	A
29	B1	1468	A
29	B1	1469	C
29	B1	1478	C
29	B1	1482	A
29	B1	1483	G
29	B1	1484	U
29	B1	1503	A
29	B1	1504	A
29	B1	1505	C
29	B1	1520	G
29	B1	1524	A
29	B1	1588	A

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Mol	Chain	Res	Type
29	B1	1607	U
29	B1	1627	U
29	B1	1640	G
29	B1	1641	U
29	B1	1654	A
29	B1	1685	C
29	B1	1686	U
29	B1	1716	U
29	B1	1728	G
29	B1	1779	C
29	B1	1780	G
29	B1	1792	C
29	B1	1793	C
29	B1	1795	U
29	B1	1808	G
29	B1	1841	A
29	B1	1876	U
29	B1	1877	U
29	B1	1912	U
29	B1	2105	G
29	B1	2112	U
29	B1	2147	A
29	B1	2148	U
29	B1	2151	C
29	B1	2193	U
29	B1	2211	U
29	B1	2251	G
29	B1	2254	U
29	B1	2255	A
29	B1	2270	A
29	B1	2280	A
29	B1	2281	A
29	B1	2290	C
29	B1	2297	U
29	B1	2372	A
29	B1	2385	G
29	B1	2400	G
29	B1	2403	G
29	B1	2414	G
29	B1	2423	U
29	B1	2487	U
29	B1	2501	U

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Mol	Chain	Res	Type
29	B1	2513	U
29	B1	2516	U
29	B1	2522	G
29	B1	2523	A
29	B1	2549	G
29	B1	2555	G
29	B1	2580	A
29	B1	2593	A
29	B1	2618	G
29	B1	2652	U
29	B1	2656	A
29	B1	2684	C
29	B1	2688	U
29	B1	2699	G
29	B1	2707	C
29	B1	2717	U
29	B1	2727	A
29	B1	2728	G
29	B1	2775	U
29	B1	2779	A
29	B1	2799	A
29	B1	2804	A
29	B1	2805	G
29	B1	2808	A
29	B1	2817	A
29	B1	2834	G
29	B1	2850	G
29	B1	2851	A
29	B1	2859	U
29	B1	2872	A
29	B1	2896	A
29	B1	2898	G
29	B1	2900	A
29	B1	2948	C
29	B1	2996	U
29	B1	2997	G
29	B1	2998	U
29	B1	2999	U
29	B1	3002	C
29	B1	3013	U
29	B1	3023	U
29	B1	3024	A

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Mol	Chain	Res	Type
29	B1	3030	G
29	B1	3045	G
29	B1	3047	U
29	B1	3058	U
29	B1	3059	G
29	B1	3071	U
29	B1	3078	U
29	B1	3090	U
29	B1	3093	C
29	B1	3097	C
29	B1	3098	G
29	B1	3099	C
29	B1	3102	G
29	B1	3121	U
29	B1	3137	C
29	B1	3139	A
29	B1	3143	C
29	B1	3144	G
29	B1	3151	U
29	B1	3152	U
29	B1	3168	A
29	B1	3171	U
29	B1	3173	G
29	B1	3179	U
29	B1	3180	A
29	B1	3204	C
29	B1	3205	G
29	B1	3211	C
29	B1	3257	C
29	B1	3268	A
29	B1	3274	A
29	B1	3290	G
29	B1	3291	G
29	B1	3299	A
29	B1	3303	G
29	B1	3313	U
29	B1	3316	A
29	B1	3328	G
29	B1	3331	U
29	B1	3351	U
29	B1	3356	G
29	B1	3377	G

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Mol	Chain	Res	Type
29	B1	3386	G
30	B2	12	U
30	B2	13	A
30	B2	14	U
30	B2	26	C
30	B2	35	C
30	B2	38	U
30	B2	55	A
30	B2	62	U
30	B2	64	A
30	B2	77	G
30	B2	92	A
30	B2	109	G
31	B3	22	U
31	B3	40	A
31	B3	70	G
31	B3	71	A
31	B3	76	C
31	B3	94	C
31	B3	106	C
31	B3	111	A
31	B3	113	U
1	C1	24	U
1	C1	40	A
1	C1	44	U
1	C1	45	U
1	C1	61	A
1	C1	62	A
1	C1	65	A
1	C1	67	A
1	C1	68	A
1	C1	71	A
1	C1	78	A
1	C1	80	A
1	C1	103	A
1	C1	112	A
1	C1	114	C
1	C1	125	U
1	C1	133	U
1	C1	135	A
1	C1	137	U
1	C1	139	C

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Mol	Chain	Res	Type
1	C1	150	U
1	C1	160	C
1	C1	167	U
1	C1	175	G
1	C1	183	U
1	C1	191	C
1	C1	195	G
1	C1	198	A
1	C1	203	U
1	C1	211	U
1	C1	217	A
1	C1	241	U
1	C1	243	G
1	C1	248	U
1	C1	254	A
1	C1	262	U
1	C1	263	C
1	C1	270	C
1	C1	272	U
1	C1	284	G
1	C1	290	G
1	C1	295	A
1	C1	310	C
1	C1	320	U
1	C1	322	G
1	C1	351	C
1	C1	358	U
1	C1	373	G
1	C1	380	U
1	C1	386	G
1	C1	399	A
1	C1	400	A
1	C1	416	A
1	C1	417	A
1	C1	427	C
1	C1	438	A
1	C1	439	U
1	C1	447	U
1	C1	453	U
1	C1	511	A
1	C1	515	A
1	C1	521	A

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Mol	Chain	Res	Type
1	C1	525	A
1	C1	528	U
1	C1	540	G
1	C1	541	A
1	C1	555	A
1	C1	577	G
1	C1	594	A
1	C1	607	G
1	C1	622	A
1	C1	659	C
1	C1	717	C
1	C1	718	U
1	C1	719	U
1	C1	721	U
1	C1	722	G
1	C1	750	U
1	C1	755	A
1	C1	765	G
1	C1	782	U
1	C1	807	A
1	C1	820	U
1	C1	827	C
1	C1	829	A
1	C1	842	C
1	C1	846	G
1	C1	859	A
1	C1	913	G
1	C1	914	G
1	C1	932	U
1	C1	959	U
1	C1	963	A
1	C1	964	U
1	C1	986	G
1	C1	1003	A
1	C1	1045	C
1	C1	1091	A
1	C1	1094	G
1	C1	1097	U
1	C1	1100	G
1	C1	1107	G
1	C1	1110	G
1	C1	1139	A

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Mol	Chain	Res	Type
1	C1	1142	A
1	C1	1149	G
1	C1	1150	G
1	C1	1185	U
1	C1	1190	C
1	C1	1196	A
1	C1	1200	G
1	C1	1202	A
1	C1	1203	A
1	C1	1204	A
1	C1	1207	C
1	C1	1255	G
1	C1	1269	U
1	C1	1285	U
1	C1	1305	U
1	C1	1344	A
1	C1	1349	G
1	C1	1392	U
1	C1	1435	G
1	C1	1458	G
1	C1	1472	C
1	C1	1478	G
1	C1	1480	G
1	C1	1481	C
1	C1	1492	A
1	C1	1513	G
1	C1	1522	U
1	C1	1539	G
1	C1	1560	U
1	C1	1567	U
1	C1	1573	A
1	C1	1574	G
1	C1	1580	C
1	C1	1591	C
1	C1	1609	U
1	C1	1633	A
1	C1	1634	C
1	C1	1636	C
1	C1	1657	U
1	C1	1694	A
1	C1	1754	A
1	C1	1761	U

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Mol	Chain	Res	Type
1	C1	1764	C
1	C1	1779	U
1	C1	1791	A
1	C1	1793	G
29	D1	14	U
29	D1	15	C
29	D1	20	A
29	D1	42	C
29	D1	48	A
29	D1	65	A
29	D1	88	A
29	D1	92	G
29	D1	102	C
29	D1	120	G
29	D1	152	U
29	D1	154	U
29	D1	155	G
29	D1	156	G
29	D1	157	A
29	D1	191	U
29	D1	200	C
29	D1	210	U
29	D1	249	U
29	D1	251	G
29	D1	265	A
29	D1	282	G
29	D1	304	G
29	D1	326	U
29	D1	327	A
29	D1	332	C
29	D1	340	C
29	D1	369	A
29	D1	379	C
29	D1	396	A
29	D1	400	G
29	D1	422	A
29	D1	423	A
29	D1	424	G
29	D1	425	G
29	D1	431	U
29	D1	516	A
29	D1	520	U

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Mol	Chain	Res	Type
29	D1	524	U
29	D1	536	U
29	D1	560	G
29	D1	561	C
29	D1	574	U
29	D1	575	G
29	D1	576	C
29	D1	577	C
29	D1	590	G
29	D1	603	A
29	D1	604	G
29	D1	605	U
29	D1	609	G
29	D1	620	U
29	D1	625	G
29	D1	641	C
29	D1	647	A
29	D1	666	A
29	D1	674	G
29	D1	698	U
29	D1	705	A
29	D1	715	A
29	D1	718	G
29	D1	720	A
29	D1	746	A
29	D1	747	A
29	D1	758	C
29	D1	769	G
29	D1	806	A
29	D1	834	U
29	D1	845	G
29	D1	857	G
29	D1	858	A
29	D1	896	A
29	D1	943	U
29	D1	953	G
29	D1	975	C
29	D1	979	U
29	D1	1005	G
29	D1	1026	A
29	D1	1038	C
29	D1	1062	A

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Mol	Chain	Res	Type
29	D1	1063	G
29	D1	1076	C
29	D1	1102	A
29	D1	1103	A
29	D1	1130	A
29	D1	1139	G
29	D1	1143	A
29	D1	1144	U
29	D1	1152	G
29	D1	1154	A
29	D1	1157	G
29	D1	1159	A
29	D1	1167	U
29	D1	1197	A
29	D1	1207	G
29	D1	1213	G
29	D1	1221	A
29	D1	1225	A
29	D1	1226	G
29	D1	1235	U
29	D1	1264	G
29	D1	1272	C
29	D1	1286	A
29	D1	1288	U
29	D1	1289	G
29	D1	1291	A
29	D1	1294	A
29	D1	1296	C
29	D1	1306	G
29	D1	1307	G
29	D1	1317	A
29	D1	1329	U
29	D1	1331	U
29	D1	1367	G
29	D1	1389	G
29	D1	1398	U
29	D1	1428	A
29	D1	1442	U
29	D1	1454	A
29	D1	1468	A
29	D1	1469	C
29	D1	1478	C

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Mol	Chain	Res	Type
29	D1	1482	A
29	D1	1483	G
29	D1	1484	U
29	D1	1503	A
29	D1	1504	A
29	D1	1505	C
29	D1	1520	G
29	D1	1524	A
29	D1	1588	A
29	D1	1607	U
29	D1	1627	U
29	D1	1640	G
29	D1	1646	G
29	D1	1654	A
29	D1	1685	C
29	D1	1686	U
29	D1	1716	U
29	D1	1728	G
29	D1	1779	C
29	D1	1780	G
29	D1	1793	C
29	D1	1795	U
29	D1	1808	G
29	D1	1876	U
29	D1	1877	U
29	D1	1912	U
29	D1	2105	G
29	D1	2112	U
29	D1	2147	A
29	D1	2148	U
29	D1	2151	C
29	D1	2193	U
29	D1	2211	U
29	D1	2251	G
29	D1	2254	U
29	D1	2255	A
29	D1	2270	A
29	D1	2280	A
29	D1	2281	A
29	D1	2290	C
29	D1	2297	U
29	D1	2372	A

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Mol	Chain	Res	Type
29	D1	2385	G
29	D1	2400	G
29	D1	2403	G
29	D1	2404	A
29	D1	2414	G
29	D1	2423	U
29	D1	2487	U
29	D1	2501	U
29	D1	2513	U
29	D1	2516	U
29	D1	2522	G
29	D1	2523	A
29	D1	2549	G
29	D1	2555	G
29	D1	2580	A
29	D1	2593	A
29	D1	2618	G
29	D1	2652	U
29	D1	2684	C
29	D1	2699	G
29	D1	2707	C
29	D1	2717	U
29	D1	2727	A
29	D1	2728	G
29	D1	2779	A
29	D1	2799	A
29	D1	2804	A
29	D1	2805	G
29	D1	2817	A
29	D1	2834	G
29	D1	2850	G
29	D1	2851	A
29	D1	2859	U
29	D1	2872	A
29	D1	2896	A
29	D1	2898	G
29	D1	2900	A
29	D1	2917	G
29	D1	2948	C
29	D1	2987	A
29	D1	2996	U
29	D1	2997	G

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Mol	Chain	Res	Type
29	D1	2998	U
29	D1	2999	U
29	D1	3002	C
29	D1	3013	U
29	D1	3023	U
29	D1	3024	A
29	D1	3030	G
29	D1	3038	U
29	D1	3045	G
29	D1	3047	U
29	D1	3058	U
29	D1	3059	G
29	D1	3071	U
29	D1	3078	U
29	D1	3090	U
29	D1	3093	C
29	D1	3097	C
29	D1	3098	G
29	D1	3099	C
29	D1	3102	G
29	D1	3108	G
29	D1	3121	U
29	D1	3137	C
29	D1	3139	A
29	D1	3143	C
29	D1	3144	G
29	D1	3151	U
29	D1	3152	U
29	D1	3168	A
29	D1	3171	U
29	D1	3173	G
29	D1	3179	U
29	D1	3180	A
29	D1	3204	C
29	D1	3205	G
29	D1	3211	C
29	D1	3257	C
29	D1	3268	A
29	D1	3274	A
29	D1	3290	G
29	D1	3291	G
29	D1	3299	A

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Mol	Chain	Res	Type
29	D1	3303	G
29	D1	3313	U
29	D1	3316	A
29	D1	3328	G
29	D1	3331	U
29	D1	3332	U
29	D1	3351	U
29	D1	3356	G
29	D1	3377	G
30	D2	12	U
30	D2	13	A
30	D2	14	U
30	D2	26	C
30	D2	35	C
30	D2	38	U
30	D2	55	A
30	D2	62	U
30	D2	64	A
30	D2	77	G
30	D2	92	A
30	D2	109	G
31	D3	22	U
31	D3	40	A
31	D3	70	G
31	D3	71	A
31	D3	76	C
31	D3	94	C
31	D3	106	C
31	D3	111	A
31	D3	113	U

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry

715 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	A1	1901	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1902	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1903	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1904	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1905	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1906	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1907	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1908	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1909	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1910	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1911	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1912	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1913	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1914	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1915	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1916	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1917	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1918	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1919	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1920	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1921	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1922	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1923	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1924	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1925	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1926	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1927	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1928	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1929	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1930	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1931	1	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1932	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	A1	1933	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1934	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1935	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1936	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1937	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1938	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1939	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1940	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1941	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1942	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1943	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1944	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1945	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1946	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1947	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1948	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1949	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1950	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1951	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1952	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1953	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1954	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1955	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1956	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1957	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1958	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1959	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1960	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1961	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1962	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1963	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1964	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1965	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1966	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1967	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1968	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1969	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1970	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1971	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1972	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1973	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1974	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1975	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	A1	1976	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1977	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1978	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1979	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1980	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1981	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1982	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1983	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1984	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1985	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1986	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1987	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1988	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1989	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1990	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1991	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1992	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1993	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1994	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1995	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1996	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1997	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1998	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	1999	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	2000	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	2001	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	A1	2002	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	AL	201	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	AS	101	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	AT	401	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	Ac	100	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3401	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3402	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3403	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3404	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3405	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3406	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3407	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3408	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3409	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3410	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3411	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3412	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	B1	3413	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3414	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3415	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3416	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3417	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3418	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3419	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3420	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3421	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3422	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3423	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3424	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3425	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3426	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3427	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3428	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3429	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3430	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3431	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3432	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3433	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3434	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3435	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3436	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3437	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3438	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3439	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3440	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3441	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3442	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3443	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3444	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3445	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3446	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3447	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3448	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3449	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3450	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3451	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3452	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3453	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3454	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3455	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	B1	3456	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3457	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3458	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3459	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3460	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3461	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3462	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3463	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3464	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3465	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3466	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3467	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3468	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3469	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3470	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3471	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3472	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3473	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3474	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3475	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3476	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3477	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3478	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3479	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3480	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3481	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3482	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3483	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3484	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3485	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3486	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3487	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3488	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3489	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3490	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3491	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3492	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3493	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3494	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3495	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3496	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3497	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3498	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	B1	3499	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3500	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3501	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3502	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3503	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3504	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3505	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3506	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3507	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3508	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3509	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3510	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3511	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3512	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3513	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3514	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3515	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3516	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3517	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3518	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3519	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3520	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3521	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3522	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3523	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3524	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3525	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3526	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3527	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3528	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3529	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3530	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3531	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3532	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3533	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3534	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3535	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3536	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3537	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3538	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3539	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3540	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3541	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	B1	3542	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3543	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3544	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3545	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3546	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3547	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3548	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3549	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3550	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3551	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3552	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3553	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3554	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3555	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3556	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3557	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3558	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3559	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3560	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3561	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3562	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3563	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3564	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3565	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3566	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3567	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3568	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3569	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3570	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3571	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3572	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3573	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3574	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3575	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3576	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3577	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3578	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3579	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3580	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3581	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3582	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3583	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3584	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	B1	3585	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3586	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3587	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3588	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3589	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3590	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3591	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3592	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3593	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3594	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3595	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3596	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3597	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3598	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3599	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3600	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3601	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3602	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3603	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3604	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3605	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3606	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3607	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3608	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3609	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3610	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3611	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3612	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3613	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3614	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3615	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3616	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3617	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3618	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3619	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3620	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B1	3621	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B2	201	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B2	202	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B2	203	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B2	204	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B2	205	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B2	206	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	B2	207	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B2	208	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B2	209	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B2	210	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B3	202	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B3	203	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B3	204	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B3	205	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B3	206	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B3	207	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B3	208	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B3	209	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B3	210	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B3	211	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	B3	212	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	BC	401	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	BO	301	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	BT	201	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	Bd	101	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	Bd	102	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	Bg	101	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1901	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1902	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1903	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1904	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1905	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1906	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1907	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1908	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1909	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1910	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1911	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1912	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1913	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1914	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1915	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1916	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1917	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1918	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1919	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1920	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1921	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	C1	1922	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1923	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1924	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1925	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1926	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1927	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1928	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1929	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1930	1	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1931	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1932	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1933	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1934	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1935	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1936	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1937	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1938	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1939	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1940	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1941	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1942	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1943	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1944	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1945	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1946	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1947	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1948	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1949	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1950	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1951	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1952	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1953	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1954	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1955	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1956	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1957	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1958	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1959	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1960	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1961	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1962	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1963	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1964	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	C1	1965	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1966	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1967	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1968	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1969	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1970	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1971	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1972	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1973	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1974	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1975	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1976	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1977	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1978	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1979	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1980	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1981	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1982	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1983	1	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1984	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1985	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1986	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1987	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1988	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1989	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1990	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1991	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1992	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1993	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1994	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1995	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1996	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1997	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1998	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	1999	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	2000	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	C1	2001	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	CI	201	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	CS	101	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	CS	102	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	CT	401	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3401	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3402	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	D1	3403	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3404	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3405	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3406	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3407	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3408	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3409	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3410	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3411	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3412	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3413	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3414	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3415	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3416	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3417	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3418	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3419	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3420	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3421	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3422	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3423	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3424	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3425	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3426	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3427	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3428	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3429	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3430	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3431	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3432	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3433	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3434	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3435	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3436	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3437	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3438	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3439	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3440	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3441	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3442	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3443	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3444	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3445	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	D1	3446	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3447	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3448	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3449	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3450	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3451	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3452	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3453	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3454	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3455	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3456	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3457	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3458	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3459	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3460	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3461	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3462	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3463	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3464	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3465	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3466	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3467	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3468	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3469	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3470	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3471	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3472	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3473	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3474	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3475	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3476	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3477	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3478	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3479	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3480	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3481	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3482	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3483	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3484	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3485	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3486	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3487	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3488	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	D1	3489	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3490	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3491	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3492	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3493	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3494	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3495	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3496	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3497	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3498	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3499	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3500	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3501	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3502	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3503	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3504	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3505	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3506	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3507	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3508	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3509	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3510	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3511	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3512	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3513	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3514	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3515	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3516	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3517	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3518	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3519	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3520	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3521	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3522	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3523	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3524	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3525	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3526	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3527	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3528	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3529	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3530	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3531	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	D1	3532	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3533	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3534	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3535	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3536	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3537	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3538	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3539	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3540	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3541	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3542	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3543	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3544	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3545	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3546	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3547	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3548	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3549	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3550	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3551	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3552	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3553	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3554	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3555	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3556	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3557	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3558	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3559	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3560	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3561	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3562	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3563	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3564	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3565	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3566	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3567	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3568	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3569	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3570	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3571	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3572	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3573	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3574	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	D1	3575	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3576	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3577	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3578	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3579	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3580	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3581	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3582	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3583	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3584	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3585	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3586	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3587	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3588	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3589	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3590	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3591	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3592	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3593	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3594	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3595	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3596	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3597	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3598	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3599	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3600	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3601	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3602	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3603	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3604	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3605	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3606	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3607	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3608	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3609	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3610	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3611	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3612	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3613	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3614	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3615	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3616	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3617	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
74	OHX	D1	3618	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3619	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3620	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3621	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3622	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3623	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3624	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D1	3625	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D2	201	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D2	202	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D2	203	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D2	204	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D2	205	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D2	206	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D2	207	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D2	208	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D2	209	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D3	202	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D3	203	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D3	204	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D3	205	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D3	206	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D3	207	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D3	208	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D3	209	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D3	210	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D3	211	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	D3	212	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	DC	401	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	DE	301	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	DJ	301	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	DO	301	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	DO	302	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	DT	201	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	Dd	101	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	Dd	102	-	0,6,6	0.00	-	0,15,15	0.00	-
74	OHX	Dg	101	-	0,6,6	0.00	-	0,15,15	0.00	-

