



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 10:32 PM GMT

PDB ID : 4V6F
Title : Elongation complex of the 70S ribosome with three tRNAs and mRNA.
Authors : Jenner, L.B.; Yusupova, G.; Yusupov, M.
Deposited on : 2009-07-09
Resolution : 3.10 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

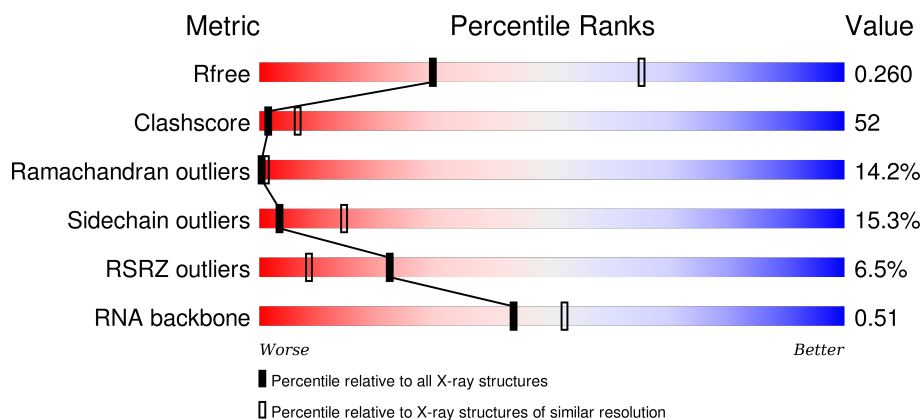
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 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	1114 (3.14-3.06)
Clashscore	102246	1222 (3.14-3.06)
Ramachandran outliers	100387	1174 (3.14-3.06)
Sidechain outliers	100360	1174 (3.14-3.06)
RSRZ outliers	91569	1119 (3.14-3.06)
RNA backbone	2183	1010 (3.52-2.68)

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	AA	2909	<div> <div>3%</div> <div>22% 49% 24% 5%</div> </div>
2	AB	122	<div> <div>2%</div> <div>27% 48% 24% .</div> </div>
2	DB	122	<div> <div>%</div> <div>34% 44% 20% .</div> </div>
3	AD	276	<div> <div>2%</div> <div>27% 53% 16% ..</div> </div>

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Mol	Chain	Length	Quality of chain
3	DD	276	
4	AE	206	
4	DE	206	
5	AF	210	
5	DF	210	
6	AG	182	
6	DG	182	
7	AH	180	
7	DH	180	
8	AK	148	
8	DK	148	
9	AM	140	
9	DM	140	
10	AN	122	
10	DN	122	
11	AO	150	
11	DO	150	
12	AP	141	
12	DP	141	
13	A0	118	
13	D0	118	
14	AQ	112	
14	DQ	112	
15	AR	146	
15	DR	146	

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Mol	Chain	Length	Quality of chain
16	A1	118	
16	D1	118	
17	A2	101	
17	D2	101	
18	AS	113	
18	DS	113	
19	AT	96	
19	DT	96	
20	AU	110	
20	DU	110	
21	AV	206	
21	DV	206	
22	A3	85	
22	D3	85	
23	AZ	98	
23	DZ	98	
24	AW	72	
24	DW	72	
25	AX	60	
25	DX	60	
26	A4	71	
26	D4	71	
27	A5	60	
27	D5	60	
28	A6	54	

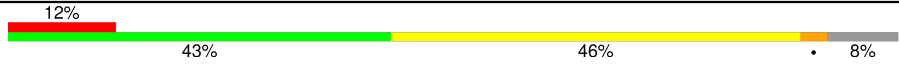
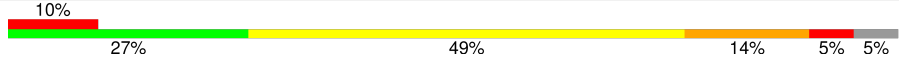
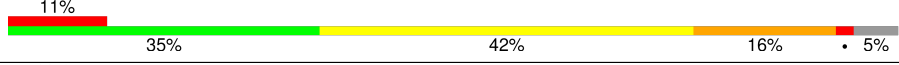
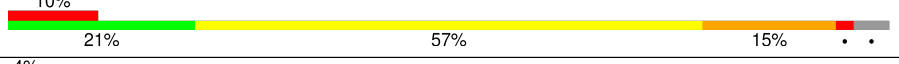
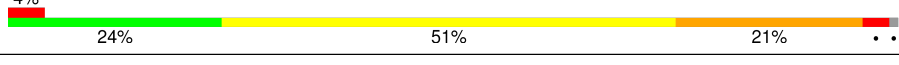
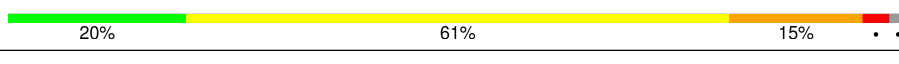
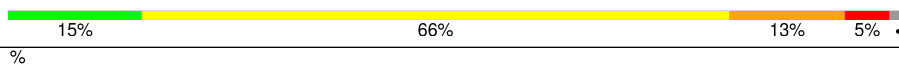
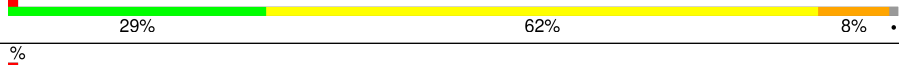
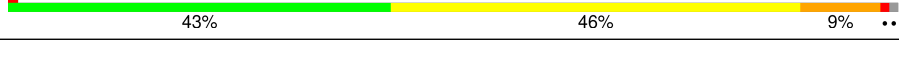
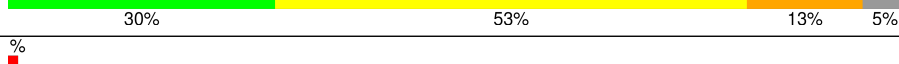

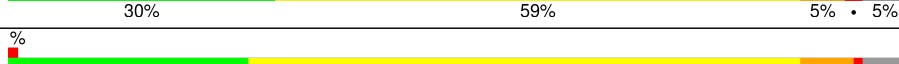
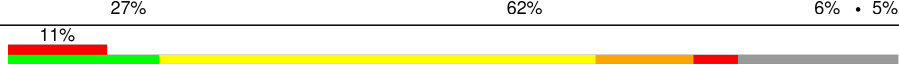
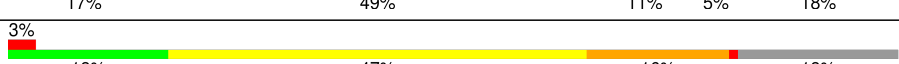
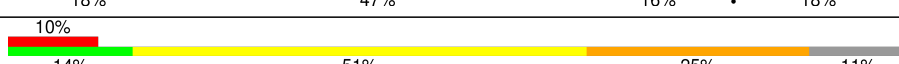
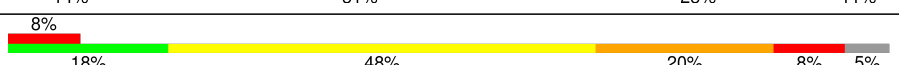
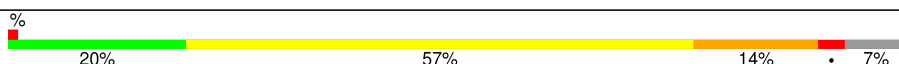
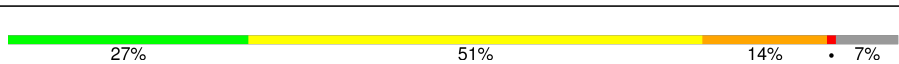
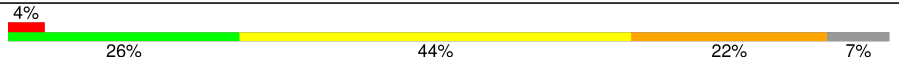

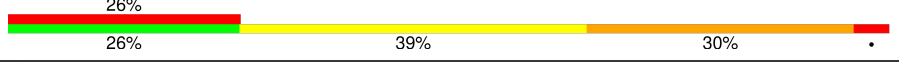
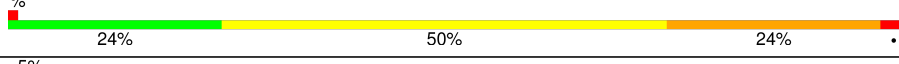



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Mol	Chain	Length	Quality of chain
28	D6	54	
29	A7	49	
29	D7	49	
30	A8	65	
30	D8	65	
31	BA	1516	
32	BE	256	
32	CE	256	
33	BF	239	
33	CF	239	
34	BG	209	
34	CG	209	
35	BH	162	
35	CH	162	
36	BI	101	
36	CI	101	
37	BJ	156	
37	CJ	156	
38	BK	138	
38	CK	138	
39	BL	128	
39	CL	128	
40	BM	105	
40	CM	105	
41	BN	129	

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Mol	Chain	Length	Quality of chain
41	CN	129	
42	BO	132	
42	CO	132	
43	BP	126	
43	CP	126	
44	BQ	61	
44	CQ	61	
45	BR	89	
45	CR	89	
46	BS	88	
46	CS	88	
47	BT	105	
47	CT	105	
48	BU	88	
48	CU	88	
49	BV	93	
49	CV	93	
50	BW	106	
50	CW	106	
51	BX	27	
51	CX	27	
52	BB	76	
52	BC	76	
52	BD	76	
52	CB	76	

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Mol	Chain	Length	Quality of chain
52	CC	76	
52	CD	76	
53	B1	30	
53	C1	30	
54	CA	1515	
55	DA	2912	
56	DI	125	
56	DJ	125	
57	DY	173	
58	DL	147	

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
59	MG	A1	202	-	-	-	X
59	MG	A1	204	-	-	-	X
59	MG	A8	104	-	-	-	X
59	MG	AA	3010	-	-	-	X
59	MG	AA	3017	-	-	-	X
59	MG	AA	3019	-	-	-	X
59	MG	AA	3045	-	-	-	X
59	MG	AA	3046	-	-	-	X
59	MG	AA	3048	-	-	-	X
59	MG	AA	3057	-	-	-	X
59	MG	AA	3101	-	-	-	X
59	MG	AA	3132	-	-	-	X
59	MG	AA	3171	-	-	-	X
59	MG	AA	3178	-	-	-	X
59	MG	AA	3210	-	-	-	X
59	MG	AA	3216	-	-	-	X
59	MG	AA	3224	-	-	-	X
59	MG	AA	3235	-	-	-	X
59	MG	AA	3253	-	-	-	X
59	MG	AA	3255	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	AA	3263	-	-	-	X
59	MG	AA	3331	-	-	-	X
59	MG	AA	3337	-	-	-	X
59	MG	AA	3357	-	-	-	X
59	MG	AA	3364	-	-	-	X
59	MG	AA	3385	-	-	-	X
59	MG	AA	3396	-	-	-	X
59	MG	AA	3398	-	-	-	X
59	MG	AA	3459	-	-	-	X
59	MG	AA	3477	-	-	-	X
59	MG	AA	3523	-	-	-	X
59	MG	AA	3528	-	-	-	X
59	MG	AA	3531	-	-	-	X
59	MG	AA	3551	-	-	-	X
59	MG	AA	3571	-	-	-	X
59	MG	AA	3576	-	-	-	X
59	MG	AA	3623	-	-	-	X
59	MG	AA	3629	-	-	-	X
59	MG	AA	3630	-	-	-	X
59	MG	AA	3638	-	-	-	X
59	MG	AA	3640	-	-	-	X
59	MG	AA	3643	-	-	-	X
59	MG	AA	3706	-	-	-	X
59	MG	AA	3710	-	-	-	X
59	MG	AA	3711	-	-	-	X
59	MG	AA	3714	-	-	-	X
59	MG	AA	3721	-	-	-	X
59	MG	AA	3733	-	-	-	X
59	MG	AA	3749	-	-	-	X
59	MG	AA	3793	-	-	-	X
59	MG	AA	3803	-	-	-	X
59	MG	AA	3820	-	-	-	X
59	MG	AA	3821	-	-	-	X
59	MG	AA	3824	-	-	-	X
59	MG	AA	3955	-	-	-	X
59	MG	AA	3976	-	-	-	X
59	MG	AA	3977	-	-	-	X
59	MG	AA	3978	-	-	-	X
59	MG	AA	4007	-	-	-	X
59	MG	AA	4018	-	-	-	X
59	MG	AA	4026	-	-	-	X
59	MG	AA	4094	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	AA	4113	-	-	-	X
59	MG	AA	4137	-	-	-	X
59	MG	AA	4155	-	-	-	X
59	MG	AA	4163	-	-	-	X
59	MG	AD	303	-	-	-	X
59	MG	AD	308	-	-	-	X
59	MG	AE	302	-	-	-	X
59	MG	AO	206	-	-	-	X
59	MG	AT	101	-	-	-	X
59	MG	AW	102	-	-	-	X
59	MG	BA	1602	-	-	-	X
59	MG	BA	1616	-	-	-	X
59	MG	BA	1619	-	-	-	X
59	MG	BA	1640	-	-	-	X
59	MG	BA	1642	-	-	-	X
59	MG	BA	1651	-	-	-	X
59	MG	BA	1654	-	-	-	X
59	MG	BA	1665	-	-	-	X
59	MG	BA	1692	-	-	-	X
59	MG	BA	1695	-	-	-	X
59	MG	BA	1696	-	-	-	X
59	MG	BA	1697	-	-	-	X
59	MG	BA	1702	-	-	-	X
59	MG	BA	1713	-	-	-	X
59	MG	BA	1719	-	-	-	X
59	MG	BA	1721	-	-	-	X
59	MG	BA	1722	-	-	-	X
59	MG	BA	1723	-	-	-	X
59	MG	BA	1725	-	-	-	X
59	MG	BA	1731	-	-	-	X
59	MG	BA	1750	-	-	-	X
59	MG	BA	1752	-	-	-	X
59	MG	BA	1770	-	-	-	X
59	MG	BA	1774	-	-	-	X
59	MG	BA	1777	-	-	-	X
59	MG	BA	1838	-	-	-	X
59	MG	BA	1839	-	-	-	X
59	MG	BA	1887	-	-	-	X
59	MG	BA	1949	-	-	-	X
59	MG	BA	1971	-	-	-	X
59	MG	BA	1990	-	-	-	X
59	MG	BA	1999	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	BA	2039	-	-	-	X
59	MG	BA	2062	-	-	-	X
59	MG	BA	2070	-	-	-	X
59	MG	BA	2078	-	-	-	X
59	MG	BA	2083	-	-	-	X
59	MG	BA	2091	-	-	-	X
59	MG	BA	2117	-	-	-	X
59	MG	BA	2131	-	-	-	X
59	MG	BA	2146	-	-	-	X
59	MG	BA	2150	-	-	-	X
59	MG	BA	2164	-	-	-	X
59	MG	BA	2170	-	-	-	X
59	MG	BA	2187	-	-	-	X
59	MG	BA	2241	-	-	-	X
59	MG	BA	2263	-	-	-	X
59	MG	BA	2274	-	-	-	X
59	MG	BK	202	-	-	-	X
59	MG	BM	201	-	-	-	X
59	MG	BQ	101	-	-	-	X
59	MG	BT	201	-	-	-	X
59	MG	BW	201	-	-	-	X
59	MG	CA	1604	-	-	-	X
59	MG	CA	1605	-	-	-	X
59	MG	CA	1607	-	-	-	X
59	MG	CA	1623	-	-	-	X
59	MG	CA	1628	-	-	-	X
59	MG	CA	1629	-	-	-	X
59	MG	CA	1638	-	-	-	X
59	MG	CA	1643	-	-	-	X
59	MG	CA	1661	-	-	-	X
59	MG	CA	1679	-	-	-	X
59	MG	CA	1688	-	-	-	X
59	MG	CA	1695	-	-	-	X
59	MG	CA	1706	-	-	-	X
59	MG	CA	1708	-	-	-	X
59	MG	CA	1717	-	-	-	X
59	MG	CA	1738	-	-	-	X
59	MG	CA	1748	-	-	-	X
59	MG	CA	1765	-	-	-	X
59	MG	CA	1766	-	-	-	X
59	MG	CA	1776	-	-	-	X
59	MG	CA	1779	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	CA	1782	-	-	-	X
59	MG	CA	1856	-	-	-	X
59	MG	CA	1861	-	-	-	X
59	MG	CA	1901	-	-	-	X
59	MG	CA	1906	-	-	-	X
59	MG	CA	1910	-	-	-	X
59	MG	CA	1957	-	-	-	X
59	MG	CA	1958	-	-	-	X
59	MG	CA	1973	-	-	-	X
59	MG	CA	1981	-	-	-	X
59	MG	CA	2017	-	-	-	X
59	MG	CA	2041	-	-	-	X
59	MG	CA	2051	-	-	-	X
59	MG	CA	2065	-	-	-	X
59	MG	CA	2072	-	-	-	X
59	MG	CA	2073	-	-	-	X
59	MG	CA	2087	-	-	-	X
59	MG	CA	2091	-	-	-	X
59	MG	CA	2121	-	-	-	X
59	MG	CA	2132	-	-	-	X
59	MG	CA	2152	-	-	-	X
59	MG	CA	2157	-	-	-	X
59	MG	CA	2177	-	-	-	X
59	MG	CA	2207	-	-	-	X
59	MG	CA	2238	-	-	-	X
59	MG	CA	2244	-	-	-	X
59	MG	CA	2255	-	-	-	X
59	MG	CA	2274	-	-	-	X
59	MG	CA	2278	-	-	-	X
59	MG	CA	2313	-	-	-	X
59	MG	CA	2314	-	-	-	X
59	MG	CA	2323	-	-	-	X
59	MG	CE	302	-	-	-	X
59	MG	CG	308	-	-	-	X
59	MG	CS	106	-	-	-	X
59	MG	CT	202	-	-	-	X
59	MG	D0	203	-	-	-	X
59	MG	D0	205	-	-	-	X
59	MG	D0	207	-	-	-	X
59	MG	D0	211	-	-	-	X
59	MG	D1	201	-	-	-	X
59	MG	D1	204	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	D1	205	-	-	-	X
59	MG	D1	206	-	-	-	X
59	MG	D1	211	-	-	-	X
59	MG	D1	212	-	-	-	X
59	MG	D2	208	-	-	-	X
59	MG	D3	105	-	-	-	X
59	MG	D3	106	-	-	-	X
59	MG	D5	106	-	-	-	X
59	MG	D6	103	-	-	-	X
59	MG	D8	102	-	-	-	X
59	MG	D8	105	-	-	-	X
59	MG	DA	3001	-	-	-	X
59	MG	DA	3002	-	-	-	X
59	MG	DA	3011	-	-	-	X
59	MG	DA	3018	-	-	-	X
59	MG	DA	3022	-	-	-	X
59	MG	DA	3023	-	-	-	X
59	MG	DA	3026	-	-	-	X
59	MG	DA	3033	-	-	-	X
59	MG	DA	3035	-	-	-	X
59	MG	DA	3040	-	-	-	X
59	MG	DA	3043	-	-	-	X
59	MG	DA	3044	-	-	-	X
59	MG	DA	3046	-	-	-	X
59	MG	DA	3049	-	-	-	X
59	MG	DA	3053	-	-	-	X
59	MG	DA	3055	-	-	-	X
59	MG	DA	3060	-	-	-	X
59	MG	DA	3066	-	-	-	X
59	MG	DA	3067	-	-	-	X
59	MG	DA	3069	-	-	-	X
59	MG	DA	3072	-	-	-	X
59	MG	DA	3073	-	-	-	X
59	MG	DA	3078	-	-	-	X
59	MG	DA	3082	-	-	-	X
59	MG	DA	3085	-	-	-	X
59	MG	DA	3093	-	-	-	X
59	MG	DA	3095	-	-	-	X
59	MG	DA	3101	-	-	-	X
59	MG	DA	3115	-	-	-	X
59	MG	DA	3123	-	-	-	X
59	MG	DA	3132	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	DA	3144	-	-	-	X
59	MG	DA	3154	-	-	-	X
59	MG	DA	3162	-	-	-	X
59	MG	DA	3169	-	-	-	X
59	MG	DA	3171	-	-	-	X
59	MG	DA	3172	-	-	-	X
59	MG	DA	3177	-	-	-	X
59	MG	DA	3184	-	-	-	X
59	MG	DA	3189	-	-	-	X
59	MG	DA	3211	-	-	-	X
59	MG	DA	3240	-	-	-	X
59	MG	DA	3241	-	-	-	X
59	MG	DA	3245	-	-	-	X
59	MG	DA	3252	-	-	-	X
59	MG	DA	3254	-	-	-	X
59	MG	DA	3276	-	-	-	X
59	MG	DA	3279	-	-	-	X
59	MG	DA	3281	-	-	-	X
59	MG	DA	3283	-	-	-	X
59	MG	DA	3284	-	-	-	X
59	MG	DA	3305	-	-	-	X
59	MG	DA	3329	-	-	-	X
59	MG	DA	3337	-	-	-	X
59	MG	DA	3351	-	-	-	X
59	MG	DA	3358	-	-	-	X
59	MG	DA	3365	-	-	-	X
59	MG	DA	3369	-	-	-	X
59	MG	DA	3382	-	-	-	X
59	MG	DA	3396	-	-	-	X
59	MG	DA	3400	-	-	-	X
59	MG	DA	3405	-	-	-	X
59	MG	DA	3414	-	-	-	X
59	MG	DA	3419	-	-	-	X
59	MG	DA	3421	-	-	-	X
59	MG	DA	3439	-	-	-	X
59	MG	DA	3447	-	-	-	X
59	MG	DA	3458	-	-	-	X
59	MG	DA	3469	-	-	-	X
59	MG	DA	3471	-	-	-	X
59	MG	DA	3474	-	-	-	X
59	MG	DA	3475	-	-	-	X
59	MG	DA	3507	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	DA	3508	-	-	-	X
59	MG	DA	3511	-	-	-	X
59	MG	DA	3530	-	-	-	X
59	MG	DA	3536	-	-	-	X
59	MG	DA	3542	-	-	-	X
59	MG	DA	3572	-	-	-	X
59	MG	DA	3579	-	-	-	X
59	MG	DA	3584	-	-	-	X
59	MG	DA	3585	-	-	-	X
59	MG	DA	3592	-	-	-	X
59	MG	DA	3603	-	-	-	X
59	MG	DA	3625	-	-	-	X
59	MG	DA	3626	-	-	-	X
59	MG	DA	3660	-	-	-	X
59	MG	DA	3664	-	-	-	X
59	MG	DA	3671	-	-	-	X
59	MG	DA	3684	-	-	-	X
59	MG	DA	3699	-	-	-	X
59	MG	DA	3700	-	-	-	X
59	MG	DA	3703	-	-	-	X
59	MG	DA	3706	-	-	-	X
59	MG	DA	3708	-	-	-	X
59	MG	DA	3712	-	-	-	X
59	MG	DA	3729	-	-	-	X
59	MG	DA	3730	-	-	-	X
59	MG	DA	3732	-	-	-	X
59	MG	DA	3737	-	-	-	X
59	MG	DA	3793	-	-	-	X
59	MG	DA	3809	-	-	-	X
59	MG	DA	3830	-	-	-	X
59	MG	DA	3832	-	-	-	X
59	MG	DA	3838	-	-	-	X
59	MG	DA	3848	-	-	-	X
59	MG	DA	3856	-	-	-	X
59	MG	DA	3866	-	-	-	X
59	MG	DA	3875	-	-	-	X
59	MG	DA	3880	-	-	-	X
59	MG	DA	3899	-	-	-	X
59	MG	DA	3903	-	-	-	X
59	MG	DA	3930	-	-	-	X
59	MG	DA	3956	-	-	-	X
59	MG	DA	3970	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	DA	3983	-	-	-	X
59	MG	DA	3994	-	-	-	X
59	MG	DA	3998	-	-	-	X
59	MG	DA	4003	-	-	-	X
59	MG	DA	4012	-	-	-	X
59	MG	DA	4015	-	-	-	X
59	MG	DA	4021	-	-	-	X
59	MG	DA	4022	-	-	-	X
59	MG	DA	4035	-	-	-	X
59	MG	DA	4039	-	-	-	X
59	MG	DA	4040	-	-	-	X
59	MG	DA	4078	-	-	-	X
59	MG	DA	4093	-	-	-	X
59	MG	DA	4100	-	-	-	X
59	MG	DA	4130	-	-	-	X
59	MG	DA	4131	-	-	-	X
59	MG	DA	4133	-	-	-	X
59	MG	DA	4134	-	-	-	X
59	MG	DA	4135	-	-	-	X
59	MG	DA	4151	-	-	-	X
59	MG	DA	4157	-	-	-	X
59	MG	DA	4172	-	-	-	X
59	MG	DA	4197	-	-	-	X
59	MG	DA	4199	-	-	-	X
59	MG	DA	4207	-	-	-	X
59	MG	DA	4210	-	-	-	X
59	MG	DA	4226	-	-	-	X
59	MG	DA	4231	-	-	-	X
59	MG	DA	4232	-	-	-	X
59	MG	DA	4249	-	-	-	X
59	MG	DA	4273	-	-	-	X
59	MG	DA	4278	-	-	-	X
59	MG	DA	4325	-	-	-	X
59	MG	DA	4353	-	-	-	X
59	MG	DA	4357	-	-	-	X
59	MG	DA	4369	-	-	-	X
59	MG	DA	4371	-	-	-	X
59	MG	DA	4381	-	-	-	X
59	MG	DA	4393	-	-	-	X
59	MG	DA	4401	-	-	-	X
59	MG	DA	4402	-	-	-	X
59	MG	DA	4406	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	DA	4410	-	-	-	X
59	MG	DA	4425	-	-	-	X
59	MG	DA	4437	-	-	-	X
59	MG	DA	4443	-	-	-	X
59	MG	DA	4450	-	-	-	X
59	MG	DA	4454	-	-	-	X
59	MG	DA	4456	-	-	-	X
59	MG	DA	4459	-	-	-	X
59	MG	DA	4469	-	-	-	X
59	MG	DA	4489	-	-	-	X
59	MG	DA	4497	-	-	-	X
59	MG	DA	4499	-	-	-	X
59	MG	DA	4508	-	-	-	X
59	MG	DA	4531	-	-	-	X
59	MG	DA	4537	-	-	-	X
59	MG	DA	4545	-	-	-	X
59	MG	DA	4546	-	-	-	X
59	MG	DA	4561	-	-	-	X
59	MG	DA	4566	-	-	-	X
59	MG	DA	4572	-	-	-	X
59	MG	DA	4582	-	-	-	X
59	MG	DA	4588	-	-	-	X
59	MG	DA	4589	-	-	-	X
59	MG	DA	4594	-	-	-	X
59	MG	DA	4603	-	-	-	X
59	MG	DA	4606	-	-	-	X
59	MG	DA	4640	-	-	-	X
59	MG	DA	4666	-	-	-	X
59	MG	DA	4669	-	-	-	X
59	MG	DA	4671	-	-	-	X
59	MG	DA	4685	-	-	-	X
59	MG	DA	4701	-	-	-	X
59	MG	DA	4703	-	-	-	X
59	MG	DA	4712	-	-	-	X
59	MG	DA	4715	-	-	-	X
59	MG	DA	4726	-	-	-	X
59	MG	DA	4737	-	-	-	X
59	MG	DA	4743	-	-	-	X
59	MG	DA	4745	-	-	-	X
59	MG	DA	4747	-	-	-	X
59	MG	DA	4767	-	-	-	X
59	MG	DA	4775	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	DA	4802	-	-	-	X
59	MG	DA	4808	-	-	-	X
59	MG	DA	4830	-	-	-	X
59	MG	DA	4843	-	-	-	X
59	MG	DA	4867	-	-	-	X
59	MG	DA	4878	-	-	-	X
59	MG	DA	4913	-	-	-	X
59	MG	DA	4929	-	-	-	X
59	MG	DA	4931	-	-	-	X
59	MG	DA	4936	-	-	-	X
59	MG	DA	4939	-	-	-	X
59	MG	DA	4940	-	-	-	X
59	MG	DA	4946	-	-	-	X
59	MG	DA	4977	-	-	-	X
59	MG	DA	4981	-	-	-	X
59	MG	DA	5008	-	-	-	X
59	MG	DA	5040	-	-	-	X
59	MG	DA	5062	-	-	-	X
59	MG	DB	205	-	-	-	X
59	MG	DB	216	-	-	-	X
59	MG	DB	224	-	-	-	X
59	MG	DB	248	-	-	-	X
59	MG	DB	250	-	-	-	X
59	MG	DB	274	-	-	-	X
59	MG	DD	301	-	-	-	X
59	MG	DD	304	-	-	-	X
59	MG	DD	305	-	-	-	X
59	MG	DD	307	-	-	-	X
59	MG	DD	308	-	-	-	X
59	MG	DD	309	-	-	-	X
59	MG	DD	314	-	-	-	X
59	MG	DE	308	-	-	-	X
59	MG	DE	309	-	-	-	X
59	MG	DF	302	-	-	-	X
59	MG	DF	307	-	-	-	X
59	MG	DF	308	-	-	-	X
59	MG	DF	321	-	-	-	X
59	MG	DF	322	-	-	-	X
59	MG	DF	323	-	-	-	X
59	MG	DM	202	-	-	-	X
59	MG	DM	204	-	-	-	X
59	MG	DM	205	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	DO	203	-	-	-	X
59	MG	DO	208	-	-	-	X
59	MG	DO	210	-	-	-	X
59	MG	DO	211	-	-	-	X
59	MG	DO	214	-	-	-	X
59	MG	DO	217	-	-	-	X
59	MG	DR	202	-	-	-	X
59	MG	DT	104	-	-	-	X
59	MG	DT	106	-	-	-	X
59	MG	DU	210	-	-	-	X
59	MG	DU	212	-	-	-	X
59	MG	DW	107	-	-	-	X
60	ZN	A4	101	-	-	-	X

2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 307345 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 23S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	2909	Total	C	N	O	P	0	0	0
			62647	27884	11716	20139	2908			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AA	?	-	U	DELETION	GB AP008226.1
AA	?	-	U	DELETION	GB AP008226.1
AA	654A	A	G	CONFLICT	GB AP008226.1
AA	654E	C	G	CONFLICT	GB AP008226.1
AA	654P	G	C	CONFLICT	GB AP008226.1
AA	654T	A	C	CONFLICT	GB AP008226.1
AA	1058	U	G	CONFLICT	GB AP008226.1
AA	1080	A	C	CONFLICT	GB AP008226.1

- Molecule 2 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			
2	DB	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AB	1M	A	-	INSERTION	GB X01554.1
DB	1M	A	-	INSERTION	GB X01554.1