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	A1	1901	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1902	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1903	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1904	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1905	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1906	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1907	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1908	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1909	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1910	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1911	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1912	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1913	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1914	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1915	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1916	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1917	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1918	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1919	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1920	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1921	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1922	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1923	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1924	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1925	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1926	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1927	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1928	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1929	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1930	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1931	1	-	0/0/0/0	0/0/0/0
74	OHX	A1	1932	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1933	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1934	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1935	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1936	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1937	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1938	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1939	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1940	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1941	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1942	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1943	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	A1	1944	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1945	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1946	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1947	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1948	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1949	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1950	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1951	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1952	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1953	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1954	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1955	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1956	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1957	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1958	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1959	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1960	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1961	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1962	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1963	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1964	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1965	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1966	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1967	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1968	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1969	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1970	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1971	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1972	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1973	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1974	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1975	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1976	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1977	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1978	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1979	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1980	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1981	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1982	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1983	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1984	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1985	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	A1	1986	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1987	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1988	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1989	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1990	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1991	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1992	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1993	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1994	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1995	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1996	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1997	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1998	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	1999	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	2000	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	2001	-	-	0/0/0/0	0/0/0/0
74	OHX	A1	2002	-	-	0/0/0/0	0/0/0/0
74	OHX	AL	201	-	-	0/0/0/0	0/0/0/0
74	OHX	AS	101	-	-	0/0/0/0	0/0/0/0
74	OHX	AT	401	-	-	0/0/0/0	0/0/0/0
74	OHX	Ac	100	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3401	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3402	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3403	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3404	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3405	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3406	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3407	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3408	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3409	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3410	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3411	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3412	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3413	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3414	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3415	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3416	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3417	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3418	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3419	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3420	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3421	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	B1	3422	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3423	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3424	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3425	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3426	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3427	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3428	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3429	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3430	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3431	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3432	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3433	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3434	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3435	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3436	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3437	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3438	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3439	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3440	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3441	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3442	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3443	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3444	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3445	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3446	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3447	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3448	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3449	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3450	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3451	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3452	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3453	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3454	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3455	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3456	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3457	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3458	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3459	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3460	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3461	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3462	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3463	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	B1	3464	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3465	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3466	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3467	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3468	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3469	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3470	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3471	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3472	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3473	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3474	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3475	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3476	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3477	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3478	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3479	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3480	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3481	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3482	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3483	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3484	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3485	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3486	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3487	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3488	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3489	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3490	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3491	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3492	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3493	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3494	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3495	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3496	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3497	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3498	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3499	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3500	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3501	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3502	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3503	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3504	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3505	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	B1	3506	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3507	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3508	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3509	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3510	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3511	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3512	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3513	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3514	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3515	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3516	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3517	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3518	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3519	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3520	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3521	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3522	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3523	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3524	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3525	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3526	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3527	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3528	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3529	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3530	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3531	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3532	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3533	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3534	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3535	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3536	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3537	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3538	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3539	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3540	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3541	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3542	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3543	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3544	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3545	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3546	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3547	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	B1	3548	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3549	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3550	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3551	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3552	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3553	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3554	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3555	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3556	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3557	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3558	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3559	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3560	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3561	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3562	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3563	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3564	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3565	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3566	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3567	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3568	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3569	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3570	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3571	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3572	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3573	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3574	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3575	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3576	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3577	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3578	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3579	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3580	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3581	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3582	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3583	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3584	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3585	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3586	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3587	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3588	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3589	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	B1	3590	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3591	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3592	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3593	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3594	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3595	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3596	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3597	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3598	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3599	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3600	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3601	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3602	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3603	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3604	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3605	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3606	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3607	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3608	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3609	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3610	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3611	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3612	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3613	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3614	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3615	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3616	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3617	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3618	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3619	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3620	-	-	0/0/0/0	0/0/0/0
74	OHX	B1	3621	-	-	0/0/0/0	0/0/0/0
74	OHX	B2	201	-	-	0/0/0/0	0/0/0/0
74	OHX	B2	202	-	-	0/0/0/0	0/0/0/0
74	OHX	B2	203	-	-	0/0/0/0	0/0/0/0
74	OHX	B2	204	-	-	0/0/0/0	0/0/0/0
74	OHX	B2	205	-	-	0/0/0/0	0/0/0/0
74	OHX	B2	206	-	-	0/0/0/0	0/0/0/0
74	OHX	B2	207	-	-	0/0/0/0	0/0/0/0
74	OHX	B2	208	-	-	0/0/0/0	0/0/0/0
74	OHX	B2	209	-	-	0/0/0/0	0/0/0/0
74	OHX	B2	210	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	B3	201	-	-	0/0/0/0	0/0/0/0
74	OHX	B3	202	-	-	0/0/0/0	0/0/0/0
74	OHX	B3	203	-	-	0/0/0/0	0/0/0/0
74	OHX	B3	204	-	-	0/0/0/0	0/0/0/0
74	OHX	B3	205	-	-	0/0/0/0	0/0/0/0
74	OHX	B3	206	-	-	0/0/0/0	0/0/0/0
74	OHX	B3	207	-	-	0/0/0/0	0/0/0/0
74	OHX	B3	208	-	-	0/0/0/0	0/0/0/0
74	OHX	B3	209	-	-	0/0/0/0	0/0/0/0
74	OHX	B3	210	-	-	0/0/0/0	0/0/0/0
74	OHX	B3	211	-	-	0/0/0/0	0/0/0/0
74	OHX	B3	212	-	-	0/0/0/0	0/0/0/0
74	OHX	BC	401	-	-	0/0/0/0	0/0/0/0
74	OHX	BO	301	-	-	0/0/0/0	0/0/0/0
74	OHX	BT	201	-	-	0/0/0/0	0/0/0/0
74	OHX	Bd	101	-	-	0/0/0/0	0/0/0/0
74	OHX	Bd	102	-	-	0/0/0/0	0/0/0/0
74	OHX	Bg	101	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1901	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1902	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1903	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1904	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1905	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1906	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1907	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1908	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1909	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1910	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1911	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1912	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1913	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1914	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1915	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1916	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1917	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1918	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1919	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1920	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1921	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1922	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1923	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1924	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	C1	1925	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1926	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1927	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1928	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1929	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1930	1	-	0/0/0/0	0/0/0/0
74	OHX	C1	1931	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1932	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1933	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1934	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1935	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1936	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1937	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1938	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1939	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1940	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1941	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1942	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1943	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1944	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1945	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1946	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1947	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1948	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1949	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1950	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1951	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1952	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1953	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1954	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1955	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1956	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1957	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1958	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1959	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1960	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1961	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1962	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1963	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1964	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1965	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1966	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	C1	1967	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1968	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1969	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1970	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1971	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1972	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1973	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1974	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1975	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1976	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1977	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1978	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1979	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1980	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1981	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1982	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1983	1	-	0/0/0/0	0/0/0/0
74	OHX	C1	1984	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1985	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1986	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1987	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1988	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1989	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1990	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1991	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1992	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1993	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1994	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1995	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1996	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1997	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1998	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	1999	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	2000	-	-	0/0/0/0	0/0/0/0
74	OHX	C1	2001	-	-	0/0/0/0	0/0/0/0
74	OHX	CI	201	-	-	0/0/0/0	0/0/0/0
74	OHX	CS	101	-	-	0/0/0/0	0/0/0/0
74	OHX	CS	102	-	-	0/0/0/0	0/0/0/0
74	OHX	CT	401	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3401	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3402	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3403	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	D1	3404	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3405	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3406	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3407	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3408	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3409	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3410	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3411	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3412	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3413	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3414	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3415	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3416	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3417	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3418	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3419	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3420	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3421	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3422	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3423	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3424	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3425	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3426	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3427	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3428	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3429	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3430	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3431	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3432	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3433	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3434	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3435	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3436	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3437	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3438	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3439	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3440	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3441	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3442	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3443	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3444	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3445	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	D1	3446	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3447	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3448	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3449	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3450	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3451	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3452	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3453	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3454	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3455	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3456	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3457	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3458	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3459	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3460	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3461	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3462	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3463	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3464	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3465	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3466	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3467	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3468	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3469	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3470	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3471	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3472	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3473	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3474	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3475	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3476	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3477	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3478	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3479	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3480	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3481	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3482	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3483	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3484	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3485	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3486	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3487	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	D1	3488	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3489	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3490	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3491	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3492	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3493	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3494	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3495	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3496	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3497	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3498	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3499	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3500	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3501	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3502	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3503	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3504	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3505	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3506	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3507	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3508	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3509	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3510	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3511	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3512	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3513	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3514	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3515	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3516	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3517	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3518	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3519	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3520	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3521	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3522	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3523	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3524	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3525	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3526	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3527	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3528	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3529	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	D1	3530	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3531	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3532	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3533	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3534	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3535	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3536	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3537	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3538	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3539	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3540	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3541	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3542	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3543	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3544	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3545	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3546	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3547	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3548	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3549	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3550	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3551	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3552	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3553	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3554	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3555	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3556	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3557	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3558	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3559	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3560	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3561	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3562	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3563	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3564	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3565	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3566	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3567	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3568	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3569	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3570	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3571	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	D1	3572	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3573	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3574	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3575	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3576	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3577	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3578	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3579	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3580	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3581	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3582	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3583	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3584	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3585	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3586	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3587	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3588	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3589	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3590	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3591	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3592	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3593	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3594	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3595	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3596	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3597	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3598	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3599	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3600	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3601	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3602	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3603	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3604	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3605	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3606	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3607	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3608	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3609	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3610	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3611	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3612	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3613	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
74	OHX	D1	3614	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3615	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3616	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3617	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3618	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3619	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3620	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3621	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3622	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3623	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3624	-	-	0/0/0/0	0/0/0/0
74	OHX	D1	3625	-	-	0/0/0/0	0/0/0/0
74	OHX	D2	201	-	-	0/0/0/0	0/0/0/0
74	OHX	D2	202	-	-	0/0/0/0	0/0/0/0
74	OHX	D2	203	-	-	0/0/0/0	0/0/0/0
74	OHX	D2	204	-	-	0/0/0/0	0/0/0/0
74	OHX	D2	205	-	-	0/0/0/0	0/0/0/0
74	OHX	D2	206	-	-	0/0/0/0	0/0/0/0
74	OHX	D2	207	-	-	0/0/0/0	0/0/0/0
74	OHX	D2	208	-	-	0/0/0/0	0/0/0/0
74	OHX	D2	209	-	-	0/0/0/0	0/0/0/0
74	OHX	D3	201	-	-	0/0/0/0	0/0/0/0
74	OHX	D3	202	-	-	0/0/0/0	0/0/0/0
74	OHX	D3	203	-	-	0/0/0/0	0/0/0/0
74	OHX	D3	204	-	-	0/0/0/0	0/0/0/0
74	OHX	D3	205	-	-	0/0/0/0	0/0/0/0
74	OHX	D3	206	-	-	0/0/0/0	0/0/0/0
74	OHX	D3	207	-	-	0/0/0/0	0/0/0/0
74	OHX	D3	208	-	-	0/0/0/0	0/0/0/0
74	OHX	D3	209	-	-	0/0/0/0	0/0/0/0
74	OHX	D3	210	-	-	0/0/0/0	0/0/0/0
74	OHX	D3	211	-	-	0/0/0/0	0/0/0/0
74	OHX	D3	212	-	-	0/0/0/0	0/0/0/0
74	OHX	DC	401	-	-	0/0/0/0	0/0/0/0
74	OHX	DE	301	-	-	0/0/0/0	0/0/0/0
74	OHX	DJ	301	-	-	0/0/0/0	0/0/0/0
74	OHX	DO	301	-	-	0/0/0/0	0/0/0/0
74	OHX	DO	302	-	-	0/0/0/0	0/0/0/0
74	OHX	DT	201	-	-	0/0/0/0	0/0/0/0
74	OHX	Dd	101	-	-	0/0/0/0	0/0/0/0
74	OHX	Dd	102	-	-	0/0/0/0	0/0/0/0
74	OHX	Dg	101	-	-	0/0/0/0	0/0/0/0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