- Molecule 3 is a protein called 50S RIBOSOMAL PROTEIN L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AD	272	Total	C	N	O	S	0	0	0
			2115	1335	420	357	3			
3	DD	272	Total	C	N	O	S	0	0	0
			2115	1335	420	357	3			

- Molecule 4 is a protein called 50S RIBOSOMAL PROTEIN L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AE	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			
4	DE	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			

- Molecule 5 is a protein called 50S RIBOSOMAL PROTEIN L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AF	208	Total	C	N	O	S	0	0	0
			1627	1037	304	283	3			
5	DF	202	Total	C	N	O	S	0	0	0
			1585	1011	297	275	2			

- Molecule 6 is a protein called 50S RIBOSOMAL PROTEIN L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			
6	DG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			

- Molecule 7 is a protein called 50S RIBOSOMAL PROTEIN L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AH	170	Total	C	N	O	S	0	0	0
			1307	829	245	232	1			
7	DH	170	Total	C	N	O	S	0	0	0
			1307	829	245	232	1			

- Molecule 8 is a protein called 50S RIBOSOMAL PROTEIN L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AK	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	DK	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			

- Molecule 9 is a protein called 50S RIBOSOMAL PROTEIN L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AM	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			
9	DM	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

- Molecule 10 is a protein called 50S RIBOSOMAL PROTEIN L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AN	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			
10	DN	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 11 is a protein called 50S RIBOSOMAL PROTEIN L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AO	150	Total	C	N	O	S	0	0	0
			1145	712	232	198	3			
11	DO	150	Total	C	N	O	S	0	0	0
			1145	712	232	198	3			

- Molecule 12 is a protein called 50S RIBOSOMAL PROTEIN L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AP	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
12	DP	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 13 is a protein called 50S RIBOSOMAL PROTEIN L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	A0	117	Total	C	N	O	S	0	0	0
			960	599	202	159				
13	D0	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			

- Molecule 14 is a protein called 50S RIBOSOMAL PROTEIN L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	AQ	111	Total	C	N	O	0	0	0
			882	556	176	150			
14	DQ	111	Total	C	N	O	0	0	0
			882	556	176	150			

- Molecule 15 is a protein called 50S RIBOSOMAL PROTEIN L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AR	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			
15	DR	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			

- Molecule 16 is a protein called 50S RIBOSOMAL PROTEIN L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	A1	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			
16	D1	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			

- Molecule 17 is a protein called 50S RIBOSOMAL PROTEIN L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	A2	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
17	D2	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 18 is a protein called 50S RIBOSOMAL PROTEIN L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AS	113	Total	C	N	O	S	0	0	0
			900	566	177	155	2			
18	DS	113	Total	C	N	O	S	0	0	0
			900	566	177	155	2			

- Molecule 19 is a protein called 50S RIBOSOMAL PROTEIN L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
19	AT	92	Total	C	N	O	0	0	0
			725	471	131	123			
19	DT	92	Total	C	N	O	0	0	0
			725	471	131	123			

- Molecule 20 is a protein called 50S RIBOSOMAL PROTEIN L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AU	102	Total	C	N	O	S	0	0	0
			785	505	150	125	5			
20	DU	102	Total	C	N	O	S	0	0	0
			785	505	150	125	5			

- Molecule 21 is a protein called 50S RIBOSOMAL PROTEIN L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AV	187	Total	C	N	O	S	0	0	0
			1489	949	264	273	3			
21	DV	200	Total	C	N	O	S	0	0	0
			1582	1008	279	292	3			

- Molecule 22 is a protein called 50S RIBOSOMAL PROTEIN L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	A3	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			
22	D3	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			

- Molecule 23 is a protein called 50S RIBOSOMAL PROTEIN L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AZ	97	Total	C	N	O	S	0	0	0
			763	481	150	131	1			
23	DZ	97	Total	C	N	O	S	0	0	0
			763	481	150	131	1			

- Molecule 24 is a protein called 50S RIBOSOMAL PROTEIN L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AW	69	Total	C	N	O	S	0	0	0
			581	358	118	104	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	DW	69	Total	C	N	O	S	0	0	0
			581	358	118	104	1			

- Molecule 25 is a protein called 50S RIBOSOMAL PROTEIN L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	AX	59	Total	C	N	O		0	0	0
			469	298	90	81				
25	DX	59	Total	C	N	O		0	0	0
			469	298	90	81				

- Molecule 26 is a protein called 50S RIBOSOMAL PROTEIN L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	A4	71	Total	C	N	O	S	0	0	0
			581	364	108	104	5			
26	D4	71	Total	C	N	O	S	0	0	0
			581	364	108	104	5			

- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	A5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			
27	D5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	A6	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			
28	D6	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			

- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	A7	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			
29	D7	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			

- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	A8	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			
30	D8	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			

- Molecule 31 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BA	1516	Total	C	N	O	P	0	0	0
			32571	14499	6024	10533	1515			

- Molecule 32 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BE	237	Total	C	N	O	S	0	0	0
			1924	1228	344	347	5			
32	CE	237	Total	C	N	O	S	0	0	0
			1924	1228	344	347	5			

- Molecule 33 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BF	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			
33	CF	205	Total	C	N	O	S	0	0	0
			1605	1011	313	280	1			

- Molecule 34 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BG	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			
34	CG	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

- Molecule 35 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BH	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	CH	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

- Molecule 36 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BI	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
36	CI	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 37 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BJ	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
37	CJ	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 38 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BK	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
38	CK	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 39 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	BL	127	Total	C	N	O	0	0	0
			1010	639	197	174			
39	CL	127	Total	C	N	O	0	0	0
			1010	639	197	174			

- Molecule 40 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BM	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			
40	CM	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			

- Molecule 41 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BN	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			
41	CN	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 42 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BO	125	Total	C	N	O	S	0	0	0
			975	614	196	164	1			
42	CO	125	Total	C	N	O	S	0	0	0
			975	614	196	164	1			

- Molecule 43 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BP	121	Total	C	N	O	S	0	0	0
			964	597	199	166	2			
43	CP	125	Total	C	N	O	S	0	0	0
			997	617	207	171	2			

- Molecule 44 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BQ	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
44	CQ	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 45 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BR	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
45	CR	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 46 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BS	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			
46	CS	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			

- Molecule 47 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BT	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			
47	CT	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			

- Molecule 48 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
48	BU	72	Total	C	N	O	0	0	0
			591	376	117	98			
48	CU	72	Total	C	N	O	0	0	0
			591	376	117	98			

- Molecule 49 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	BV	83	Total	C	N	O	S	0	0	0
			665	424	122	117	2			
49	CV	88	Total	C	N	O	S	0	0	0
			702	447	131	122	2			

- Molecule 50 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	BW	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			
50	CW	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

- Molecule 51 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
51	BX	25	Total	C	N	O	0	0	0
			217	134	52	31			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
51	CX	25	Total	C	N	O	0	0	0
			217	134	52	31			

- Molecule 52 is a RNA chain called TRNA-PHE WITH UNMODIFIED NUCLEOTIDES EXCEPT FOR MIA37.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
52	BD	76	Total	C	N	O	P	S	0	0	0
			1626	729	290	531	75	1			
52	BB	76	Total	C	N	O	P	S	0	0	0
			1626	729	290	531	75	1			
52	BC	76	Total	C	N	O	P	S	0	0	0
			1626	729	290	531	75	1			
52	CD	76	Total	C	N	O	P	S	0	0	0
			1626	729	290	531	75	1			
52	CB	76	Total	C	N	O	P	S	0	0	0
			1626	729	290	531	75	1			
52	CC	76	Total	C	N	O	P	S	0	0	0
			1626	729	290	531	75	1			

- Molecule 53 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	B1	30	Total	C	N	O	P	0	0	0
			621	279	88	225	29			
53	C1	30	Total	C	N	O	P	0	0	0
			621	279	88	225	29			

- Molecule 54 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	CA	1515	Total	C	N	O	P	0	0	0
			32551	14490	6022	10525	1514			

- Molecule 55 is a RNA chain called 23S RRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	DA	2912	Total	C	N	O	P	0	0	0
			62707	27911	11722	20163	2911			

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
DA	161	U	-	INSERTION	GB AP008226.1
DA	654A	A	G	CONFLICT	GB AP008226.1
DA	654E	C	G	CONFLICT	GB AP008226.1
DA	654P	G	C	CONFLICT	GB AP008226.1
DA	654T	A	C	CONFLICT	GB AP008226.1
DA	1058	U	G	CONFLICT	GB AP008226.1
DA	1080	A	C	CONFLICT	GB AP008226.1

- Molecule 56 is a protein called 50S ribosomal protein L7/L12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	DI	30	Total	C	N	O	S	0	0	0
			237	150	38	48	1			
56	DJ	30	Total	C	N	O	S	0	0	0
			237	150	38	48	1			

- Molecule 57 is a protein called 50S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	DY	145	Total	C	N	O	S	0	0	0
			1107	708	193	204	2			

- Molecule 58 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	DL	145	Total	C	N	O	S	0	0	0
			1071	681	188	197	5			

- Molecule 59 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	CA	724	Total	Mg	0	0
			724	724		
59	AB	36	Total	Mg	0	0
			36	36		
59	CV	4	Total	Mg	0	0
			4	4		
59	DO	18	Total	Mg	0	0
			18	18		
59	AW	2	Total	Mg	0	0
			2	2		
59	DZ	5	Total	Mg	0	0
			5	5		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	BI	1	Total Mg 1 1	0	0
59	BT	2	Total Mg 2 2	0	0
59	D3	7	Total Mg 7 7	0	0
59	AA	1166	Total Mg 1166 1166	0	0
59	CQ	3	Total Mg 3 3	0	0
59	AR	5	Total Mg 5 5	0	0
59	BC	16	Total Mg 16 16	0	0
59	CJ	1	Total Mg 1 1	0	0
59	D4	2	Total Mg 2 2	0	0
59	DE	15	Total Mg 15 15	0	0
59	AQ	5	Total Mg 5 5	0	0
59	DP	4	Total Mg 4 4	0	0
59	BS	9	Total Mg 9 9	0	0
59	CE	6	Total Mg 6 6	0	0
59	A3	4	Total Mg 4 4	0	0
59	AF	7	Total Mg 7 7	0	0
59	DK	2	Total Mg 2 2	0	0
59	AK	3	Total Mg 3 3	0	0
59	DF	25	Total Mg 25 25	0	0
59	BE	5	Total Mg 5 5	0	0
59	DU	19	Total Mg 19 19	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	BP	2	Total 2	Mg 2	0	0
59	AE	4	Total 4	Mg 4	0	0
59	DL	1	Total 1	Mg 1	0	0
59	AV	1	Total 1	Mg 1	0	0
59	DV	5	Total 5	Mg 5	0	0
59	BU	1	Total 1	Mg 1	0	0
59	CN	2	Total 2	Mg 2	0	0
59	D0	11	Total 11	Mg 11	0	0
59	CC	27	Total 27	Mg 27	0	0
59	CP	3	Total 3	Mg 3	0	0
59	DA	2077	Total 2077	Mg 2077	0	0
59	AU	6	Total 6	Mg 6	0	0
59	BO	1	Total 1	Mg 1	0	0
59	CI	1	Total 1	Mg 1	0	0
59	A7	4	Total 4	Mg 4	0	0
59	D5	8	Total 8	Mg 8	0	0
59	A8	4	Total 4	Mg 4	0	0
59	AO	7	Total 7	Mg 7	0	0
59	CS	6	Total 6	Mg 6	0	0
59	DB	76	Total 76	Mg 76	0	0
59	AP	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	BA	676	Total Mg 676 676	0	0
59	DQ	2	Total Mg 2 2	0	0
59	BL	2	Total Mg 2 2	0	0
59	C1	6	Total Mg 6 6	0	0
59	CD	30	Total Mg 30 30	0	0
59	A2	1	Total Mg 1 1	0	0
59	D6	3	Total Mg 3 3	0	0
59	DH	5	Total Mg 5 5	0	0
59	DG	5	Total Mg 5 5	0	0
59	BF	2	Total Mg 2 2	0	0
59	DR	4	Total Mg 4 4	0	0
59	BQ	3	Total Mg 3 3	0	0
59	CG	11	Total Mg 11 11	0	0
59	A1	5	Total Mg 5 5	0	0
59	AD	13	Total Mg 13 13	0	0
59	CT	3	Total Mg 3 3	0	0
59	DM	6	Total Mg 6 6	0	0
59	DX	2	Total Mg 2 2	0	0
59	AZ	3	Total Mg 3 3	0	0
59	BK	6	Total Mg 6 6	0	0
59	DW	7	Total Mg 7 7	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	BV	1	Total 1	Mg 1	0	0
59	CM	3	Total 3	Mg 3	0	0
59	D1	12	Total 12	Mg 12	0	0
59	CB	21	Total 21	Mg 21	0	0
59	CW	1	Total 1	Mg 1	0	0
59	DN	2	Total 2	Mg 2	0	0
59	AT	4	Total 4	Mg 4	0	0
59	BH	5	Total 5	Mg 5	0	0
59	CH	6	Total 6	Mg 6	0	0
59	A6	2	Total 2	Mg 2	0	0
59	D2	10	Total 10	Mg 10	0	0
59	B1	4	Total 4	Mg 4	0	0
59	AN	1	Total 1	Mg 1	0	0
59	CR	3	Total 3	Mg 3	0	0
59	AS	3	Total 3	Mg 3	0	0
59	BB	13	Total 13	Mg 13	0	0
59	BM	3	Total 3	Mg 3	0	0
59	BX	1	Total 1	Mg 1	0	0
59	D8	9	Total 9	Mg 9	0	0
59	CK	11	Total 11	Mg 11	0	0
59	A5	3	Total 3	Mg 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	D7	5	Total 5	Mg 5	0	0
59	DD	14	Total 14	Mg 14	0	0
59	BG	7	Total 7	Mg 7	0	0
59	DS	8	Total 8	Mg 8	0	0
59	CF	3	Total 3	Mg 3	0	0
59	A0	1	Total 1	Mg 1	0	0
59	AG	3	Total 3	Mg 3	0	0
59	AH	1	Total 1	Mg 1	0	0
59	DY	4	Total 4	Mg 4	0	0
59	BD	26	Total 26	Mg 26	0	0
59	DT	7	Total 7	Mg 7	0	0
59	BW	8	Total 8	Mg 8	0	0
59	CL	1	Total 1	Mg 1	0	0

- Molecule 60 is ZINC ION (three-letter code: ZN) (formula: Zn).

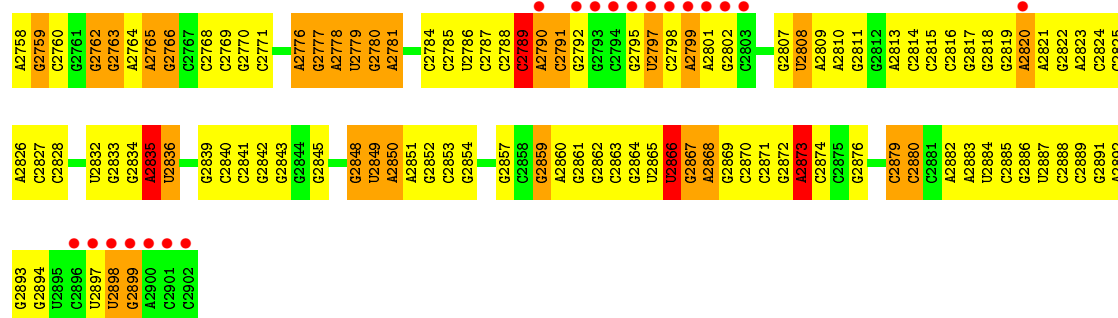
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	BG	1	Total 1	Zn 1	0	0
60	BQ	1	Total 1	Zn 1	0	0
60	CQ	1	Total 1	Zn 1	0	0
60	A4	1	Total 1	Zn 1	0	0
60	CG	1	Total 1	Zn 1	0	0
60	D4	1	Total 1	Zn 1	0	0

- Molecule 61 is water.

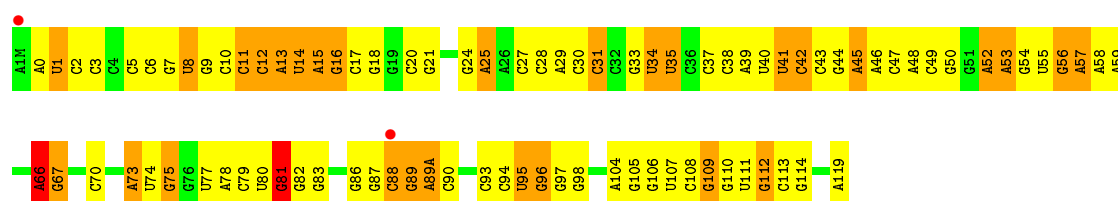
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	BA	3	Total 3	O 3	0	0
61	B1	3	Total 3	O 3	0	0

C1599	C1526	C1463	C1399	A1336	U1273	U1211	G1149	A1086	G1018	G956	G892	U827	A761	C692
C1600	G1526	C1464	G1400	G1337	A1274	G1212	C1150	G1087	U1019	A957	C893	U828	U762	C693
G1601	G1527	G1465	G1401	G1338	A1275	A1213	G1151	A1088	A1020	U958	C894	A829	U763	
U1602	G1466	G1466	C1402	G1339	A1276	A1214	C1152	G1089	A1021	A959	U895	G830	A764	C698
A1603	G1529	C1467	C1403	U1340	G1277	G1215	G1153	U1090	G1022	A960	A896	G831		A699
C1604	G1530	C1468	C1404	U1341	A1278	G1216	G1154	G1091	U1023	C961	C897	G832	G768	G700
C1605	U1405	A1469	U1405	A1342	G1279		A1155	C1092	G1024	G962	C898	U833	G769	
G1606	U1406	G1470	U1406	A1343	G1280	G1219	A1156	G1093	G1025	U963	A899		G770	G704
G1607	C1532	A1471	C1407	G1344	G1281	A1220	G1157	U1094	U1026	C964	A900	G836		A705
A1608	G1534	A1472	C1408	G1345	U1282	C1221	C1158	A1095	A1027	G965	A901	U773	U774	A706
C1609	U1535	G1473	C1409	G1346	G1283		U1159	A1096	G1028	G966	G902	C837	A774	G707
A1610	A1536	C1474	G1410	G1347	A1284	G1224	G1160	U1097	A1029	C967	G903	U839	G775	G708
C1611	C1537	G1475	C1411	G1348	G1285	C1225	G1161	A1098	G1030	G968	C904	U776	G776	U709
C1612	G1538	C1476	A1412	A1349	A1286	G1226	G1162	G1099	G1031	U969		A777	U777	G710
G1613	G1539	A1477	G1413		A1287				G1032	C970	U907	G778	G778	
A1614	U1540	G1478		U1352	U1288	U1227	G1163	C1100	A1032	C971	C908	G779	U714	U714
C1615	U1541	G1479	C1416	A1353	G1288	G1228	G1164	U1101	U1033	C972	G945	G780	G715	G715
A1616	G1542	G1480	C1417	A1354	C1290	G1229	U1165	C1102	A1034	G973	U847	G781	A716	A716
C1617	A1543	U1482	G1418	G1355	C1291	G1230	U1167	A1103	G1039	G974	A911	A782	G717	G717
A1618	C1544	G1483	A1419	G1356	U1292	G1231	G1168	U1105	C1040	C974A	C912	A783	A718	A718
G1619	U1545	G1484	U1420	G1357	G1293		G1170	G1106	G1042	G975	C914	A784	C720	C720
	A1546A	G1485	G1421	G1358	U1294	G1232	G1171	U1108	C1043	G976	C915	G785	C786	C721
C1625	C1546	A1486	G1422	A1359	C1295		G1173	G1109	A1045	G977	G916	G787	C786	G721
G1626	C1547	G1487	G1423	A1360	G1296	G1236	G1174	G1110	A1046	G978	G917	G854	A788	A722
		U1488	G1424	G1361	C1297	G1237	A1175	G1111	G1047	A980	A918	G855	A789	U724
U1629	A1554	U1489		C1362	G1298	G1238	U1176	A1112	G1048	A981	G919	C856	C790	G725
G1630	G1555	G1491	A1427	G1363	G1299	G1239	G1177	U1113	A1049	A982	C920	C856	C791	G726
A1632	C1556	G1492	C1428	G1364	U1300	U1240	A1177	U1113	C1049	A983	G921	U858	G792	A727
C1633	C1557	C1493	G1429	A1365	A1301	A1241	C1178	G1114	A1050		U922	G859	A793	G728
A1634	G1558	U1494	C1430	A1366	A1302	A1242	C1179	G1115		C986	C923	U860	G794	G729
G1635	C1559	A1495	U1431	A1367	G1303	G1243	C1180	C1116	U1053	G987	C924	G795	C795	G730
	U1560	U1496	G1432	G1368		G1244	C1181	G1117	A1054	A988	C925	G862	C796	
C1638	C1564	U1497	U1433	G1369	A1308	G1245	C1182	C1118	U1056	G989	G926	G863	C797	G733
U1640	G1565	C1498	A1434	C1370	G1309	A1246	G1186	G1122	A1057	G990	A926	A863	A800	A734
A1641	A1566	G1499	G1435	U1372	G1310	G1247	G1187	G1125	U1058	C992	G929	C865	G801	A735
G1642	A1567	C1500	A1439	A1373	G1311	U1249	U1188	G1126	G1059	C993	G931	C866	A802	C736
C1643	G1568	C1501	G1440	G1374	U1313	G1250	A1189	A1126	U1060	C994	G932	U868	U803	C737
A1644	G1569	U1503	G1441	C1375	C1314	C1251	G1190	A1127	U1061	C995	A933	U869	A804	G738
G1645	C1570	C1504	G1442	G1376	G1315	G1252	G1191	A1128	G1062	A996	A870	C806	G805	U740
C1646		U1505	G1443	G1377	U1316	A1253	G1192	A1129	C1063	C997	U937	U871	G741	
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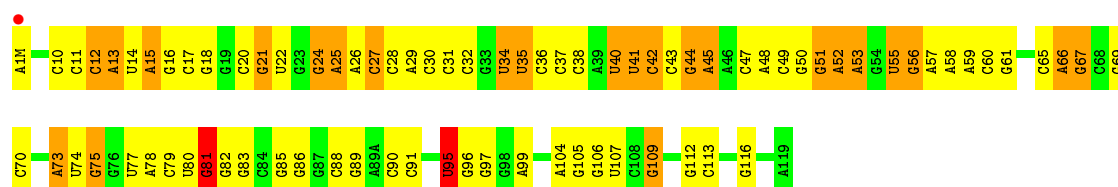
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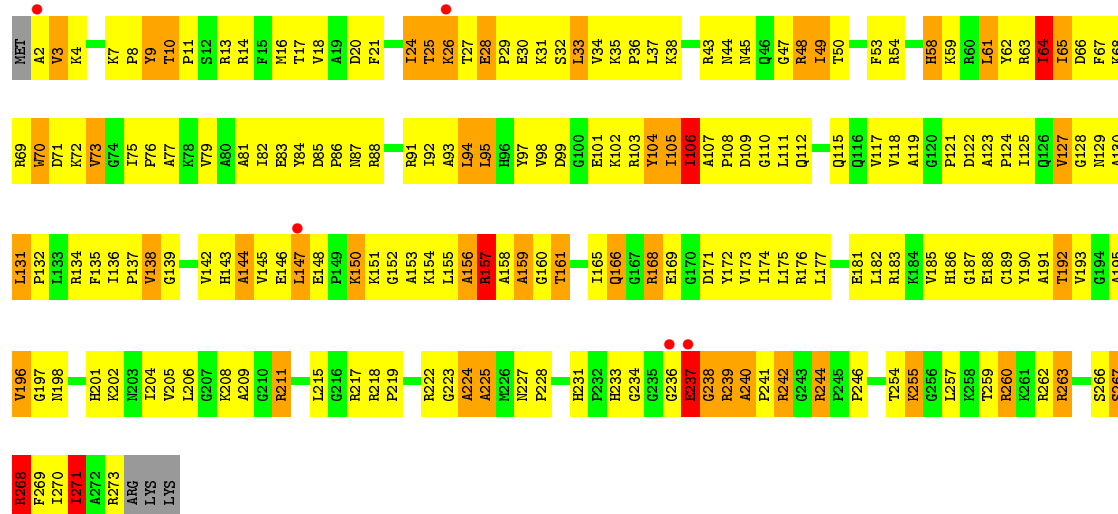
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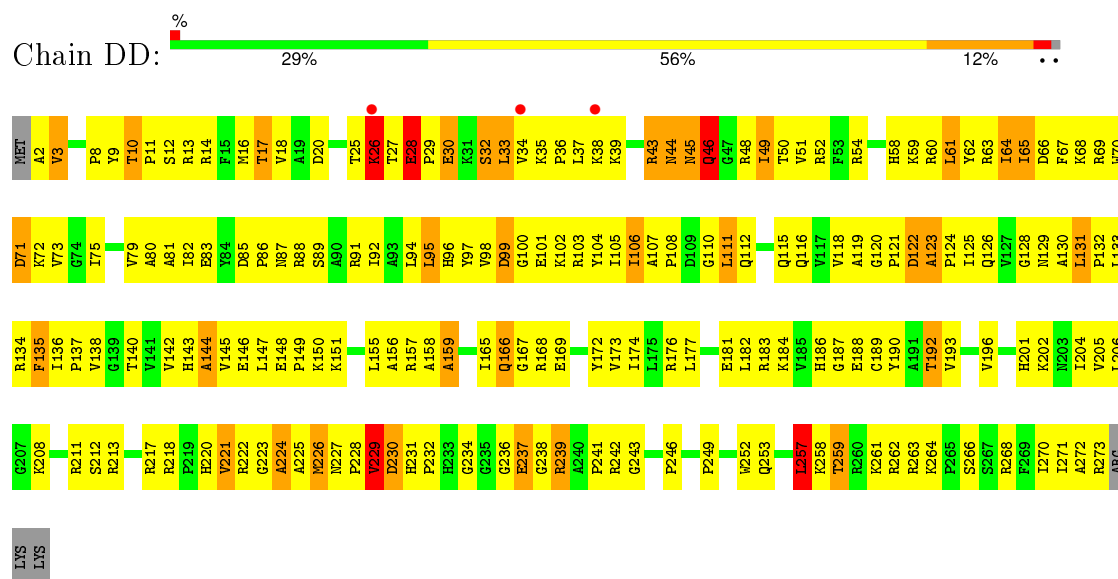
• Molecule 2: 5S RIBOSOMAL RNA



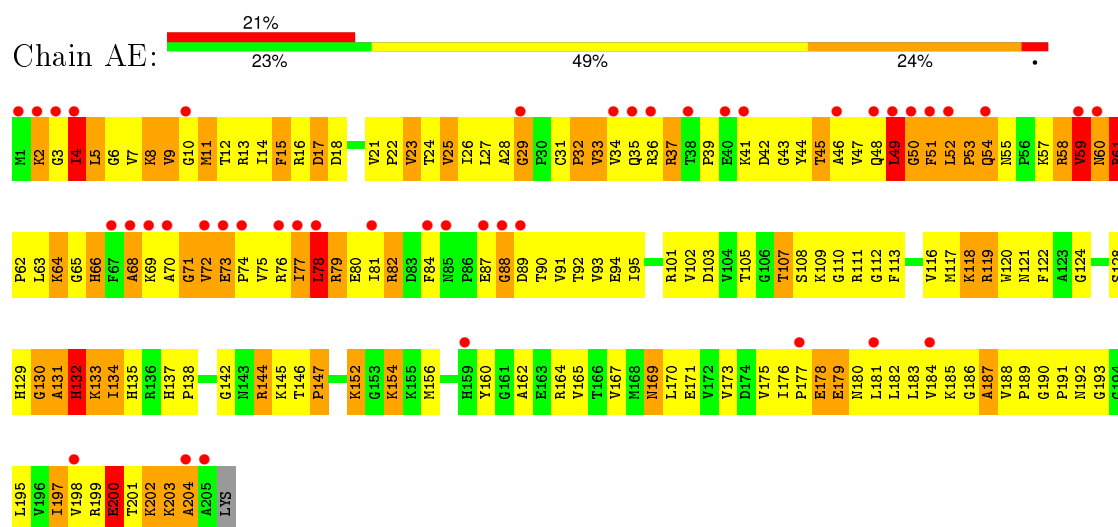
• Molecule 3: 50S RIBOSOMAL PROTEIN L2



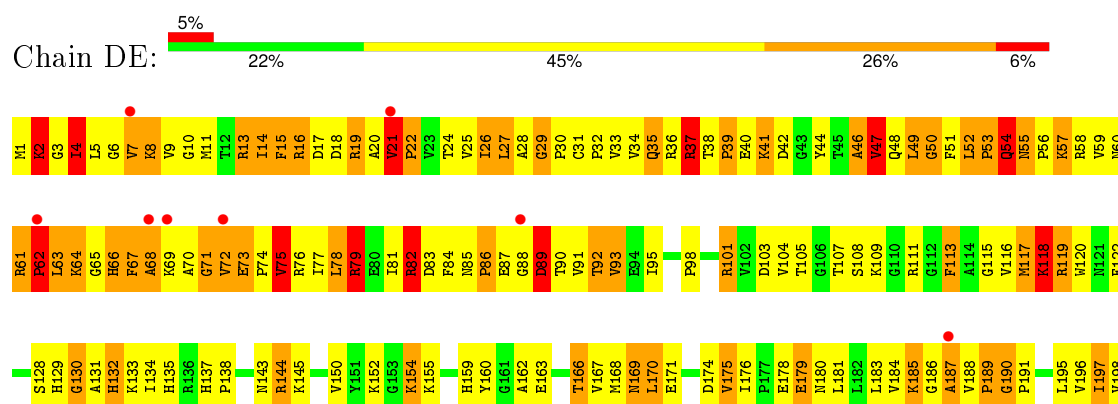
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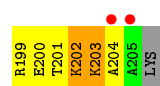


• Molecule 4: 50S RIBOSOMAL PROTEIN L3

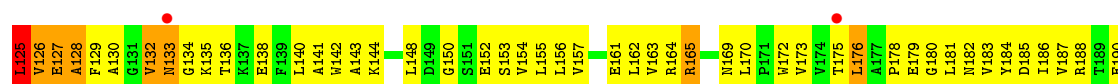


• Molecule 4: 50S RIBOSOMAL PROTEIN L3

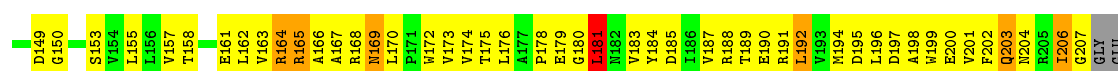
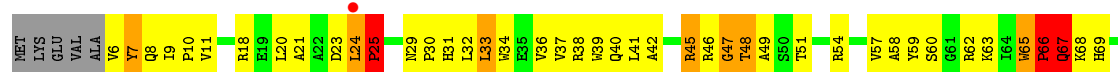