250 monomers are involved in 774 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	A1	1901	OHX	6	0
74	A1	1902	OHX	1	0
74	A1	1903	OHX	1	0
74	A1	1905	OHX	1	0
74	A1	1908	OHX	1	0
74	A1	1909	OHX	3	0
74	A1	1910	OHX	5	0
74	A1	1913	OHX	6	0
74	A1	1915	OHX	5	0
74	A1	1916	OHX	5	0
74	A1	1917	OHX	4	0
74	A1	1923	OHX	2	0
74	A1	1929	OHX	7	0
74	A1	1931	OHX	7	0
74	A1	1932	OHX	2	0
74	A1	1935	OHX	8	0
74	A1	1936	OHX	3	0
74	A1	1937	OHX	2	0
74	A1	1939	OHX	1	0
74	A1	1941	OHX	1	0
74	A1	1943	OHX	5	0
74	A1	1949	OHX	4	0
74	A1	1950	OHX	2	0
74	A1	1951	OHX	4	0
74	A1	1952	OHX	2	0
74	A1	1958	OHX	3	0
74	A1	1959	OHX	9	0
74	A1	1969	OHX	2	0
74	A1	1970	OHX	1	0
74	A1	1972	OHX	1	0
74	A1	1975	OHX	4	0
74	A1	1976	OHX	5	0
74	A1	1978	OHX	1	0
74	A1	1979	OHX	6	0
74	A1	1986	OHX	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	A1	1989	OHX	2	0
74	A1	1990	OHX	3	0
74	A1	1991	OHX	4	0
74	AS	101	OHX	18	0
74	AT	401	OHX	1	0
74	B1	3404	OHX	2	0
74	B1	3405	OHX	2	0
74	B1	3406	OHX	2	0
74	B1	3413	OHX	1	0
74	B1	3415	OHX	2	0
74	B1	3417	OHX	3	0
74	B1	3420	OHX	2	0
74	B1	3428	OHX	8	0
74	B1	3429	OHX	2	0
74	B1	3433	OHX	1	0
74	B1	3434	OHX	2	0
74	B1	3438	OHX	12	0
74	B1	3440	OHX	1	0
74	B1	3442	OHX	1	0
74	B1	3447	OHX	1	0
74	B1	3449	OHX	7	0
74	B1	3450	OHX	17	0
74	B1	3451	OHX	1	0
74	B1	3456	OHX	2	0
74	B1	3459	OHX	6	0
74	B1	3460	OHX	1	0
74	B1	3464	OHX	1	0
74	B1	3469	OHX	2	0
74	B1	3471	OHX	1	0
74	B1	3478	OHX	1	0
74	B1	3479	OHX	10	0
74	B1	3481	OHX	1	0
74	B1	3483	OHX	3	0
74	B1	3485	OHX	1	0
74	B1	3489	OHX	3	0
74	B1	3490	OHX	1	0
74	B1	3492	OHX	10	0
74	B1	3496	OHX	5	0
74	B1	3503	OHX	1	0
74	B1	3505	OHX	4	0
74	B1	3506	OHX	1	0
74	B1	3513	OHX	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	B1	3519	OHX	5	0
74	B1	3523	OHX	1	0
74	B1	3524	OHX	4	0
74	B1	3527	OHX	1	0
74	B1	3529	OHX	4	0
74	B1	3536	OHX	8	0
74	B1	3537	OHX	8	0
74	B1	3539	OHX	2	0
74	B1	3540	OHX	1	0
74	B1	3544	OHX	5	0
74	B1	3552	OHX	2	0
74	B1	3553	OHX	1	0
74	B1	3558	OHX	6	0
74	B1	3559	OHX	1	0
74	B1	3561	OHX	1	0
74	B1	3563	OHX	5	0
74	B1	3567	OHX	7	0
74	B1	3568	OHX	2	0
74	B1	3574	OHX	1	0
74	B1	3576	OHX	2	0
74	B1	3578	OHX	1	0
74	B1	3581	OHX	7	0
74	B1	3583	OHX	3	0
74	B1	3585	OHX	2	0
74	B1	3587	OHX	8	0
74	B1	3592	OHX	1	0
74	B1	3593	OHX	1	0
74	B1	3595	OHX	1	0
74	B1	3599	OHX	4	0
74	B1	3605	OHX	5	0
74	B1	3607	OHX	2	0
74	B1	3609	OHX	1	0
74	B1	3614	OHX	3	0
74	B1	3615	OHX	2	0
74	B1	3616	OHX	4	0
74	B1	3617	OHX	4	0
74	B1	3619	OHX	6	0
74	B1	3620	OHX	4	0
74	B2	201	OHX	7	0
74	B2	204	OHX	2	0
74	B2	209	OHX	3	0
74	B3	202	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	B3	205	OHX	2	0
74	B3	206	OHX	8	0
74	B3	211	OHX	1	0
74	B3	212	OHX	2	0
74	BC	401	OHX	1	0
74	BT	201	OHX	2	0
74	C1	1901	OHX	3	0
74	C1	1902	OHX	1	0
74	C1	1903	OHX	2	0
74	C1	1905	OHX	1	0
74	C1	1907	OHX	1	0
74	C1	1908	OHX	2	0
74	C1	1910	OHX	1	0
74	C1	1912	OHX	7	0
74	C1	1914	OHX	1	0
74	C1	1915	OHX	1	0
74	C1	1916	OHX	4	0
74	C1	1917	OHX	6	0
74	C1	1918	OHX	2	0
74	C1	1924	OHX	8	0
74	C1	1927	OHX	3	0
74	C1	1928	OHX	5	0
74	C1	1929	OHX	1	0
74	C1	1930	OHX	10	0
74	C1	1933	OHX	7	0
74	C1	1939	OHX	1	0
74	C1	1944	OHX	1	0
74	C1	1951	OHX	2	0
74	C1	1952	OHX	1	0
74	C1	1953	OHX	3	0
74	C1	1955	OHX	5	0
74	C1	1961	OHX	2	0
74	C1	1964	OHX	6	0
74	C1	1970	OHX	6	0
74	C1	1973	OHX	1	0
74	C1	1983	OHX	4	0
74	C1	1984	OHX	1	0
74	C1	1985	OHX	1	0
74	C1	1991	OHX	1	0
74	C1	1993	OHX	3	0
74	C1	1994	OHX	1	0
74	C1	1995	OHX	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	C1	1997	OHX	1	0
74	C1	1999	OHX	3	0
74	C1	2001	OHX	8	0
74	CS	101	OHX	16	0
74	D1	3402	OHX	3	0
74	D1	3406	OHX	1	0
74	D1	3407	OHX	1	0
74	D1	3408	OHX	8	0
74	D1	3413	OHX	3	0
74	D1	3415	OHX	13	0
74	D1	3416	OHX	1	0
74	D1	3419	OHX	1	0
74	D1	3428	OHX	2	0
74	D1	3430	OHX	4	0
74	D1	3431	OHX	7	0
74	D1	3434	OHX	1	0
74	D1	3442	OHX	5	0
74	D1	3446	OHX	7	0
74	D1	3447	OHX	3	0
74	D1	3448	OHX	2	0
74	D1	3452	OHX	12	0
74	D1	3454	OHX	1	0
74	D1	3455	OHX	1	0
74	D1	3456	OHX	1	0
74	D1	3462	OHX	1	0
74	D1	3463	OHX	6	0
74	D1	3464	OHX	2	0
74	D1	3465	OHX	3	0
74	D1	3470	OHX	2	0
74	D1	3471	OHX	6	0
74	D1	3473	OHX	5	0
74	D1	3477	OHX	8	0
74	D1	3480	OHX	4	0
74	D1	3489	OHX	2	0
74	D1	3492	OHX	3	0
74	D1	3495	OHX	2	0
74	D1	3502	OHX	5	0
74	D1	3510	OHX	3	0
74	D1	3514	OHX	3	0
74	D1	3523	OHX	3	0
74	D1	3524	OHX	2	0
74	D1	3526	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	D1	3527	OHX	3	0
74	D1	3530	OHX	2	0
74	D1	3537	OHX	3	0
74	D1	3539	OHX	1	0
74	D1	3543	OHX	6	0
74	D1	3547	OHX	1	0
74	D1	3551	OHX	1	0
74	D1	3555	OHX	4	0
74	D1	3556	OHX	3	0
74	D1	3557	OHX	3	0
74	D1	3559	OHX	3	0
74	D1	3567	OHX	5	0
74	D1	3568	OHX	4	0
74	D1	3570	OHX	1	0
74	D1	3574	OHX	13	0
74	D1	3576	OHX	2	0
74	D1	3577	OHX	1	0
74	D1	3578	OHX	1	0
74	D1	3582	OHX	10	0
74	D1	3583	OHX	6	0
74	D1	3585	OHX	4	0
74	D1	3588	OHX	13	0
74	D1	3589	OHX	5	0
74	D1	3591	OHX	3	0
74	D1	3592	OHX	5	0
74	D1	3597	OHX	3	0
74	D1	3598	OHX	1	0
74	D1	3599	OHX	3	0
74	D1	3607	OHX	6	0
74	D1	3608	OHX	1	0
74	D1	3615	OHX	3	0
74	D1	3616	OHX	3	0
74	D1	3619	OHX	1	0
74	D1	3625	OHX	7	0
74	D2	201	OHX	8	0
74	D2	202	OHX	2	0
74	D2	204	OHX	1	0
74	D2	205	OHX	1	0
74	D2	207	OHX	6	0
74	D2	209	OHX	2	0
74	D3	201	OHX	3	0
74	D3	202	OHX	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
74	D3	204	OHX	7	0
74	D3	205	OHX	4	0
74	D3	209	OHX	7	0
74	D3	212	OHX	12	0
74	DO	301	OHX	5	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
23	Cb	4
23	Ab	4
63	Dh	1
68	Bn	1
28	Ch	1
24	Cc	1
24	Ac	1
28	Ah	1
63	Bh	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Bh	23:UNK	C	34:UNK	N	29.25
1	Dh	23:UNK	C	34:UNK	N	28.80
1	Ch	25:UNK	C	50:UNK	N	22.77
1	Ab	19:UNK	C	21:UNK	N	20.41
1	Bn	19:UNK	C	27:UNK	N	20.28
1	Cb	19:UNK	C	21:UNK	N	19.97
1	Cb	30:UNK	C	45:UNK	N	19.12
1	Ah	25:UNK	C	50:UNK	N	19.01
1	Cb	86:UNK	C	101:UNK	N	15.94
1	Ab	68:UNK	C	71:UNK	N	15.61
1	Ab	86:UNK	C	101:UNK	N	13.12
1	Cb	68:UNK	C	71:UNK	N	10.71
1	Ab	30:UNK	C	45:UNK	N	9.43

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Cc	54:UNK	C	61:UNK	N	5.78
1	Ac	54:UNK	C	61:UNK	N	4.90

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A1	1789/1800 (99%)	0.12	59 (3%) 50 38	45, 138, 429, 753	0
1	C1	1789/1800 (99%)	0.22	74 (4%) 41 31	42, 120, 419, 674	0
2	AA	220/252 (87%)	-0.51	6 (2%) 58 46	64, 150, 323, 474	0
2	CA	220/252 (87%)	-0.52	2 (0%) 85 80	66, 119, 336, 538	0
3	AB	219/254 (86%)	-0.36	3 (1%) 78 68	42, 117, 298, 500	0
3	CB	219/254 (86%)	-0.54	2 (0%) 85 80	50, 108, 288, 386	0
4	AC	189/240 (78%)	-0.32	3 (1%) 74 64	52, 120, 278, 403	0
4	CC	189/240 (78%)	-0.52	0 100 100	41, 120, 262, 460	0
5	AD	169/225 (75%)	-0.57	4 (2%) 62 51	58, 150, 355, 516	0
5	CD	169/225 (75%)	-0.61	3 (1%) 71 61	33, 108, 269, 383	0
6	AE	157/197 (79%)	-0.45	6 (3%) 44 34	44, 140, 362, 438	0
6	CE	157/197 (79%)	-0.45	1 (0%) 90 86	31, 99, 330, 482	0
7	AF	77/156 (49%)	-0.54	1 (1%) 79 70	45, 95, 205, 412	0
7	CF	77/156 (49%)	0.13	7 (9%) 11 8	56, 91, 267, 342	0
8	AG	117/151 (77%)	-0.77	0 100 100	35, 108, 284, 362	0
8	CG	117/151 (77%)	-0.75	0 100 100	47, 97, 263, 458	0
9	AH	128/137 (93%)	-0.18	7 (5%) 29 21	53, 186, 349, 436	0
9	CH	128/137 (93%)	-0.18	6 (4%) 35 26	39, 132, 354, 482	0
10	AI	121/142 (85%)	-0.49	2 (1%) 73 62	55, 140, 329, 419	0
10	CI	121/142 (85%)	-0.42	2 (1%) 73 62	46, 116, 273, 447	0
11	AJ	134/143 (93%)	-0.54	2 (1%) 76 66	74, 144, 302, 340	0
11	CJ	134/143 (93%)	-0.44	3 (2%) 65 54	44, 99, 288, 381	0
12	AK	67/136 (49%)	-0.40	2 (2%) 54 41	52, 142, 319, 407	0
12	CK	67/136 (49%)	0.22	5 (7%) 17 12	64, 199, 350, 401	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
13	AL	120/146 (82%)	-0.43	4 (3%)	50	38	55, 146, 298, 514	0
13	CL	120/146 (82%)	-0.38	5 (4%)	40	30	52, 96, 293, 519	0
14	AM	106/144 (73%)	-0.51	2 (1%)	70	59	71, 138, 348, 425	0
14	CM	106/144 (73%)	-0.56	2 (1%)	70	59	42, 81, 260, 338	0
15	AN	111/121 (91%)	-0.31	4 (3%)	46	36	68, 129, 336, 412	0
15	CN	111/121 (91%)	-0.32	2 (1%)	71	61	32, 111, 286, 424	0
16	AO	127/130 (97%)	-0.36	1 (0%)	87	82	53, 95, 256, 411	0
16	CO	127/130 (97%)	-0.75	0	100	100	54, 91, 229, 441	0
17	AP	116/145 (80%)	-0.62	1 (0%)	85	80	29, 95, 247, 384	0
17	CP	116/145 (80%)	-0.62	0	100	100	29, 71, 190, 418	0
18	AQ	67/108 (62%)	-0.40	1 (1%)	76	66	94, 210, 332, 355	0
18	CQ	63/108 (58%)	-0.31	2 (3%)	51	38	68, 150, 282, 307	0
19	AR	47/67 (70%)	0.16	4 (8%)	13	10	107, 245, 393, 457	0
19	CR	47/67 (70%)	0.42	5 (10%)	8	6	51, 221, 381, 425	0
20	AS	39/56 (69%)	-0.46	0	100	100	58, 108, 181, 260	0
20	CS	39/56 (69%)	-0.46	0	100	100	37, 95, 140, 292	0
21	AT	313/319 (98%)	-0.19	13 (4%)	40	30	106, 195, 286, 348	0
21	CT	313/319 (98%)	-0.16	15 (4%)	34	25	67, 158, 257, 328	0
22	Aa	0/20	-	-	-	-	-	-
22	Bo	0/20	-	-	-	-	-	-
22	Ca	0/20	-	-	-	-	-	-
23	Ab	0/105	-	-	-	-	-	-
23	Cb	0/105	-	-	-	-	-	-
24	Ac	0/93	-	-	-	-	-	-
24	Cc	0/93	-	-	-	-	-	-
25	Ad	0/35	-	-	-	-	-	-
25	Cd	0/35	-	-	-	-	-	-
26	Ae	0/21	-	-	-	-	-	-
26	Bj	0/21	-	-	-	-	-	-
26	Dj	0/21	-	-	-	-	-	-
27	Af	0/11	-	-	-	-	-	-
28	Ah	0/41	-	-	-	-	-	-
28	Ch	0/41	-	-	-	-	-	-
29	B1	3206/3396 (94%)	0.11	96 (2%)	54	41	33, 86, 395, 634	0
29	D1	3206/3396 (94%)	0.16	109 (3%)	49	37	30, 94, 427, 674	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
30	B2	121/121 (100%)	-0.03	2 (1%) 73 62	46, 118, 189, 323	0
30	D2	121/121 (100%)	0.00	1 (0%) 87 82	36, 95, 180, 349	0
31	B3	158/158 (100%)	0.07	6 (3%) 44 34	46, 108, 258, 619	0
31	D3	158/158 (100%)	0.05	3 (1%) 70 59	59, 136, 358, 586	0
32	BA	213/217 (98%)	0.57	33 (15%) 3 3	137, 327, 441, 483	0
32	DA	213/217 (98%)	0.80	46 (21%) 1 2	159, 354, 442, 484	0
33	BB	234/254 (92%)	-0.44	3 (1%) 79 70	25, 83, 246, 419	0
33	DB	234/254 (92%)	-0.21	5 (2%) 67 56	54, 108, 254, 417	0
34	BC	364/387 (94%)	-0.59	1 (0%) 94 92	20, 66, 216, 560	0
34	DC	364/387 (94%)	-0.68	0 100 100	29, 58, 208, 543	0
35	BD	268/362 (74%)	-0.70	0 100 100	34, 70, 207, 500	0
35	DD	268/362 (74%)	-0.50	2 (0%) 89 84	50, 102, 274, 463	0
36	BE	287/297 (96%)	-0.44	3 (1%) 84 77	58, 119, 355, 497	0
36	DE	287/297 (96%)	-0.59	7 (2%) 62 51	38, 91, 302, 478	0
37	BF	176/176 (100%)	-0.60	2 (1%) 82 75	25, 81, 305, 519	0
37	DF	176/176 (100%)	-0.48	1 (0%) 90 86	31, 69, 342, 518	0
38	BG	215/244 (88%)	-0.85	0 100 100	21, 59, 226, 486	0
38	DG	215/244 (88%)	-0.89	0 100 100	25, 49, 167, 330	0
39	BH	173/256 (67%)	-0.43	5 (2%) 55 42	45, 110, 297, 429	0
39	DH	173/256 (67%)	-0.36	5 (2%) 55 42	70, 146, 316, 422	0
40	BI	191/191 (100%)	-0.50	2 (1%) 84 77	27, 83, 237, 347	0
40	DI	191/191 (100%)	-0.89	0 100 100	22, 49, 164, 286	0
41	BJ	208/221 (94%)	-0.63	1 (0%) 91 88	39, 93, 251, 452	0
41	DJ	208/221 (94%)	-0.72	1 (0%) 91 88	25, 64, 257, 456	0
42	BK	165/174 (94%)	-0.46	5 (3%) 54 41	56, 125, 348, 497	0
42	DK	165/174 (94%)	-0.59	1 (0%) 90 86	45, 97, 330, 532	0
43	BN	120/138 (86%)	-0.57	0 100 100	34, 77, 260, 387	0
43	DN	120/138 (86%)	-0.68	1 (0%) 87 82	33, 60, 262, 325	0
44	BO	187/204 (91%)	-0.53	2 (1%) 82 75	38, 86, 178, 383	0
44	DO	187/204 (91%)	-0.33	5 (2%) 58 46	57, 119, 255, 327	0
45	BP	196/199 (98%)	-0.83	0 100 100	23, 48, 152, 409	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
45	DP	196/199 (98%)	-0.74	1 (0%) 91 88	23, 45, 111, 424	0
46	BQ	154/184 (83%)	-0.72	0 100 100	30, 55, 144, 337	0
46	DQ	154/184 (83%)	-0.77	0 100 100	37, 77, 243, 373	0
47	BR	143/186 (76%)	-0.70	1 (0%) 89 84	38, 70, 200, 421	0
47	DR	143/186 (76%)	-0.26	6 (4%) 40 30	60, 87, 244, 378	0
48	BS	188/189 (99%)	-0.47	4 (2%) 67 56	52, 101, 419, 569	0
48	DS	188/189 (99%)	0.21	27 (14%) 3 4	59, 109, 589, 657	0
49	BT	119/160 (74%)	-0.55	1 (0%) 87 82	42, 73, 221, 310	0
49	DT	119/160 (74%)	-0.60	0 100 100	36, 72, 184, 282	0
50	BU	129/137 (94%)	-0.52	0 100 100	27, 70, 208, 391	0
50	DU	129/137 (94%)	-0.60	0 100 100	20, 48, 151, 235	0
51	BV	59/155 (38%)	-0.67	0 100 100	29, 84, 259, 363	0
51	DV	59/155 (38%)	-0.46	1 (1%) 73 62	53, 73, 197, 320	0
52	BW	94/142 (66%)	-0.41	2 (2%) 67 56	53, 91, 211, 312	0
52	DW	94/142 (66%)	-0.43	1 (1%) 82 75	64, 124, 247, 337	0
53	BX	107/127 (84%)	-0.69	0 100 100	58, 91, 182, 233	0
53	DX	107/127 (84%)	-0.46	2 (1%) 70 59	56, 106, 248, 361	0
54	BY	149/149 (100%)	-0.44	3 (2%) 68 57	30, 76, 331, 456	0
54	DY	149/149 (100%)	-0.50	1 (0%) 89 84	49, 95, 277, 409	0
55	BZ	98/105 (93%)	-0.30	3 (3%) 52 40	52, 128, 269, 360	0
55	DZ	98/105 (93%)	-0.26	3 (3%) 52 40	56, 134, 272, 365	0
56	Ba	86/113 (76%)	-0.66	0 100 100	38, 83, 232, 396	0
56	Da	86/113 (76%)	-0.62	0 100 100	51, 82, 274, 430	0
57	Bb	125/130 (96%)	-0.77	0 100 100	26, 54, 138, 435	0
57	Db	125/130 (96%)	-0.45	1 (0%) 87 82	39, 77, 168, 380	0
58	Bc	68/120 (56%)	-0.65	0 100 100	46, 89, 202, 381	0
58	Dc	68/120 (56%)	-0.73	1 (1%) 76 66	50, 123, 270, 348	0
59	Bd	72/88 (81%)	-0.51	0 100 100	36, 79, 322, 434	0
59	Dd	72/88 (81%)	-0.60	0 100 100	30, 103, 268, 336	0
60	Be	48/51 (94%)	-0.64	0 100 100	30, 72, 159, 290	0
60	De	48/51 (94%)	-0.56	0 100 100	40, 118, 222, 333	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
61	Bf	95/106 (89%)	-0.15	4 (4%) 40 30	57, 145, 363, 475	0
61	Df	95/106 (89%)	0.27	12 (12%) 5 5	62, 195, 389, 486	0
62	Bg	83/92 (90%)	-0.67	1 (1%) 81 72	35, 98, 311, 431	0
62	Dg	83/92 (90%)	-0.62	0 100 100	42, 103, 241, 369	0
63	Bh	0/44	-	-	-	-
63	Dh	0/44	-	-	-	-
64	Bi	0/12	-	-	-	-
64	Di	0/12	-	-	-	-
65	Bk	0/16	-	-	-	-
65	Dk	0/16	-	-	-	-
66	Bl	0/19	-	-	-	-
67	Bm	0/9	-	-	-	-
68	Bn	0/27	-	-	-	-
69	Bp	0/8	-	-	-	-
70	Bq	0/17	-	-	-	-
71	Br	0/23	-	-	-	-
72	DL	138/165 (83%)	-0.57	2 (1%) 78 68	84, 172, 387, 465	0
73	DM	130/312 (41%)	-0.51	2 (1%) 76 66	47, 121, 305, 409	0
All	All	25728/30002 (85%)	-0.21	688 (2%) 58 46	20, 105, 353, 753	0