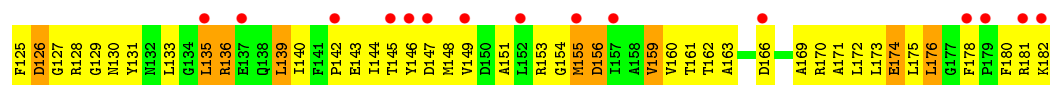
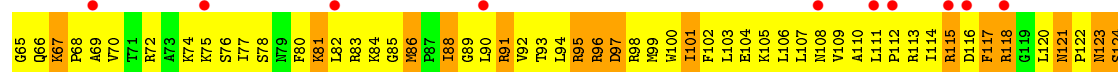
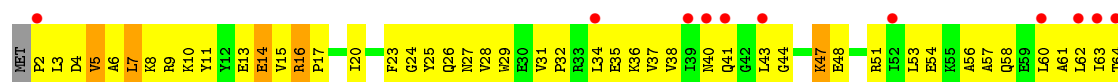
• Molecule 5: 50S RIBOSOMAL PROTEIN L4



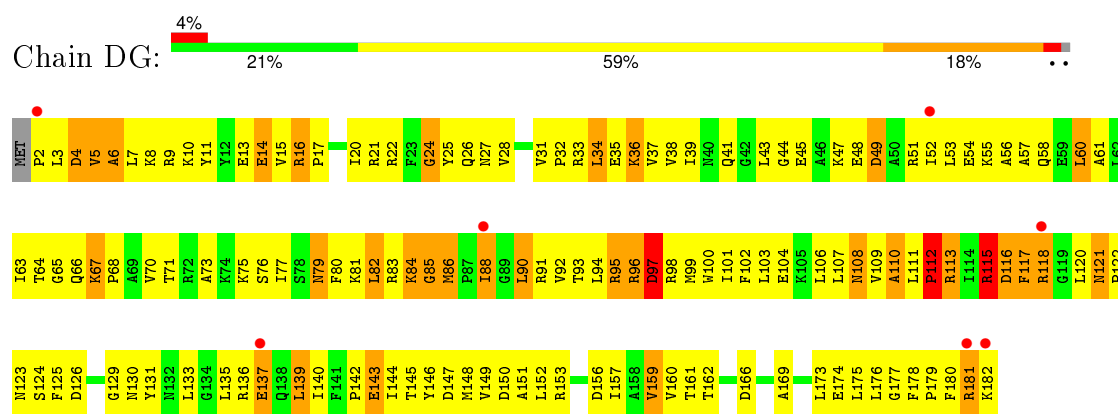
• Molecule 5: 50S RIBOSOMAL PROTEIN L4



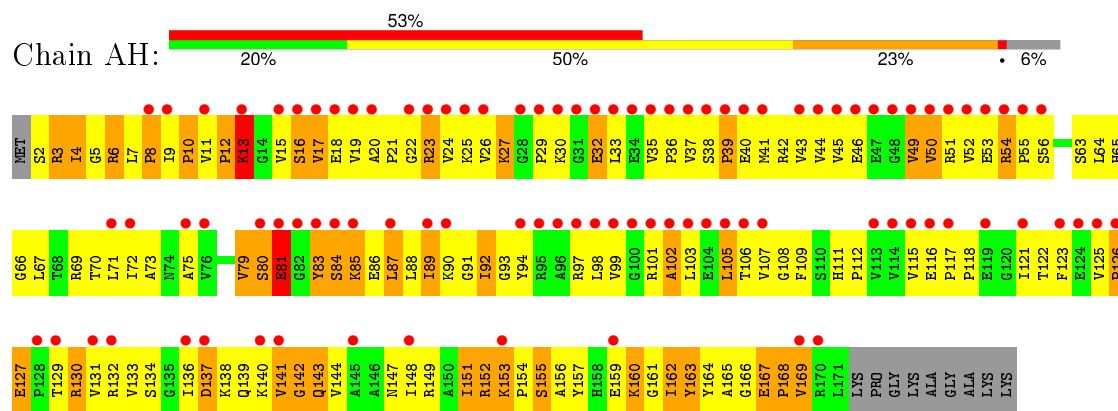
• Molecule 6: 50S RIBOSOMAL PROTEIN L5



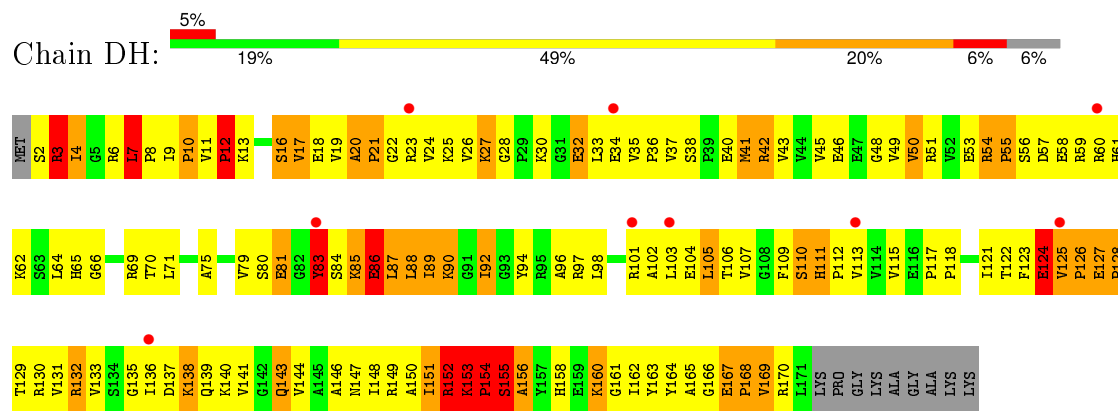
• Molecule 6: 50S RIBOSOMAL PROTEIN L5



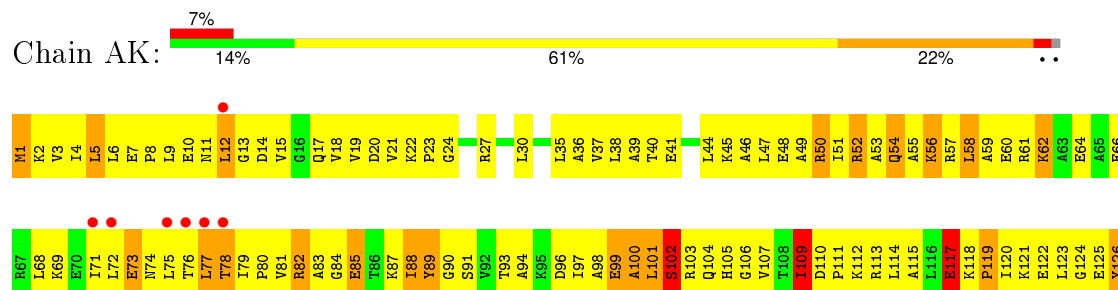
- Molecule 7: 50S RIBOSOMAL PROTEIN L6

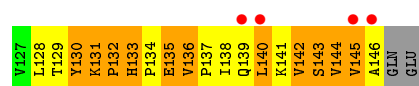


- Molecule 7: 50S RIBOSOMAL PROTEIN L6

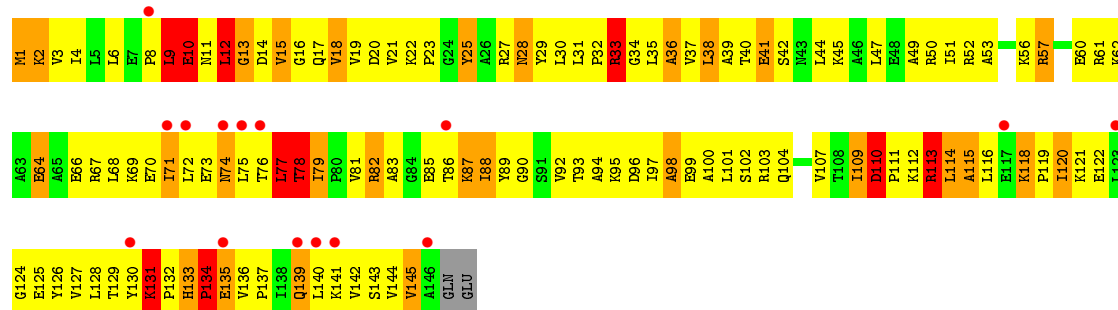
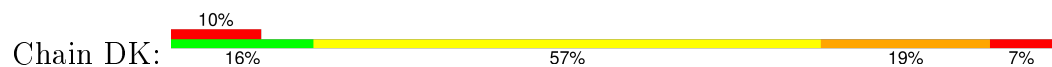


- Molecule 8: 50S RIBOSOMAL PROTEIN L9

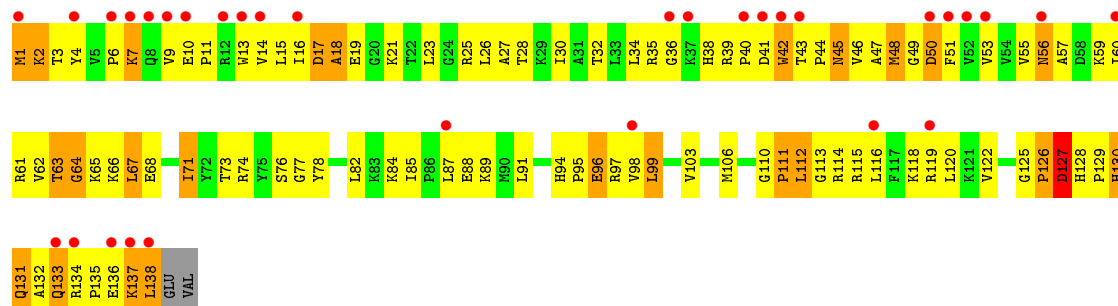




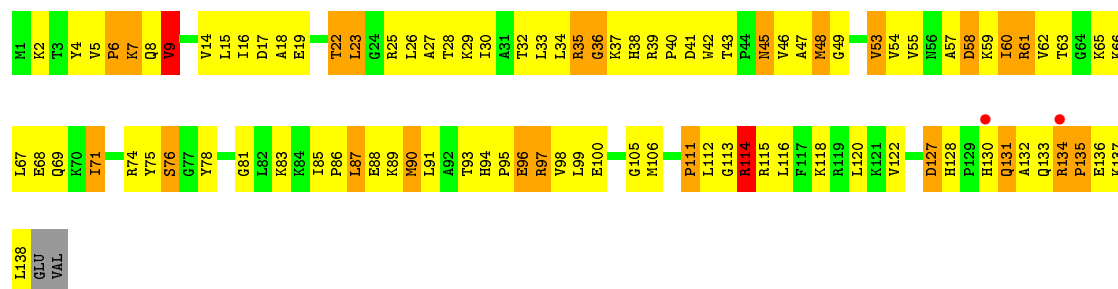
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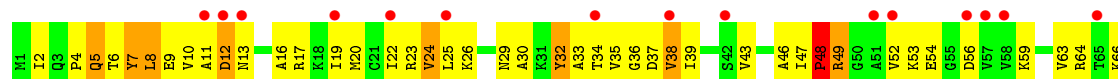
• Molecule 9: 50S RIBOSOMAL PROTEIN L13

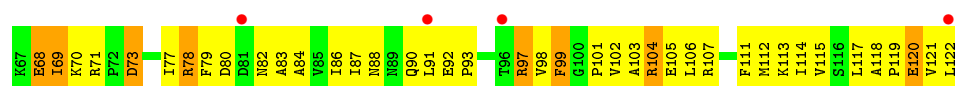


• Molecule 9: 50S RIBOSOMAL PROTEIN L13



• Molecule 10: 50S RIBOSOMAL PROTEIN L14

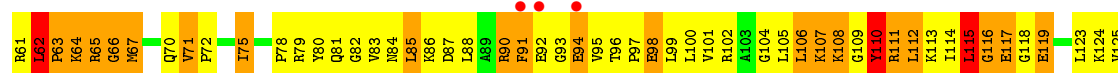
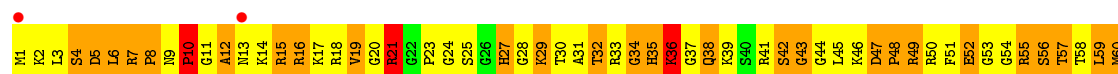
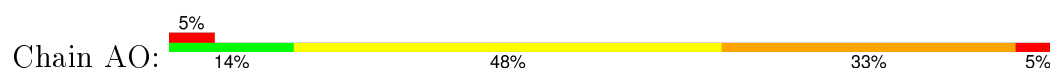




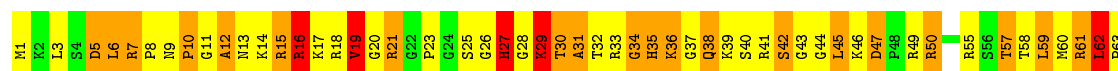
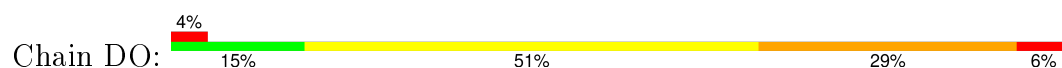
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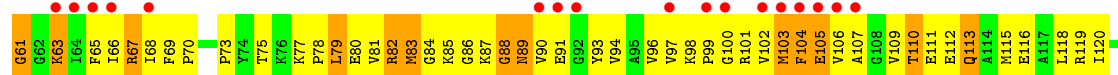
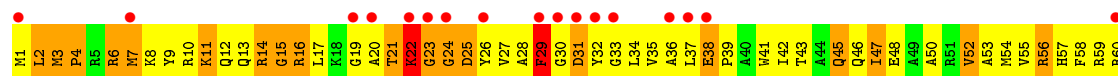
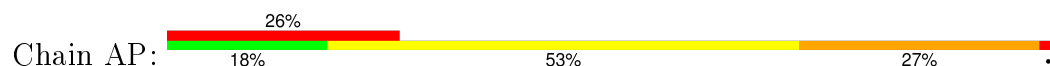
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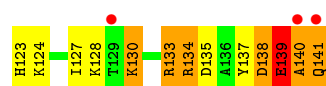


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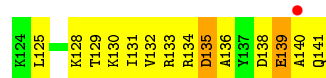
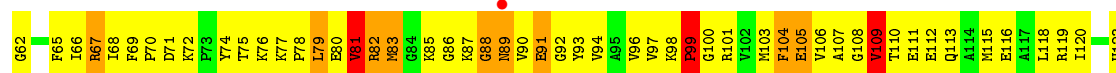


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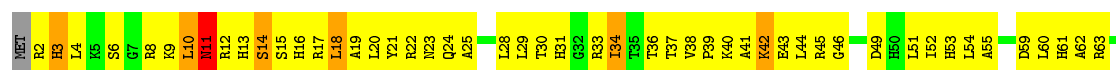
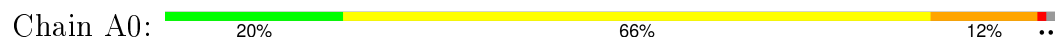




• Molecule 12: 50S RIBOSOMAL PROTEIN L16



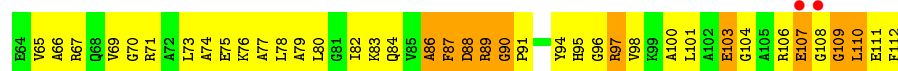
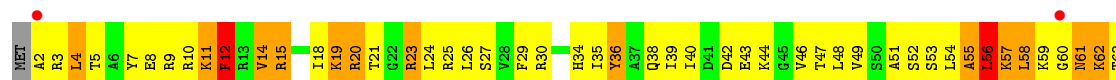
• Molecule 13: 50S RIBOSOMAL PROTEIN L17



• Molecule 13: 50S RIBOSOMAL PROTEIN L17

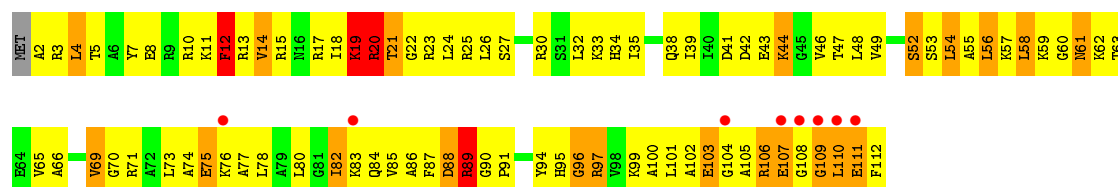


• Molecule 14: 50S RIBOSOMAL PROTEIN L18

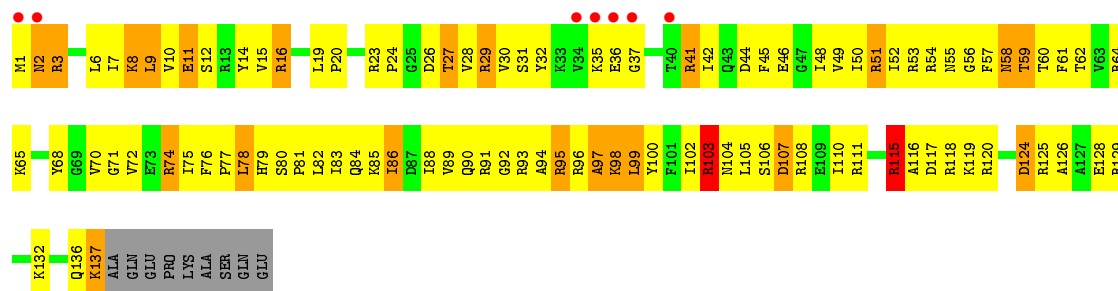


• Molecule 14: 50S RIBOSOMAL PROTEIN L18

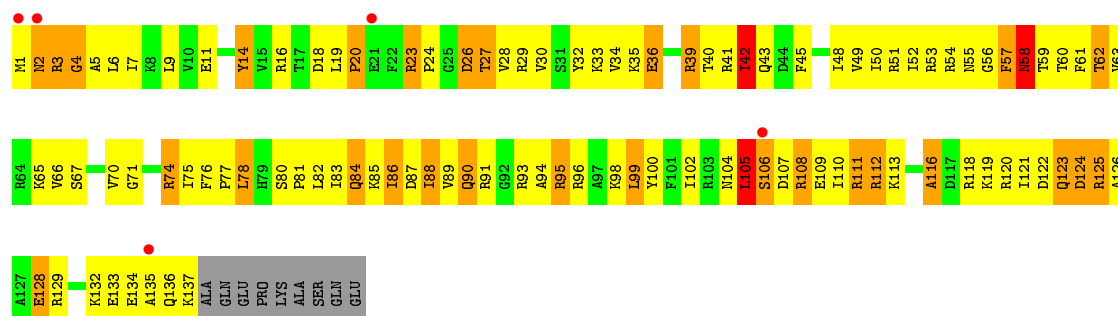




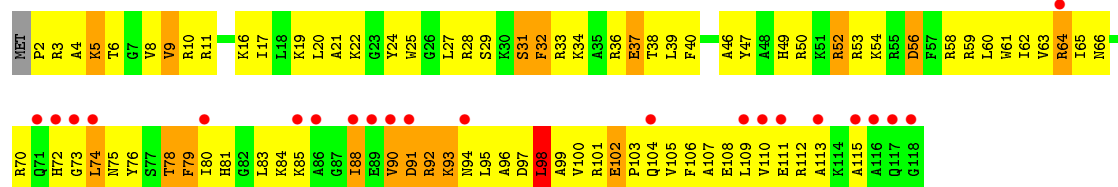
• Molecule 15: 50S RIBOSOMAL PROTEIN L19



• Molecule 15: 50S RIBOSOMAL PROTEIN L19

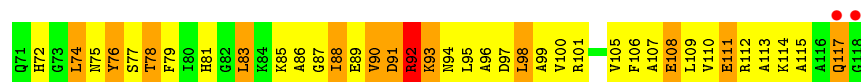


• Molecule 16: 50S RIBOSOMAL PROTEIN L20

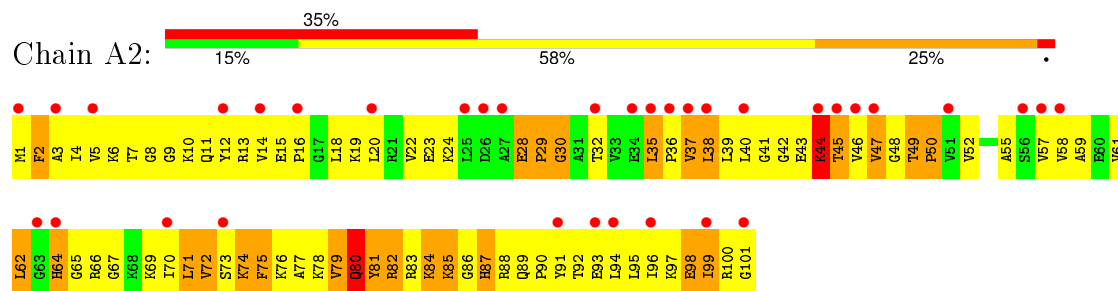


• Molecule 16: 50S RIBOSOMAL PROTEIN L20

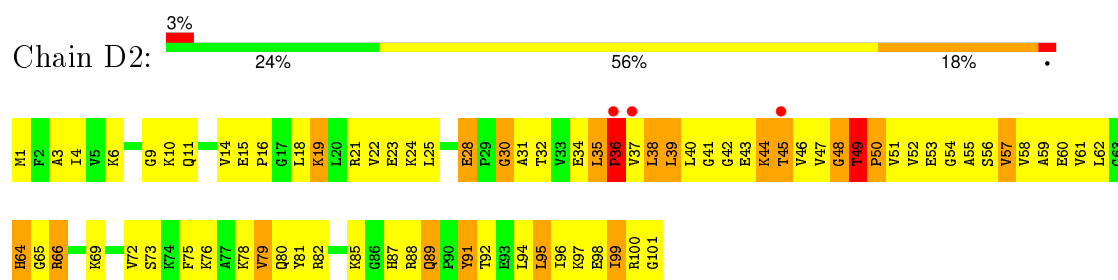




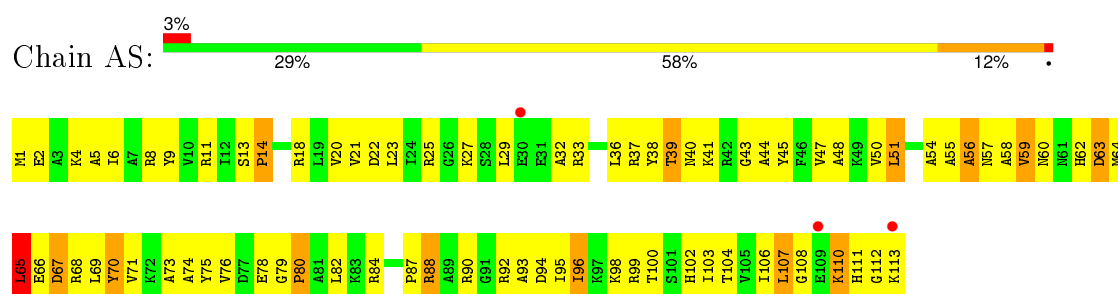
• Molecule 17: 50S RIBOSOMAL PROTEIN L21



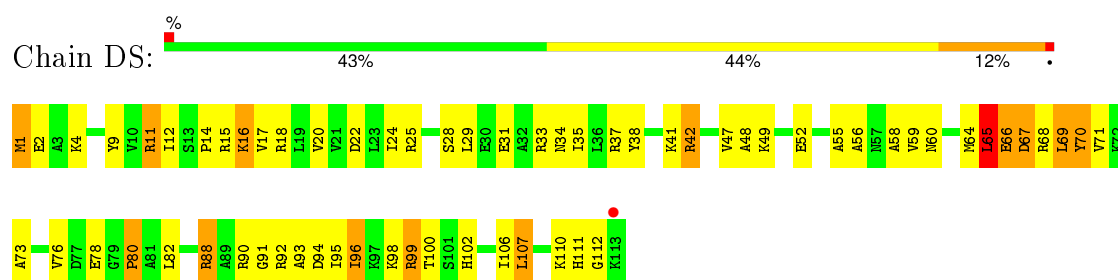
• Molecule 17: 50S RIBOSOMAL PROTEIN L21



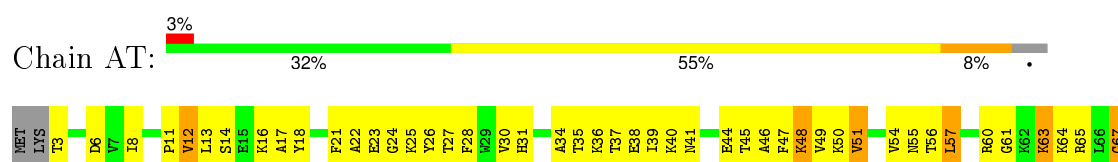
• Molecule 18: 50S RIBOSOMAL PROTEIN L22

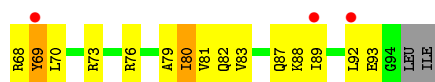


• Molecule 18: 50S RIBOSOMAL PROTEIN L22



• Molecule 19: 50S RIBOSOMAL PROTEIN L23





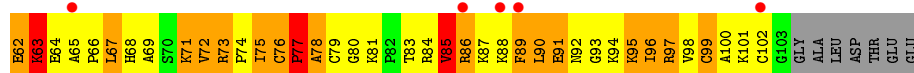
• Molecule 19: 50S RIBOSOMAL PROTEIN L23

Chain DT: 35% 51% 9%



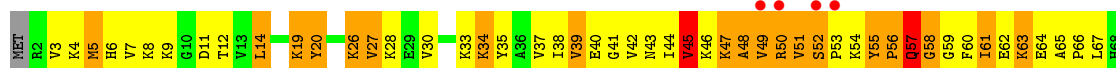
• Molecule 20: 50S RIBOSOMAL PROTEIN L24

Chain AU: 15% 8% 46% 30% 8% 7%



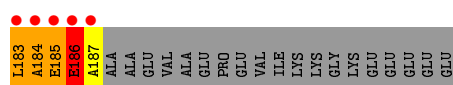
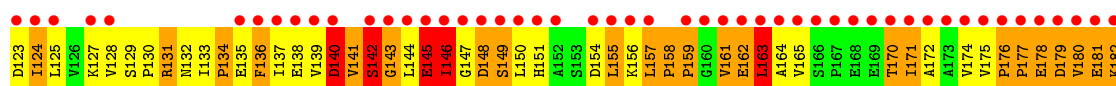
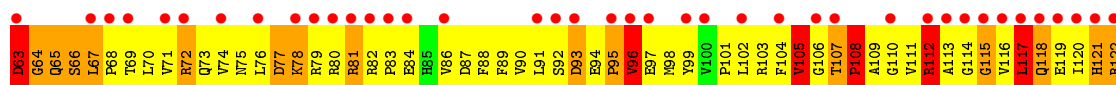
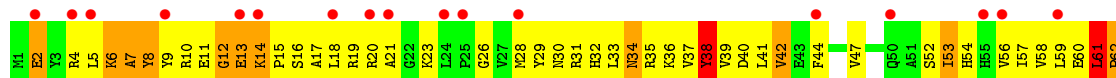
• Molecule 20: 50S RIBOSOMAL PROTEIN L24

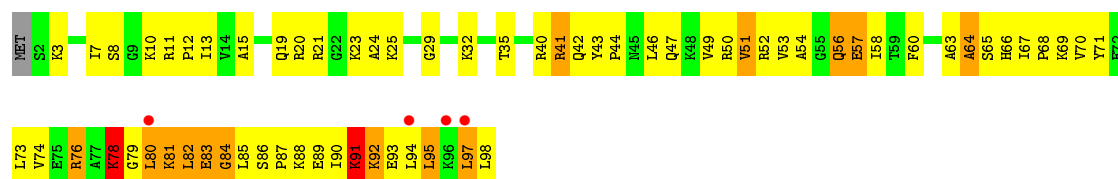
Chain DU: 5% 20% 42% 27% 7%



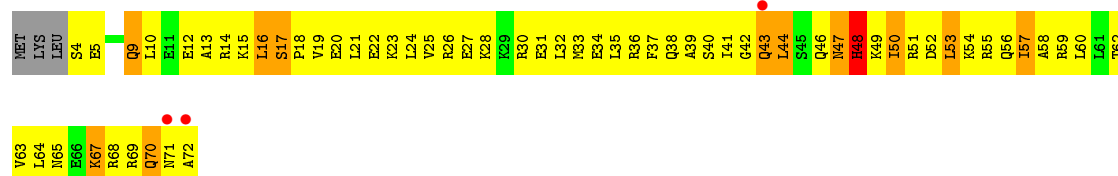
• Molecule 21: 50S RIBOSOMAL PROTEIN L25

Chain AV: 12% 54% 47% 25% 7% 9%

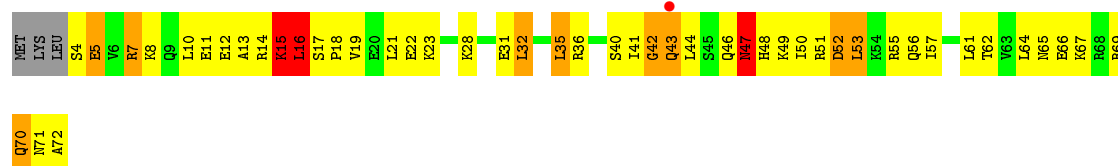




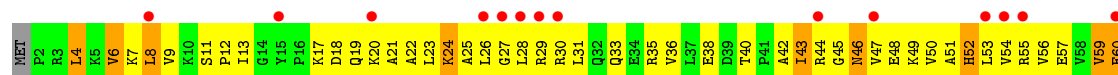
• Molecule 24: 50S RIBOSOMAL PROTEIN L29



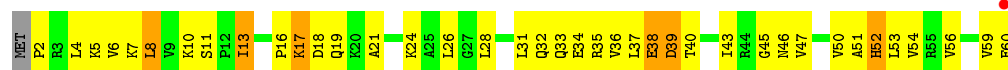
• Molecule 24: 50S RIBOSOMAL PROTEIN L29



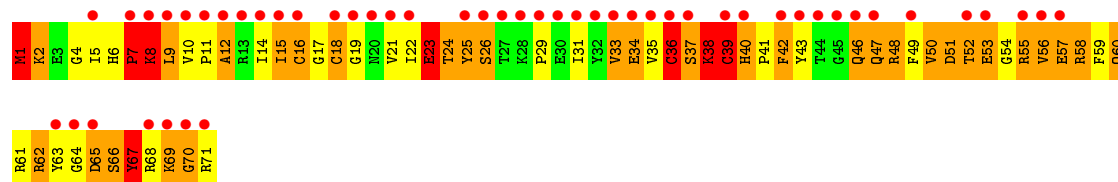
• Molecule 25: 50S RIBOSOMAL PROTEIN L30



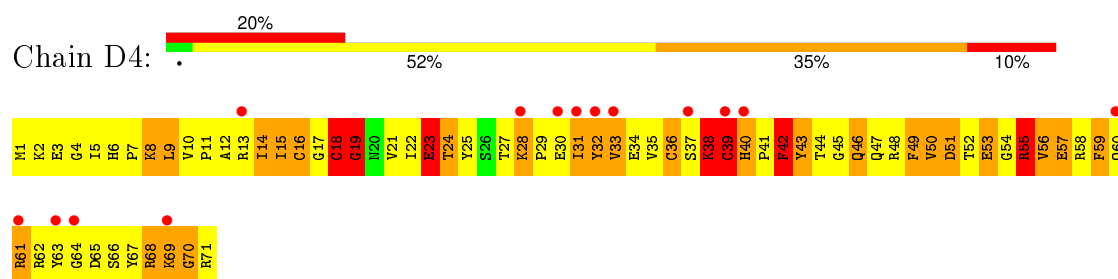
• Molecule 25: 50S RIBOSOMAL PROTEIN L30



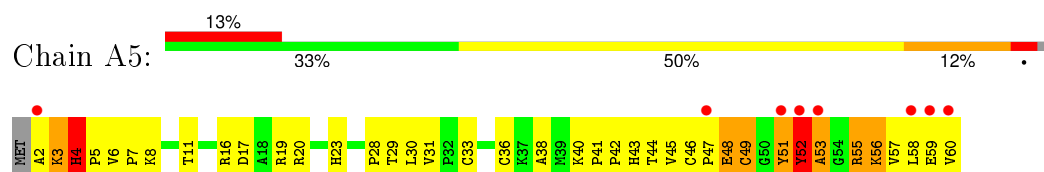
• Molecule 26: 50S RIBOSOMAL PROTEIN L31



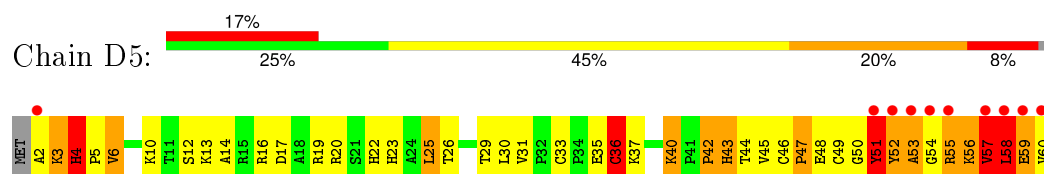
• Molecule 26: 50S RIBOSOMAL PROTEIN L31



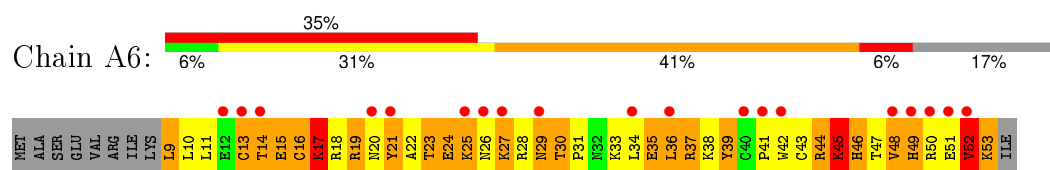
• Molecule 27: 50S RIBOSOMAL PROTEIN L32



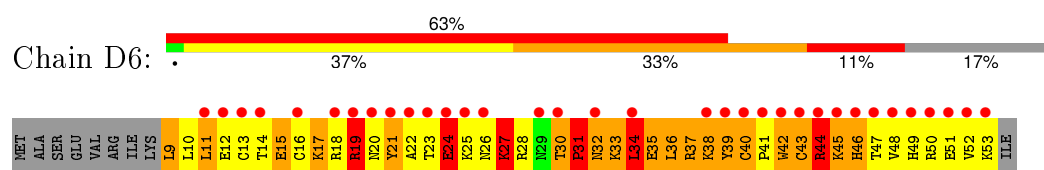
• Molecule 27: 50S RIBOSOMAL PROTEIN L32



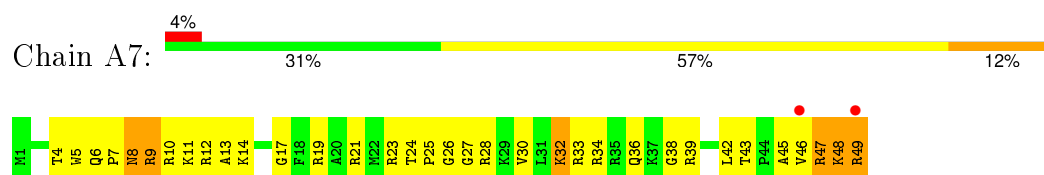
• Molecule 28: 50S RIBOSOMAL PROTEIN L33



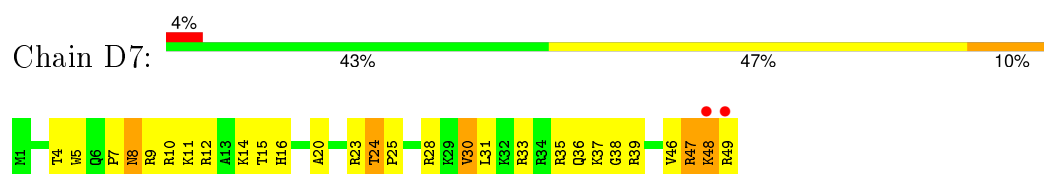
• Molecule 28: 50S RIBOSOMAL PROTEIN L33



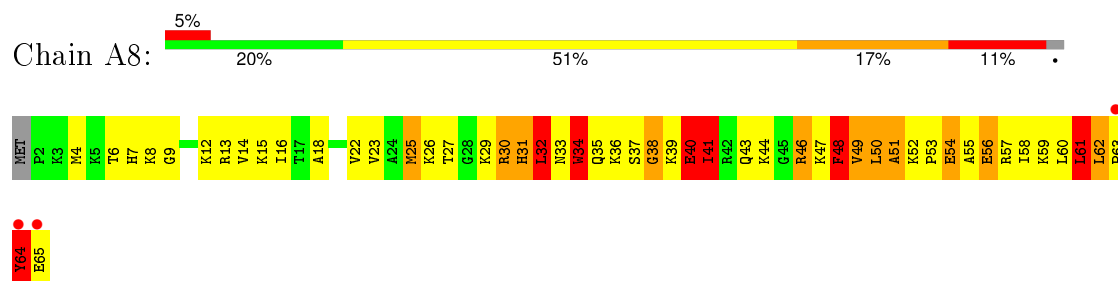
• Molecule 29: 50S RIBOSOMAL PROTEIN L34



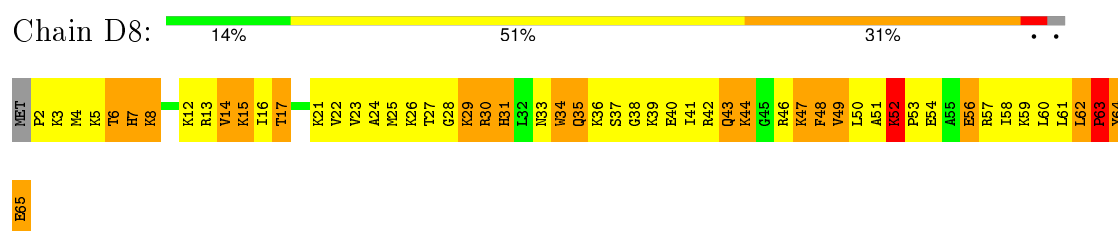
• Molecule 29: 50S RIBOSOMAL PROTEIN L34



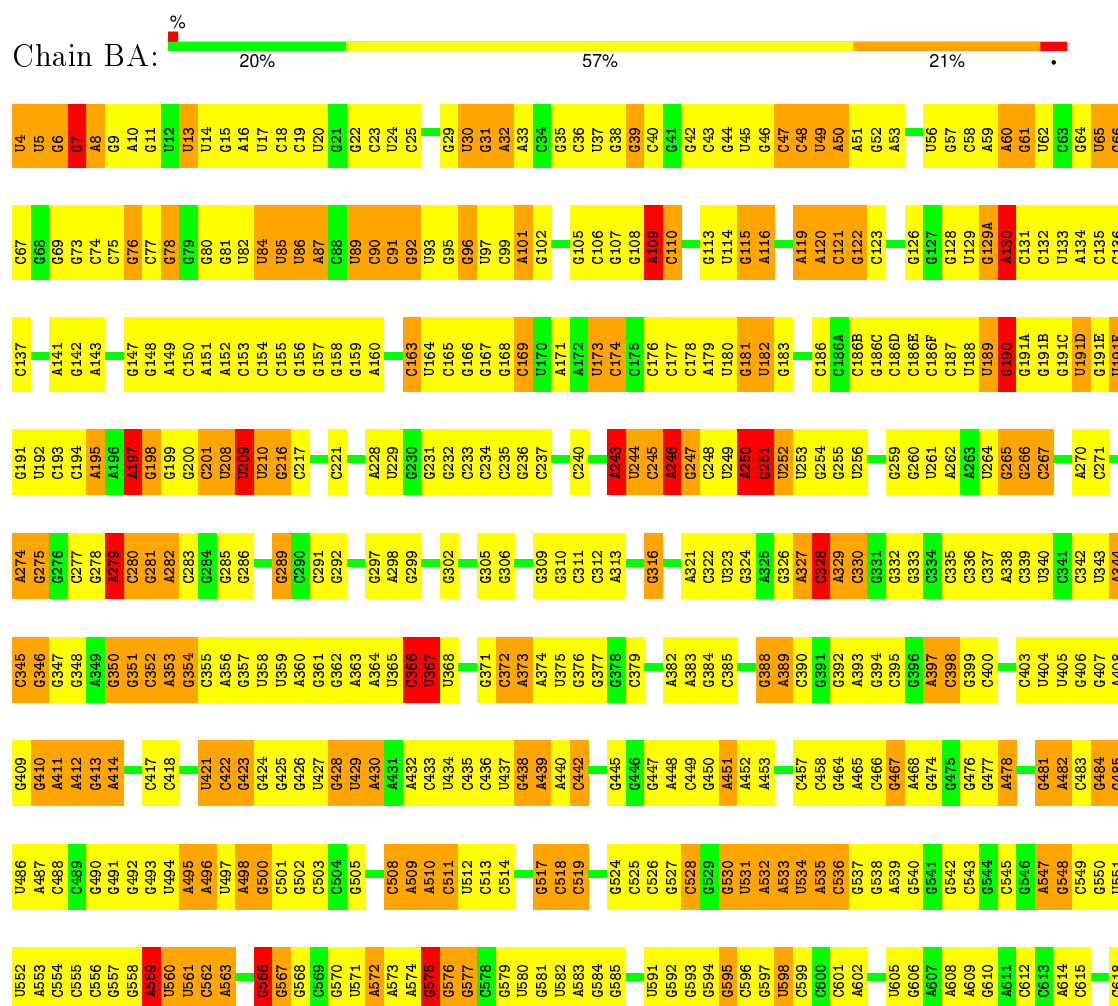
- Molecule 30: 50S RIBOSOMAL PROTEIN L35



- Molecule 30: 50S RIBOSOMAL PROTEIN L35

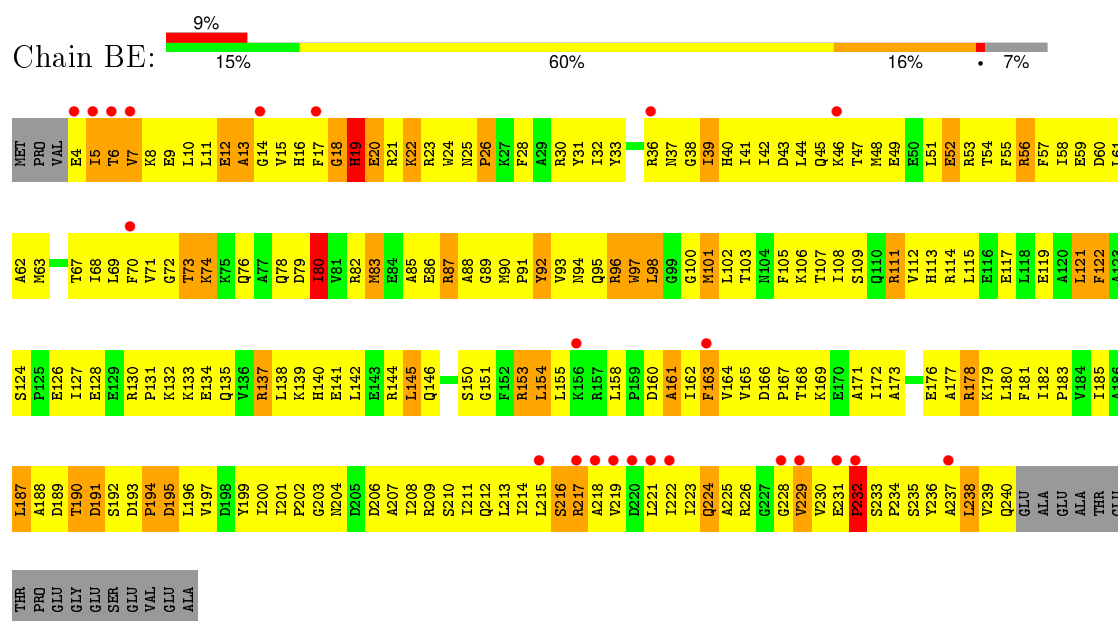


- Molecule 31: 16S ribosomal RNA

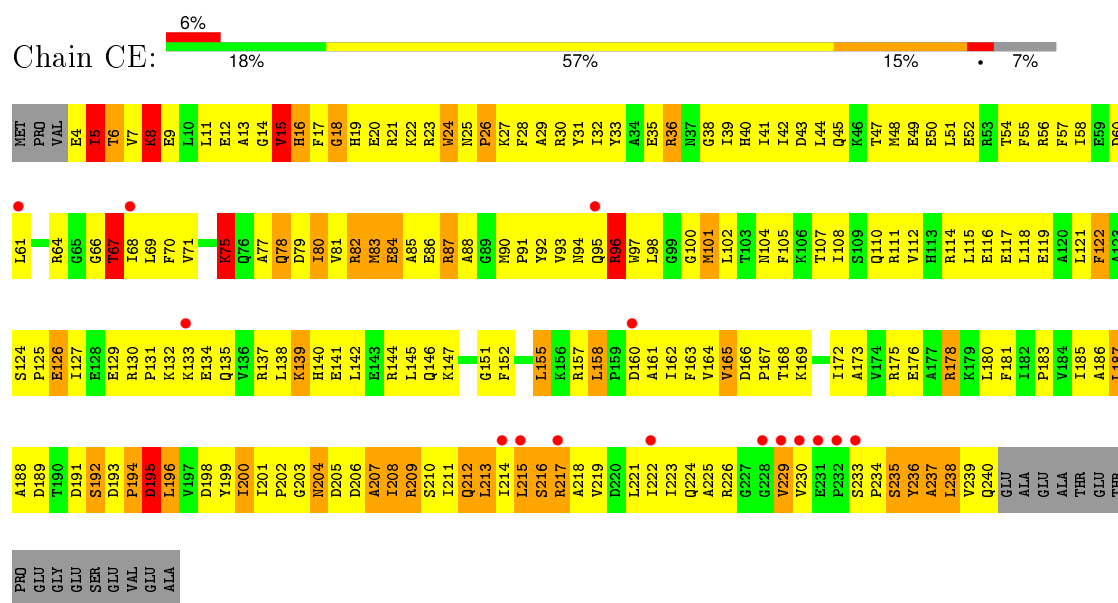


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C1487	C1488	C1489	U1390	C1389	C1327	C1263	C1203	G1139	G1076	A1016	G954	A889	G818	C747	A687	A621	
G1461	G1462	G1331	U1391	C1390	C1267	C1204	U1205	C1141	G1079	U1020	U956	U891	U820	C749	G689	C623	
C1463	C1464	G1332	U1392	C1391	C1268	C1205	U1206	G1142	A1080	G1022	A958	A892	G821	G750	G690	C624	
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G1470	G1471	G1337	C1397	C1396	G1274	G1147	U1211	U1148	U1085	C1027	C963	C899	G827	C756	A696	C630	
G1472	G1473	G1338	C1398	C1397	G1275	G1148	U1212	U1149	U1086	C1028	A964	A900	G829	U757	U697	C631	
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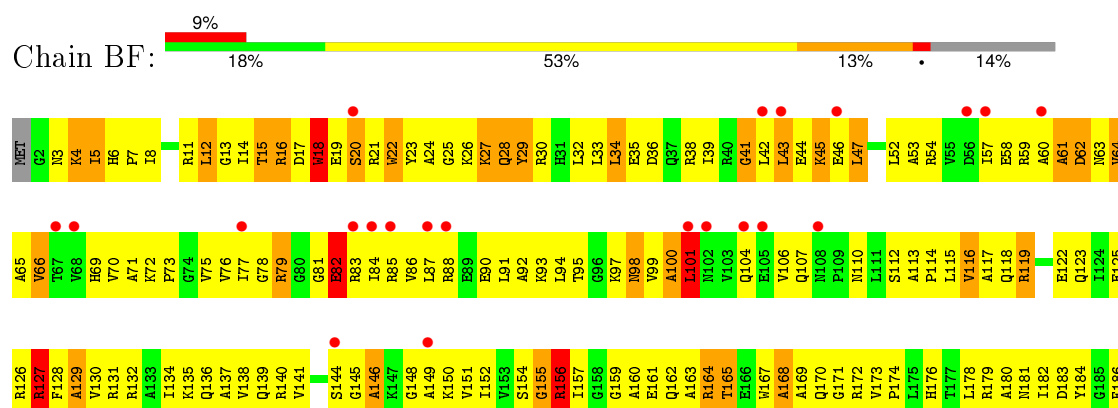
- Molecule 32: 30S ribosomal protein S2