All (688) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
29	B1	136	G	16.5
29	D1	2495	C	16.2
1	C1	681	U	15.8
29	D1	2473	C	14.8
1	A1	1701	A	14.8
29	D1	2494	A	14.8
29	D1	2453	U	13.6
32	DA	168	ALA	13.1
1	C1	662	U	12.6
29	B1	2494	A	11.7
29	B1	133	U	11.4
1	C1	664	U	11.3
32	BA	197	ASN	11.0
1	A1	1709	C	11.0
1	C1	680	U	10.8
29	D1	766	U	10.7
48	DS	175	GLN	10.7

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Mol	Chain	Res	Type	RSRZ
32	DA	192	SER	10.5
29	B1	2448	G	10.4
29	B1	2493	U	10.3
29	D1	2472	U	10.2
1	C1	1700	C	10.1
48	DS	176	ARG	10.0
1	A1	1795	U	9.9
29	B1	2472	U	9.8
29	B1	765	C	9.8
48	DS	174	ALA	9.8
29	D1	2449	A	9.3
1	C1	1699	G	8.8
29	B1	2402	A	8.7
1	C1	679	U	8.7
29	B1	1027	A	8.6
1	C1	666	U	8.5
29	B1	766	U	8.4
48	DS	173	ARG	8.4
29	D1	2451	G	8.1
29	D1	765	C	7.9
1	C1	665	U	7.9
29	D1	2450	G	7.8
29	D1	2726	C	7.7
19	AR	19	THR	7.7
21	CT	51	ASP	7.6
1	C1	69	G	7.6
29	B1	2495	C	7.5
29	D1	2481	G	7.4
1	C1	1677	C	7.4
48	BS	182	ASP	7.4
5	AD	185	ARG	7.3
29	D1	2402	A	7.2
1	C1	667	U	7.2
13	CL	94	ASP	7.2
29	D1	2474	G	7.2
1	C1	661	A	7.1
21	AT	25	THR	7.0
48	DS	159	ALA	6.9
48	DS	160	GLU	6.9
29	D1	2452	G	6.9
19	CR	29	ARG	6.9
32	DA	33	GLU	6.8

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Mol	Chain	Res	Type	RSRZ
12	AK	36	ASP	6.7
1	A1	1705	C	6.7
29	B1	2445	A	6.6
12	CK	36	ASP	6.6
1	A1	1699	G	6.5
29	D1	2448	G	6.5
32	BA	198	TRP	6.5
29	D1	3353	G	6.4
1	C1	682	C	6.4
48	DS	171	ASP	6.4
9	AH	11	SER	6.3
29	D1	1573	G	6.3
32	BA	36	VAL	6.3
32	DA	194	LEU	6.3
32	BA	37	GLY	6.2
9	CH	11	SER	6.2
39	BH	129	PRO	6.2
29	D1	2418	G	6.2
29	B1	1762	C	6.2
29	B1	1241	U	6.1
29	B1	1644	C	6.1
48	DS	167	ARG	6.0
2	CA	213	GLN	6.0
10	AI	53	PRO	6.0
29	D1	437	G	5.9
19	CR	50	GLU	5.9
13	CL	95	GLY	5.9
1	A1	1698	G	5.9
48	DS	170	ARG	5.9
32	BA	199	GLN	5.9
1	A1	1697	G	5.9
29	B1	1764	U	5.8
29	D1	2483	G	5.8
32	BA	188	ASN	5.8
1	A1	1255	G	5.7
32	DA	156	LYS	5.7
1	A1	664	U	5.7
29	B1	1763	U	5.7
29	B1	2726	C	5.6
29	B1	1199	C	5.6
29	D1	2455	U	5.5
29	D1	767	U	5.5

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Mol	Chain	Res	Type	RSRZ
39	BH	235	GLY	5.5
36	DE	231	ILE	5.4
21	AT	44	SER	5.3
29	B1	2464	U	5.3
55	DZ	105	ALA	5.3
1	C1	1800	A	5.3
48	DS	187	GLU	5.3
12	CK	22	PRO	5.3
1	C1	1795	U	5.3
32	DA	158	GLN	5.2
35	DD	67	THR	5.2
48	DS	186	LYS	5.2
29	D1	133	U	5.2
29	D1	2465	G	5.2
29	D1	2470	C	5.1
30	D2	39	C	5.1
32	DA	193	LEU	5.1
31	B3	86	U	5.0
32	DA	197	ASN	5.0
29	B1	2492	C	5.0
29	B1	2458	A	5.0
12	CK	37	GLU	5.0
36	DE	232	ASP	4.9
13	CL	85	PHE	4.9
1	A1	1710	U	4.9
29	B1	2499	U	4.9
29	D1	2480	A	4.8
32	DA	143	ASP	4.8
29	B1	2466	G	4.8
12	CK	35	CYS	4.8
1	C1	1697	G	4.8
21	CT	212	ALA	4.8
3	AB	93	GLY	4.8
21	AT	212	ALA	4.8
10	CI	53	PRO	4.7
1	C1	660	G	4.7
48	DS	166	ASN	4.7
57	Db	116	GLY	4.7
1	C1	652	G	4.7
1	A1	679	U	4.7
6	AE	21	SER	4.7
1	A1	69	G	4.7

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Mol	Chain	Res	Type	RSRZ
7	CF	116	ARG	4.6
1	C1	137	U	4.6
32	DA	41	TYR	4.6
1	C1	1676	U	4.6
14	AM	3	GLY	4.6
32	DA	163	LEU	4.6
32	DA	86	SER	4.6
29	D1	2489	C	4.6
29	D1	2454	G	4.6
32	BA	166	ALA	4.6
29	D1	2460	U	4.6
29	B1	132	C	4.6
48	DS	163	ARG	4.5
36	DE	270	LYS	4.5
61	Bf	10	THR	4.5
29	B1	2489	C	4.5
29	D1	2475	G	4.5
29	D1	2466	G	4.5
29	D1	2675	C	4.5
32	BA	190	PHE	4.5
29	D1	2456	A	4.4
48	DS	177	VAL	4.4
29	D1	2257	C	4.4
32	BA	116	LEU	4.4
21	CT	52	GLN	4.4
29	B1	2446	U	4.4
1	A1	505	A	4.4
12	CK	31	ASN	4.4
31	B3	126	A	4.4
21	CT	113	VAL	4.4
29	B1	1270	A	4.4
29	D1	2496	C	4.4
61	Df	56	PRO	4.3
32	DA	162	VAL	4.3
32	DA	160	LYS	4.3
15	AN	85	ARG	4.3
29	D1	2688	U	4.3
1	A1	653	C	4.3
53	DX	45	ILE	4.3
29	B1	2465	G	4.3
1	C1	823	G	4.3
1	A1	490	C	4.3

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Mol	Chain	Res	Type	RSRZ
2	CA	26	ALA	4.2
1	C1	656	G	4.2
19	CR	34	GLU	4.2
48	DS	172	ARG	4.2
29	D1	2482	U	4.2
1	A1	134	U	4.2
19	CR	30	VAL	4.1
29	B1	2475	G	4.1
29	B1	119	U	4.1
1	A1	1059	U	4.1
13	CL	86	LEU	4.1
29	D1	3273	A	4.1
42	BK	136	ALA	4.1
14	AM	26	GLY	4.1
32	DA	144	LEU	4.1
32	BA	175	GLU	4.1
13	AL	84	TRP	4.0
29	B1	2447	A	4.0
1	A1	682	C	4.0
36	BE	268	GLU	4.0
73	DM	72	ASP	4.0
29	B1	2473	C	4.0
15	CN	95	ALA	4.0
41	DJ	113	GLN	4.0
29	D1	2476	C	4.0
21	CT	172	ALA	3.9
47	DR	120	GLU	3.9
39	DH	199	ALA	3.9
1	C1	1798	U	3.9
62	Bg	92	ALA	3.8
1	C1	1201	G	3.8
29	B1	2675	C	3.8
45	DP	199	TYR	3.8
6	AE	86	LEU	3.8
61	Df	21	THR	3.8
7	CF	145	ALA	3.8
32	DA	164	CYS	3.8
32	DA	137	PRO	3.8
32	DA	6	SER	3.8
31	B3	158	U	3.8
1	C1	1350	U	3.8
29	D1	2095	G	3.8

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Mol	Chain	Res	Type	RSRZ
41	BJ	116	ARG	3.8
32	BA	9	VAL	3.7
29	B1	2456	A	3.7
47	DR	152	HIS	3.7
29	D1	3271	G	3.7
11	CJ	143	ARG	3.7
72	DL	102	GLY	3.7
7	CF	117	VAL	3.7
29	B1	2688	U	3.7
1	A1	1794	A	3.7
32	DA	139	SER	3.7
29	D1	1644	C	3.7
48	BS	183	ALA	3.7
7	CF	141	LYS	3.7
29	D1	245	U	3.7
32	DA	111	ILE	3.7
61	Df	82	GLN	3.6
32	BA	115	VAL	3.6
29	B1	3260	G	3.6
61	Bf	12	CYS	3.6
21	AT	80	ALA	3.6
32	BA	66	CYS	3.6
29	B1	2500	A	3.6
29	D1	3260	G	3.6
7	CF	140	VAL	3.5
32	DA	169	VAL	3.5
29	D1	2501	U	3.5
1	C1	1192	C	3.5
35	DD	66	GLY	3.5
11	AJ	58	ASP	3.5
61	Df	54	THR	3.5
11	CJ	20	ALA	3.5
29	B1	1026	A	3.5
29	D1	1568	U	3.5
73	DM	71	PRO	3.5
1	A1	1800	A	3.4
1	A1	1703	C	3.4
29	D1	136	G	3.4
19	AR	18	ARG	3.4
32	BA	200	ASN	3.4
29	B1	1016	C	3.4
29	D1	2259	A	3.4

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Mol	Chain	Res	Type	RSRZ
29	D1	2484	A	3.4
43	DN	28	SER	3.4
29	B1	2462	A	3.4
1	A1	137	U	3.4
1	C1	1698	G	3.4
29	D1	2403	G	3.4
21	CT	213	SER	3.4
33	DB	97	ASN	3.4
1	A1	503	G	3.4
1	A1	1241	G	3.4
1	A1	710	U	3.4
1	A1	1240	U	3.4
48	DS	157	GLU	3.3
42	BK	150	ASN	3.3
29	B1	135	C	3.3
58	Dc	1	MET	3.3
4	AC	187	LYS	3.3
29	B1	2452	G	3.3
48	DS	158	GLU	3.3
1	C1	1695	G	3.3
29	B1	326	U	3.2
1	A1	1631	A	3.2
1	C1	653	C	3.2
6	AE	87	SER	3.2
29	B1	1221	A	3.2
1	A1	279	G	3.2
1	A1	1	U	3.2
32	DA	37	GLY	3.2
44	DO	3	ALA	3.2
1	C1	1130	G	3.2
36	BE	39	GLN	3.2
44	DO	40	ALA	3.2
29	B1	2486	A	3.2
5	CD	184	PHE	3.2
48	DS	156	ASN	3.2
9	AH	80	HIS	3.2
29	B1	2449	A	3.2
32	DA	196	LYS	3.2
29	B1	137	G	3.2
32	BA	145	TYR	3.2
32	BA	157	PHE	3.2
32	DA	42	ASP	3.2

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Mol	Chain	Res	Type	RSRZ
31	D3	126	A	3.1
1	C1	695	U	3.1
29	B1	3352	U	3.1
32	DA	50	SER	3.1
32	DA	138	VAL	3.1
53	DX	44	GLY	3.1
19	AR	50	GLU	3.1
48	DS	185	LEU	3.1
32	BA	192	SER	3.1
44	BO	57	GLN	3.1
1	C1	782	U	3.1
29	D1	2493	U	3.1
29	D1	1574	C	3.1
1	C1	284	G	3.1
29	B1	1242	G	3.1
29	B1	2467	G	3.1
29	B1	2418	G	3.1
1	A1	135	A	3.1
1	C1	659	C	3.1
5	AD	184	PHE	3.1
29	B1	1349	G	3.1
32	DA	43	PRO	3.1
29	B1	1273	A	3.1
1	C1	651	G	3.0
4	AC	153	ALA	3.0
29	D1	252	U	3.0
32	BA	88	ASP	3.0
1	C1	239	C	3.0
21	AT	130	THR	3.0
36	DE	230	ASP	3.0
48	DS	168	ALA	3.0
32	DA	49	PHE	3.0
29	B1	2485	A	3.0
29	B1	2871	G	3.0
29	B1	2488	A	3.0
32	DA	155	ILE	3.0
1	A1	1706	C	3.0
47	DR	149	ALA	3.0
47	DR	153	PHE	3.0
9	AH	15	GLY	3.0
29	B1	3353	G	3.0
29	B1	2463	G	2.9

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Mol	Chain	Res	Type	RSRZ
29	D1	2570	U	2.9
40	BI	190	ASP	2.9
6	AE	175	ARG	2.9
21	AT	59	ARG	2.9
1	C1	1796	C	2.9
51	DV	1	MET	2.9
1	A1	1796	C	2.9
1	C1	655	G	2.9
29	D1	1354	G	2.9
29	D1	2554	A	2.9
1	C1	493	U	2.9
29	B1	2471	U	2.9
29	D1	2490	C	2.9
49	BT	121	ALA	2.9
6	CE	174	ARG	2.9
32	DA	141	ASN	2.9
1	C1	1797	A	2.9
11	AJ	57	LEU	2.9
29	D1	2478	C	2.9
61	Df	55	LYS	2.9
32	BA	62	ASN	2.9
29	B1	1029	G	2.9
29	D1	2457	G	2.9
31	B3	51	G	2.9
31	B3	75	G	2.9
9	AH	12	GLN	2.9
32	BA	168	ALA	2.9
61	Df	22	GLN	2.9
42	BK	135	GLY	2.9
29	D1	2491	A	2.9
32	BA	8	GLN	2.9
1	A1	191	C	2.9
32	BA	26	ARG	2.9
61	Df	7	THR	2.9
7	CF	144	ALA	2.9
32	BA	176	GLU	2.9
1	A1	491	C	2.8
61	Df	81	ALA	2.8
29	D1	2256	A	2.8
29	B1	2474	G	2.8
1	C1	718	U	2.8
6	AE	176	ASN	2.8

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Mol	Chain	Res	Type	RSRZ
29	B1	1014	U	2.8
5	CD	185	ARG	2.8
29	B1	1951	C	2.8
32	BA	27	ASN	2.8
32	BA	189	PHE	2.8
29	D1	72	C	2.8
1	C1	1378	U	2.8
29	B1	3314	A	2.8
29	D1	2502	A	2.8
39	DH	198	ALA	2.8
55	DZ	89	VAL	2.8
39	DH	213	LYS	2.8
1	C1	105	A	2.8
1	C1	486	G	2.8
29	D1	246	U	2.8
48	BS	53	LYS	2.8
19	CR	28	VAL	2.8
1	C1	712	G	2.8
29	D1	2265	C	2.8
1	A1	1256	A	2.8
3	AB	112	GLY	2.8
1	C1	393	C	2.8
42	BK	152	HIS	2.8
29	B1	538	G	2.7
1	A1	719	U	2.7
48	DS	182	ASP	2.7
9	CH	109	GLY	2.7
32	DA	199	GLN	2.7
21	CT	203	THR	2.7
29	D1	764	U	2.7
29	D1	2498	U	2.7
32	BA	110	PHE	2.7
29	B1	1198	C	2.7
21	AT	211	ILE	2.7
7	AF	116	ARG	2.7
29	B1	1238	C	2.7
3	AB	92	ALA	2.7
36	DE	39	GLN	2.7
29	B1	633	C	2.7
72	DL	103	ASN	2.7
29	B1	1243	G	2.7
29	B1	2470	C	2.7