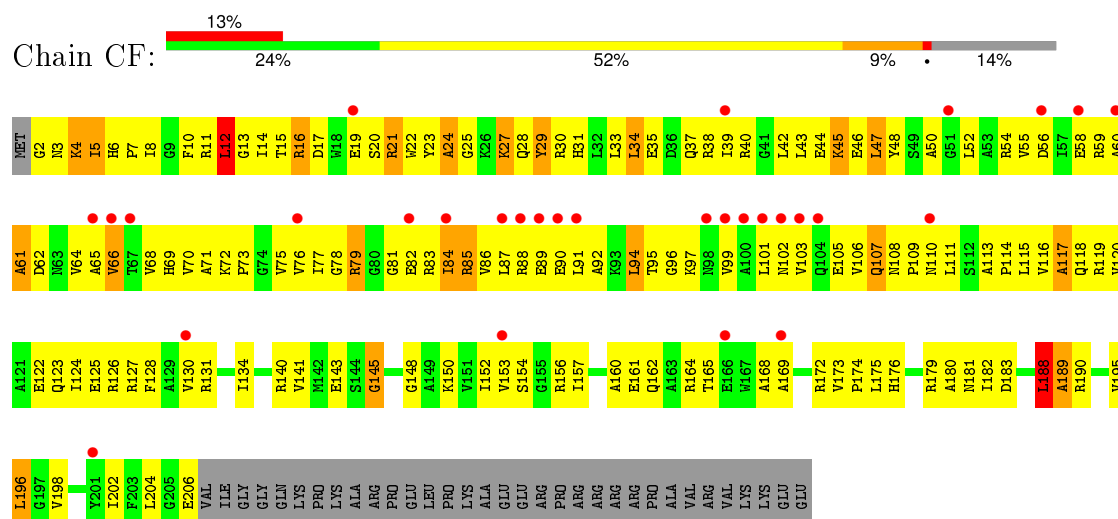
• Molecule 32: 30S ribosomal protein S2



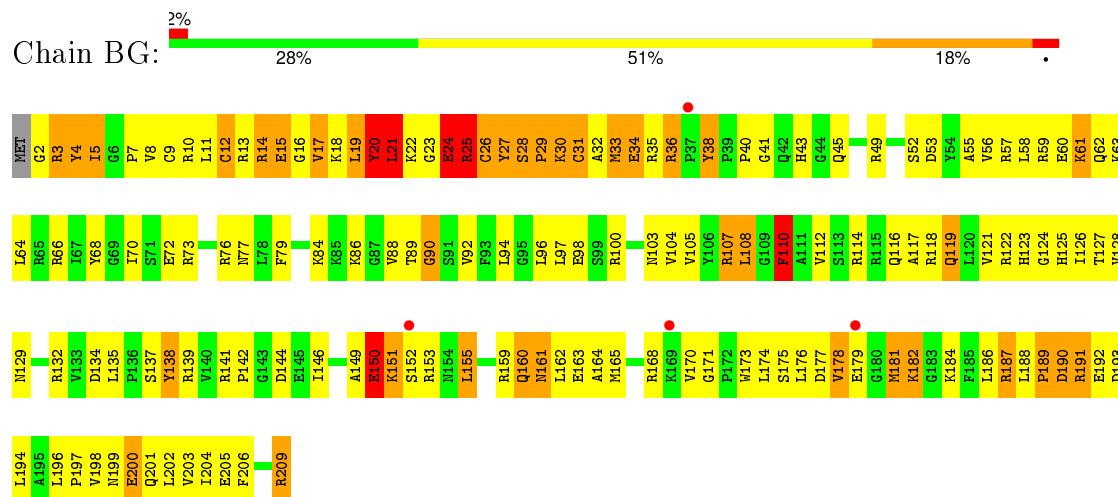
• Molecule 33: 30S ribosomal protein S3



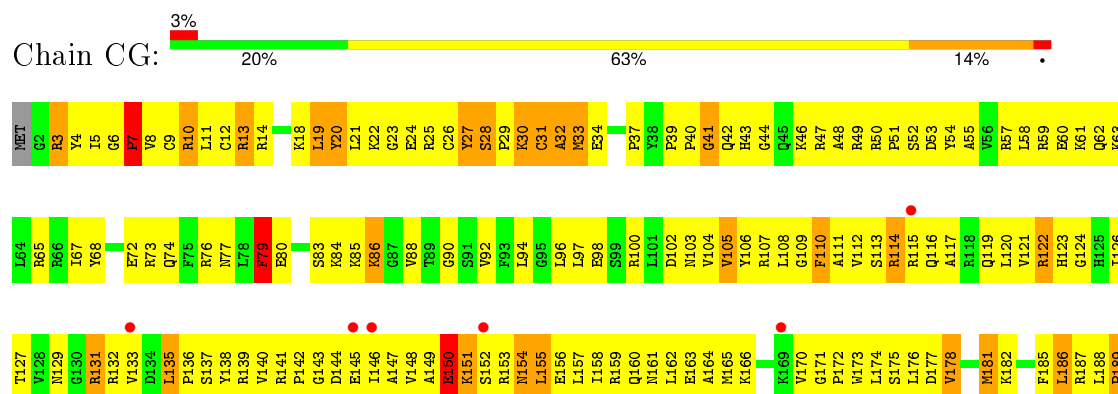
- Molecule 33: 30S ribosomal protein S3



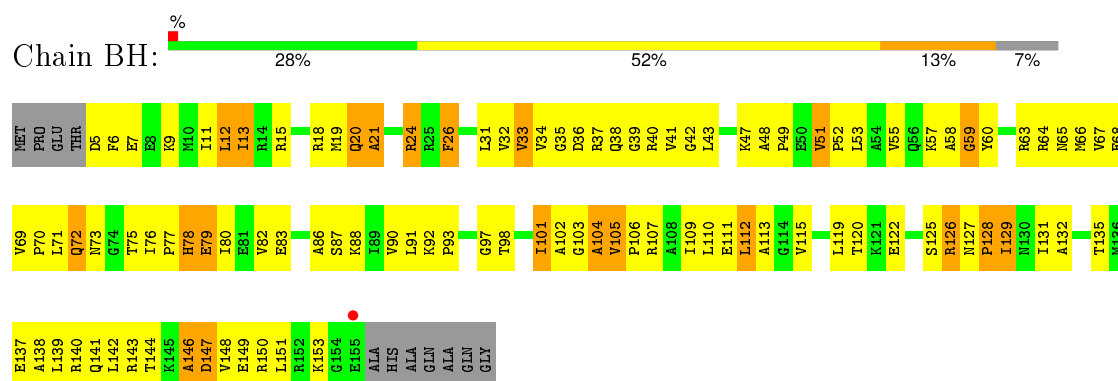
- Molecule 34: 30S ribosomal protein S4



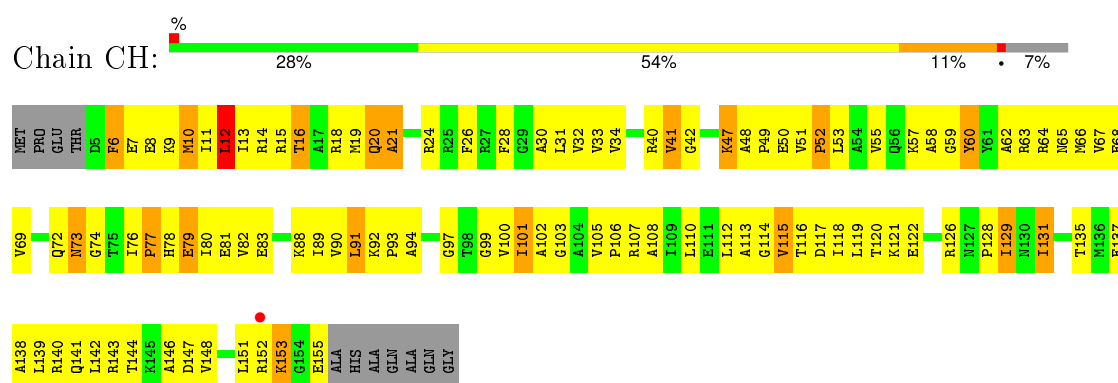
- Molecule 34: 30S ribosomal protein S4



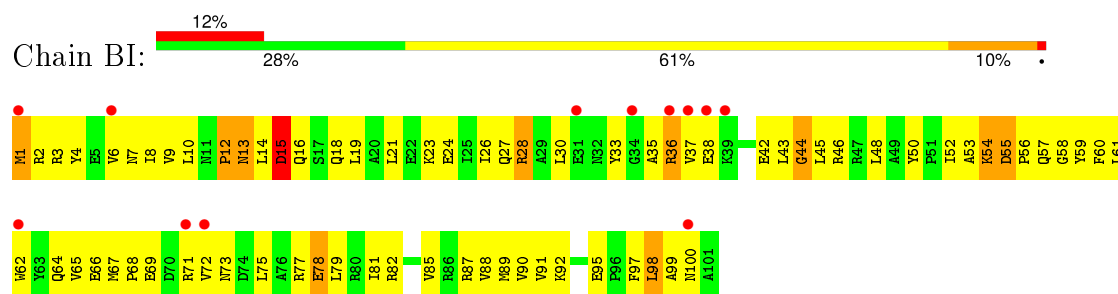
- Molecule 35: 30S ribosomal protein S5



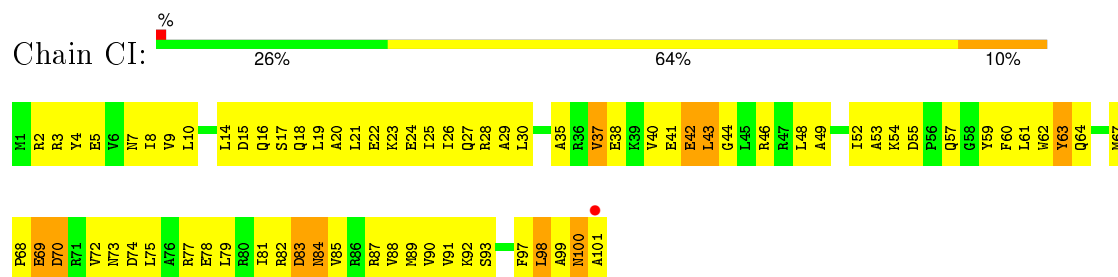
- Molecule 35: 30S ribosomal protein S5



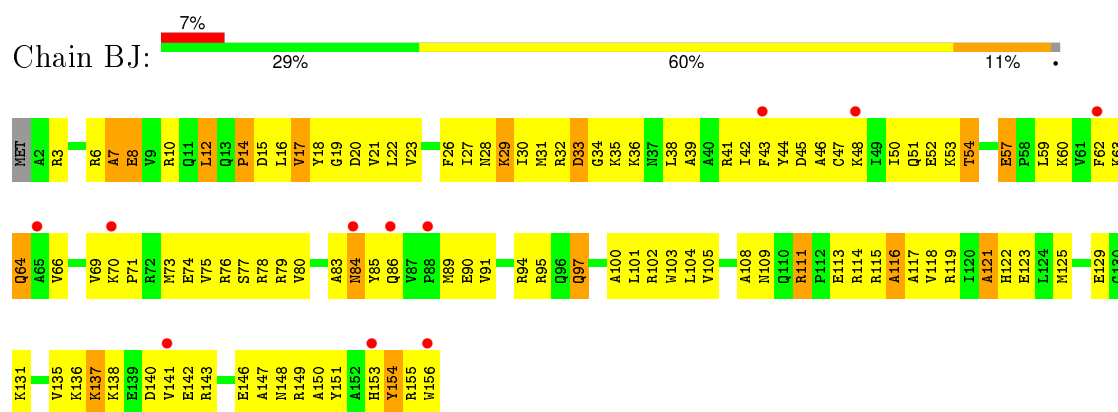
- Molecule 36: 30S ribosomal protein S6



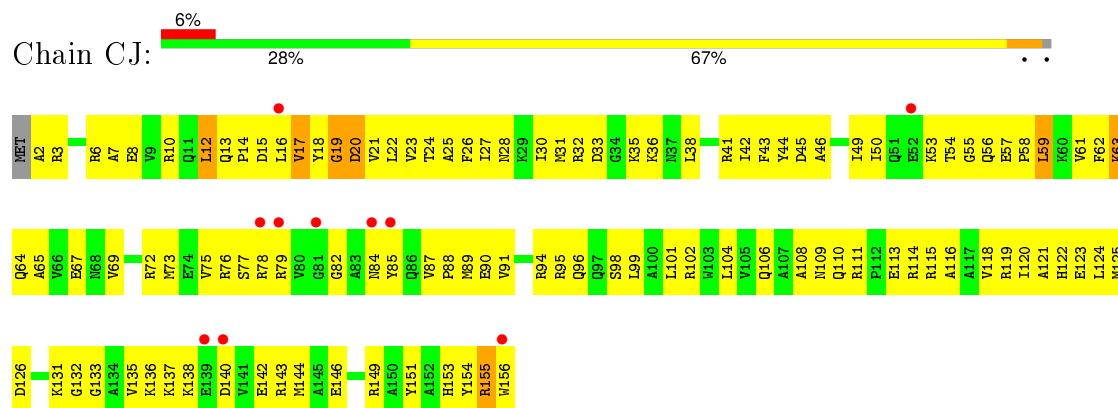
- Molecule 36: 30S ribosomal protein S6



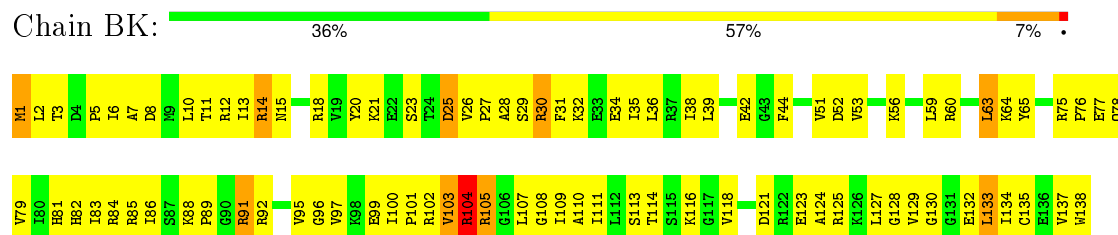
- Molecule 37: 30S ribosomal protein S7



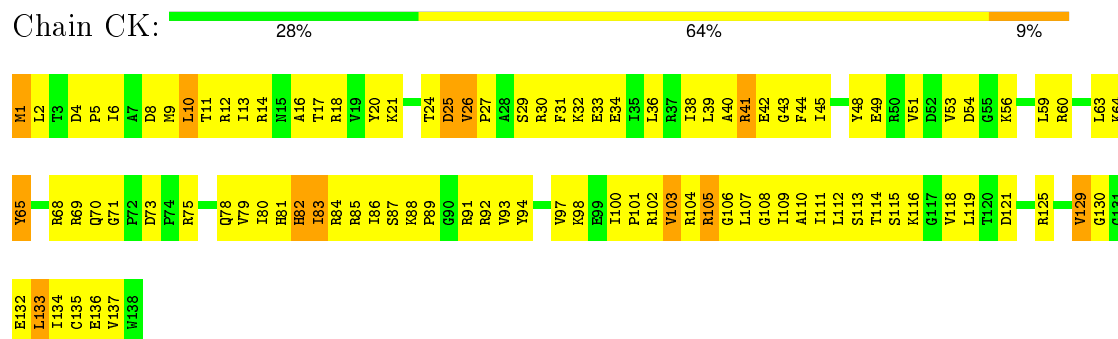
- Molecule 37: 30S ribosomal protein S7



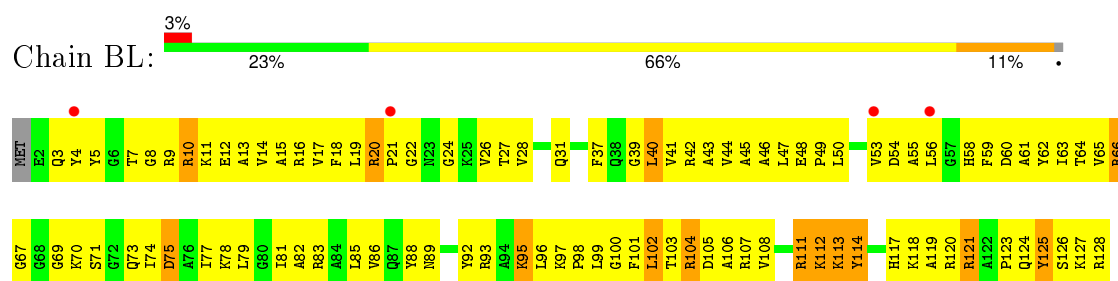
- Molecule 38: 30S ribosomal protein S8



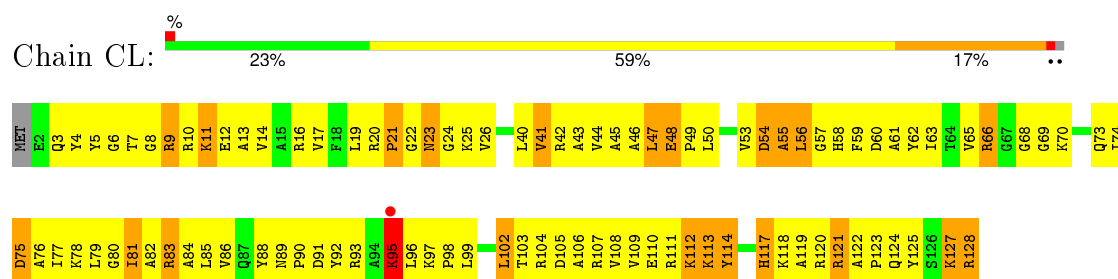
- Molecule 38: 30S ribosomal protein S8



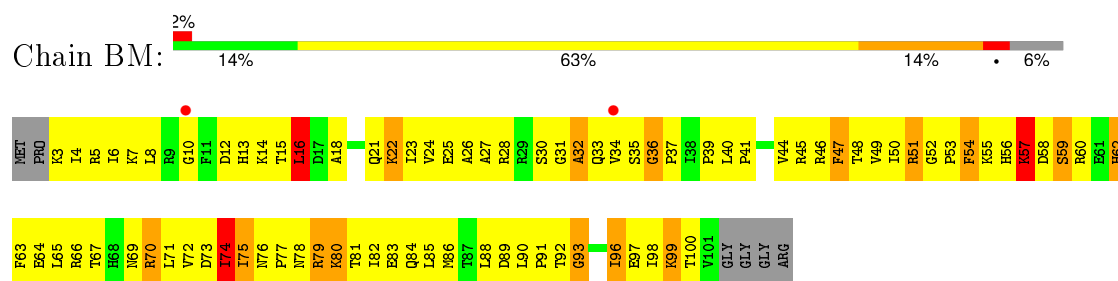
- Molecule 39: 30S ribosomal protein S9



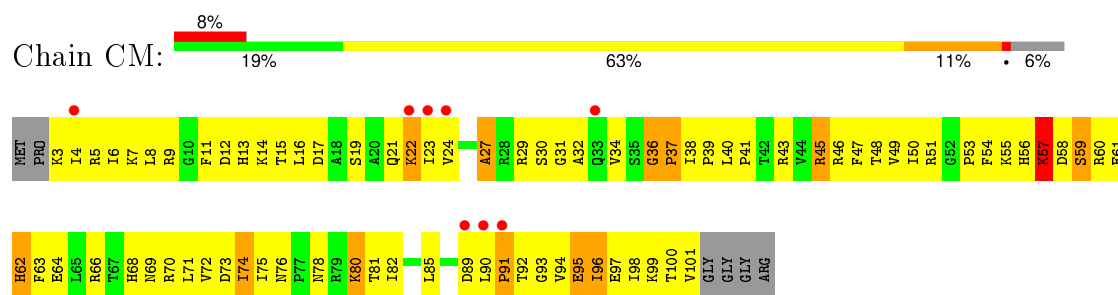
• Molecule 39: 30S ribosomal protein S9



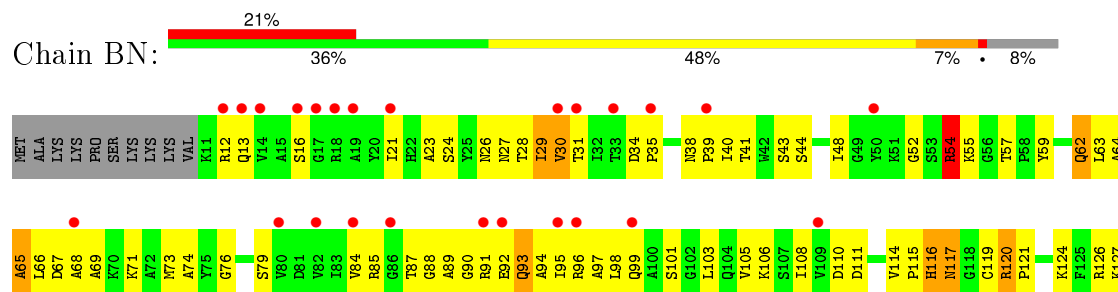
• Molecule 40: 30S ribosomal protein S10



• Molecule 40: 30S ribosomal protein S10

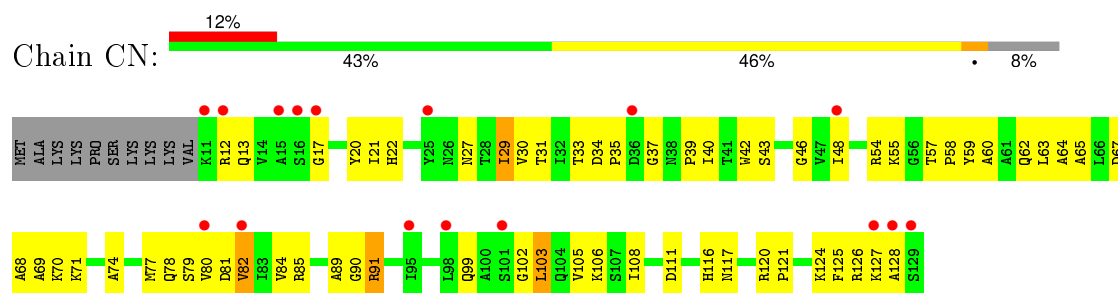


• Molecule 41: 30S ribosomal protein S11

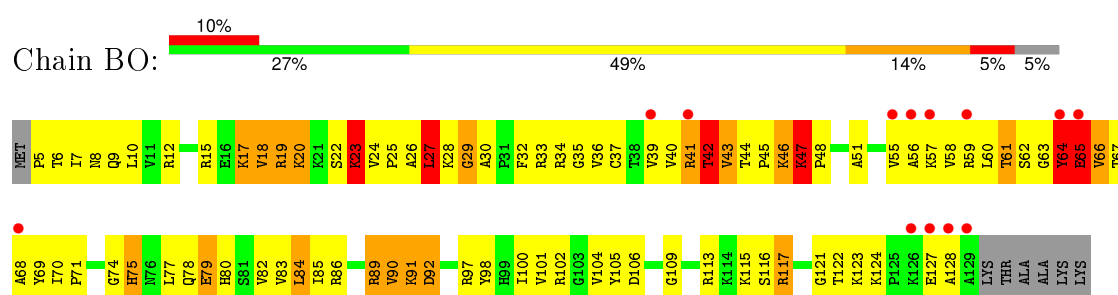




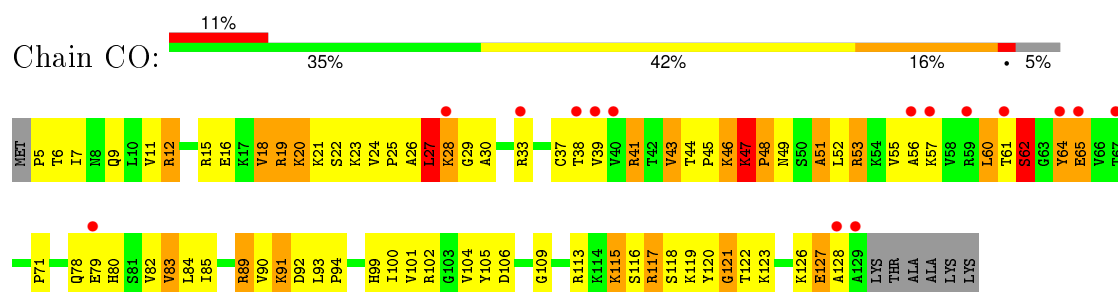
- Molecule 41: 30S ribosomal protein S11



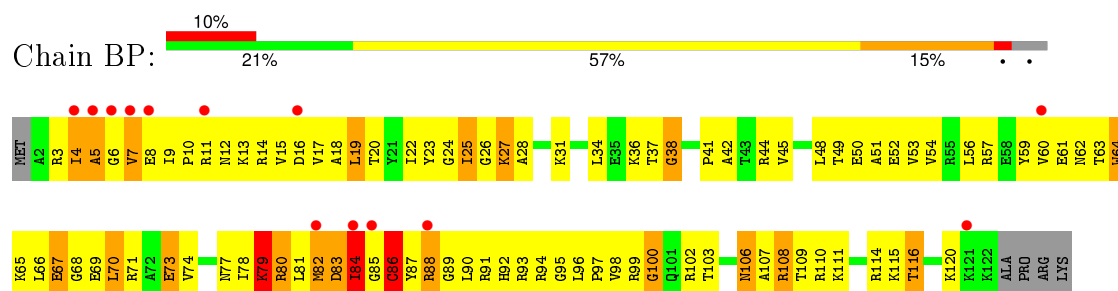
- Molecule 42: 30S ribosomal protein S12



- Molecule 42: 30S ribosomal protein S12

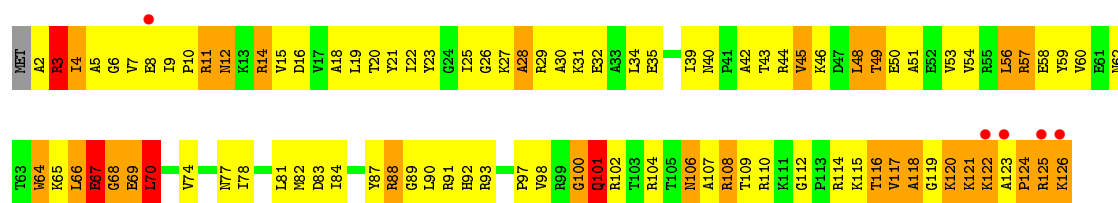


- Molecule 43: 30S ribosomal protein S13

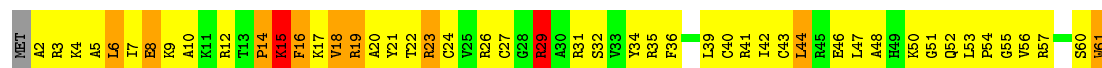


- Molecule 43: 30S ribosomal protein S13





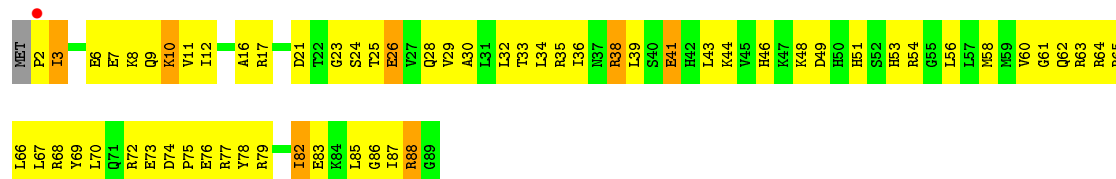
- Molecule 44: 30S ribosomal protein S14 type Z



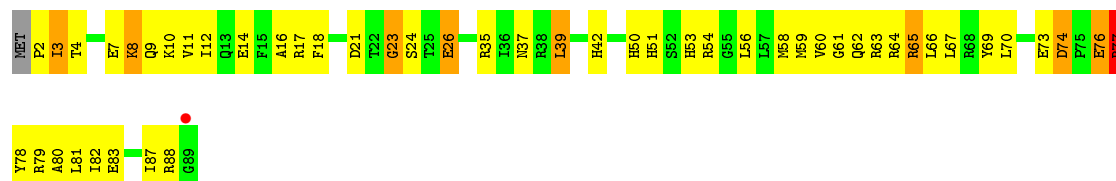
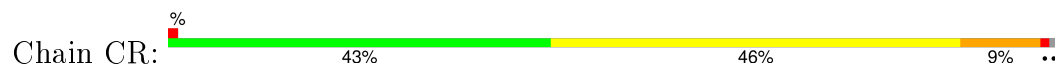
- Molecule 44: 30S ribosomal protein S14 type Z



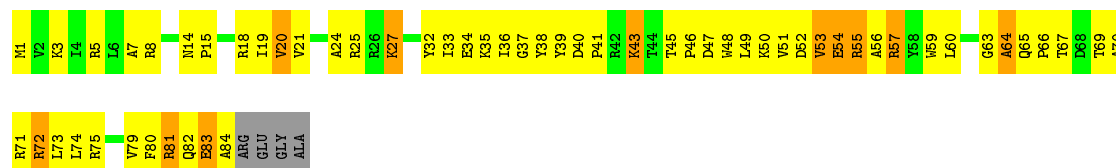
- Molecule 45: 30S ribosomal protein S15



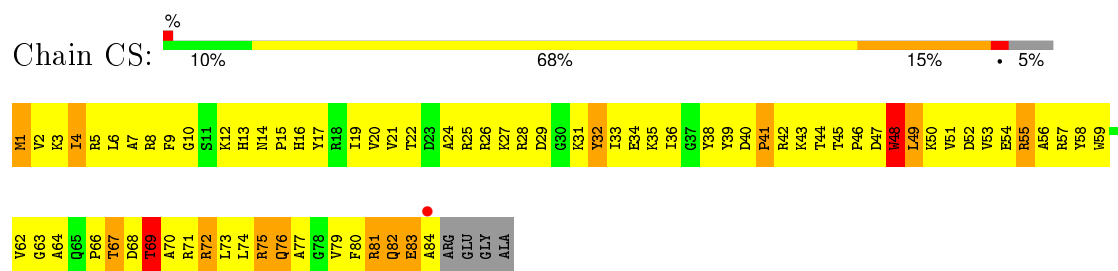
- Molecule 45: 30S ribosomal protein S15



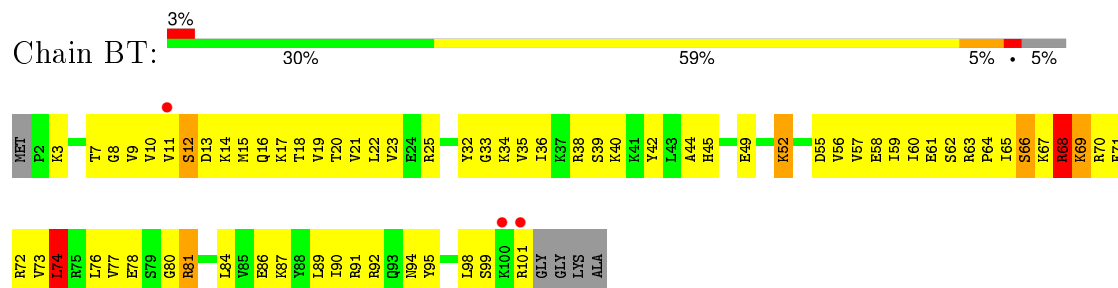
- Molecule 46: 30S ribosomal protein S16



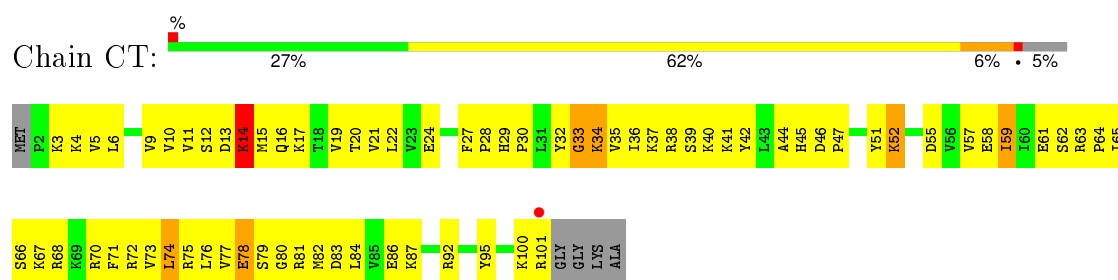
- Molecule 46: 30S ribosomal protein S16



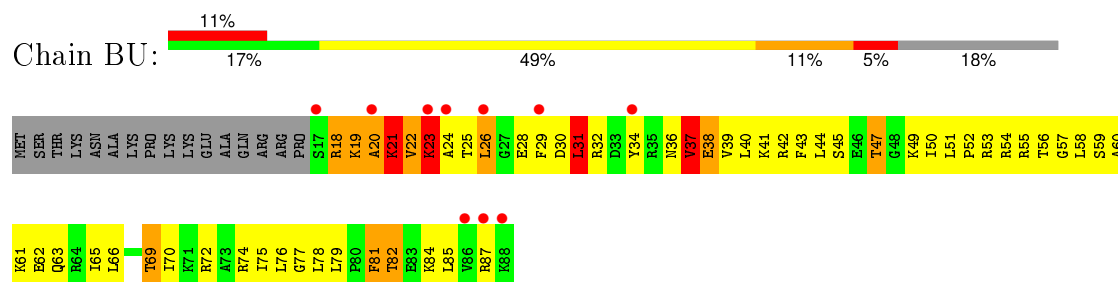
- Molecule 47: 30S ribosomal protein S17



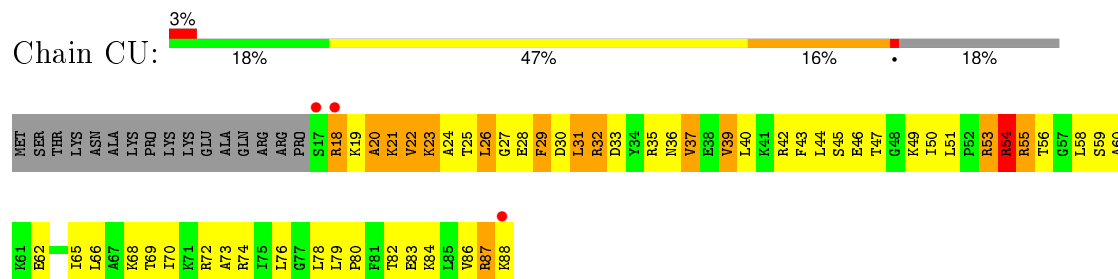
- Molecule 47: 30S ribosomal protein S17



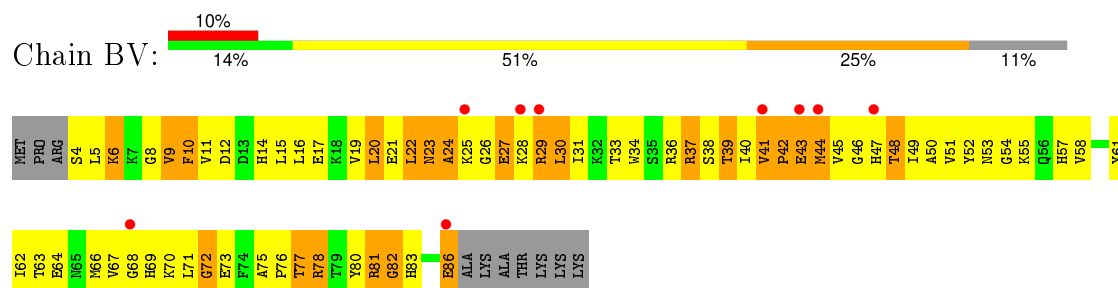
- Molecule 48: 30S ribosomal protein S18



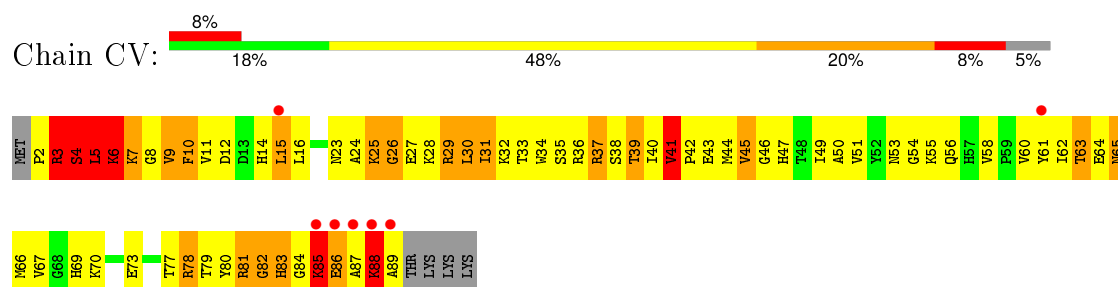
- Molecule 48: 30S ribosomal protein S18



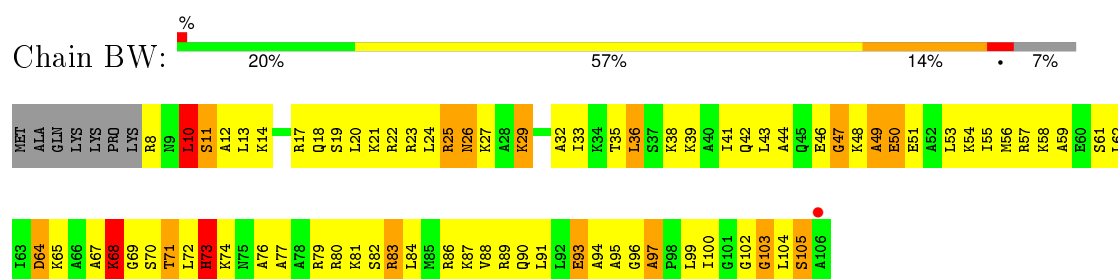
- Molecule 49: 30S ribosomal protein S19



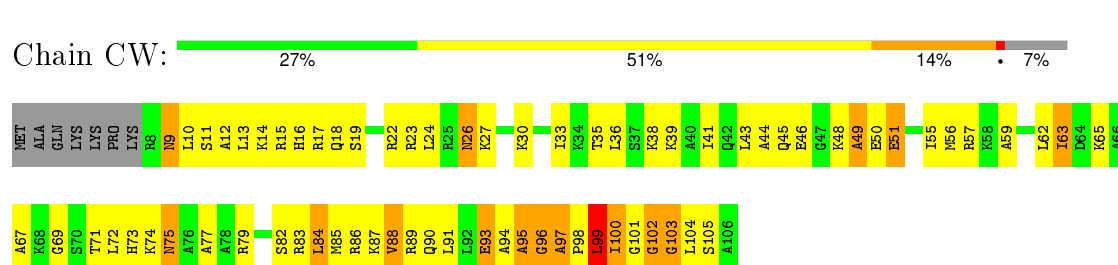
- Molecule 49: 30S ribosomal protein S19



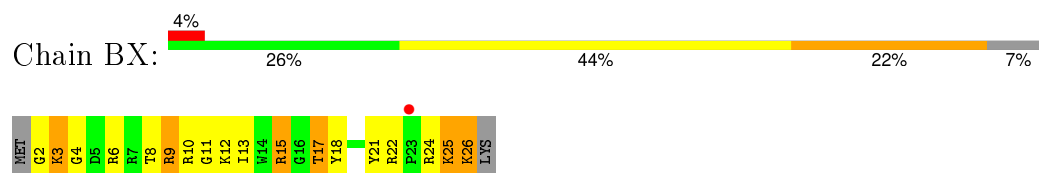
- Molecule 50: 30S ribosomal protein S20



- Molecule 50: 30S ribosomal protein S20

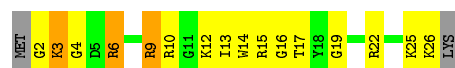


- Molecule 51: 30S ribosomal protein Thx



- Molecule 51: 30S ribosomal protein Thx

Chain CX: 

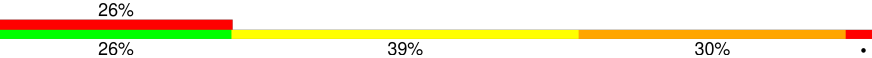


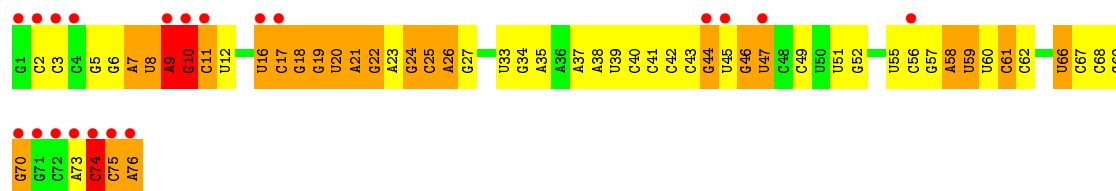
- Molecule 52: TRNA-PHE WITH UNMODIFIED NUCLEOTIDES EXCEPT FOR MIA37

Chain BD: 



- Molecule 52: TRNA-PHE WITH UNMODIFIED NUCLEOTIDES EXCEPT FOR MIA37

Chain BB: 



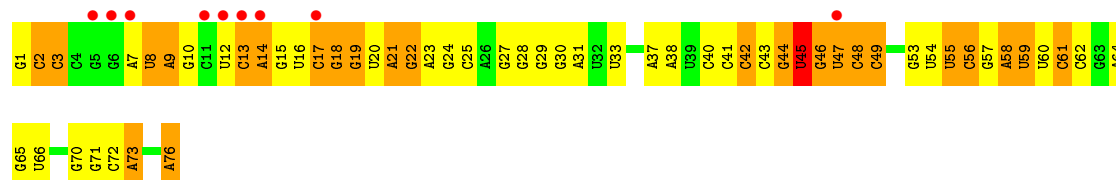
- Molecule 52: TRNA-PHE WITH UNMODIFIED NUCLEOTIDES EXCEPT FOR MIA37

Chain BC: 



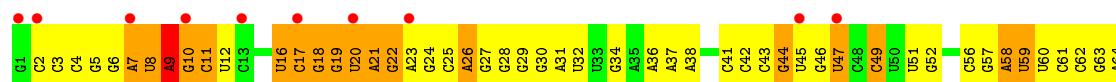
- Molecule 52: TRNA-PHE WITH UNMODIFIED NUCLEOTIDES EXCEPT FOR MIA37

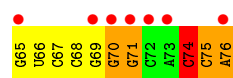
Chain CD: 



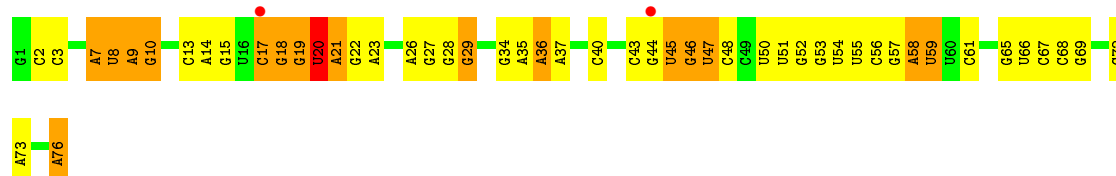
- Molecule 52: TRNA-PHE WITH UNMODIFIED NUCLEOTIDES EXCEPT FOR MIA37

Chain CB: 

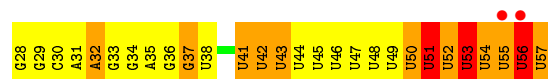




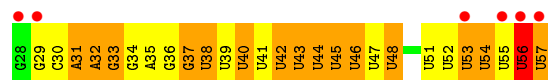
- Molecule 52: TRNA-PHE WITH UNMODIFIED NUCLEOTIDES EXCEPT FOR MIA37



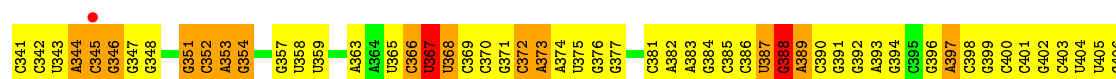
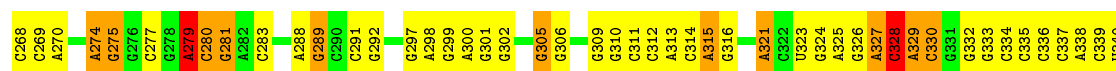
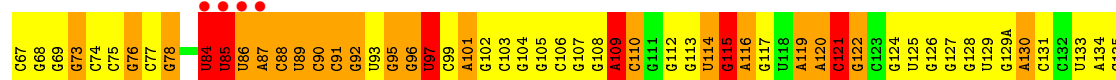
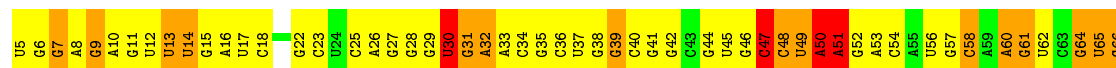
- Molecule 53: MRNA



- Molecule 53: MRNA



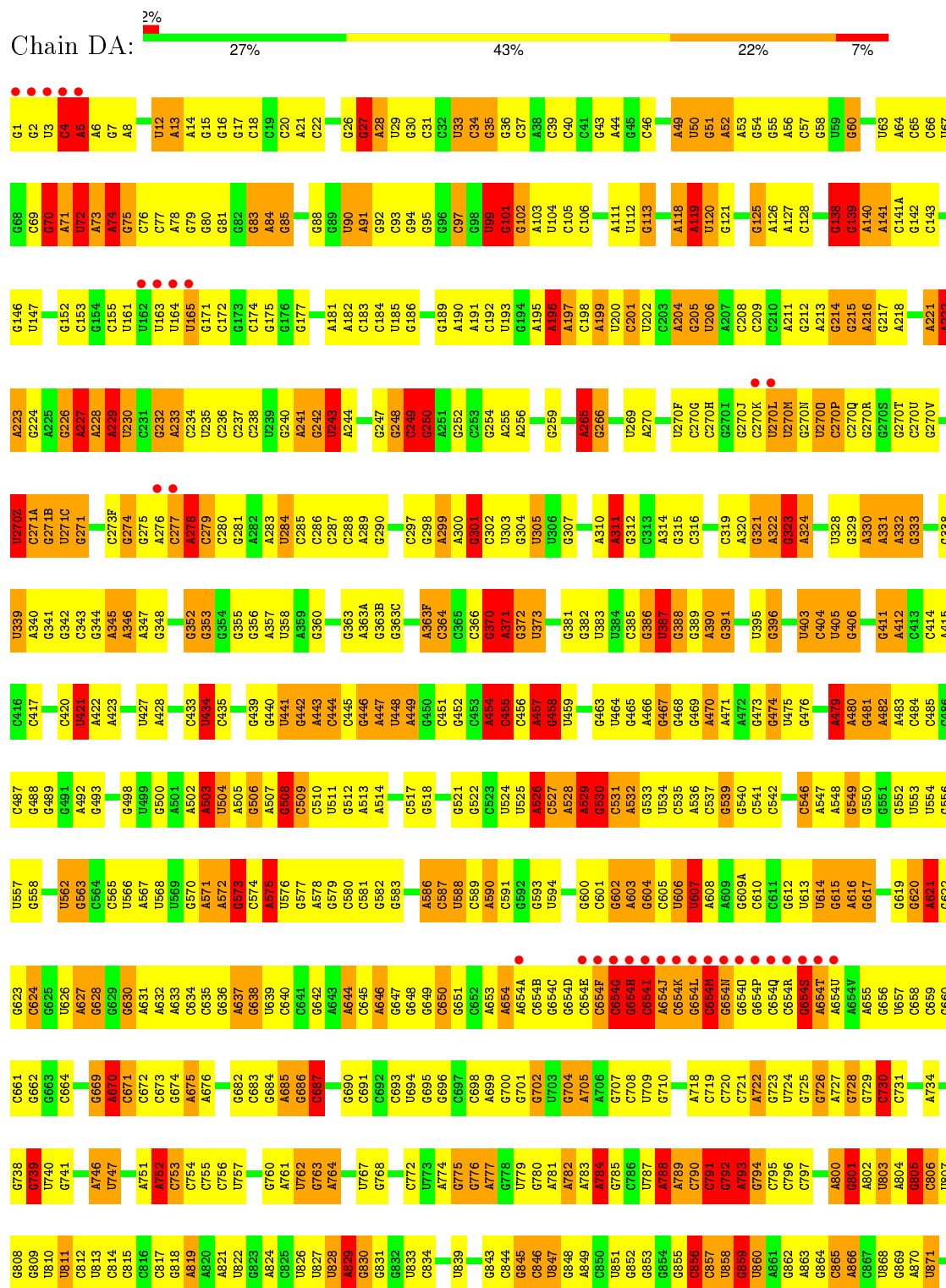
- Molecule 54: 16S ribosomal RNA



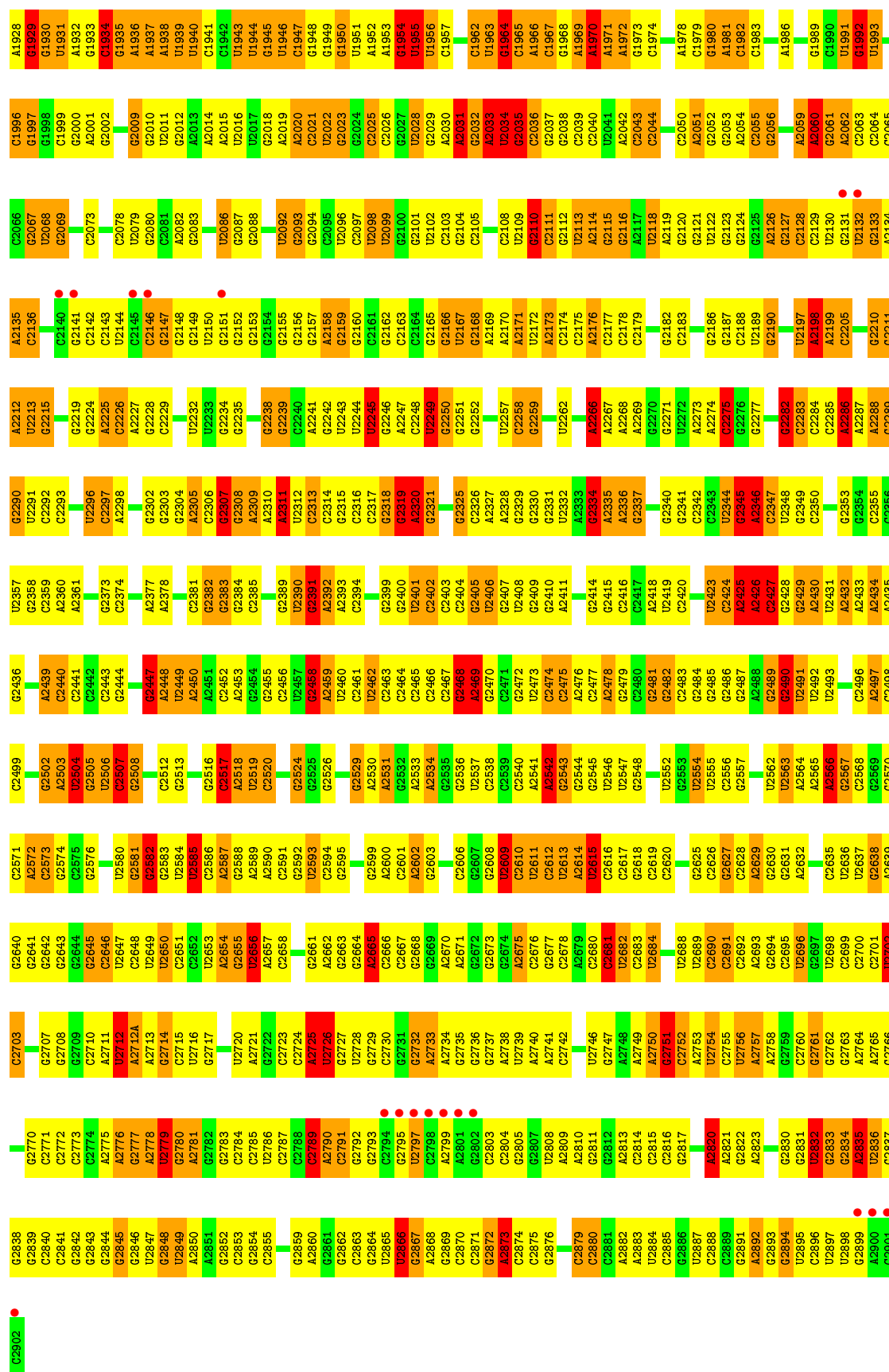
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U1348	A1349	A1350	U1351	G1352	G1353	G1354	G1355	G1356	A1357	A1358	G1359	A1360	G1361	G1362	G1362A	A1363	U1364	G1365	G1366	G1367	G1370	G1371	U1372	G1373	A1374	G1375	G1376	A1377	G1378	G1379	U1380	U1381	G1389	U1390	U1391	G1392	U1393	A1394	G1395	A1396	G1397	A1398	G1399	G1400	G1401	G1402	G1403	G1404	G1410	G1411	G1412	G1413	G1414	G1415	A1418			
A1288	A1289	G1290	G1291	G1292	G1293	G1294	A1295	G1296	G1297	G1298	A1299	G1300	U1301	A1302	G1303	G1304	G1305	A1306	U1307	U1308	G1309	G1310	G1311	G1312	U1313	G1314	G1315	G1316	G1317	G1318	G1319	U1320	G1321	G1322	G1323	A1324	G1325	G1326	G1327	G1328	A1329	U1330	G1331	G1332	G1333	G1334	G1335	G1336	G1337	G1338	A1339	A1340	G1411	G1412	G1413	G1414	G1415	A1418
G1221	G1222	G1223	G1224	A1225	G1226	A1227	G1228	U1232	G1233	G1234	U1235	A1236	G1237	G1238	G1239	G1240	G1241	G1242	G1243	G1244	A1245	A1250	A1251	G1254	G1255	G1256	G1257	G1258	G1259	G1260	G1261	G1262	G1263	G1264	G1265	G1266	A1269	G1270	G1271	G1272	G1273	G1274	A1275	G1276	G1277	G1278	A1279	G1280	U1281	G1282	G1283	G1284	A1285	A1286	A1287			
U1150	A1151	G1152	C1153	G1154	G1155	G1156	A1157	U1158	U1159	A1160	C1161	C1162	C1163	G1164	A1170	G1171	C1172	G1173	G1174	G1175	G1176	G1177	G1178	A1179	A1180	G1181	G1182	A1183	G1188	U1189	U1190	A1191	U1194	G1195	U1196	G1197	G1198	U1199	A1200	A1201	G1202	U1205	G1206	G1207	G1210	U1211	U1212	A1213	C1214	G1215	G1216	C1217	U1218	U1219	G1220			
U1086	G1087	G1088	G1089	U1090	U1091	A1092	A1093	U1094	U1095	G1096	C1097	G1098	G1099	C1100	A1101	A1102	C1103	G1104	A1105	G1106	C1107	G1108	C1112	C1116	G1117	C1118	G1119	G1120	U1121	U1122	A1123	U1125	U1126	G1127	C1128	C1129	A1130	C1132	G1133	G1134	U1135	U1136	C1137	G1138	G1139	C1140	C1141	A1142	G1143	G1144	G1145	A1146	C1147	U1148	C1149			
G1024	U1025	U091	C1027	C1028	C1028A	C1028B	G1029	C1030	G1031	A1032	G1032A	G1032B	G1033	G1034	A1035	G1036	C1037	G1038	C1039	U1040	A1046	G1047	G1048	U1049	G1050	C1051	U1052	G1053	C1054	U091	U092	G093	A994	G998	C998A	A1000	G1001	G1002	G1003	A1004	A1005	C1006	C1007	U1008	G1009	G1010	A1014	A1015	A1016	G1017	U1078	G1079	C1080	G1081	G1082	U1085		
A959	U960	U961	C962	G963	A964	A985	G966	G967	A968	A969	G970	G971	C972	G973	A974	A975	G976	A977	A978	G979	C980	U981	U982	A983	A986	G987	C989	C990	G991	U992	G993	A994	G998	U999	A1000	G1001	G1002	G1003	A1004	A1005	C1006	C1007	U1008	G1009	G1010	A1014	A1015	A1016	G1017	U1078	G1079	C1080	G1081	G1082	U1085			
A815	A816	C817	C818	A819	U820	G821	G825	C826	U827	A828	G829	G830	U831	C832	U833	C834	U835	G836	G837	G838	U841	C842	U843	C848	C849	G850	A851	G852	G853	G854	C857	G858	A859	A860	U863	A864	C865	C866	G869	U870	A871	G872	A873	G874	C877	G878	C879	C880	G881	C882	C883	U884	G885					
A889	G890	U891	A892	G893	G894	G895	C896	A900	A901	G902	G903	G906	A907	A908	C912	A913	A914	A915	A918	A919	U920	U921	G922	A923	C924	G925	G926	G927	C930	G931	G932	G933	C934	A935	G939	A940	G941	G942	U943	G944	G945	A946	G947	C948	A949	U950	G951	G952	G953	G954	U955	U956	U957	A958				
U959	U960	C962	G963	A964	A985	G966	G967	A968	A969	G970	G971	C972	G973	A974	A975	G976	A977	A978	G979	C980	U981	U982	A983	A986	G987	C989	C990	G991	U992	G993	A994	G998	U999	A1000	G1001	G1002	G1003	A1004	A1005	C1006	C1007	U1008	G1009	G1010	A1014	A1015	A1016	G1017	U1078	G1079	C1080	G1081	G1082	U1085				



• Molecule 55: 23S rRNA



U1851	U1852	A1786	G1699	A1634	G1555	G1487	G1416	G1344	G1279	C1207	U1141	U1078	A1009	G944	G874
C1852	A1787	C1788	A1700	G1635	C1556	G1488	C1417	C1345	G1280	C1208	U1142	C1079	A1010	A945	G875
A1853	A1788	C1636	A1701	C1637	C1557	U1489	G1418	G1346	G1281	G1209	A1142A	U1080	G1011	G946	C876
A1854	A1789	C1637		C1637	C1558	A1490	A1419	G1347	U1282	A1210	A1143	U1081	U1012		U877
G1855	G1790	C1638	U1706	C1639	G1559	G1491	U1420	G1348	G1283	G1211	C1144	U1082	C1013	G949	A878
	A1791	U1639	G1707	U1639	G1560	G1492	G1421	G1349	A1284	G1212	C1145	U1083	U1014	G950	G879
G1858	G1792	G1640	C1708	G1640	G1561	A1493	G1422	A1354	G1285	A1213		A1084	G1015	C951	G880
	C1793	A1641	U1709	A1641	A1562	A1494	G1423	G1355	A1286		G1149	A1085		G952	G881
G1862	U1794	G1642	C1710	G1642	G1563	A1495	G1424	G1356	A1287	A1220	C1150	A1086	U1019	G953	G882
G1863	C1795	G1643	G1711	G1643	C1564	A1496	G1425	G1357	U1288	G1221	G1151	G1087	A1020	G954	G883
U1864	U1796	C1644	C1712	C1644	C1565	A1497	G1426	G1358	G1289	C1222	C1152	A1088	A1021	C955	C884
G1869	C1797	G1645	U1716	G1645	A1566	A1498	A1427	G1359	C1290		C1153	G1089	G1022	G956	C885
C1870	U1798	G1646	G1717	G1646	A1567	C1498	C1428	G1358	C1291	C1225	C1154	U1090	U1023	A957	C886
A1871	G1799	G1647	G1718	G1647	G1568	U1503	G1429	A1360	U1292		A1155	G1091	G1024	U958	A887
A1872	C1800	C1648	G1725	C1648	A1569	C1504	G1429	G1361	U1293	C1230	A1156	C1092	G1025	A959	C888
G1878	G1801	G1649	A1726	G1649	A1570	C1505	U1430	G1361	C1293	G1231	G1157	G1093	U1026	A960	C889
A1880	A1802	G1650	U1727	G1650	A1571	C1506	C1432		U1294	G1232		U1094	A1027	G961	A890
C1880	A1803	G1651	G1728	G1651	U1572	A1507	U1433	A1365	G1299		C1161	A1095		G962	G892
C1881	C1804	A1652	A1729	A1652	C1575	A1508	A1434	A1366	U1300	G1235		A1096	G1030	U963	C893
C1882	U1805	G1653	U1730	G1653	U1576	C1509		A1367	A1301	G1236	G1162	U1097	G1031	C964	C894
		C1654	G1731	C1654	C1577	A1510	U1438	G1368	A1302	A1237	G1163	U1098			U895
G1883		A1655	A1732	A1655	U1578	A1511	A1439	G1369	A1303	G1238	G1164	C1099	U1033	G968	A896
A1884	A1809	C1656	G1733	C1656	A1579	G1512		G1370	G1303	G1239	U1165	U1100	G1034	U969	C897
A1885	A1810	C1657	C1734	C1657	A1580	C1513	G1444	G1371		U1240	U1167	U1101	U1035	C898	C898
C1887	G1811	C1658	G1735	C1658	G1581	U1514	A1444A	A1372	A1307	A1241	G1168	C1102		C971	A899
G1888	A1812	U1659	G1741	U1659	C1582		C1445	G1374	A1308	A1242	G1169	A1103	G1040	A900	A900
A1889	G1813	G1660	C1742	G1660	C1583	C1519	G1446	C1375	G1309	G1243	G1170	C1104	C1041	G972	
	G1814		G1743		C1585	G1519	G1447	C1376	G1310	G1244	G1171	U1105	G1042	A973	A901
C1892	A1815	A1664	G1746	A1664	A1586	U1523	A1448	C1377	U1312	A1247	A1174	G1107	C1043	G974	C902
C1893	G1816	G1665	G1747	G1665	U1580	G1524	A1449	A1378	U1313	G1248	A1175	G1108	G1044	G975	C904
C1894	G1817	G1667	G1748	G1667	G1591	G1525	G1449A	A1379	C1314	U1249	G1176	C1109	A1045	C976	U905
	U1818	A1668	A1749	A1668	G1591	G1526	G1450	G1380	G1315	G1250	A1177	G1110	A1046	G977	G906
U1898	A1819	G1669	G1750	G1669	U1591	G1527	C1461	A1384	U1316	G1251	C1178	A1111	G1047	G978	A910
A1899	U1820	C1670	C1751	C1670	G1595	A1528	A1454	G1385	C1318	G1252	C1179	G1112	A1048	G979	A911
A1900	A1821	U1671	G1752	U1671	A1597	A1529	G1455	G1386	G1319	A1253	C1180	U1113	A1050	A980	
		C1672		C1672	C1598	G1530		C1387	C1320	A1254	C1181				C912
G1824	A1825	U1673	U1757	U1673	C1598	C1531	G1458	G1388	A1321	U1255	A1182	G1116	A1054	U913	U913
A1826	G1826	G1674	G1758	G1674	G1598	C1532	G1459	G1389	A1322	G1256		G1117		C914	C914
C1827	U1827	A1675	A1759	A1675	U1602	G1533	A1460	A1392	U1323	G1259	G1186		G1055	G915	C915
G1828	A1828	G1676	C1761	G1676	A1603	G1534	G1461	A1393	G1324	G1260	U1187	G1120	A1057	A987	G916
G1907	A1829	U1677	A1762	U1677	U1607	U1535	G1464	U1394	G1325	C1261	U1188	C1121	U1058	A917	A917
C1908	G1830	G1678	G1763	G1678	C1607	A1536		U1395	U1326	G1262	A1189	G1122	U1059	A918	A918
G1909	C1831	U1679	G1764	U1679	A1608	G1537	C1467	C1396	C1327	U1263	G1190	C1123	U1060	G919	G919
G1910	C1832	U1680		U1680	A1609	G1538		U1397	G1328	G1264	C1191	C1124	U1061	C992	G920
U1911	U1833	G1681	C1771	G1681	A1610	G1539	A1471	C1398	U1329	G1265	G1192	G1125	G1062	C994	
A1912	G1834	G1682	G1772	G1682	C1611	G1540	A1472	A1399	C1330	A1266	G1193	A1126	G1063	C995	A926
A1913	G1835	C1683	A1773	C1683	C1612	U1541	G1473	C1399	A1331	G1267	A1194	A1127	G1064	A996	G928
G1914	C1836	G1613	C1774	G1613	G1613	G1542	G1473	C1403	G1332	U1267	G1195	A1128	U1065	G997	G929
U1915	C1837	A1614	U1775	A1614	A1543	A1543	C1474	C1404	C1333	A1268	C1196	A1129	U1066	C998	U930
A1916	G1838	G1686	G1776	G1686	C1615	C1544	G1475	C1405	G1334	A1269	G1197	U1130	A1067	U999	G831
U1917	G1839	U1687	U1777	U1687	A1616	A1545		U1406	U1335	C1270	U1198	G1131	G1068	A1000	G832
A1918		A1688	U1778	A1688	C1617	A1546A	G1478	U1406	U1336	G1271	U1199	A1132	A1069	A933	A933
A1919	C1844	A1618	U1779	A1618	G1618	C1546	G1479	C1407	A1337	A1272	U1200	U1133	A1070	G1002	G934
	G1845	G1694	G1780	G1694	G1619	C1547	U1482	C1408	G1338	G1273	C1201	G1136	G1071	C1003	C935
U1923	U1846	U1693	C1781	U1693	C1619	C1548	U1482		G1339	A1274	C1202			C1004	
C1924	A1847	G1695	C1782	G1695	U1629	C1549	U1483	C1411	U1340	A1275	G1203	G1137	G1074	C1005	G940
U1925	A1848	G1696	A1783	G1696	G1630	C1550	U1484	A1412	U1342	A1276	A1204	G1138	C1075	C1006	A941
	G1849	G1697	G1784	G1697	C1630A		G1485	G1413	A1342	G1277	U1205	G1139	C1076	G1007	G942
A1927	G1850	A1698	A1785	A1698		A1554	A1466		G1343	A1278	G1206	C1140	A1077	C1008	U943



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.46Å 446.20Å 623.05Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	300.00 – 3.10 223.10 – 3.00	Depositor EDS
% Data completeness (in resolution range)	96.5 (300.00-3.10) 99.8 (223.10-3.00)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	0.27	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.72 (at 3.01Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.215 , 0.255 0.221 , 0.260	Depositor DCC
R_{free} test set	31126 reflections (3.08%)	DCC
Wilson B-factor (Å ²)	61.5	Xtriage
Anisotropy	0.212	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 75.7	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.25$	Xtriage
Outliers	0 of 1148206 reflections	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	307345	wwPDB-VP
Average B, all atoms (Å ²)	77.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.45% 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: MIA, ZN, MG

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	AA	0.55	6/70167 (0.0%)	0.87	170/109541 (0.2%)
2	AB	0.42	1/2928 (0.0%)	0.80	0/4568
2	DB	0.58	3/2928 (0.1%)	0.85	5/4568 (0.1%)
3	AD	0.45	0/2165	0.80	1/2919 (0.0%)
3	DD	0.54	0/2165	0.87	1/2919 (0.0%)
4	AE	0.39	0/1601	0.77	1/2160 (0.0%)
4	DE	0.50	0/1601	0.89	3/2160 (0.1%)
5	AF	0.39	0/1662	0.74	1/2249 (0.0%)
5	DF	0.50	0/1620	0.76	0/2194
6	AG	0.31	0/1499	0.58	0/2016
6	DG	0.38	0/1499	0.66	0/2016
7	AH	0.28	0/1332	0.62	0/1802
7	DH	0.41	0/1332	0.89	2/1802 (0.1%)
8	AK	0.33	0/1151	0.74	0/1558
8	DK	0.35	0/1151	0.74	1/1558 (0.1%)
9	AM	0.34	0/1131	0.66	0/1525
9	DM	0.46	0/1131	0.81	1/1525 (0.1%)
10	AN	0.40	0/943	0.67	0/1269
10	DN	0.49	0/943	0.75	0/1269
11	AO	0.39	0/1162	0.80	2/1544 (0.1%)
11	DO	0.51	0/1162	0.95	3/1544 (0.2%)
12	AP	0.39	0/1143	0.72	0/1527
12	DP	0.53	0/1143	0.80	1/1527 (0.1%)
13	A0	0.38	0/974	0.67	0/1302
13	D0	0.45	0/982	0.79	1/1312 (0.1%)
14	AQ	0.34	0/892	0.70	0/1187
14	DQ	0.41	0/892	0.84	1/1187 (0.1%)
15	AR	0.38	0/1155	0.68	0/1542
15	DR	0.44	0/1155	0.75	1/1542 (0.1%)
16	A1	0.38	0/982	0.67	0/1306
16	D1	0.49	0/982	0.75	0/1306
17	A2	0.38	0/790	0.75	0/1057

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	D2	0.45	0/790	0.80	0/1057
18	AS	0.42	0/911	0.70	0/1220
18	DS	0.45	0/911	0.73	0/1220
19	AT	0.49	0/739	0.73	0/993
19	DT	0.52	0/739	0.79	0/993
20	AU	0.44	0/798	0.78	1/1064 (0.1%)
20	DU	0.45	0/798	0.77	0/1064
21	AV	0.35	0/1521	0.74	3/2064 (0.1%)
21	DV	0.59	4/1615 (0.2%)	0.93	7/2191 (0.3%)
22	A3	0.41	0/671	0.74	0/892
22	D3	0.46	0/671	0.76	0/892
23	AZ	0.40	0/770	0.79	1/1022 (0.1%)
23	DZ	0.45	0/770	0.76	0/1022
24	AW	0.43	0/583	0.73	0/771
24	DW	0.49	0/583	0.78	0/771
25	AX	0.31	0/474	0.67	0/635
25	DX	0.39	0/474	0.71	0/635
26	A4	0.43	1/594 (0.2%)	0.82	1/795 (0.1%)
26	D4	0.43	0/594	1.03	6/795 (0.8%)
27	A5	0.38	0/473	0.68	0/639
27	D5	0.48	0/473	0.75	0/639
28	A6	0.37	0/396	0.87	0/529
28	D6	0.37	0/396	0.88	0/529
29	A7	0.45	0/438	0.71	0/575
29	D7	0.52	0/438	0.79	0/575
30	A8	0.51	0/525	0.97	1/691 (0.1%)
30	D8	0.61	0/525	0.95	0/691
31	BA	0.45	2/36457 (0.0%)	0.80	41/56899 (0.1%)
32	BE	0.31	0/1959	0.59	0/2642
32	CE	0.32	0/1959	0.61	0/2642
33	BF	0.31	0/1636	0.57	0/2205
33	CF	0.35	0/1629	0.59	0/2195
34	BG	0.39	0/1733	0.74	5/2318 (0.2%)
34	CG	0.40	0/1733	0.69	3/2318 (0.1%)
35	BH	0.35	0/1171	0.66	0/1576
35	CH	0.39	0/1171	0.67	0/1576
36	BI	0.39	0/856	0.65	0/1154
36	CI	0.39	0/856	0.66	0/1154
37	BJ	0.32	0/1276	0.57	0/1709
37	CJ	0.34	0/1276	0.57	0/1709
38	BK	0.31	0/1136	0.61	0/1527
38	CK	0.36	0/1136	0.65	0/1527
39	BL	0.32	0/1029	0.59	0/1379

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	CL	0.33	0/1029	0.63	0/1379
40	BM	0.31	0/814	0.61	0/1095
40	CM	0.34	0/814	0.61	0/1095
41	BN	0.35	0/900	0.61	0/1213
41	CN	0.38	0/900	0.63	0/1213
42	BO	0.38	0/991	0.67	0/1327
42	CO	0.44	0/991	0.84	1/1327 (0.1%)
43	BP	0.32	0/974	0.66	1/1303 (0.1%)
43	CP	0.40	0/1008	0.74	0/1347
44	BQ	0.34	0/501	0.59	0/664
44	CQ	0.40	0/501	0.69	1/664 (0.2%)
45	BR	0.35	0/745	0.56	0/992
45	CR	0.39	0/745	0.63	0/992
46	BS	0.37	0/721	0.61	0/970
46	CS	0.35	0/721	0.66	0/970
47	BT	0.35	0/847	0.62	0/1131
47	CT	0.36	0/847	0.60	0/1131
48	BU	0.42	0/596	0.75	1/790 (0.1%)
48	CU	0.38	0/596	0.69	0/790
49	BV	0.35	0/679	0.67	0/913
49	CV	0.50	0/717	0.97	3/963 (0.3%)
50	BW	0.32	0/765	0.62	0/1007
50	CW	0.31	0/765	0.64	0/1007
51	BX	0.33	0/221	0.58	0/288
51	CX	0.38	0/221	0.51	0/288
52	BB	0.35	0/1783	0.77	4/2776 (0.1%)
52	BC	0.43	0/1783	0.78	1/2776 (0.0%)
52	BD	0.31	0/1783	0.74	0/2776
52	CB	0.41	0/1783	1.00	6/2776 (0.2%)
52	CC	0.58	0/1783	0.93	3/2776 (0.1%)
52	CD	0.38	0/1783	0.83	3/2776 (0.1%)
53	B1	0.47	0/689	0.94	3/1069 (0.3%)
53	C1	0.48	0/689	0.91	2/1069 (0.2%)
54	CA	0.50	1/36435 (0.0%)	0.82	58/56865 (0.1%)
55	DA	0.70	12/70233 (0.0%)	0.96	262/109643 (0.2%)
56	DI	1.11	2/236 (0.8%)	1.41	4/315 (1.3%)
56	DJ	1.82	5/236 (2.1%)	1.78	9/315 (2.9%)
57	DY	0.98	5/1123 (0.4%)	1.55	24/1520 (1.6%)
58	DL	0.72	1/1091 (0.1%)	1.34	16/1479 (1.1%)
All	All	0.53	43/328085 (0.0%)	0.85	666/490785 (0.1%)