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Mol	Chain	Res	Type	RSRZ
32	DA	140	HIS	2.7
47	BR	152	HIS	2.7
29	D1	2553	U	2.7
29	B1	1195	A	2.7
32	DA	63	MET	2.7
37	BF	140	VAL	2.7
5	AD	161	ASP	2.6
1	A1	1700	C	2.6
21	CT	125	GLY	2.6
29	D1	847	A	2.6
1	A1	665	U	2.6
14	CM	3	GLY	2.6
1	C1	1200	G	2.6
29	D1	1565	G	2.6
29	D1	1560	G	2.6
1	A1	369	A	2.6
1	A1	1677	C	2.6
42	DK	136	ALA	2.6
29	B1	718	G	2.6
61	Df	25	VAL	2.6
1	A1	1707	A	2.6
29	D1	492	U	2.6
31	B3	77	A	2.6
1	A1	681	U	2.6
9	AH	17	ALA	2.6
40	BI	143	GLU	2.6
54	BY	108	GLY	2.6
1	A1	1676	U	2.6
15	AN	119	ALA	2.6
1	A1	1060	U	2.5
29	D1	2569	A	2.5
29	D1	718	G	2.5
2	AA	201	LEU	2.5
1	C1	272	U	2.5
61	Df	53	GLN	2.5
29	B1	1579	C	2.5
29	B1	981	U	2.5
1	A1	1702	A	2.5
21	CT	112	SER	2.5
1	C1	1694	A	2.5
29	B1	2397	A	2.5
1	C1	275	C	2.5

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Mol	Chain	Res	Type	RSRZ
32	DA	48	ARG	2.5
34	BC	125	SER	2.5
48	DS	169	ALA	2.5
29	D1	2469	G	2.5
54	BY	24	LYS	2.5
32	BA	52	SER	2.5
29	D1	135	C	2.5
32	DA	64	SER	2.5
1	C1	1114	G	2.5
29	D1	1027	A	2.5
1	C1	1710	U	2.5
29	B1	682	U	2.5
1	C1	135	A	2.5
29	D1	2479	C	2.5
2	AA	28	ASN	2.5
55	BZ	105	ALA	2.5
29	D1	1643	A	2.5
32	DA	157	PHE	2.5
36	DE	40	HIS	2.5
37	BF	68	PRO	2.5
2	AA	48	ILE	2.4
1	A1	1704	U	2.4
21	AT	24	ALA	2.4
33	BB	74	GLU	2.4
19	AR	20	GLY	2.4
32	BA	83	ASP	2.4
10	AI	9	LYS	2.4
29	D1	2258	U	2.4
1	A1	1364	G	2.4
29	D1	2503	G	2.4
13	CL	96	LYS	2.4
37	DF	86	ALA	2.4
32	BA	146	GLY	2.4
1	C1	523	G	2.4
31	D3	146	U	2.4
1	C1	1703	C	2.4
29	D1	830	A	2.4
3	CB	50	ILE	2.4
1	C1	1150	G	2.4
32	DA	78	LYS	2.4
21	CT	214	ALA	2.4
29	D1	2267	C	2.4

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Mol	Chain	Res	Type	RSRZ
1	A1	667	U	2.4
33	BB	25	GLY	2.4
18	CQ	99	ALA	2.4
21	AT	79	TYR	2.4
29	B1	1580	A	2.4
11	CJ	142	TYR	2.3
1	A1	1692	G	2.3
29	B1	2461	A	2.3
5	CD	152	GLY	2.3
13	AL	73	MET	2.3
29	B1	2496	C	2.3
29	D1	610	G	2.3
1	C1	277	U	2.3
21	CT	50	ASP	2.3
21	CT	311	ARG	2.3
18	AQ	87	GLY	2.3
1	C1	1709	C	2.3
29	D1	2266	U	2.3
33	DB	43	GLY	2.3
14	CM	69	LYS	2.3
29	B1	2497	U	2.3
32	BA	22	GLU	2.3
39	BH	198	ALA	2.3
55	BZ	95	ALA	2.3
29	D1	805	G	2.3
32	BA	113	SER	2.3
31	D3	124	G	2.3
44	DO	64	VAL	2.3
32	DA	51	GLY	2.3
33	DB	153	GLY	2.3
1	C1	779	U	2.3
32	BA	10	ARG	2.3
39	BH	205	ALA	2.3
29	B1	2490	C	2.3
1	C1	1702	A	2.3
1	C1	1711	C	2.3
30	B2	39	C	2.3
44	DO	115	VAL	2.3
29	D1	1558	A	2.3
32	DA	159	LEU	2.3
3	CB	248	SER	2.3
32	DA	5	THR	2.3

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Mol	Chain	Res	Type	RSRZ
9	CH	15	GLY	2.3
54	BY	23	GLY	2.3
54	DY	52	TYR	2.3
61	Bf	11	TYR	2.3
12	AK	35	CYS	2.2
29	B1	2208	A	2.2
29	B1	262	U	2.2
29	B1	2459	A	2.2
1	C1	663	U	2.2
29	D1	3270	U	2.2
21	AT	45	TRP	2.2
1	A1	718	U	2.2
1	A1	1108	G	2.2
29	B1	1094	U	2.2
2	AA	27	ARG	2.2
1	A1	70	C	2.2
48	DS	189	ALA	2.2
2	AA	49	ASN	2.2
2	AA	202	TYR	2.2
9	CH	12	GLN	2.2
29	D1	1195	A	2.2
32	DA	112	ALA	2.2
9	CH	105	LEU	2.2
29	D1	1563	C	2.2
32	DA	74	VAL	2.2
52	DW	120	LYS	2.2
1	A1	175	G	2.2
1	C1	824	G	2.2
21	AT	55	GLY	2.2
29	B1	2487	U	2.2
1	C1	237	C	2.2
29	D1	2143	A	2.2
39	DH	182	GLY	2.2
33	DB	140	ASN	2.2
32	DA	191	VAL	2.2
33	DB	60	LYS	2.2
47	DR	140	LEU	2.2
29	D1	2462	A	2.2
1	C1	1632	C	2.2
15	AN	33	GLN	2.2
32	BA	11	GLU	2.2
61	Bf	30	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
48	DS	164	LEU	2.2
18	CQ	58	ARG	2.1
6	AE	100	LYS	2.1
21	AT	317	THR	2.1
33	BB	234	LYS	2.1
52	BW	53	HIS	2.1
55	DZ	21	GLY	2.1
1	A1	230	C	2.1
29	D1	2616	C	2.1
1	C1	1364	G	2.1
29	D1	2467	G	2.1
52	BW	122	ALA	2.1
48	DS	165	LYS	2.1
1	C1	1230	A	2.1
44	DO	81	TYR	2.1
48	DS	179	GLU	2.1
1	C1	744	U	2.1
61	Df	72	LEU	2.1
1	C1	67	A	2.1
21	AT	158	PRO	2.1
29	B1	252	U	2.1
17	AP	67	ALA	2.1
15	AN	62	VAL	2.1
55	BZ	67	VAL	2.1
1	A1	126	A	2.1
15	CN	20	ILE	2.1
1	A1	183	U	2.1
5	AD	152	GLY	2.1
29	B1	1765	U	2.1
4	AC	119	ALA	2.1
48	DS	181	ARG	2.1
16	AO	122	SER	2.1
29	B1	1559	A	2.1
29	D1	175	C	2.1
39	BH	234	GLY	2.1
1	C1	240	U	2.1
10	CI	54	ALA	2.1
13	AL	83	ALA	2.1
29	D1	2486	A	2.1
29	B1	3272	C	2.1
29	D1	1199	C	2.1
30	B2	9	C	2.1