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
1	AA	0	109
2	AB	0	4
2	DB	0	4
3	AD	0	2
31	BA	0	34
52	BB	0	1
52	BC	0	3
52	BD	0	1
52	CB	0	1
52	CD	0	2
53	B1	0	4
53	C1	0	3
54	CA	0	57
55	DA	0	170
All	All	0	395

All (43) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	BA	889	A	O3'-P	-25.82	1.30	1.61
56	DJ	17	VAL	CB-CG2	-16.90	1.17	1.52
57	DY	80	VAL	CB-CG1	-13.58	1.24	1.52
56	DJ	17	VAL	CA-CB	-9.21	1.35	1.54
57	DY	139	VAL	CB-CG2	-8.82	1.34	1.52
56	DI	24	ILE	CB-CG2	-8.49	1.26	1.52
56	DJ	17	VAL	CB-CG1	-7.93	1.36	1.52
2	DB	81	G	C6-N1	-7.89	1.34	1.39
55	DA	2665	A	C6-N6	-7.64	1.27	1.33
1	AA	1342	A	O3'-P	-7.64	1.51	1.61
1	AA	1359	A	C5-C6	-7.33	1.34	1.41
2	DB	95	U	C2-O2	7.04	1.28	1.22
55	DA	621	A	C6-N6	-7.02	1.28	1.33
58	DL	52	ILE	CB-CG1	-7.01	1.34	1.54
55	DA	945	A	N9-C4	7.00	1.42	1.37
57	DY	111	LEU	C-O	-6.85	1.10	1.23
54	CA	788	U	N3-C4	6.75	1.44	1.38
31	BA	788	U	N3-C4	6.72	1.44	1.38
56	DI	26	ALA	CA-CB	-6.68	1.38	1.52
55	DA	897	C	C4-C5	-6.59	1.37	1.43
55	DA	383	U	N1-C2	6.30	1.44	1.38
55	DA	74	A	N9-C4	-6.05	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	DY	51	LEU	CG-CD1	-5.94	1.29	1.51
56	DJ	2	ALA	CA-CB	-5.93	1.40	1.52
55	DA	2665	A	C5-C6	-5.93	1.35	1.41
21	DV	200	GLY	CA-C	5.86	1.61	1.51
21	DV	61	LEU	CA-CB	5.86	1.67	1.53
55	DA	383	U	C2-O2	5.78	1.27	1.22
1	AA	2665	A	C6-N6	-5.66	1.29	1.33
56	DJ	17	VAL	CA-C	-5.57	1.38	1.52
1	AA	654(M)	C	N1-C2	5.56	1.45	1.40
2	DB	95	U	N1-C2	5.55	1.43	1.38
55	DA	1612	C	N1-C2	-5.45	1.34	1.40
55	DA	654(H)	G	C5-C6	-5.44	1.36	1.42
55	DA	654(M)	C	N1-C2	5.43	1.45	1.40
1	AA	621	A	C6-N6	-5.26	1.29	1.33
1	AA	654(H)	G	C5-C6	-5.24	1.37	1.42
21	DV	196	VAL	CB-CG1	-5.23	1.41	1.52
26	A4	1	MET	SD-CE	-5.19	1.48	1.77
55	DA	896	A	C2-N3	-5.17	1.28	1.33
21	DV	196	VAL	CA-CB	-5.15	1.44	1.54
57	DY	73	GLY	C-O	-5.11	1.15	1.23
2	AB	81	G	C6-N1	-5.05	1.36	1.39

All (666) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	889	A	P-O3'-C3'	-30.02	83.67	119.70
52	CB	74	C	C1'-O4'-C4'	-20.78	93.28	109.90
31	BA	889	A	O3'-P-O5'	-20.67	64.72	104.00
1	AA	4	C	OP1-P-O3'	-19.04	63.31	105.20
52	CB	74	C	O4'-C1'-N1	18.78	123.23	108.20
55	DA	4	C	OP1-P-O3'	-18.47	64.56	105.20
55	DA	4	C	OP2-P-O3'	-18.18	65.21	105.20
1	AA	4	C	OP2-P-O3'	-18.01	65.57	105.20
1	AA	1342	A	P-O3'-C3'	17.11	140.24	119.70
55	DA	2286	A	C1'-O4'-C4'	-16.67	96.56	109.90
52	CC	20	U	C1'-O4'-C4'	-16.02	97.09	109.90
55	DA	945	A	C1'-O4'-C4'	-15.95	97.14	109.90
55	DA	2468	G	C1'-O4'-C4'	-15.21	97.73	109.90
7	DH	125	VAL	C-N-CD	-15.16	87.25	120.60
57	DY	51	LEU	CB-CG-CD2	-14.72	85.97	111.00
31	BA	889	A	OP1-P-O3'	14.69	137.53	105.20
1	AA	1379	A	C1'-O4'-C4'	-14.66	98.17	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	2286	A	C1'-O4'-C4'	-13.73	98.92	109.90
1	AA	1762	A	C1'-O4'-C4'	-13.70	98.94	109.90
55	DA	945	A	N9-C4-C5	-13.70	100.32	105.80
55	DA	1379	A	C1'-O4'-C4'	-13.43	99.16	109.90
1	AA	2311	A	C1'-O4'-C4'	-13.25	99.30	109.90
56	DJ	3	LEU	CB-CG-CD2	-12.88	89.11	111.00
55	DA	1372	U	C5-C6-N1	12.46	128.93	122.70
1	AA	1342	A	OP1-P-O3'	12.41	132.50	105.20
55	DA	1372	U	C4-C5-C6	-12.38	112.27	119.70
57	DY	76	GLY	C-N-CD	-12.28	93.59	120.60
55	DA	1544	C	N1-C1'-C2'	12.07	129.69	114.00
55	DA	607	U	N3-C4-O4	-11.94	111.04	119.40
55	DA	1925	C	N1-C1'-C2'	-11.79	98.68	114.00
52	CC	20	U	N1-C1'-C2'	11.77	129.30	114.00
55	DA	945	A	N9-C1'-C2'	11.60	129.07	114.00
1	AA	322	A	C1'-O4'-C4'	-11.53	100.68	109.90
1	AA	5	A	O5'-P-OP1	-11.27	95.56	105.70
52	CB	74	C	C2-N1-C1'	10.88	130.77	118.80
52	CB	74	C	C6-N1-C1'	-10.68	107.98	120.80
55	DA	607	U	C5-C4-O4	-10.59	119.55	125.90
1	AA	1359	A	C3'-C2'-C1'	-10.54	93.07	101.50
52	CC	20	U	O4'-C1'-N1	10.46	116.57	108.20
56	DJ	17	VAL	CA-CB-CG2	-10.16	95.66	110.90
52	CD	45	U	N1-C1'-C2'	10.11	127.14	114.00
57	DY	73	GLY	N-CA-C	-9.87	88.44	113.10
55	DA	945	A	C6-C5-N7	-9.63	125.56	132.30
55	DA	2447	G	N9-C1'-C2'	9.59	126.46	114.00
57	DY	19	ARG	NE-CZ-NH1	-9.51	115.55	120.30
52	CD	45	U	O4'-C1'-N1	9.46	115.77	108.20
55	DA	2311	A	C1'-O4'-C4'	-9.33	102.44	109.90
58	DL	24	GLY	N-CA-C	-9.23	90.02	113.10
55	DA	1616	A	N9-C1'-C2'	9.20	125.96	114.00
1	AA	2789	C	O4'-C1'-N1	9.17	115.53	108.20
55	DA	1828	G	N9-C1'-C2'	9.16	125.90	114.00
55	DA	2656	U	N3-C4-O4	-9.12	113.01	119.40
56	DI	24	ILE	CG1-CB-CG2	-9.08	91.43	111.40
21	DV	193	GLU	C-N-CD	-9.08	100.63	120.60
55	DA	1340	U	N1-C1'-C2'	9.04	125.75	114.00
1	AA	322	A	N9-C1'-C2'	9.01	125.71	114.00
55	DA	508	G	N9-C1'-C2'	9.00	125.70	114.00
1	AA	607	U	C5-C4-O4	-8.95	120.53	125.90
1	AA	2490	G	C1'-O4'-C4'	-8.90	102.78	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	DA	1372	U	N1-C2-N3	-8.81	109.61	114.90
55	DA	2307	G	O4'-C1'-N9	8.73	115.19	108.20
55	DA	1698	A	N9-C1'-C2'	8.72	125.34	114.00
55	DA	2789	C	O4'-C1'-N1	8.71	115.17	108.20
55	DA	945	A	C8-N9-C1'	-8.67	112.10	127.70
55	DA	1929	G	N9-C1'-C2'	8.62	125.20	114.00
21	DV	61	LEU	CA-CB-CG	8.61	135.09	115.30
55	DA	1131	G	N9-C1'-C2'	8.56	125.13	114.00
49	CV	6	LYS	CA-C-N	-8.55	98.39	117.20
55	DA	2665	A	C5-C6-N6	-8.54	116.87	123.70
55	DA	654(M)	C	N1-C1'-C2'	8.50	125.05	114.00
57	DY	51	LEU	CA-CB-CG	-8.50	95.76	115.30
1	AA	788	A	N9-C1'-C2'	8.49	125.04	114.00
55	DA	2609	U	N1-C1'-C2'	8.47	125.01	114.00
55	DA	945	A	N3-C4-N9	8.45	134.16	127.40
57	DY	111	LEU	CA-CB-CG	8.45	134.73	115.30
26	D4	18	CYS	CA-CB-SG	8.41	129.14	114.00
55	DA	2032	G	N9-C1'-C2'	8.38	124.90	114.00
57	DY	51	LEU	CB-CG-CD1	8.36	125.22	111.00
55	DA	945	A	C4-C5-N7	8.32	114.86	110.70
1	AA	654(M)	C	N1-C1'-C2'	8.26	124.74	114.00
55	DA	421	U	N1-C1'-C2'	8.24	124.71	114.00
1	AA	2311	A	N9-C1'-C2'	8.18	124.63	114.00
55	DA	1359	A	C3'-C2'-C1'	-8.17	94.96	101.50
57	DY	35	LYS	N-CA-C	-8.16	88.98	111.00
55	DA	371	A	N9-C1'-C2'	8.15	124.59	114.00
1	AA	323	G	O4'-C1'-N9	8.14	114.71	108.20
55	DA	654(I)	C	N1-C1'-C2'	8.12	124.56	114.00
55	DA	1992	G	C2'-C3'-O3'	8.10	127.33	109.50
54	CA	575	G	N9-C1'-C2'	8.09	124.52	114.00
55	DA	945	A	C4-N9-C1'	8.09	140.86	126.30
56	DJ	17	VAL	CA-CB-CG1	8.06	123.00	110.90
54	CA	1003	G	N9-C1'-C2'	-8.06	103.14	112.00
55	DA	2311	A	N9-C1'-C2'	8.05	124.47	114.00
1	AA	801	G	N9-C1'-C2'	8.04	124.45	114.00
1	AA	222	A	N9-C1'-C2'	8.03	124.44	114.00
1	AA	1372	U	C3'-C2'-C1'	-8.03	95.08	101.50
55	DA	2307	G	C1'-O4'-C4'	-8.01	103.49	109.90
1	AA	70	G	N9-C1'-C2'	8.00	124.41	114.00
54	CA	889	A	N9-C1'-C2'	8.00	124.40	114.00
1	AA	1247	A	N9-C1'-C2'	7.99	124.38	114.00
1	AA	1372	U	O4'-C1'-N1	-7.98	101.81	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	CA	1502	A	N9-C1'-C2'	7.98	124.37	114.00
54	CA	511	C	N1-C1'-C2'	7.98	124.37	114.00
1	AA	1252	G	N9-C1'-C2'	7.98	124.37	114.00
1	AA	1992	G	N9-C1'-C2'	7.94	124.33	114.00
55	DA	2656	U	C5-C4-O4	-7.93	121.14	125.90
1	AA	573	G	N9-C1'-C2'	7.92	124.30	114.00
55	DA	788	A	N9-C1'-C2'	7.91	124.29	114.00
1	AA	895	U	N3-C4-O4	-7.89	113.88	119.40
55	DA	2517	C	N1-C1'-C2'	7.88	124.24	114.00
55	DA	1781	C	N1-C1'-C2'	7.85	124.21	114.00
55	DA	249	C	N1-C1'-C2'	7.84	124.20	114.00
54	CA	1542	U	C4'-C3'-O3'	7.83	128.66	113.00
55	DA	2286	A	N9-C1'-C2'	7.82	124.17	114.00
55	DA	1544	C	O4'-C1'-N1	7.79	114.43	108.20
58	DL	140	GLY	N-CA-C	-7.77	93.68	113.10
31	BA	367	U	C1'-O4'-C4'	-7.75	103.70	109.90
21	AV	61	LEU	C-N-CD	-7.75	103.55	120.60
55	DA	1252	G	N9-C1'-C2'	7.71	124.02	114.00
55	DA	1380	G	O4'-C1'-N9	-7.71	102.03	108.20
55	DA	1372	U	O4'-C1'-N1	-7.70	102.04	108.20
55	DA	1397	U	C2'-C3'-O3'	7.69	126.42	109.50
55	DA	301	G	N9-C1'-C2'	7.67	123.97	114.00
55	DA	70	G	C2'-C3'-O3'	7.67	126.37	109.50
21	DV	176	PRO	C-N-CD	-7.62	103.84	120.60
54	CA	246	A	N9-C1'-C2'	7.61	123.89	114.00
54	CA	367	U	N1-C1'-C2'	7.59	123.87	114.00
55	DA	1397	U	N1-C1'-C2'	7.59	123.86	114.00
55	DA	529	A	N9-C1'-C2'	7.57	123.84	114.00
56	DJ	3	LEU	CB-CG-CD1	7.54	123.81	111.00
57	DY	138	LEU	N-CA-C	-7.54	90.66	111.00
54	CA	1064	G	N9-C1'-C2'	7.50	123.74	114.00
49	CV	6	LYS	O-C-N	7.49	134.68	122.70
53	B1	53	U	O4'-C1'-N1	7.45	114.16	108.20
54	CA	13	U	N1-C1'-C2'	7.43	123.66	114.00
1	AA	2835	A	N9-C1'-C2'	7.42	123.64	114.00
55	DA	70	G	N9-C1'-C2'	7.41	123.63	114.00
55	DA	199	A	N9-C1'-C2'	7.41	123.63	114.00
54	CA	1542	U	N1-C1'-C2'	-7.40	103.86	112.00
1	AA	83	G	N9-C1'-C2'	7.39	123.60	114.00
55	DA	383	U	N1-C2-O2	7.37	127.96	122.80
55	DA	654(S)	G	N9-C1'-C2'	-7.36	103.91	112.00
55	DA	1197	G	C5-C6-O6	7.36	133.02	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	BU	18	ARG	N-CA-C	-7.30	91.30	111.00
1	AA	1379	A	N9-C1'-C2'	7.29	123.47	114.00
55	DA	227	A	N9-C1'-C2'	7.28	123.46	114.00
55	DA	913	U	N1-C1'-C2'	7.28	123.46	114.00
1	AA	2681	C	N1-C1'-C2'	7.27	123.45	114.00
55	DA	139	G	N9-C1'-C2'	7.27	123.45	114.00
54	CA	1054	C	N1-C1'-C2'	7.26	123.44	114.00
55	DA	1372	U	N3-C4-C5	7.26	118.96	114.60
54	CA	702	A	N9-C1'-C2'	7.25	123.43	114.00
56	DI	27	LEU	CA-CB-CG	7.25	131.98	115.30
55	DA	801	G	N9-C1'-C2'	7.24	123.41	114.00
55	DA	2585	U	N1-C1'-C2'	7.24	123.41	114.00
57	DY	67	GLY	N-CA-C	7.23	131.17	113.10
2	DB	95	U	N1-C2-O2	7.21	127.84	122.80
54	CA	794	A	C4-N9-C1'	7.21	139.27	126.30
55	DA	1634	A	N9-C1'-C2'	7.20	123.36	114.00
1	AA	1397	U	C2'-C3'-O3'	7.19	125.32	109.50
31	BA	1504	G	N9-C1'-C2'	7.17	123.32	114.00
31	BA	246	A	N9-C1'-C2'	7.17	123.31	114.00
1	AA	2566	A	N9-C1'-C2'	7.16	123.31	114.00
55	DA	2345	G	N9-C1'-C2'	7.16	123.31	114.00
55	DA	1653	G	C2'-C3'-O3'	7.14	125.20	109.50
54	CA	1201	A	N9-C1'-C2'	7.13	123.27	114.00
1	AA	1652	A	C2'-C3'-O3'	7.12	125.18	109.50
55	DA	1341	U	N1-C1'-C2'	7.12	123.25	114.00
55	DA	526	A	N9-C1'-C2'	7.11	123.24	114.00
55	DA	945	A	O4'-C1'-N9	7.11	113.89	108.20
55	DA	1992	G	N9-C1'-C2'	7.11	123.24	114.00
1	AA	1992	G	C2'-C3'-O3'	7.09	125.10	109.50
54	CA	1498	U	C2'-C3'-O3'	7.08	125.08	109.50
55	DA	739	G	N9-C1'-C2'	7.07	123.19	114.00
57	DY	51	LEU	CB-CA-C	-7.06	96.79	110.20
55	DA	1212	G	C2'-C3'-O3'	7.04	125.00	109.50
55	DA	2391	G	N9-C1'-C2'	7.04	123.15	114.00
1	AA	1566	A	N9-C1'-C2'	7.02	123.13	114.00
31	BA	575	G	N9-C1'-C2'	7.02	123.12	114.00
55	DA	945	A	C3'-C2'-C1'	-7.02	95.89	101.50
1	AA	1329	U	N1-C1'-C2'	7.00	123.11	114.00
55	DA	1272	A	O4'-C1'-N9	7.00	113.80	108.20
1	AA	352	G	N9-C1'-C2'	7.00	123.10	114.00
4	DE	21	VAL	C-N-CD	-6.99	105.23	120.60
54	CA	794	A	C8-N9-C1'	-6.98	115.14	127.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	1201	A	N9-C1'-C2'	6.96	123.05	114.00
31	BA	7	G	N9-C1'-C2'	6.95	123.03	114.00
55	DA	685	A	N9-C1'-C2'	6.94	123.02	114.00
31	BA	1529	G	O4'-C1'-N9	6.94	113.75	108.20
54	CA	518	C	N1-C1'-C2'	6.93	123.02	114.00
57	DY	19	ARG	NE-CZ-NH2	6.92	123.76	120.30
1	AA	1609	A	N9-C1'-C2'	6.90	122.97	114.00
1	AA	2238	G	N9-C1'-C2'	6.89	122.95	114.00
49	CV	85	LYS	N-CA-C	-6.88	92.42	111.00
1	AA	1966	A	N9-C1'-C2'	6.88	122.94	114.00
1	AA	322	A	O4'-C1'-N9	6.87	113.70	108.20
1	AA	654(S)	G	N9-C1'-C2'	-6.86	104.46	112.00
1	AA	371	A	N9-C1'-C2'	6.84	122.89	114.00
55	DA	1022	G	N9-C1'-C2'	6.83	122.88	114.00
55	DA	1385	G	N9-C1'-C2'	6.81	122.86	114.00
1	AA	2345	G	N9-C1'-C2'	6.80	122.85	114.00
31	BA	794	A	C4-N9-C1'	6.78	138.51	126.30
54	CA	788	U	C2-N3-C4	-6.78	122.94	127.00
1	AA	1428	C	N1-C1'-C2'	6.76	122.79	114.00
52	CB	74	C	P-O3'-C3'	6.75	127.80	119.70
55	DA	1250	G	N9-C1'-C2'	6.75	122.78	114.00
1	AA	1780	A	N9-C1'-C2'	6.75	122.77	114.00
54	CA	717	C	N1-C1'-C2'	6.75	122.77	114.00
55	DA	72	U	N1-C1'-C2'	6.74	122.76	114.00
55	DA	2275	C	N1-C1'-C2'	6.73	122.75	114.00
1	AA	1800	C	N1-C1'-C2'	6.69	122.69	114.00
1	AA	2866	U	N1-C1'-C2'	6.69	122.69	114.00
1	AA	1378	A	P-O3'-C3'	6.68	127.72	119.70
1	AA	2448	A	N9-C1'-C2'	6.67	122.67	114.00
55	DA	2286	A	O4'-C1'-N9	6.67	113.53	108.20
1	AA	2447	G	N9-C1'-C2'	6.66	122.65	114.00
1	AA	60	G	N9-C1'-C2'	6.65	122.65	114.00
55	DA	1647	G	N9-C1'-C2'	6.65	122.64	114.00
31	BA	197	A	N9-C1'-C2'	6.65	122.64	114.00
57	DY	111	LEU	CA-C-N	6.65	131.82	117.20
55	DA	99	U	N1-C1'-C2'	6.64	122.64	114.00
57	DY	128	LEU	C-N-CD	-6.64	105.99	120.60
55	DA	856	C	C2'-C3'-O3'	6.64	124.32	113.70
54	CA	1498	U	N1-C1'-C2'	6.62	122.61	114.00
1	AA	421	U	N1-C1'-C2'	6.62	122.61	114.00
55	DA	2060	A	C5'-C4'-O4'	-6.61	101.16	109.10
58	DL	23	VAL	N-CA-C	-6.61	93.15	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	DA	1786	A	N9-C1'-C2'	6.61	122.59	114.00
31	BA	8	A	N9-C1'-C2'	6.59	122.57	114.00
1	AA	2656	U	C5-C4-O4	-6.59	121.95	125.90
21	AV	176	PRO	C-N-CD	-6.59	106.11	120.60
1	AA	571	A	N9-C1'-C2'	6.57	122.54	114.00
54	CA	653	A	N9-C1'-C2'	6.56	122.53	114.00
1	AA	120	U	N1-C1'-C2'	6.54	122.51	114.00
55	DA	793	A	N9-C1'-C2'	6.54	122.50	114.00
31	BA	794	A	C8-N9-C1'	-6.54	115.93	127.70
1	AA	607	U	N3-C4-O4	-6.53	114.83	119.40
55	DA	2820	A	N9-C1'-C2'	6.52	122.47	114.00
54	CA	1159	U	N1-C1'-C2'	6.51	122.47	114.00
55	DA	1838	C	N1-C1'-C2'	6.51	122.47	114.00
55	DA	455	C	N1-C1'-C2'	6.50	122.45	114.00
56	DI	29	GLU	CA-CB-CG	-6.48	99.15	113.40
55	DA	1954	G	N9-C1'-C2'	6.46	122.40	114.00
1	AA	2060	A	N9-C1'-C2'	6.46	122.40	114.00
58	DL	47	ASN	N-CA-C	-6.46	93.56	111.00
55	DA	97	C	C5'-C4'-C3'	-6.46	105.67	116.00
54	CA	47	C	N1-C1'-C2'	6.45	122.38	114.00
55	DA	829	A	N9-C1'-C2'	6.44	122.38	114.00
55	DA	1925	C	C2-N3-C4	-6.44	116.68	119.90
54	CA	872	A	O4'-C1'-N9	6.44	113.35	108.20
1	AA	1786	A	N9-C1'-C2'	6.44	122.37	114.00
1	AA	1698	A	N9-C1'-C2'	6.40	122.32	114.00
15	DR	59	THR	N-CA-C	-6.39	93.74	111.00
31	BA	190	G	N9-C1'-C2'	6.37	122.28	114.00
1	AA	2286	A	N9-C1'-C2'	6.35	122.25	114.00
1	AA	2645	G	N9-C1'-C2'	6.34	122.24	114.00
55	DA	2726	U	N1-C1'-C2'	6.33	122.23	114.00
1	AA	1380	G	O4'-C1'-N9	-6.33	103.14	108.20
31	BA	1502	A	N9-C1'-C2'	6.33	122.22	114.00
1	AA	1818	U	N1-C1'-C2'	6.32	122.22	114.00
58	DL	27	LEU	CA-CB-CG	6.31	129.82	115.30
34	BG	33	MET	N-CA-C	-6.31	93.96	111.00
55	DA	434	U	N1-C1'-C2'	6.30	122.20	114.00
1	AA	2873	A	N9-C1'-C2'	6.30	122.19	114.00
54	CA	993	G	N9-C1'-C2'	6.29	122.18	114.00
55	DA	1372	U	C5-C4-O4	-6.28	122.13	125.90
55	DA	2725	A	N9-C1'-C2'	6.28	122.16	114.00
1	AA	1342	A	O3'-P-O5'	-6.27	92.08	104.00
55	DA	1934	C	C5'-C4'-O4'	-6.27	101.58	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	2665	A	C5-C6-N6	-6.26	118.69	123.70
55	DA	1698	A	C2'-C3'-O3'	6.25	123.71	113.70
55	DA	457	A	N9-C1'-C2'	6.25	122.13	114.00
55	DA	1534	G	N9-C1'-C2'	-6.25	105.12	112.00
55	DA	897	C	C2-N1-C1'	6.25	125.67	118.80
1	AA	1385	G	N9-C1'-C2'	6.24	122.12	114.00
31	BA	717	C	N1-C1'-C2'	6.24	122.11	114.00
1	AA	2458	G	N9-C1'-C2'	6.24	122.11	114.00
55	DA	654(H)	G	C4-N9-C1'	6.22	134.59	126.50
31	BA	328	C	N1-C1'-C2'	6.21	122.08	114.00
55	DA	2665	A	C6-N1-C2	-6.21	114.87	118.60
55	DA	222	A	N9-C1'-C2'	6.21	122.07	114.00
55	DA	2665	A	C5-C6-N1	6.20	120.80	117.70
55	DA	5	A	OP1-P-OP2	6.19	128.88	119.60
55	DA	1950	G	O4'-C1'-N9	6.19	113.15	108.20
55	DA	654(H)	G	O4'-C1'-N9	-6.19	103.25	108.20
55	DA	621	A	C5-C6-N6	-6.19	118.75	123.70
55	DA	1955	U	N1-C1'-C2'	6.18	122.03	114.00
55	DA	1544	C	O4'-C1'-C2'	6.17	113.15	107.60
31	BA	653	A	N9-C1'-C2'	6.17	122.02	114.00
1	AA	2690	C	N1-C1'-C2'	6.16	122.01	114.00
55	DA	1799	G	N9-C1'-C2'	6.15	122.00	114.00
1	AA	1372	U	O3'-P-O5'	6.14	115.67	104.00
58	DL	52	ILE	CB-CA-C	-6.14	99.33	111.60
1	AA	323	G	C1'-O4'-C4'	-6.12	105.00	109.90
55	DA	2789	C	C1'-O4'-C4'	-6.12	105.00	109.90
57	DY	80	VAL	CG1-CB-CG2	-6.12	101.11	110.90
20	AU	20	TYR	N-CA-C	-6.11	94.49	111.00
55	DA	1081	U	N1-C1'-C2'	6.11	121.95	114.00
55	DA	1966	A	N9-C1'-C2'	6.11	121.94	114.00
11	DO	67	MET	N-CA-C	-6.11	94.52	111.00
54	CA	328	C	N1-C1'-C2'	6.10	121.93	114.00
3	DD	229	VAL	CB-CA-C	-6.10	99.81	111.40
55	DA	1307	A	C5'-C4'-C3'	-6.09	106.26	116.00
55	DA	2542	A	N9-C1'-C2'	6.09	121.91	114.00
1	AA	621	A	C5-C6-N6	-6.08	118.83	123.70
1	AA	2873	A	O4'-C1'-N9	6.08	113.07	108.20
55	DA	621	A	C6-N1-C2	-6.08	114.95	118.60
55	DA	2665	A	N1-C6-N6	6.07	122.24	118.60
55	DA	793	A	C4'-C3'-O3'	-6.07	96.66	109.40
21	DV	153	SER	N-CA-CB	-6.07	101.40	110.50
1	AA	2712	U	O4'-C1'-N1	6.07	113.05	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	DA	1567	A	N9-C1'-C2'	6.06	121.88	114.00
54	CA	509	A	C2'-C3'-O3'	6.05	123.39	113.70
1	AA	1302	A	N9-C1'-C2'	6.05	121.87	114.00
1	AA	2789	C	C1'-O4'-C4'	-6.04	105.06	109.90
1	AA	301	G	N9-C1'-C2'	6.04	121.85	114.00
56	DJ	23	LEU	N-CA-C	-6.04	94.70	111.00
1	AA	5	A	OP1-P-OP2	6.03	128.65	119.60
4	DE	118	LYS	N-CA-C	-6.03	94.72	111.00
23	AZ	36	GLY	N-CA-C	6.03	128.17	113.10
34	BG	21	LEU	CA-CB-CG	-6.02	101.45	115.30
55	DA	2702	U	N1-C1'-C2'	6.02	121.83	114.00
55	DA	2681	C	C2'-C3'-O3'	6.01	123.31	113.70
55	DA	896	A	N9-C1'-C2'	6.00	121.80	114.00
55	DA	1602	U	N1-C1'-C2'	6.00	121.80	114.00
55	DA	1427	A	N9-C1'-C2'	5.99	121.79	114.00
55	DA	573	G	N9-C1'-C2'	5.98	121.78	114.00
1	AA	2702	U	N1-C1'-C2'	5.98	121.77	114.00
1	AA	446	G	N9-C1'-C2'	5.98	121.77	114.00
55	DA	479	A	N9-C1'-C2'	5.98	121.77	114.00
26	D4	36	CYS	CA-CB-SG	5.98	124.76	114.00
1	AA	199	A	N9-C1'-C2'	5.97	121.77	114.00
26	D4	39	CYS	CA-CB-SG	5.97	124.74	114.00
7	DH	124	GLU	N-CA-C	-5.97	94.89	111.00
54	CA	50	A	N9-C1'-C2'	5.96	121.75	114.00
31	BA	243	A	N9-C1'-C2'	5.96	121.74	114.00
57	DY	39	ALA	N-CA-C	-5.95	94.93	111.00
55	DA	1800	C	N1-C1'-C2'	5.95	121.73	114.00
1	AA	2285	C	P-O3'-C3'	-5.94	112.57	119.70
31	BA	1528	U	N1-C1'-C2'	5.94	121.72	114.00
1	AA	2051	A	N9-C1'-C2'	5.94	121.72	114.00
21	DV	109	ALA	N-CA-C	-5.93	94.98	111.00
55	DA	995	C	N1-C1'-C2'	5.93	121.71	114.00
1	AA	930	U	N1-C1'-C2'	5.92	121.70	114.00
55	DA	27	G	C5'-C4'-O4'	-5.92	102.00	109.10
55	DA	2468	G	O4'-C1'-N9	5.92	112.93	108.20
1	AA	1970	A	N9-C1'-C2'	5.91	121.69	114.00
52	BB	74	C	O4'-C1'-N1	5.90	112.92	108.20
55	DA	1359	A	C4-C5-N7	5.89	113.64	110.70
1	AA	603	A	N9-C1'-C2'	5.88	121.65	114.00
55	DA	791	C	N1-C1'-C2'	5.88	121.65	114.00
1	AA	2656	U	N1-C1'-C2'	-5.88	105.53	112.00
53	C1	48	U	N1-C1'-C2'	5.88	121.64	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	DA	930	U	N1-C1'-C2'	5.87	121.63	114.00
1	AA	989	G	N9-C1'-C2'	5.87	121.63	114.00
55	DA	2681	C	N1-C1'-C2'	5.87	121.63	114.00
34	CG	31	CYS	N-CA-C	-5.86	95.17	111.00
55	DA	654(H)	G	C8-N9-C1'	-5.86	119.38	127.00
1	AA	739	G	N9-C1'-C2'	5.86	121.62	114.00
52	BC	43	C	C2'-C3'-O3'	5.86	123.07	113.70
55	DA	1025	G	N9-C1'-C2'	5.86	121.61	114.00
55	DA	2490	G	N9-C1'-C2'	5.86	121.61	114.00
1	AA	1762	A	N9-C1'-C2'	5.85	121.61	114.00
1	AA	125	G	N9-C1'-C2'	5.85	121.60	114.00
55	DA	2426	A	N9-C1'-C2'	5.84	121.59	114.00
55	DA	2205	C	C5'-C4'-C3'	-5.84	106.66	116.00
55	DA	196	A	O4'-C1'-N9	5.83	112.86	108.20
55	DA	932	G	O4'-C1'-N9	5.82	112.86	108.20
55	DA	2866	U	C2'-C3'-O3'	5.80	122.99	113.70
31	BA	595	G	N9-C1'-C2'	5.79	121.53	114.00
1	AA	323	G	N9-C1'-C2'	5.79	121.53	114.00
54	CA	1124	G	N9-C1'-C2'	5.79	121.53	114.00
55	DA	1359	A	N7-C8-N9	5.79	116.69	113.80
11	AO	115	LEU	CA-CB-CG	5.79	128.60	115.30
1	AA	2873	A	C1'-O4'-C4'	-5.78	105.27	109.90
55	DA	1566	A	N9-C1'-C2'	5.78	121.52	114.00
55	DA	60	G	N9-C1'-C2'	5.78	121.51	114.00
1	AA	1385	G	O4'-C1'-N9	5.78	112.82	108.20
1	AA	2572	A	N9-C1'-C2'	5.77	121.50	114.00
55	DA	458	G	N9-C1'-C2'	5.76	121.49	114.00
55	DA	1607	C	N1-C1'-C2'	5.76	121.49	114.00
1	AA	913	U	N1-C1'-C2'	5.75	121.48	114.00
55	DA	2198	A	N9-C1'-C2'	5.75	121.47	114.00
58	DL	76	TYR	CA-CB-CG	5.75	124.32	113.40
1	AA	1359	A	C6-C5-N7	-5.74	128.28	132.30
55	DA	624	C	C5'-C4'-C3'	-5.74	106.81	116.00
53	B1	56	U	N1-C1'-C2'	5.73	121.45	114.00
55	DA	2507	C	C5'-C4'-O4'	-5.73	102.22	109.10
58	DL	132	ARG	NE-CZ-NH2	-5.73	117.44	120.30
1	AA	15	G	N9-C1'-C2'	-5.72	105.71	112.00
1	AA	2275	C	N1-C1'-C2'	5.72	121.44	114.00
1	AA	2490	G	O4'-C1'-N9	5.72	112.77	108.20
54	CA	1190	G	N9-C1'-C2'	5.71	121.43	114.00
54	CA	243	A	N9-C1'-C2'	5.71	121.43	114.00
1	AA	2346	A	N9-C1'-C2'	5.71	121.42	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	2384	G	N9-C1'-C2'	5.71	121.42	114.00
55	DA	2490	G	O4'-C1'-N9	5.71	112.77	108.20
4	DE	58	ARG	N-CA-C	-5.71	95.59	111.00
1	AA	562	U	N1-C1'-C2'	5.70	121.41	114.00
1	AA	2506	U	N1-C1'-C2'	5.70	121.42	114.00
1	AA	322	A	N9-C4-C5	5.70	108.08	105.80
54	CA	818	G	N9-C1'-C2'	5.70	121.41	114.00
31	BA	1064	G	N9-C1'-C2'	5.70	121.41	114.00
55	DA	830	G	C5'-C4'-O4'	-5.70	102.26	109.10
1	AA	955	C	C5'-C4'-C3'	-5.69	106.89	116.00
2	DB	95	U	N3-C4-O4	-5.69	115.42	119.40
58	DL	70	LYS	N-CA-C	-5.68	95.66	111.00
54	CA	559	A	N9-C1'-C2'	5.68	121.38	114.00
2	DB	81	G	N1-C6-O6	-5.67	116.50	119.90
55	DA	1693	U	C5'-C4'-C3'	-5.67	106.93	116.00
1	AA	448	U	N1-C1'-C2'	5.66	121.36	114.00
54	CA	630	G	N9-C1'-C2'	-5.66	105.77	112.00
55	DA	654(H)	G	C5'-C4'-O4'	5.66	115.89	109.10
21	DV	200	GLY	CA-C-O	-5.65	110.43	120.60
1	AA	654(M)	C	C2-N1-C1'	5.64	125.01	118.80
55	DA	687	C	C5'-C4'-C3'	-5.64	106.97	116.00
1	AA	5	A	O5'-P-OP2	-5.64	100.62	105.70
13	D0	58	GLY	N-CA-C	5.64	127.20	113.10
1	AA	1397	U	N1-C1'-C2'	5.64	121.33	114.00
57	DY	50	ARG	NE-CZ-NH1	-5.64	117.48	120.30
1	AA	2391	G	N9-C1'-C2'	5.63	121.33	114.00
58	DL	52	ILE	CB-CG1-CD1	-5.63	98.13	113.90
52	BB	9	A	C2'-C3'-O3'	5.63	122.71	113.70
54	CA	801	U	C5'-C4'-O4'	-5.62	102.36	109.10
1	AA	2062	A	N9-C1'-C2'	5.61	121.30	114.00
55	DA	989	G	O4'-C1'-N9	5.61	112.69	108.20
31	BA	251	G	N9-C1'-C2'	5.61	121.29	114.00
55	DA	2425	A	O4'-C1'-N9	5.61	112.68	108.20
55	DA	1324	G	N9-C1'-C2'	5.60	121.28	114.00
54	CA	115	G	N9-C1'-C2'	5.60	121.28	114.00
54	CA	97	U	N1-C2-O2	5.59	126.72	122.80
11	DO	34	GLY	N-CA-C	5.59	127.07	113.10
55	DA	2311	A	O4'-C1'-C2'	-5.58	100.22	105.80
1	AA	1372	U	C1'-O4'-C4'	-5.58	105.44	109.90
55	DA	196	A	C1'-O4'-C4'	-5.58	105.44	109.90
57	DY	130	THR	N-CA-C	-5.58	95.94	111.00
31	BA	815	A	N9-C1'-C2'	5.57	121.25	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	DA	323	G	O4'-C1'-N9	5.57	112.66	108.20
31	BA	109	A	N9-C1'-C2'	5.57	121.24	114.00
55	DA	654(M)	C	C2-N1-C1'	5.55	124.91	118.80
55	DA	2311	A	C3'-C2'-C1'	-5.55	97.06	101.50
56	DJ	30	ALA	CA-C-O	5.55	131.76	120.10
4	AE	61	ARG	N-CA-C	-5.55	96.02	111.00
55	DA	896	A	C4-N9-C1'	-5.55	116.32	126.30
55	DA	2517	C	C2'-C3'-O3'	5.55	122.58	113.70
55	DA	311	A	N9-C1'-C2'	5.54	121.21	114.00
1	AA	2406	U	N1-C1'-C2'	5.54	121.21	114.00
55	DA	74	A	C4-N9-C1'	-5.54	116.34	126.30
55	DA	1128	A	N9-C1'-C2'	5.54	121.20	114.00
1	AA	829	A	N9-C1'-C2'	5.53	121.19	114.00
56	DI	10	GLU	N-CA-C	-5.53	96.07	111.00
57	DY	134	LEU	CA-CB-CG	5.53	128.02	115.30
1	AA	1342	A	OP2-P-O3'	-5.52	93.05	105.20
1	AA	1372	U	N1-C2-N3	-5.52	111.59	114.90
26	D4	19	GLY	N-CA-C	-5.52	99.29	113.10
1	AA	2656	U	N3-C4-O4	-5.52	115.54	119.40
31	BA	818	G	N9-C1'-C2'	5.52	121.17	114.00
52	CD	45	U	C1'-O4'-C4'	-5.51	105.49	109.90
55	DA	2469	A	C1'-O4'-C4'	-5.51	105.49	109.90
55	DA	74	A	C8-N9-C1'	5.51	137.61	127.70
1	AA	72	U	N1-C1'-C2'	5.50	121.15	114.00
1	AA	1272	A	O4'-C1'-N9	5.50	112.60	108.20
55	DA	125	G	C5'-C4'-C3'	-5.50	107.20	116.00
54	CA	630	G	C3'-C2'-C1'	-5.50	97.10	101.50
31	BA	250	A	N9-C1'-C2'	5.49	121.14	114.00
55	DA	2346	A	N9-C1'-C2'	5.49	121.14	114.00
55	DA	1407	C	C5'-C4'-C3'	-5.49	107.22	116.00
55	DA	2307	G	C8-N9-C4	-5.49	104.20	106.40
55	DA	1302	A	N9-C1'-C2'	5.48	121.13	114.00
56	DJ	6	GLU	OE1-CD-OE2	5.48	129.88	123.30
31	BA	559	A	N9-C1'-C2'	5.48	121.12	114.00
31	BA	566	G	N9-C1'-C2'	5.48	121.12	114.00
55	DA	83	G	N9-C1'-C2'	5.48	121.12	114.00
1	AA	1598	C	C5'-C4'-C3'	-5.47	107.24	116.00
2	DB	81	G	C5-C6-O6	5.47	131.88	128.60
1	AA	1380	G	P-O5'-C5'	-5.47	112.15	120.90
12	DP	10	ARG	N-CA-C	-5.47	96.24	111.00
54	CA	1502	A	O4'-C1'-N9	5.45	112.56	108.20
55	DA	1379	A	P-O3'-C3'	5.45	126.24	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	2311	A	C3'-C2'-C1'	-5.45	97.14	101.50
1	AA	531	C	C1'-O4'-C4'	-5.44	105.55	109.90
55	DA	67	U	C2-N3-C4	5.44	130.26	127.00
1	AA	215	G	N9-C1'-C2'	5.44	121.07	114.00
55	DA	2266	A	N9-C1'-C2'	5.44	121.07	114.00
54	CA	960	U	N1-C1'-C2'	5.43	121.06	114.00
1	AA	249	C	O4'-C1'-N1	5.42	112.54	108.20
55	DA	2320	A	N9-C1'-C2'	5.41	121.04	114.00
1	AA	1962	C	N1-C1'-C2'	5.41	121.04	114.00
1	AA	654(H)	G	C4-N9-C1'	5.41	133.53	126.50
55	DA	805	G	O4'-C1'-N9	5.41	112.53	108.20
42	CO	47	LYS	C-N-CD	-5.41	108.70	120.60
57	DY	72	ASP	CB-CG-OD1	5.41	123.17	118.30
55	DA	2249	U	N1-C1'-C2'	5.40	121.03	114.00
1	AA	403	U	N1-C1'-C2'	5.40	121.02	114.00
2	DB	44	G	N9-C1'-C2'	5.39	121.01	114.00
1	AA	856	C	C2'-C3'-O3'	5.38	122.31	113.70
1	AA	1344	G	N9-C1'-C2'	5.38	121.00	114.00
54	CA	752	G	N9-C1'-C2'	5.38	120.99	114.00
55	DA	74	A	C5-C6-N6	5.38	128.00	123.70
55	DA	1558	A	N9-C1'-C2'	5.37	120.99	114.00
1	AA	1372	U	N3-C4-C5	5.37	117.82	114.60
34	BG	34	GLU	N-CA-C	-5.37	96.50	111.00
55	DA	784	A	N9-C1'-C2'	5.36	120.97	114.00
55	DA	897	C	O4'-C1'-N1	-5.36	103.91	108.20
54	CA	47	C	O4'-C1'-N1	5.36	112.48	108.20
55	DA	896	A	C8-N9-C1'	5.36	137.34	127.70
55	DA	2566	A	OP2-P-O3'	5.35	116.97	105.20
57	DY	30	GLN	N-CA-C	-5.35	96.56	111.00
54	CA	1322	C	N1-C1'-C2'	5.35	120.95	114.00
14	DQ	54	LEU	CA-CB-CG	5.35	127.60	115.30
58	DL	116	ASN	N-CA-C	-5.35	96.56	111.00
1	AA	249	C	C2'-C3'-O3'	-5.34	97.75	109.50
55	DA	1300	U	N1-C1'-C2'	5.34	120.95	114.00
55	DA	1616	A	O4'-C1'-N9	5.34	112.47	108.20
31	BA	960	U	N1-C1'-C2'	5.34	120.94	114.00
1	AA	1360	A	C5'-C4'-C3'	-5.34	107.46	116.00
54	CA	794	A	C6-N1-C2	-5.34	115.40	118.60
58	DL	121	GLU	N-CA-C	-5.34	96.59	111.00
1	AA	531	C	O4'-C1'-N1	5.34	112.47	108.20
58	DL	28	GLY	N-CA-C	-5.34	99.76	113.10
1	AA	2311	A	O4'-C1'-C2'	-5.33	100.47	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	CA	305	G	N9-C1'-C2'	5.33	120.92	114.00
1	AA	310	A	N9-C1'-C2'	5.32	120.92	114.00
34	BG	12	CYS	CA-CB-SG	5.32	123.58	114.00
55	DA	278	A	C2'-C3'-O3'	5.32	122.22	113.70
55	DA	788	A	OP2-P-O3'	5.32	116.91	105.20
55	DA	474	G	C2'-C3'-O3'	5.32	122.21	113.70
55	DA	1519	G	C5'-C4'-C3'	-5.32	107.49	116.00
54	CA	1003	G	C3'-C2'-C1'	-5.31	97.25	101.50
1	AA	4	C	O3'-P-O5'	5.31	114.09	104.00
34	CG	31	CYS	CA-CB-SG	5.31	123.56	114.00
55	DA	2524	G	C5'-C4'-C3'	-5.31	107.50	116.00
54	CA	1177	G	N9-C1'-C2'	5.31	120.90	114.00
55	DA	1281	G	C5'-C4'-O4'	-5.30	102.74	109.10
1	AA	1822	G	C5'-C4'-O4'	-5.30	102.74	109.10
54	CA	1299	A	N9-C1'-C2'	5.29	120.88	114.00
54	CA	410	G	C2'-C3'-O3'	5.29	122.16	113.70
1	AA	1372	U	C6-N1-C2	5.28	124.17	121.00
54	CA	47	C	C1'-O4'-C4'	-5.28	105.67	109.90
55	DA	503	A	N9-C1'-C2'	5.28	120.87	114.00
55	DA	101	G	N9-C1'-C2'	5.28	120.87	114.00
55	DA	2060	A	OP1-P-O3'	5.27	116.80	105.20
58	DL	12	LEU	CA-CB-CG	-5.27	103.19	115.30
55	DA	752	A	OP2-P-O3'	5.27	116.79	105.20
55	DA	829	A	C4'-C3'-O3'	-5.27	98.34	109.40
55	DA	2245	U	C5'-C4'-C3'	-5.27	107.57	116.00
21	DV	179	ASP	N-CA-C	-5.26	96.79	111.00
31	BA	819	A	N9-C1'-C2'	5.26	120.84	114.00
55	DA	897	C	C5'-C4'-O4'	5.26	115.41	109.10
55	DA	1359	A	C5-N7-C8	-5.26	101.27	103.90
58	DL	84	LEU	N-CA-C	-5.26	96.81	111.00
55	DA	926	A	C5'-C4'-C3'	-5.25	107.59	116.00
54	CA	279	A	N9-C1'-C2'	5.24	120.81	114.00
55	DA	1543	A	N9-C1'-C2'	5.24	120.81	114.00
55	DA	1791	A	O5'-P-OP1	-5.24	100.98	105.70
55	DA	1178	C	C2'-C3'-O3'	5.24	122.08	113.70
55	DA	1344	G	N9-C1'-C2'	5.23	120.80	114.00
11	DO	59	LEU	N-CA-C	-5.23	96.88	111.00
52	BB	10	G	C2'-C3'-O3'	5.23	122.07	113.70
54	CA	315	A	N9-C1'-C2'	5.23	120.80	114.00
8	DK	135	GLU	N-CA-C	5.22	125.10	111.00
55	DA	1701	A	C5'-C4'-C3'	-5.22	107.65	116.00
58	DL	38	VAL	N-CA-C	-5.21	96.93	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	232	G	N9-C1'-C2'	5.20	120.77	114.00
44	CQ	40	CYS	CA-CB-SG	5.20	123.36	114.00
55	DA	1325	G	N9-C1'-C2'	5.20	120.76	114.00
55	DA	1900	A	N9-C1'-C2'	5.20	120.76	114.00
55	DA	788	A	C2'-C3'-O3'	5.20	122.02	113.70
57	DY	32	LEU	CA-CB-CG	5.19	127.25	115.30
1	AA	687	C	C5'-C4'-C3'	-5.19	107.69	116.00
1	AA	2426	A	N9-C1'-C2'	5.19	120.75	114.00
31	BA	1157	A	N9-C1'-C2'	5.19	120.75	114.00
1	AA	2346	A	C1'-O4'-C4'	-5.19	105.75	109.90
30	A8	32	LEU	CA-CB-CG	5.19	127.23	115.30
1	AA	241	A	N9-C1'-C2'	5.18	120.74	114.00
55	DA	2033	A	N9-C1'-C2'	5.18	120.74	114.00
1	AA	2250	G	N9-C1'-C2'	5.18	120.74	114.00
53	B1	50	U	C5'-C4'-C3'	-5.18	107.71	116.00
55	DA	1015	G	C5'-C4'-C3'	-5.18	107.71	116.00
34	BG	20	TYR	C-N-CA	5.17	134.64	121.70
55	DA	1791	A	C5'-C4'-C3'	-5.17	107.72	116.00
55	DA	474	G	N9-C1'-C2'	5.17	120.72	114.00
57	DY	136	ALA	N-CA-C	-5.17	97.03	111.00
31	BA	702	A	N9-C1'-C2'	5.17	120.72	114.00
55	DA	4	C	O3'-P-O5'	5.17	113.82	104.00
55	DA	1786	A	O4'-C1'-N9	5.17	112.33	108.20
55	DA	945	A	C4-C5-C6	5.16	119.58	117.00
1	AA	1359	A	C4-C5-N7	5.16	113.28	110.70
1	AA	1385	G	C1'-O4'-C4'	-5.16	105.77	109.90
55	DA	1694	C	C5'-C4'-C3'	-5.16	107.75	116.00
31	BA	209	U	N1-C1'-C2'	5.15	120.70	114.00
52	BB	74	C	C1'-O4'-C4'	-5.15	105.78	109.90
56	DJ	28	LYS	N-CA-C	-5.15	97.08	111.00
1	AA	2275	C	C2'-C3'-O3'	5.15	121.94	113.70
55	DA	2832	U	C2'-C3'-O3'	5.14	121.92	113.70
55	DA	454	A	C5'-C4'-C3'	-5.14	107.78	116.00
55	DA	539	G	C5'-C4'-C3'	-5.14	107.78	116.00
11	AO	65	ARG	N-CA-C	-5.14	97.13	111.00
52	CB	9	A	C2'-C3'-O3'	5.14	121.92	113.70
55	DA	1773	A	N9-C1'-C2'	-5.14	106.35	112.00
1	AA	532	A	N9-C1'-C2'	5.13	120.67	114.00
57	DY	100	ASN	N-CA-C	-5.13	97.14	111.00
26	A4	16	CYS	CA-CB-SG	5.13	123.23	114.00
31	BA	982	U	N1-C1'-C2'	5.13	120.67	114.00
26	D4	70	GLY	N-CA-C	5.12	125.91	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	DA	1925	C	O4'-C4'-C3'	-5.12	98.88	104.00
1	AA	2542	A	N9-C1'-C2'	5.12	120.66	114.00
55	DA	1143	A	N9-C1'-C2'	5.12	120.66	114.00
1	AA	1939	U	N1-C1'-C2'	5.12	120.65	114.00
3	AD	224	ALA	N-CA-C	-5.12	97.18	111.00
55	DA	1359	A	O4'-C1'-C2'	-5.12	100.68	105.80
26	D4	45	GLY	N-CA-C	-5.12	100.31	113.10
31	BA	366	C	N1-C1'-C2'	5.12	120.65	114.00
1	AA	2061	G	N9-C1'-C2'	5.11	120.65	114.00
55	DA	530	G	N9-C1'-C2'	5.11	120.65	114.00
1	AA	1694	C	N1-C1'-C2'	5.11	120.64	114.00
55	DA	1294	U	C5'-C4'-C3'	-5.11	107.83	116.00
31	BA	130	A	N9-C1'-C2'	5.10	120.64	114.00
54	CA	1506	U	N1-C1'-C2'	5.10	120.64	114.00
1	AA	50	U	N1-C1'-C2'	5.10	120.63	114.00
55	DA	1609	A	C4'-C3'-O3'	-5.10	98.69	109.40
55	DA	141	A	N9-C1'-C2'	5.10	120.63	114.00
55	DA	728	G	C5'-C4'-O4'	-5.10	102.98	109.10
55	DA	2497	A	C2'-C3'-O3'	-5.10	98.28	109.50
54	CA	788	U	C5-C4-O4	-5.10	122.84	125.90
9	DM	114	ARG	N-CA-C	-5.10	97.24	111.00
1	AA	1372	U	C6-N1-C1'	-5.09	114.07	121.20
55	DA	989	G	N9-C1'-C2'	5.09	120.62	114.00
54	CA	109	A	N9-C1'-C2'	5.08	120.61	114.00
55	DA	387	U	O5'-P-OP1	-5.08	101.12	105.70
55	DA	1947	C	C5'-C4'-C3'	-5.08	107.87	116.00
1	AA	226	G	N9-C1'-C2'	5.07	120.59	114.00
56	DJ	12	LEU	CB-CG-CD2	5.07	119.62	111.00
1	AA	1544	C	N1-C1'-C2'	5.07	120.59	114.00
54	CA	760	G	N9-C1'-C2'	-5.07	106.43	112.00
1	AA	1786	A	C1'-O4'-C4'	-5.07	105.85	109.90
55	DA	2035	G	N9-C1'-C2'	5.07	120.59	114.00
53	C1	33	G	O4'-C1'-N9	5.06	112.25	108.20
55	DA	196	A	N9-C1'-C2'	5.06	120.58	114.00
21	AV	117	LEU	CA-CB-CG	5.06	126.94	115.30
1	AA	74	A	C4-N9-C1'	-5.05	117.20	126.30
31	BA	1159	U	N1-C1'-C2'	5.05	120.57	114.00
43	BP	84	ILE	N-CA-C	-5.05	97.36	111.00
31	BA	279	A	N9-C1'-C2'	5.05	120.57	114.00
34	CG	13	ARG	N-CA-C	5.05	124.63	111.00
54	CA	327	A	N9-C1'-C2'	5.04	120.56	114.00
55	DA	1249	U	C2-N3-C4	-5.04	123.98	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	DA	1653	G	N9-C1'-C2'	5.04	120.55	114.00
1	AA	2032	G	N9-C1'-C2'	5.04	120.55	114.00
55	DA	1615	C	N1-C1'-C2'	5.04	120.55	114.00
1	AA	1372	U	N1-C1'-C2'	-5.03	106.47	112.00
55	DA	2754	U	C5'-C4'-C3'	-5.03	107.95	116.00
1	AA	227	A	N9-C1'-C2'	5.03	120.53	114.00
55	DA	1371	G	P-O3'-C3'	5.03	125.73	119.70
55	DA	2458	G	C2'-C3'-O3'	-5.02	98.45	109.50
55	DA	2447	G	C4'-C3'-O3'	-5.02	98.86	109.40
1	AA	1762	A	O4'-C1'-C2'	-5.02	100.78	105.80
5	AF	83	PHE	N-CA-C	5.02	124.56	111.00
1	AA	654(H)	G	C8-N9-C1'	-5.02	120.47	127.00
55	DA	1686	C	C5'-C4'-C3'	-5.02	107.97	116.00
55	DA	1396	U	N1-C1'-C2'	5.01	120.52	114.00
31	BA	7	G	C1'-O4'-C4'	-5.01	105.89	109.90
55	DA	2094	G	C5'-C4'-C3'	-5.01	107.99	116.00
55	DA	2835	A	N9-C1'-C2'	5.00	120.50	114.00
1	AA	74	A	C8-N9-C1'	5.00	136.70	127.70
55	DA	1143	A	C4'-C3'-C2'	5.00	107.60	102.60