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Mol	Chain	Res	Type	RSRZ
21	CT	316	MET	2.1
44	BO	134	LEU	2.1
1	A1	642	G	2.1
29	D1	2534	G	2.1
29	B1	2803	A	2.1
21	CT	129	LYS	2.1
7	CF	113	PRO	2.1
29	D1	1705	U	2.1
29	D1	1821	U	2.1
29	D1	2873	U	2.1
1	A1	709	C	2.1
29	D1	3216	G	2.1
29	B1	3347	A	2.0
29	B1	764	U	2.0
29	D1	240	U	2.0
36	DE	287	ALA	2.0
9	AH	10	ASN	2.0
21	CT	310	ILE	2.0
9	CH	110	LEU	2.0
47	DR	138	LEU	2.0
36	BE	9	SER	2.0
9	AH	39	ILE	2.0
1	C1	781	U	2.0
29	D1	2617	U	2.0
61	Df	34	SER	2.0
32	DA	147	LYS	2.0
32	DA	142	ASP	2.0
1	C1	490	C	2.0
29	D1	2818	U	2.0
39	DH	210	ALA	2.0
29	B1	2680	A	2.0
29	D1	2144	A	2.0
29	D1	2621	G	2.0
42	BK	159	THR	2.0
13	AL	86	LEU	2.0
1	A1	1130	G	2.0
29	D1	1842	A	2.0
32	DA	34	LEU	2.0
48	BS	181	ARG	2.0
1	C1	1	U	2.0
29	B1	1353	U	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
74	OHX	B1	3498	7/7	0.92	0.32	35.93	83,83,83,83	7
74	OHX	B1	3577	7/7	0.82	0.47	24.29	148,148,148,148	7
74	OHX	C1	1998	7/7	0.81	0.62	17.50	129,129,129,129	7
74	OHX	A1	2002	7/7	0.86	0.43	17.08	185,185,185,185	7
74	OHX	D1	3507	7/7	0.86	0.28	17.05	133,133,133,133	7
74	OHX	D1	3586	7/7	0.79	0.62	16.79	115,115,115,115	7
74	OHX	B1	3504	7/7	0.92	0.35	16.23	140,140,140,140	7
74	OHX	B3	210	7/7	0.93	0.40	15.05	64,64,64,64	7
74	OHX	D1	3563	7/7	0.87	0.34	14.75	99,99,99,99	7
74	OHX	B1	3542	7/7	0.96	0.38	14.65	64,64,64,64	7
74	OHX	B2	203	7/7	0.93	0.36	14.62	174,174,174,174	7
74	OHX	A1	1930	7/7	0.74	0.43	14.27	228,228,228,228	7
74	OHX	D1	3550	7/7	0.89	0.45	13.80	100,100,100,100	7
74	OHX	D1	3552	7/7	0.90	0.39	13.70	115,115,115,115	7
74	OHX	B1	3575	7/7	0.91	0.35	13.26	123,123,123,123	7
74	OHX	D3	208	7/7	0.79	0.28	12.81	135,135,135,135	7
74	OHX	B1	3594	7/7	0.92	0.33	12.61	100,100,100,100	7
74	OHX	D1	3545	7/7	0.93	0.42	12.60	77,77,77,77	7
74	OHX	B1	3571	7/7	0.74	0.48	11.84	176,176,176,176	7
74	OHX	B1	3589	7/7	0.91	0.50	11.44	85,85,85,85	7
74	OHX	D1	3618	7/7	0.80	0.34	10.22	62,62,62,62	7
74	OHX	A1	1993	7/7	0.86	0.33	10.16	108,108,108,108	7
74	OHX	B1	3562	7/7	0.85	0.59	10.02	130,130,130,130	7
74	OHX	B1	3551	7/7	0.96	0.43	10.00	84,84,84,84	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	A1	1988	7/7	0.93	0.36	9.98	25,25,25,25	7
74	OHX	B1	3608	7/7	0.93	0.58	9.98	75,75,75,75	7
74	OHX	B1	3528	7/7	0.95	0.36	9.63	158,158,158,158	7
74	OHX	D1	3593	7/7	0.70	0.52	9.52	99,99,99,99	7
74	OHX	B1	3582	7/7	0.94	0.27	9.20	83,83,83,83	7
74	OHX	D1	3546	7/7	0.90	0.32	9.19	105,105,105,105	7
74	OHX	D1	3525	7/7	0.72	0.27	9.11	106,106,106,106	7
74	OHX	B1	3549	7/7	0.93	0.29	9.09	86,86,86,86	7
74	OHX	B1	3501	7/7	0.96	0.31	9.02	99,99,99,99	7
74	OHX	A1	1925	7/7	0.88	0.37	8.93	165,165,165,165	7
74	OHX	D1	3544	7/7	0.96	0.43	8.90	127,127,127,127	7
74	OHX	D1	3535	7/7	0.80	0.32	8.83	142,142,142,142	7
74	OHX	B1	3615	7/7	0.91	0.34	8.82	49,49,49,49	7
74	OHX	A1	1952	7/7	0.92	0.32	8.79	110,110,110,110	7
74	OHX	D1	3437	7/7	0.99	0.24	8.41	103,103,103,103	7
74	OHX	D1	3568	7/7	0.92	0.35	8.26	92,92,92,92	7
74	OHX	D1	3603	7/7	0.95	0.43	8.06	114,114,114,114	7
74	OHX	D1	3475	7/7	0.91	0.34	8.03	142,142,142,142	7
74	OHX	B1	3604	7/7	0.92	0.30	7.98	53,53,53,53	7
74	OHX	D1	3564	7/7	0.80	0.38	7.85	85,85,85,85	7
74	OHX	D1	3579	7/7	0.93	0.30	7.51	44,44,44,44	7
74	OHX	B1	3599	7/7	0.83	0.28	7.41	87,87,87,87	7
74	OHX	B1	3469	7/7	0.93	0.33	7.40	169,169,169,169	7
74	OHX	D1	3597	7/7	0.89	0.64	7.27	222,222,222,222	7
74	OHX	B1	3611	7/7	0.92	0.33	7.27	68,68,68,68	7
74	OHX	D1	3517	7/7	0.95	0.29	7.25	126,126,126,126	7
74	OHX	B1	3572	7/7	0.90	0.35	7.17	56,56,56,56	7
74	OHX	A1	1959	7/7	0.94	0.27	6.91	110,110,110,110	7
74	OHX	B1	3544	7/7	0.88	0.30	6.85	130,130,130,130	7
74	OHX	B1	3580	7/7	0.85	0.37	6.50	84,84,84,84	7
74	OHX	D1	3558	7/7	0.88	0.29	6.45	127,127,127,127	7
74	OHX	B1	3506	7/7	0.92	0.29	6.36	53,53,53,53	7
74	OHX	D1	3617	7/7	0.91	0.26	6.28	50,50,50,50	7
74	OHX	D1	3581	7/7	0.94	0.26	6.28	60,60,60,60	7
74	OHX	C1	1995	7/7	0.92	0.32	6.20	51,51,51,51	7
74	OHX	A1	1966	7/7	0.89	0.42	6.09	120,120,120,120	7
74	OHX	B3	209	7/7	0.92	0.30	6.08	99,99,99,99	7
74	OHX	D1	3532	7/7	0.92	0.26	5.84	102,102,102,102	7
74	OHX	D1	3489	7/7	0.94	0.32	5.84	75,75,75,75	7
74	OHX	C1	1919	7/7	0.94	0.26	5.80	159,159,159,159	7
74	OHX	C1	1979	7/7	0.77	0.33	5.75	190,190,190,190	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	C1	1992	7/7	0.93	0.41	5.73	76,76,76,76	7
74	OHX	B1	3539	7/7	0.87	0.33	5.60	137,137,137,137	7
74	OHX	D1	3587	7/7	0.83	0.58	5.51	111,111,111,111	7
74	OHX	A1	1999	7/7	0.79	0.38	5.50	99,99,99,99	7
74	OHX	A1	1991	7/7	0.93	0.31	5.35	98,98,98,98	7
74	OHX	D1	3602	7/7	0.91	0.30	5.35	109,109,109,109	7
74	OHX	B1	3484	7/7	0.95	0.25	5.20	143,143,143,143	7
74	OHX	D1	3479	7/7	0.97	0.24	5.15	99,99,99,99	7
74	OHX	B1	3486	7/7	0.96	0.22	5.09	104,104,104,104	7
74	OHX	B1	3595	7/7	0.89	0.32	5.04	73,73,73,73	7
74	OHX	A1	1977	7/7	0.92	0.30	5.03	119,119,119,119	7
74	OHX	B1	3556	7/7	0.91	0.25	4.97	104,104,104,104	7
74	OHX	A1	1978	7/7	0.87	0.35	4.96	139,139,139,139	7
74	OHX	C1	1975	7/7	0.94	0.24	4.96	119,119,119,119	7
74	OHX	B1	3616	7/7	0.95	0.27	4.95	103,103,103,103	7
74	OHX	A1	1907	7/7	0.98	0.21	4.92	111,111,111,111	7
74	OHX	D1	3485	7/7	0.89	0.28	4.77	90,90,90,90	7
74	OHX	D1	3510	7/7	0.95	0.23	4.77	108,108,108,108	7
74	OHX	C1	1963	7/7	0.94	0.27	4.73	94,94,94,94	7
74	OHX	D1	3623	7/7	0.96	0.33	4.71	23,23,23,23	7
74	OHX	D1	3594	7/7	0.91	0.30	4.69	30,30,30,30	7
74	OHX	A1	1970	7/7	0.90	0.23	4.68	66,66,66,66	7
74	OHX	C1	1947	7/7	0.92	0.28	4.66	70,70,70,70	7
74	OHX	B1	3479	7/7	0.97	0.35	4.66	145,145,145,145	7
74	OHX	B1	3401	7/7	0.99	0.21	4.66	90,90,90,90	0
74	OHX	B1	3423	7/7	0.99	0.21	4.63	91,91,91,91	7
74	OHX	D1	3624	7/7	0.88	0.42	4.61	95,95,95,95	7
74	OHX	B1	3495	7/7	0.96	0.31	4.47	108,108,108,108	7
74	OHX	C1	1974	7/7	0.83	0.33	4.46	118,118,118,118	7
74	OHX	D1	3405	7/7	0.98	0.20	4.43	110,110,110,110	0
74	OHX	B1	3581	7/7	0.88	0.34	4.40	106,106,106,106	7
74	OHX	A1	1940	7/7	0.93	0.34	4.34	166,166,166,166	7
74	OHX	B1	3579	7/7	0.89	0.30	4.13	47,47,47,47	7
74	OHX	D1	3439	7/7	0.97	0.23	4.08	107,107,107,107	7
74	OHX	D1	3413	7/7	0.97	0.23	4.07	114,114,114,114	7
74	OHX	D1	3527	7/7	0.89	0.19	4.06	146,146,146,146	7
74	OHX	D1	3524	7/7	0.89	0.27	4.01	162,162,162,162	7
74	OHX	D1	3514	7/7	0.94	0.30	3.97	173,173,173,173	7
74	OHX	D3	211	7/7	0.70	0.41	3.93	137,137,137,137	7
74	OHX	A1	1969	7/7	0.91	0.26	3.92	87,87,87,87	7
74	OHX	D3	212	7/7	0.97	0.27	3.87	71,71,71,71	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	A1	1923	7/7	0.96	0.17	3.79	98,98,98,98	7
74	OHX	B1	3583	7/7	0.87	0.28	3.77	126,126,126,126	7
74	OHX	D1	3401	7/7	0.98	0.24	3.76	96,96,96,96	0
74	OHX	D1	3584	7/7	0.96	0.27	3.75	47,47,47,47	7
74	OHX	B1	3468	7/7	0.97	0.28	3.75	89,89,89,89	7
74	OHX	D1	3410	7/7	0.99	0.21	3.60	96,96,96,96	0
74	OHX	A1	1951	7/7	0.89	0.29	3.59	259,259,259,259	7
74	OHX	B1	3456	7/7	0.96	0.25	3.54	106,106,106,106	7
74	OHX	B1	3524	7/7	0.94	0.24	3.51	97,97,97,97	7
74	OHX	D1	3613	7/7	0.93	0.33	3.49	57,57,57,57	7
74	OHX	C1	1940	7/7	0.96	0.25	3.47	139,139,139,139	7
74	OHX	C1	1967	7/7	0.89	0.25	3.36	100,100,100,100	7
74	OHX	B1	3520	7/7	0.92	0.33	3.36	109,109,109,109	7
74	OHX	D1	3538	7/7	0.93	0.25	3.35	87,87,87,87	7
74	OHX	B1	3530	7/7	0.90	0.30	3.33	138,138,138,138	7
74	OHX	B1	3435	7/7	0.98	0.28	3.32	130,130,130,130	7
74	OHX	B1	3521	7/7	0.94	0.25	3.32	107,107,107,107	7
74	OHX	D1	3615	7/7	0.95	0.27	3.31	73,73,73,73	7
74	OHX	C1	1973	7/7	0.90	0.21	3.23	95,95,95,95	7
74	OHX	D2	202	7/7	0.93	0.25	3.15	106,106,106,106	7
74	OHX	D1	3490	7/7	0.86	0.35	3.14	167,167,167,167	7
74	OHX	A1	1967	7/7	0.97	0.29	3.12	96,96,96,96	7
74	OHX	B1	3525	7/7	0.93	0.25	2.99	54,54,54,54	7
74	OHX	C1	1972	7/7	0.67	0.30	2.98	216,216,216,216	7
74	OHX	B1	3560	7/7	0.85	0.33	2.97	105,105,105,105	7
74	OHX	A1	1904	7/7	0.98	0.17	2.94	137,137,137,137	7
74	OHX	B1	3403	7/7	0.98	0.25	2.94	126,126,126,126	0
74	OHX	C1	1929	7/7	0.98	0.19	2.93	90,90,90,90	7
74	OHX	B1	3566	7/7	0.92	0.26	2.88	107,107,107,107	7
74	OHX	D3	210	7/7	0.89	0.22	2.87	74,74,74,74	7
74	OHX	D1	3459	7/7	0.95	0.21	2.86	96,96,96,96	7
74	OHX	A1	1932	7/7	0.93	0.20	2.86	142,142,142,142	7
74	OHX	D1	3554	7/7	0.93	0.26	2.85	122,122,122,122	7
74	OHX	C1	1997	7/7	0.92	0.23	2.81	36,36,36,36	7
74	OHX	A1	1905	7/7	0.97	0.17	2.80	118,118,118,118	0
74	OHX	AT	401	7/7	0.94	0.36	2.78	207,207,207,207	7
74	OHX	D1	3620	7/7	0.91	0.26	2.76	78,78,78,78	7
74	OHX	B1	3512	7/7	0.96	0.22	2.74	113,113,113,113	7
74	OHX	C1	1903	7/7	0.98	0.17	2.74	115,115,115,115	0
74	OHX	C1	1958	7/7	0.82	0.23	2.73	153,153,153,153	7
74	OHX	B1	3568	7/7	0.84	0.22	2.66	94,94,94,94	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	A1	1934	7/7	0.95	0.25	2.64	122,122,122,122	7
74	OHX	B1	3441	7/7	0.98	0.20	2.62	129,129,129,129	7
74	OHX	A1	1972	7/7	0.96	0.17	2.59	87,87,87,87	7
74	OHX	B1	3461	7/7	0.96	0.19	2.57	101,101,101,101	7
74	OHX	B1	3563	7/7	0.92	0.19	2.54	152,152,152,152	7
74	OHX	C1	1993	7/7	0.85	0.28	2.44	93,93,93,93	7
74	OHX	D1	3589	7/7	0.81	0.32	2.44	56,56,56,56	7
74	OHX	D1	3435	7/7	0.97	0.17	2.39	92,92,92,92	7
74	OHX	B1	3536	7/7	0.96	0.28	2.38	324,324,324,324	7
74	OHX	D1	3409	7/7	0.98	0.17	2.36	114,114,114,114	0
74	OHX	D1	3522	7/7	0.78	0.27	2.33	133,133,133,133	7
74	OHX	D1	3476	7/7	0.91	0.28	2.28	100,100,100,100	7
74	OHX	B1	3476	7/7	0.94	0.20	2.26	102,102,102,102	7
74	OHX	A1	1965	7/7	0.90	0.25	2.25	114,114,114,114	7
74	OHX	D1	3402	7/7	0.98	0.23	2.25	100,100,100,100	0
74	OHX	C1	1986	7/7	0.94	0.20	2.23	169,169,169,169	7
74	OHX	B1	3402	7/7	0.98	0.18	2.22	99,99,99,99	0
74	OHX	B1	3537	7/7	0.96	0.20	2.20	56,56,56,56	7
74	OHX	B1	3453	7/7	0.97	0.24	2.18	127,127,127,127	7
74	OHX	D1	3516	7/7	0.92	0.33	2.15	138,138,138,138	7
74	OHX	D1	3508	7/7	0.90	0.22	2.08	88,88,88,88	7
74	OHX	D1	3551	7/7	0.76	0.30	2.07	120,120,120,120	7
74	OHX	C1	2000	7/7	0.91	0.37	2.06	82,82,82,82	7
74	OHX	A1	1938	7/7	0.92	0.20	2.06	155,155,155,155	7
74	OHX	D1	3496	7/7	0.95	0.27	2.04	155,155,155,155	7
74	OHX	B1	3534	7/7	0.88	0.27	2.03	128,128,128,128	7
74	OHX	A1	1914	7/7	0.96	0.21	2.02	145,145,145,145	7
74	OHX	A1	1958	7/7	0.86	0.19	2.00	116,116,116,116	7
74	OHX	D1	3436	7/7	0.99	0.19	2.00	125,125,125,125	7
74	OHX	B1	3526	7/7	0.88	0.25	1.99	174,174,174,174	7
74	OHX	D1	3585	7/7	0.87	0.24	1.98	102,102,102,102	7
74	OHX	D1	3433	7/7	0.93	0.23	1.96	128,128,128,128	7
74	OHX	C1	1920	7/7	0.98	0.19	1.92	103,103,103,103	7
74	OHX	D1	3483	7/7	0.93	0.22	1.92	98,98,98,98	7
74	OHX	D1	3612	7/7	0.96	0.23	1.90	36,36,36,36	7
74	OHX	B1	3618	7/7	0.96	0.24	1.89	109,109,109,109	7
74	OHX	C1	1999	7/7	0.91	0.26	1.88	41,41,41,41	7
74	OHX	B1	3443	7/7	0.97	0.21	1.85	134,134,134,134	7
74	OHX	D1	3417	7/7	0.98	0.23	1.79	91,91,91,91	7
74	OHX	D1	3560	7/7	0.96	0.23	1.78	82,82,82,82	7
74	OHX	B1	3448	7/7	0.95	0.19	1.77	124,124,124,124	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	B1	3591	7/7	0.90	0.29	1.76	55,55,55,55	7
74	OHX	B1	3590	7/7	0.96	0.21	1.76	69,69,69,69	7
74	OHX	C1	1985	7/7	0.88	0.30	1.76	153,153,153,153	7
74	OHX	B1	3607	7/7	0.91	0.31	1.73	44,44,44,44	7
74	OHX	A1	1926	7/7	0.95	0.23	1.72	87,87,87,87	7
74	OHX	D1	3608	7/7	0.97	0.22	1.72	14,14,14,14	7
74	OHX	D1	3596	7/7	0.86	0.21	1.72	114,114,114,114	7
74	OHX	D1	3494	7/7	0.95	0.25	1.71	105,105,105,105	7
74	OHX	A1	1919	7/7	0.95	0.24	1.69	141,141,141,141	7
74	OHX	B1	3547	7/7	0.94	0.28	1.69	117,117,117,117	7
74	OHX	D1	3418	7/7	0.98	0.22	1.56	103,103,103,103	0
74	OHX	D1	3450	7/7	0.98	0.21	1.54	112,112,112,112	7
74	OHX	D1	3460	7/7	0.89	0.21	1.53	138,138,138,138	7
74	OHX	B1	3509	7/7	0.94	0.23	1.53	124,124,124,124	7
74	OHX	B1	3610	7/7	0.90	0.27	1.53	68,68,68,68	7
74	OHX	D1	3621	7/7	0.92	0.24	1.52	67,67,67,67	7
74	OHX	B1	3405	7/7	0.99	0.18	1.51	101,101,101,101	0
74	OHX	B1	3559	7/7	0.92	0.23	1.50	68,68,68,68	7
74	OHX	D1	3466	7/7	0.90	0.21	1.47	103,103,103,103	7
74	OHX	B1	3490	7/7	0.90	0.24	1.44	109,109,109,109	7
74	OHX	B1	3472	7/7	0.96	0.25	1.42	132,132,132,132	7
74	OHX	C1	1923	7/7	0.96	0.23	1.40	123,123,123,123	7
74	OHX	A1	1979	7/7	0.96	0.18	1.40	81,81,81,81	7
74	OHX	B1	3527	7/7	0.94	0.21	1.39	84,84,84,84	7
74	OHX	D1	3598	7/7	0.92	0.28	1.39	65,65,65,65	7
74	OHX	D1	3480	7/7	0.93	0.19	1.38	127,127,127,127	7
74	OHX	A1	1953	7/7	0.83	0.39	1.34	122,122,122,122	7
74	OHX	C1	1906	7/7	0.99	0.17	1.32	101,101,101,101	7
74	OHX	A1	1986	7/7	0.96	0.18	1.30	98,98,98,98	7
74	OHX	B1	3419	7/7	0.98	0.17	1.29	109,109,109,109	7
74	OHX	D1	3569	7/7	0.88	0.28	1.28	88,88,88,88	7
74	OHX	D1	3539	7/7	0.92	0.24	1.27	69,69,69,69	7
74	OHX	C1	1910	7/7	0.95	0.20	1.27	138,138,138,138	7
74	OHX	C1	1949	7/7	0.94	0.18	1.25	97,97,97,97	7
74	OHX	D2	207	7/7	0.93	0.21	1.21	111,111,111,111	7
74	OHX	D1	3488	7/7	0.85	0.20	1.17	141,141,141,141	7
74	OHX	D3	207	7/7	0.94	0.22	1.16	123,123,123,123	7
74	OHX	B1	3586	7/7	0.91	0.34	1.15	116,116,116,116	7
74	OHX	B1	3433	7/7	0.97	0.18	1.13	98,98,98,98	7
74	OHX	B1	3619	7/7	0.94	0.22	1.11	85,85,85,85	7
74	OHX	D3	204	7/7	0.97	0.19	1.08	120,120,120,120	7
74	OHX	A1	1935	7/7	0.91	0.24	1.08	156,156,156,156	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	B1	3513	7/7	0.95	0.23	1.05	171,171,171,171	7
74	OHX	B1	3427	7/7	0.98	0.21	1.04	95,95,95,95	7
74	OHX	D1	3588	7/7	0.92	0.24	1.03	336,336,336,336	7
74	OHX	B1	3432	7/7	0.98	0.18	1.03	79,79,79,79	7
74	OHX	B1	3493	7/7	0.87	0.21	0.98	135,135,135,135	7
74	OHX	B3	203	7/7	0.95	0.20	0.92	140,140,140,140	7
74	OHX	DO	301	7/7	0.86	0.24	0.91	285,285,285,285	7
74	OHX	A1	1984	7/7	0.91	0.21	0.90	65,65,65,65	7
74	OHX	B1	3438	7/7	0.94	0.17	0.89	168,168,168,168	7
74	OHX	DC	401	7/7	0.96	0.23	0.88	93,93,93,93	7
74	OHX	B1	3612	7/7	0.92	0.28	0.84	45,45,45,45	7
74	OHX	B1	3477	7/7	0.98	0.19	0.82	101,101,101,101	7
74	OHX	C1	1926	7/7	0.95	0.21	0.81	96,96,96,96	7
74	OHX	C1	1902	7/7	0.99	0.22	0.81	108,108,108,108	0
74	OHX	B1	3585	7/7	0.94	0.29	0.81	197,197,197,197	7
74	OHX	B1	3518	7/7	0.90	0.21	0.79	105,105,105,105	7
74	OHX	A1	1996	7/7	0.91	0.24	0.78	100,100,100,100	7
74	OHX	D1	3509	7/7	0.85	0.33	0.76	120,120,120,120	7
74	OHX	C1	1928	7/7	0.97	0.17	0.74	165,165,165,165	7
74	OHX	D1	3447	7/7	0.97	0.19	0.72	142,142,142,142	7
74	OHX	D1	3486	7/7	0.96	0.24	0.70	143,143,143,143	7
74	OHX	D1	3445	7/7	0.98	0.20	0.67	101,101,101,101	7
74	OHX	B1	3406	7/7	0.98	0.22	0.66	106,106,106,106	0
74	OHX	A1	1911	7/7	0.97	0.20	0.65	112,112,112,112	7
74	OHX	A1	1909	7/7	0.97	0.16	0.64	115,115,115,115	7
74	OHX	B1	3409	7/7	0.98	0.18	0.64	122,122,122,122	0
74	OHX	C1	1913	7/7	0.96	0.21	0.63	149,149,149,149	7
74	OHX	A1	2001	7/7	0.95	0.24	0.63	26,26,26,26	7
74	OHX	B1	3452	7/7	0.98	0.19	0.60	134,134,134,134	7
74	OHX	A1	1917	7/7	0.96	0.14	0.56	130,130,130,130	7
74	OHX	C1	1954	7/7	0.87	0.25	0.52	116,116,116,116	7
74	OHX	D1	3440	7/7	0.98	0.18	0.52	137,137,137,137	7
74	OHX	B1	3470	7/7	0.94	0.19	0.48	122,122,122,122	7
74	OHX	D1	3556	7/7	0.79	0.23	0.47	146,146,146,146	7
74	OHX	C1	1977	7/7	0.92	0.25	0.47	102,102,102,102	7
74	OHX	C1	1904	7/7	0.98	0.16	0.47	113,113,113,113	0
74	OHX	B2	206	7/7	0.86	0.21	0.46	128,128,128,128	7
74	OHX	A1	1943	7/7	0.90	0.19	0.45	176,176,176,176	7
74	OHX	D2	205	7/7	0.94	0.22	0.42	84,84,84,84	7
74	OHX	D1	3520	7/7	0.96	0.18	0.42	109,109,109,109	7
74	OHX	D1	3458	7/7	0.96	0.17	0.40	103,103,103,103	7
74	OHX	A1	1973	7/7	0.94	0.28	0.40	101,101,101,101	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	D1	3469	7/7	0.92	0.23	0.40	152,152,152,152	7
74	OHX	D1	3456	7/7	0.98	0.20	0.39	131,131,131,131	7
74	OHX	B1	3482	7/7	0.97	0.18	0.39	111,111,111,111	7
74	OHX	A1	1949	7/7	0.94	0.20	0.38	101,101,101,101	7
74	OHX	C1	1916	7/7	0.96	0.23	0.38	169,169,169,169	7
74	OHX	A1	1918	7/7	0.97	0.18	0.36	94,94,94,94	7
74	OHX	B1	3440	7/7	0.98	0.19	0.35	105,105,105,105	7
74	OHX	B1	3410	7/7	0.97	0.18	0.34	111,111,111,111	0
74	OHX	C1	1932	7/7	0.95	0.18	0.32	115,115,115,115	7
74	OHX	C1	1933	7/7	0.94	0.21	0.32	111,111,111,111	7
74	OHX	D2	206	7/7	0.97	0.16	0.30	85,85,85,85	7
74	OHX	D1	3583	7/7	0.85	0.28	0.29	88,88,88,88	7
74	OHX	A1	1957	7/7	0.96	0.18	0.27	129,129,129,129	7
74	OHX	D1	3499	7/7	0.90	0.24	0.26	114,114,114,114	7
74	OHX	A1	1944	7/7	0.94	0.21	0.25	108,108,108,108	7
74	OHX	B1	3455	7/7	0.96	0.20	0.25	134,134,134,134	7
74	OHX	B1	3507	7/7	0.92	0.25	0.24	104,104,104,104	7
74	OHX	A1	1980	7/7	0.94	0.19	0.23	136,136,136,136	7
74	OHX	D1	3411	7/7	0.98	0.15	0.22	117,117,117,117	0
74	OHX	A1	1936	7/7	0.95	0.20	0.19	129,129,129,129	7
74	OHX	D1	3506	7/7	0.89	0.32	0.18	131,131,131,131	7
74	OHX	D1	3503	7/7	0.89	0.25	0.18	120,120,120,120	7
74	OHX	B2	205	7/7	0.90	0.18	0.16	159,159,159,159	7
74	OHX	Bg	101	7/7	0.98	0.17	0.14	79,79,79,79	7
74	OHX	B1	3503	7/7	0.94	0.17	0.14	86,86,86,86	7
74	OHX	DT	201	7/7	0.99	0.18	0.13	100,100,100,100	0
74	OHX	C1	1942	7/7	0.93	0.20	0.13	112,112,112,112	7
74	OHX	D1	3412	7/7	0.99	0.18	0.12	126,126,126,126	0
74	OHX	B1	3420	7/7	0.99	0.19	0.12	93,93,93,93	7
74	OHX	D1	3419	7/7	0.98	0.17	0.11	92,92,92,92	0
74	OHX	D1	3543	7/7	0.97	0.19	0.11	45,45,45,45	7
74	OHX	D1	3404	7/7	0.99	0.21	0.10	99,99,99,99	0
74	OHX	A1	1950	7/7	0.93	0.17	0.10	127,127,127,127	7
74	OHX	D3	203	7/7	0.97	0.17	0.10	86,86,86,86	7
74	OHX	D1	3484	7/7	0.89	0.22	0.08	116,116,116,116	7
74	OHX	C1	1994	7/7	0.92	0.29	0.08	47,47,47,47	7
74	OHX	D1	3537	7/7	0.95	0.23	0.08	74,74,74,74	7
74	OHX	B3	211	7/7	0.98	0.16	0.07	67,67,67,67	7
74	OHX	C1	1918	7/7	0.99	0.14	0.06	123,123,123,123	7
74	OHX	B1	3437	7/7	0.95	0.24	0.05	156,156,156,156	7
74	OHX	D1	3562	7/7	0.93	0.18	0.05	121,121,121,121	7
74	OHX	A1	1912	7/7	0.97	0.16	0.05	125,125,125,125	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	C1	1922	7/7	0.97	0.18	0.04	142,142,142,142	7
74	OHX	B1	3436	7/7	0.97	0.17	0.04	104,104,104,104	7
74	OHX	D1	3530	7/7	0.95	0.18	0.03	51,51,51,51	7
74	OHX	D1	3426	7/7	0.99	0.17	0.03	112,112,112,112	7
74	OHX	C1	1964	7/7	0.99	0.14	0.03	88,88,88,88	7
74	OHX	B1	3499	7/7	0.97	0.16	0.01	123,123,123,123	7
74	OHX	D1	3574	7/7	0.96	0.19	-0.00	114,114,114,114	7
74	OHX	CT	401	7/7	0.92	0.23	-0.01	117,117,117,117	7
74	OHX	A1	1994	7/7	0.92	0.24	-0.02	123,123,123,123	7
74	OHX	C1	1952	7/7	0.84	0.21	-0.03	239,239,239,239	7
74	OHX	D1	3432	7/7	0.98	0.18	-0.04	100,100,100,100	7
74	OHX	C1	1901	7/7	0.99	0.16	-0.05	100,100,100,100	0
74	OHX	D1	3518	7/7	0.96	0.21	-0.05	108,108,108,108	7
74	OHX	B1	3418	7/7	0.98	0.16	-0.06	106,106,106,106	0
74	OHX	B1	3480	7/7	0.97	0.18	-0.06	85,85,85,85	7
74	OHX	B1	3442	7/7	0.99	0.17	-0.07	89,89,89,89	7
74	OHX	B1	3426	7/7	0.97	0.17	-0.07	111,111,111,111	7
74	OHX	C1	1983	7/7	0.95	0.18	-0.09	59,59,59,59	7
74	OHX	C1	1955	7/7	0.95	0.20	-0.10	106,106,106,106	7
74	OHX	B1	3416	7/7	0.99	0.18	-0.10	113,113,113,113	0
74	OHX	B1	3421	7/7	0.99	0.17	-0.12	141,141,141,141	0
74	OHX	D1	3442	7/7	0.98	0.16	-0.13	126,126,126,126	7
74	OHX	D1	3444	7/7	0.99	0.18	-0.15	72,72,72,72	7
74	OHX	D1	3492	7/7	0.98	0.16	-0.19	112,112,112,112	7
74	OHX	D1	3561	7/7	0.95	0.20	-0.20	65,65,65,65	7
74	OHX	A1	1937	7/7	0.95	0.15	-0.22	158,158,158,158	7
74	OHX	B1	3447	7/7	0.99	0.16	-0.22	126,126,126,126	7
74	OHX	C1	1931	7/7	0.95	0.19	-0.22	130,130,130,130	7
74	OHX	D1	3540	7/7	0.96	0.20	-0.24	85,85,85,85	7
74	OHX	B1	3496	7/7	0.97	0.14	-0.27	122,122,122,122	7
74	OHX	A1	1924	7/7	0.93	0.21	-0.28	150,150,150,150	7
74	OHX	B1	3473	7/7	0.96	0.17	-0.31	91,91,91,91	7
74	OHX	B1	3540	7/7	0.99	0.18	-0.32	58,58,58,58	7
74	OHX	B1	3553	7/7	0.95	0.18	-0.33	66,66,66,66	7
74	OHX	A1	1910	7/7	0.96	0.15	-0.34	146,146,146,146	7
74	OHX	D1	3604	7/7	0.94	0.14	-0.35	44,44,44,44	7
74	OHX	D1	3425	7/7	0.97	0.16	-0.35	126,126,126,126	7
74	OHX	C1	1948	7/7	0.94	0.20	-0.39	117,117,117,117	7
74	OHX	C1	1941	7/7	0.96	0.18	-0.39	109,109,109,109	7
74	OHX	B3	208	7/7	0.94	0.19	-0.39	79,79,79,79	7
74	OHX	B3	204	7/7	0.99	0.15	-0.39	84,84,84,84	7
74	OHX	DE	301	7/7	0.79	0.24	-0.40	302,302,302,302	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	C1	1912	7/7	0.97	0.14	-0.41	117,117,117,117	7
74	OHX	D1	3446	7/7	0.98	0.15	-0.42	83,83,83,83	7
74	OHX	D1	3526	7/7	0.92	0.18	-0.42	158,158,158,158	7
74	OHX	B1	3487	7/7	0.90	0.23	-0.42	116,116,116,116	7
74	OHX	CS	101	7/7	0.97	0.18	-0.43	46,46,46,46	7
74	OHX	D1	3448	7/7	0.97	0.21	-0.45	107,107,107,107	7
74	OHX	Bd	101	7/7	0.99	0.19	-0.46	32,32,32,32	7
74	OHX	D1	3502	7/7	0.97	0.14	-0.47	79,79,79,79	7
74	OHX	B1	3500	7/7	0.96	0.15	-0.47	116,116,116,116	7
74	OHX	D1	3455	7/7	0.99	0.13	-0.48	110,110,110,110	7
74	OHX	B1	3451	7/7	0.97	0.17	-0.48	86,86,86,86	7
74	OHX	A1	1902	7/7	0.99	0.14	-0.49	112,112,112,112	0
74	OHX	A1	1901	7/7	0.99	0.15	-0.50	100,100,100,100	0
74	OHX	B1	3505	7/7	0.93	0.17	-0.51	134,134,134,134	7
74	OHX	D1	3407	7/7	0.99	0.13	-0.53	113,113,113,113	0
74	OHX	D1	3478	7/7	0.96	0.17	-0.55	117,117,117,117	7
74	OHX	C1	1917	7/7	0.99	0.15	-0.60	130,130,130,130	7
74	OHX	B1	3459	7/7	0.95	0.16	-0.61	160,160,160,160	7
74	OHX	A1	1975	7/7	0.97	0.17	-0.63	67,67,67,67	7
74	OHX	B1	3587	7/7	0.95	0.14	-0.63	154,154,154,154	7
74	OHX	B1	3478	7/7	0.97	0.13	-0.64	110,110,110,110	7
74	OHX	C1	1930	7/7	0.95	0.17	-0.65	112,112,112,112	7
74	OHX	D1	3495	7/7	0.89	0.17	-0.65	160,160,160,160	7
74	OHX	D1	3434	7/7	0.99	0.13	-0.65	77,77,77,77	7
74	OHX	B1	3529	7/7	0.87	0.14	-0.66	171,171,171,171	7
74	OHX	C1	1907	7/7	0.99	0.14	-0.66	123,123,123,123	7
74	OHX	C1	1935	7/7	0.94	0.17	-0.68	93,93,93,93	7
74	OHX	BT	201	7/7	0.99	0.15	-0.68	91,91,91,91	7
74	OHX	A1	1945	7/7	0.96	0.18	-0.72	108,108,108,108	7
74	OHX	B1	3460	7/7	0.98	0.16	-0.74	137,137,137,137	7
74	OHX	Dd	101	7/7	0.99	0.15	-0.74	32,32,32,32	7
74	OHX	A1	1931	7/7	0.98	0.14	-0.76	96,96,96,96	7
74	OHX	D1	3571	7/7	0.97	0.17	-0.77	77,77,77,77	7
74	OHX	D1	3465	7/7	0.97	0.16	-0.78	101,101,101,101	7
74	OHX	D1	3443	7/7	0.97	0.16	-0.81	96,96,96,96	7
74	OHX	C1	1908	7/7	0.98	0.15	-0.82	104,104,104,104	7
74	OHX	D1	3473	7/7	0.91	0.16	-0.82	123,123,123,123	7
74	OHX	B1	3492	7/7	0.97	0.14	-0.83	70,70,70,70	7
74	OHX	AS	101	7/7	0.99	0.14	-0.84	29,29,29,29	7
74	OHX	B1	3411	7/7	0.98	0.15	-0.85	105,105,105,105	0
74	OHX	B1	3412	7/7	0.99	0.14	-0.86	121,121,121,121	0
74	OHX	B1	3445	7/7	0.99	0.12	-0.87	113,113,113,113	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	D1	3427	7/7	0.98	0.15	-0.89	90,90,90,90	7
74	OHX	B1	3494	7/7	0.96	0.18	-0.89	118,118,118,118	7
74	OHX	A1	1906	7/7	0.97	0.14	-0.91	97,97,97,97	7
74	OHX	A1	1913	7/7	0.98	0.11	-0.93	135,135,135,135	7
74	OHX	C1	1905	7/7	0.97	0.13	-0.96	114,114,114,114	7
74	OHX	C1	1937	7/7	0.96	0.17	-0.97	124,124,124,124	7
74	OHX	AL	201	7/7	0.95	0.19	-1.00	122,122,122,122	7
74	OHX	B1	3404	7/7	0.98	0.15	-1.01	114,114,114,114	0
74	OHX	Dg	101	7/7	0.96	0.16	-1.01	69,69,69,69	7
74	OHX	B1	3413	7/7	0.99	0.12	-1.03	106,106,106,106	7
74	OHX	D1	3428	7/7	0.99	0.15	-1.04	80,80,80,80	7
74	OHX	B1	3407	7/7	0.98	0.14	-1.05	105,105,105,105	0
74	OHX	D1	3504	7/7	0.95	0.16	-1.05	101,101,101,101	7
74	OHX	A1	1903	7/7	0.99	0.11	-1.13	122,122,122,122	7
74	OHX	BC	401	7/7	0.94	0.21	-1.15	66,66,66,66	7
74	OHX	D2	201	7/7	0.99	0.13	-1.18	94,94,94,94	7
74	OHX	D3	201	7/7	0.99	0.14	-1.19	93,93,93,93	0
74	OHX	B1	3567	7/7	0.94	0.10	-1.20	126,126,126,126	7
74	OHX	B1	3450	7/7	0.99	0.12	-1.24	91,91,91,91	7
74	OHX	B1	3424	7/7	0.99	0.14	-1.24	105,105,105,105	7
74	OHX	D1	3582	7/7	0.98	0.13	-1.28	71,71,71,71	7
74	OHX	B1	3415	7/7	0.99	0.14	-1.28	93,93,93,93	7
74	OHX	C1	1953	7/7	0.98	0.12	-1.29	56,56,56,56	7
74	OHX	D1	3424	7/7	0.98	0.13	-1.31	125,125,125,125	7
74	OHX	D1	3420	7/7	0.99	0.11	-1.42	112,112,112,112	0
74	OHX	C1	1914	7/7	0.98	0.12	-1.44	128,128,128,128	7
74	OHX	C1	1944	7/7	0.95	0.12	-1.45	134,134,134,134	7
74	OHX	B1	3417	7/7	0.98	0.12	-1.46	102,102,102,102	0
74	OHX	B2	201	7/7	0.98	0.10	-1.49	141,141,141,141	7
74	OHX	D1	3438	7/7	0.99	0.12	-1.52	98,98,98,98	7
74	OHX	B1	3471	7/7	0.98	0.11	-1.57	130,130,130,130	7
74	OHX	D3	202	7/7	0.99	0.13	-1.59	116,116,116,116	0
74	OHX	D1	3408	7/7	0.98	0.12	-1.67	143,143,143,143	0
74	OHX	D1	3414	7/7	0.99	0.11	-1.72	114,114,114,114	0
74	OHX	D1	3477	7/7	0.91	0.15	-1.72	142,142,142,142	7
74	OHX	D1	3406	7/7	0.97	0.13	-1.86	107,107,107,107	0
74	OHX	D1	3452	7/7	0.98	0.09	-1.87	94,94,94,94	7
74	OHX	D1	3421	7/7	0.98	0.15	-1.90	98,98,98,98	7
74	OHX	C1	1970	7/7	0.73	0.29	-2.20	176,176,176,176	7
74	OHX	A1	1961	7/7	0.97	0.10	-2.44	105,105,105,105	7
74	OHX	D1	3423	7/7	0.99	0.12	-2.65	88,88,88,88	7
74	OHX	B1	3430	7/7	0.97	0.14	-2.75	99,99,99,99	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	B1	3422	7/7	0.99	0.12	-3.57	93,93,93,93	7
74	OHX	B2	207	7/7	0.90	0.49	-	104,104,104,104	7
74	OHX	D1	3519	7/7	0.92	0.37	-	111,111,111,111	7
74	OHX	B1	3569	7/7	0.95	0.18	-	95,95,95,95	7
74	OHX	B3	205	7/7	0.96	0.14	-	123,123,123,123	7
74	OHX	B1	3558	7/7	0.94	0.21	-	130,130,130,130	7
74	OHX	D1	3497	7/7	0.96	0.36	-	99,99,99,99	7
74	OHX	B1	3408	7/7	0.99	0.20	-	98,98,98,98	0
74	OHX	Ac	100	7/7	0.98	0.29	-	131,131,131,131	7
74	OHX	D1	3616	7/7	0.87	0.46	-	150,150,150,150	7
74	OHX	D1	3487	7/7	0.97	0.24	-	103,103,103,103	7
74	OHX	B1	3605	7/7	0.96	0.26	-	52,52,52,52	7
74	OHX	D2	203	7/7	0.94	0.25	-	94,94,94,94	7
74	OHX	A1	1982	7/7	0.93	0.18	-	148,148,148,148	7
74	OHX	A1	1998	7/7	0.83	0.32	-	125,125,125,125	7
74	OHX	B1	3428	7/7	0.98	0.15	-	109,109,109,109	7
74	OHX	B1	3603	7/7	0.87	0.29	-	63,63,63,63	7
74	OHX	B1	3429	7/7	0.97	0.17	-	93,93,93,93	7
74	OHX	A1	1948	7/7	0.94	0.26	-	106,106,106,106	7
74	OHX	A1	1956	7/7	0.97	0.12	-	159,159,159,159	7
74	OHX	B1	3511	7/7	0.86	0.39	-	160,160,160,160	7
74	OHX	D1	3457	7/7	0.91	0.32	-	130,130,130,130	7
74	OHX	D1	3403	7/7	0.99	0.21	-	96,96,96,96	0
74	OHX	BO	301	7/7	0.87	0.38	-	110,110,110,110	7
74	OHX	C1	1988	7/7	0.80	0.27	-	146,146,146,146	7
74	OHX	D1	3416	7/7	0.97	0.15	-	108,108,108,108	7
74	OHX	A1	1915	7/7	0.95	0.18	-	129,129,129,129	7
74	OHX	B1	3546	7/7	0.91	0.41	-	148,148,148,148	7
74	OHX	C1	1982	7/7	0.93	0.27	-	106,106,106,106	7
74	OHX	D1	3453	7/7	0.97	0.24	-	124,124,124,124	7
74	OHX	B2	210	7/7	0.84	0.43	-	131,131,131,131	7
74	OHX	B1	3449	7/7	0.97	0.18	-	105,105,105,105	7
74	OHX	C1	1969	7/7	0.88	0.30	-	133,133,133,133	7
74	OHX	D1	3501	7/7	0.94	0.17	-	102,102,102,102	7
74	OHX	D1	3422	7/7	0.98	0.17	-	114,114,114,114	7
74	OHX	A1	1985	7/7	0.89	0.33	-	86,86,86,86	7
74	OHX	D1	3614	7/7	0.95	0.48	-	83,83,83,83	7
74	OHX	A1	1922	7/7	0.94	0.23	-	133,133,133,133	7
74	OHX	DO	302	7/7	0.94	0.24	-	77,77,77,77	7
74	OHX	B1	3464	7/7	0.99	0.17	-	89,89,89,89	7
74	OHX	B1	3497	7/7	0.94	0.24	-	103,103,103,103	7
74	OHX	DJ	301	7/7	0.88	0.29	-	138,138,138,138	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	C1	1927	7/7	0.96	0.14	-	149,149,149,149	7
74	OHX	D1	3534	7/7	0.93	0.41	-	142,142,142,142	7
74	OHX	D1	3595	7/7	0.90	0.35	-	90,90,90,90	7
74	OHX	A1	1955	7/7	0.89	0.34	-	110,110,110,110	7
74	OHX	D1	3474	7/7	0.97	0.29	-	118,118,118,118	7
74	OHX	A1	1989	7/7	0.91	0.25	-	70,70,70,70	7
74	OHX	B1	3588	7/7	0.92	0.31	-	78,78,78,78	7
74	OHX	A1	1983	7/7	0.75	0.58	-	122,122,122,122	7
74	OHX	B1	3439	7/7	0.96	0.24	-	90,90,90,90	7
74	OHX	B1	3515	7/7	0.90	0.39	-	119,119,119,119	7
74	OHX	D1	3464	7/7	0.96	0.18	-	92,92,92,92	7
74	OHX	D1	3515	7/7	0.87	0.24	-	173,173,173,173	7
74	OHX	B1	3463	7/7	0.96	0.16	-	137,137,137,137	7
74	OHX	A1	1976	7/7	0.97	0.18	-	51,51,51,51	7
74	OHX	B1	3554	7/7	0.83	0.69	-	156,156,156,156	7
74	OHX	C1	1965	7/7	0.90	0.42	-	101,101,101,101	7
74	OHX	B3	206	7/7	0.80	0.37	-	201,201,201,201	7
74	OHX	D1	3548	7/7	0.89	0.25	-	77,77,77,77	7
74	OHX	B1	3531	7/7	0.95	0.30	-	65,65,65,65	7
74	OHX	D1	3573	7/7	0.77	0.42	-	135,135,135,135	7
74	OHX	C1	1950	7/7	0.72	0.28	-	215,215,215,215	7
74	OHX	D1	3429	7/7	0.98	0.21	-	82,82,82,82	7
74	OHX	D3	206	7/7	0.74	0.36	-	77,77,77,77	7
74	OHX	D1	3590	7/7	0.85	0.39	-	55,55,55,55	7
74	OHX	C1	1959	7/7	0.87	0.29	-	166,166,166,166	7
74	OHX	D1	3449	7/7	0.99	0.27	-	124,124,124,124	7
74	OHX	B3	212	7/7	0.93	0.21	-	98,98,98,98	7
74	OHX	B1	3444	7/7	0.97	0.15	-	111,111,111,111	7
74	OHX	D1	3523	7/7	0.95	0.19	-	106,106,106,106	7
74	OHX	D1	3610	7/7	0.92	0.46	-	94,94,94,94	7
74	OHX	B1	3517	7/7	0.93	0.30	-	111,111,111,111	7
74	OHX	A1	1962	7/7	0.84	0.49	-	193,193,193,193	7
74	OHX	B1	3535	7/7	0.81	0.28	-	170,170,170,170	7
74	OHX	D1	3609	7/7	0.83	0.45	-	73,73,73,73	7
74	OHX	A1	1947	7/7	0.90	0.30	-	143,143,143,143	7
74	OHX	B1	3502	7/7	0.91	0.28	-	166,166,166,166	7
74	OHX	A1	1927	7/7	0.94	0.22	-	139,139,139,139	7
74	OHX	D1	3513	7/7	0.92	0.26	-	160,160,160,160	7
74	OHX	B1	3578	7/7	0.94	0.24	-	112,112,112,112	7
74	OHX	B1	3621	7/7	0.85	0.36	-	83,83,83,83	7
74	OHX	D1	3547	7/7	0.93	0.18	-	64,64,64,64	7
74	OHX	B1	3467	7/7	0.97	0.15	-	119,119,119,119	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	B1	3519	7/7	0.97	0.28	-	115,115,115,115	7
74	OHX	A1	1946	7/7	0.89	0.19	-	153,153,153,153	7
74	OHX	D1	3605	7/7	0.78	0.46	-	93,93,93,93	7
74	OHX	B1	3475	7/7	0.97	0.20	-	84,84,84,84	7
74	OHX	B2	209	7/7	0.67	0.33	-	148,148,148,148	7
74	OHX	CS	102	7/7	0.82	0.35	-	184,184,184,184	7
74	OHX	D1	3553	7/7	0.87	0.25	-	145,145,145,145	7
74	OHX	C1	1909	7/7	0.98	0.14	-	130,130,130,130	7
74	OHX	C1	1960	7/7	0.96	0.13	-	111,111,111,111	7
74	OHX	B1	3555	7/7	0.84	0.30	-	103,103,103,103	7
74	OHX	C1	1956	7/7	0.91	0.30	-	170,170,170,170	7
74	OHX	D3	205	7/7	0.74	0.25	-	199,199,199,199	7
74	OHX	B1	3617	7/7	0.92	0.38	-	90,90,90,90	7
74	OHX	B1	3485	7/7	0.97	0.23	-	110,110,110,110	7
74	OHX	D1	3471	7/7	0.92	0.28	-	260,260,260,260	7
74	OHX	B1	3606	7/7	0.93	0.37	-	74,74,74,74	7
74	OHX	B1	3545	7/7	0.89	0.34	-	82,82,82,82	7
74	OHX	D1	3591	7/7	0.94	0.22	-	43,43,43,43	7
74	OHX	D1	3482	7/7	0.93	0.21	-	107,107,107,107	7
74	OHX	B1	3481	7/7	0.95	0.23	-	133,133,133,133	7
74	OHX	A1	1964	7/7	0.88	0.74	-	85,85,85,85	7
74	OHX	B1	3508	7/7	0.97	0.24	-	113,113,113,113	7
74	OHX	D1	3536	7/7	0.91	0.24	-	140,140,140,140	7
74	OHX	D1	3467	7/7	0.93	0.27	-	129,129,129,129	7
74	OHX	A1	1995	7/7	0.92	0.35	-	80,80,80,80	7
74	OHX	B1	3609	7/7	0.93	0.35	-	80,80,80,80	7
74	OHX	B1	3532	7/7	0.93	0.43	-	172,172,172,172	7
74	OHX	D1	3576	7/7	0.95	0.20	-	76,76,76,76	7
74	OHX	B2	202	7/7	0.95	0.18	-	106,106,106,106	7
74	OHX	B1	3457	7/7	0.95	0.23	-	147,147,147,147	7
74	OHX	C1	1991	7/7	0.89	0.28	-	77,77,77,77	7
74	OHX	B1	3600	7/7	0.85	0.34	-	135,135,135,135	7
74	OHX	B1	3491	7/7	0.94	0.31	-	99,99,99,99	7
74	OHX	C1	1936	7/7	0.96	0.33	-	126,126,126,126	7
74	OHX	D1	3572	7/7	0.88	0.34	-	91,91,91,91	7
74	OHX	B1	3550	7/7	0.93	0.19	-	137,137,137,137	7
74	OHX	A1	1941	7/7	0.94	0.19	-	124,124,124,124	7
74	OHX	B1	3489	7/7	0.97	0.11	-	129,129,129,129	7
74	OHX	B1	3543	7/7	0.94	0.15	-	102,102,102,102	7
74	OHX	C1	1961	7/7	0.96	0.18	-	101,101,101,101	7
74	OHX	A1	1920	7/7	0.96	0.15	-	126,126,126,126	7
74	OHX	A1	1929	7/7	0.96	0.14	-	114,114,114,114	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	C1	1989	7/7	0.92	0.53	-	114,114,114,114	7
74	OHX	D1	3555	7/7	0.88	0.31	-	150,150,150,150	7
74	OHX	D1	3472	7/7	0.95	0.21	-	185,185,185,185	7
74	OHX	C1	1943	7/7	0.96	0.15	-	141,141,141,141	7
74	OHX	D1	3451	7/7	0.97	0.22	-	112,112,112,112	7
74	OHX	D1	3599	7/7	0.85	0.36	-	93,93,93,93	7
74	OHX	B1	3576	7/7	0.93	0.21	-	86,86,86,86	7
74	OHX	C1	1981	7/7	0.92	0.38	-	87,87,87,87	7
74	OHX	C1	1945	7/7	0.88	0.23	-	122,122,122,122	7
74	OHX	B1	3458	7/7	0.98	0.29	-	114,114,114,114	7
74	OHX	C1	1966	7/7	0.87	0.42	-	127,127,127,127	7
74	OHX	D1	3533	7/7	0.95	0.27	-	92,92,92,92	7
74	OHX	A1	2000	7/7	0.84	0.44	-	75,75,75,75	7
74	OHX	C1	1915	7/7	0.97	0.21	-	120,120,120,120	7
74	OHX	D1	3557	7/7	0.89	0.25	-	148,148,148,148	7
74	OHX	B1	3620	7/7	0.91	0.30	-	58,58,58,58	7
74	OHX	A1	1968	7/7	0.91	0.29	-	180,180,180,180	7
74	OHX	A1	1990	7/7	0.86	0.28	-	117,117,117,117	7
74	OHX	D1	3461	7/7	0.96	0.18	-	128,128,128,128	7
74	OHX	C1	1911	7/7	0.99	0.13	-	96,96,96,96	7
74	OHX	D1	3470	7/7	0.97	0.14	-	84,84,84,84	7
74	OHX	B1	3601	7/7	0.85	0.35	-	158,158,158,158	7
74	OHX	A1	1974	7/7	0.81	0.40	-	136,136,136,136	7
74	OHX	D1	3430	7/7	0.98	0.14	-	101,101,101,101	7
74	OHX	B1	3516	7/7	0.96	0.21	-	136,136,136,136	7
74	OHX	B1	3613	7/7	0.91	0.46	-	93,93,93,93	7
74	OHX	C1	1971	7/7	0.92	0.29	-	131,131,131,131	7
74	OHX	A1	1916	7/7	0.97	0.14	-	91,91,91,91	7
74	OHX	Dd	102	7/7	0.91	0.23	-	118,118,118,118	7
74	OHX	B1	3523	7/7	0.89	0.30	-	150,150,150,150	7
74	OHX	C1	1957	7/7	0.77	0.37	-	226,226,226,226	7
74	OHX	B1	3434	7/7	0.99	0.16	-	102,102,102,102	7
74	OHX	C1	1990	7/7	0.85	0.27	-	105,105,105,105	7
74	OHX	B1	3574	7/7	0.94	0.44	-	136,136,136,136	7
74	OHX	A1	1981	7/7	0.92	0.26	-	128,128,128,128	7
74	OHX	D1	3611	7/7	0.88	0.36	-	82,82,82,82	7
74	OHX	A1	1921	7/7	0.93	0.27	-	148,148,148,148	7
74	OHX	D1	3481	7/7	0.88	0.29	-	137,137,137,137	7
74	OHX	A1	1971	7/7	0.92	0.21	-	94,94,94,94	7
74	OHX	B1	3573	7/7	0.93	0.23	-	111,111,111,111	7
74	OHX	D1	3570	7/7	0.96	0.29	-	49,49,49,49	7
74	OHX	B1	3596	7/7	0.95	0.34	-	56,56,56,56	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	C1	1996	7/7	0.92	0.43	-	86,86,86,86	7
74	OHX	B1	3431	7/7	0.96	0.19	-	125,125,125,125	7
74	OHX	A1	1960	7/7	0.95	0.38	-	70,70,70,70	7
74	OHX	D2	208	7/7	0.87	0.39	-	105,105,105,105	7
74	OHX	B1	3454	7/7	0.97	0.33	-	123,123,123,123	7
74	OHX	D1	3511	7/7	0.95	0.28	-	85,85,85,85	7
74	OHX	C1	1968	7/7	0.85	0.30	-	103,103,103,103	7
74	OHX	D1	3542	7/7	0.70	0.38	-	198,198,198,198	7
74	OHX	B1	3510	7/7	0.91	0.33	-	153,153,153,153	7
74	OHX	B1	3597	7/7	0.89	0.34	-	137,137,137,137	7
74	OHX	D2	209	7/7	0.87	0.31	-	74,74,74,74	7
74	OHX	D1	3415	7/7	0.99	0.12	-	139,139,139,139	0
74	OHX	C1	2001	7/7	0.96	0.25	-	130,130,130,130	7
74	OHX	D1	3500	7/7	0.93	0.29	-	139,139,139,139	7
74	OHX	B1	3414	7/7	0.98	0.14	-	106,106,106,106	0
74	OHX	B1	3564	7/7	0.96	0.24	-	126,126,126,126	7
74	OHX	C1	1976	7/7	0.80	0.37	-	118,118,118,118	7
74	OHX	B1	3446	7/7	0.95	0.23	-	113,113,113,113	7
74	OHX	D1	3600	7/7	0.86	0.29	-	96,96,96,96	7
74	OHX	A1	1933	7/7	0.91	0.20	-	152,152,152,152	7
74	OHX	A1	1954	7/7	0.90	0.19	-	153,153,153,153	7
74	OHX	Bd	102	7/7	0.95	0.19	-	73,73,73,73	7
74	OHX	A1	1963	7/7	0.90	0.34	-	137,137,137,137	7
74	OHX	A1	1928	7/7	0.96	0.15	-	99,99,99,99	7
74	OHX	B1	3548	7/7	0.79	0.60	-	153,153,153,153	7
74	OHX	B1	3565	7/7	0.90	0.26	-	120,120,120,120	7
74	OHX	C1	1987	7/7	0.88	0.35	-	108,108,108,108	7
74	OHX	B1	3592	7/7	0.90	0.39	-	106,106,106,106	7
74	OHX	B1	3557	7/7	0.90	0.48	-	46,46,46,46	7
74	OHX	B3	201	7/7	0.99	0.19	-	117,117,117,117	0
74	OHX	C1	1938	7/7	0.85	0.29	-	191,191,191,191	7
74	OHX	D1	3441	7/7	0.98	0.20	-	124,124,124,124	7
74	OHX	B1	3465	7/7	0.95	0.17	-	142,142,142,142	7
74	OHX	B1	3466	7/7	0.98	0.17	-	120,120,120,120	7
74	OHX	D1	3549	7/7	0.95	0.27	-	127,127,127,127	7
74	OHX	D1	3567	7/7	0.94	0.14	-	106,106,106,106	7
74	OHX	D3	209	7/7	0.92	0.20	-	127,127,127,127	7
74	OHX	B1	3538	7/7	0.90	0.28	-	93,93,93,93	7
74	OHX	D1	3498	7/7	0.93	0.28	-	103,103,103,103	7
74	OHX	D1	3521	7/7	0.87	0.23	-	163,163,163,163	7
74	OHX	D1	3578	7/7	0.82	0.70	-	222,222,222,222	7
74	OHX	C1	1924	7/7	0.97	0.14	-	82,82,82,82	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	C1	1946	7/7	0.95	0.21	-	63,63,63,63	7
74	OHX	B1	3561	7/7	0.86	0.50	-	280,280,280,280	7
74	OHX	C1	1951	7/7	0.95	0.15	-	152,152,152,152	7
74	OHX	D1	3575	7/7	0.93	0.29	-	84,84,84,84	7
74	OHX	B1	3570	7/7	0.96	0.28	-	91,91,91,91	7
74	OHX	D1	3541	7/7	0.83	0.31	-	141,141,141,141	7
74	OHX	D1	3431	7/7	0.98	0.12	-	109,109,109,109	7
74	OHX	B3	207	7/7	0.96	0.18	-	68,68,68,68	7
74	OHX	A1	1987	7/7	0.94	0.23	-	72,72,72,72	7
74	OHX	B1	3474	7/7	0.88	0.26	-	179,179,179,179	7
74	OHX	D1	3528	7/7	0.94	0.35	-	96,96,96,96	7
74	OHX	D1	3566	7/7	0.79	0.36	-	88,88,88,88	7
74	OHX	D1	3580	7/7	0.84	0.29	-	114,114,114,114	7
74	OHX	C1	1921	7/7	0.97	0.09	-	145,145,145,145	7
74	OHX	B1	3598	7/7	0.94	0.22	-	100,100,100,100	7
74	OHX	C1	1925	7/7	0.98	0.12	-	116,116,116,116	7
74	OHX	D1	3463	7/7	0.96	0.18	-	140,140,140,140	7
74	OHX	B1	3533	7/7	0.88	0.34	-	149,149,149,149	7
74	OHX	B1	3541	7/7	0.89	0.28	-	117,117,117,117	7
74	OHX	C1	1939	7/7	0.91	0.28	-	103,103,103,103	7
74	OHX	D1	3531	7/7	0.90	0.32	-	136,136,136,136	7
74	OHX	D1	3619	7/7	0.95	0.20	-	86,86,86,86	7
74	OHX	D1	3505	7/7	0.92	0.36	-	160,160,160,160	7
74	OHX	B1	3602	7/7	0.73	0.44	-	75,75,75,75	7
74	OHX	A1	1992	7/7	0.96	0.43	-	45,45,45,45	7
74	OHX	D1	3622	7/7	0.89	0.30	-	142,142,142,142	7
74	OHX	A1	1942	7/7	0.91	0.30	-	97,97,97,97	7
74	OHX	C1	1934	7/7	0.93	0.20	-	141,141,141,141	7
74	OHX	D1	3454	7/7	0.95	0.19	-	117,117,117,117	7
74	OHX	D1	3512	7/7	0.95	0.19	-	108,108,108,108	7
74	OHX	D1	3462	7/7	0.96	0.16	-	114,114,114,114	7
74	OHX	C1	1978	7/7	0.76	0.29	-	145,145,145,145	7
74	OHX	B3	202	7/7	0.98	0.15	-	116,116,116,116	0
74	OHX	C1	1962	7/7	0.82	0.30	-	180,180,180,180	7
74	OHX	D1	3565	7/7	0.97	0.23	-	60,60,60,60	7
74	OHX	C1	1984	7/7	0.94	0.27	-	78,78,78,78	7
74	OHX	A1	1939	7/7	0.90	0.19	-	100,100,100,100	7
74	OHX	D1	3592	7/7	0.96	0.22	-	118,118,118,118	7
74	OHX	B2	204	7/7	0.88	0.23	-	132,132,132,132	7
74	OHX	B1	3614	7/7	0.86	0.34	-	163,163,163,163	7
74	OHX	B1	3462	7/7	0.96	0.21	-	90,90,90,90	7
74	OHX	D1	3529	7/7	0.87	0.28	-	130,130,130,130	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
74	OHX	D1	3601	7/7	0.91	0.57	-	99,99,99,99	7
74	OHX	B1	3584	7/7	0.90	0.48	-	99,99,99,99	7
74	OHX	D1	3559	7/7	0.90	0.21	-	116,116,116,116	7
74	OHX	B1	3483	7/7	0.97	0.28	-	71,71,71,71	7
74	OHX	B1	3522	7/7	0.95	0.16	-	129,129,129,129	7
74	OHX	B2	208	7/7	0.82	0.48	-	152,152,152,152	7
74	OHX	D1	3625	7/7	0.90	0.24	-	100,100,100,100	7
74	OHX	B1	3593	7/7	0.91	0.24	-	46,46,46,46	7
74	OHX	B1	3425	7/7	0.96	0.17	-	108,108,108,108	7
74	OHX	CI	201	7/7	0.95	0.31	-	143,143,143,143	7
74	OHX	B1	3552	7/7	0.77	0.32	-	138,138,138,138	7
74	OHX	D1	3493	7/7	0.94	0.17	-	126,126,126,126	7
74	OHX	D1	3577	7/7	0.90	0.25	-	198,198,198,198	7
74	OHX	A1	1908	7/7	0.96	0.23	-	96,96,96,96	7
74	OHX	B1	3514	7/7	0.85	0.30	-	123,123,123,123	7
74	OHX	D1	3607	7/7	0.95	0.29	-	78,78,78,78	7
74	OHX	D1	3468	7/7	0.95	0.26	-	130,130,130,130	7
74	OHX	C1	1980	7/7	0.89	0.34	-	162,162,162,162	7
74	OHX	D1	3606	7/7	0.90	0.24	-	63,63,63,63	7
74	OHX	D1	3491	7/7	0.96	0.24	-	37,37,37,37	7
74	OHX	A1	1997	7/7	0.90	0.39	-	100,100,100,100	7
74	OHX	D2	204	7/7	0.90	0.20	-	116,116,116,116	7
74	OHX	B1	3488	7/7	0.95	0.18	-	104,104,104,104	7

6.5 Other polymers [i](#)

There are no such residues in this entry.