There are no chirality outliers.

All (395) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1025	G	Sidechain
1	AA	1082	U	Sidechain
1	AA	1143	A	Sidechain
1	AA	1159	U	Sidechain
1	AA	1215	G	Sidechain
1	AA	1242	A	Sidechain
1	AA	1247	A	Sidechain
1	AA	1249	U	Sidechain
1	AA	1250	G	Sidechain
1	AA	1252	G	Sidechain
1	AA	1294	U	Sidechain
1	AA	1298	C	Sidechain
1	AA	1302	A	Sidechain
1	AA	1308	A	Sidechain
1	AA	1312	U	Sidechain
1	AA	1357	U	Sidechain
1	AA	1397	U	Sidechain
1	AA	1427	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1455	G	Sidechain
1	AA	1564	C	Sidechain
1	AA	1566	A	Sidechain
1	AA	1671	U	Sidechain
1	AA	1693	U	Sidechain
1	AA	1751	C	Sidechain
1	AA	1772	G	Sidechain
1	AA	1773	A	Sidechain
1	AA	1774	C	Sidechain
1	AA	1783	A	Sidechain
1	AA	1807	G	Sidechain
1	AA	1818	U	Sidechain
1	AA	1902	C	Sidechain
1	AA	1910	G	Sidechain
1	AA	1940	U	Sidechain
1	AA	1946	U	Sidechain
1	AA	196	A	Sidechain
1	AA	1966	A	Sidechain
1	AA	1991	U	Sidechain
1	AA	201	C	Sidechain
1	AA	2025	C	Sidechain
1	AA	2031	A	Sidechain
1	AA	2034	U	Sidechain
1	AA	2049	G	Sidechain
1	AA	2074	U	Sidechain
1	AA	2227	A	Sidechain
1	AA	2248	C	Sidechain
1	AA	2257	U	Sidechain
1	AA	227	A	Sidechain
1	AA	2307	G	Sidechain
1	AA	2312	U	Sidechain
1	AA	232	G	Sidechain
1	AA	2345	G	Sidechain
1	AA	2346	A	Sidechain
1	AA	2401	U	Sidechain
1	AA	2406	U	Sidechain
1	AA	2427	C	Sidechain
1	AA	2447	G	Sidechain
1	AA	2458	G	Sidechain
1	AA	2497	A	Sidechain
1	AA	250	G	Sidechain
1	AA	2506	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	2542	A	Sidechain
1	AA	2582	G	Sidechain
1	AA	2596	U	Sidechain
1	AA	2605	U	Sidechain
1	AA	2609	U	Sidechain
1	AA	2625	G	Sidechain
1	AA	2647	U	Sidechain
1	AA	2656	U	Sidechain
1	AA	2681	C	Sidechain
1	AA	2696	U	Sidechain
1	AA	2725	A	Sidechain
1	AA	2746	U	Sidechain
1	AA	2789	C	Sidechain
1	AA	2835	A	Sidechain
1	AA	2899	G	Sidechain
1	AA	305	U	Sidechain
1	AA	319	C	Sidechain
1	AA	33	U	Sidechain
1	AA	331	A	Sidechain
1	AA	352	G	Sidechain
1	AA	371	A	Sidechain
1	AA	403	U	Sidechain
1	AA	441	U	Sidechain
1	AA	463	G	Sidechain
1	AA	476	G	Sidechain
1	AA	481	G	Sidechain
1	AA	50	U	Sidechain
1	AA	506	G	Sidechain
1	AA	510	C	Sidechain
1	AA	566	U	Sidechain
1	AA	607	U	Sidechain
1	AA	608	A	Sidechain
1	AA	642	G	Sidechain
1	AA	654(G)	C	Sidechain
1	AA	654(M)	C	Sidechain
1	AA	670	A	Sidechain
1	AA	682	G	Sidechain
1	AA	683	C	Sidechain
1	AA	70	G	Sidechain
1	AA	72	U	Sidechain
1	AA	74	A	Sidechain
1	AA	788	A	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	816	C	Sidechain
1	AA	817	C	Sidechain
1	AA	859	G	Sidechain
1	AA	895	U	Sidechain
1	AA	913	U	Sidechain
1	AA	930	U	Sidechain
1	AA	943	U	Sidechain
2	AB	1	U	Sidechain
2	AB	66	A	Sidechain
2	AB	81	G	Sidechain
2	AB	95	U	Sidechain
3	AD	104	TYR	Sidechain
3	AD	9	TYR	Sidechain
53	B1	41	U	Sidechain
53	B1	48	U	Sidechain
53	B1	51	U	Sidechain
53	B1	53	U	Sidechain
31	BA	1049	U	Sidechain
31	BA	1064	G	Sidechain
31	BA	1065	U	Sidechain
31	BA	1077	G	Sidechain
31	BA	114	U	Sidechain
31	BA	1149	C	Sidechain
31	BA	1159	U	Sidechain
31	BA	1201	A	Sidechain
31	BA	1205	U	Sidechain
31	BA	1235	U	Sidechain
31	BA	130	A	Sidechain
31	BA	1341	U	Sidechain
31	BA	1380	U	Sidechain
31	BA	1526	G	Sidechain
31	BA	1529	G	Sidechain
31	BA	1540	U	Sidechain
31	BA	1541	U	Sidechain
31	BA	190	G	Sidechain
31	BA	249	U	Sidechain
31	BA	250	A	Sidechain
31	BA	251	G	Sidechain
31	BA	328	C	Sidechain
31	BA	366	C	Sidechain
31	BA	528	C	Sidechain
31	BA	566	G	Sidechain

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Mol	Chain	Res	Type	Group
31	BA	571	U	Sidechain
31	BA	575	G	Sidechain
31	BA	672	U	Sidechain
31	BA	686	U	Sidechain
31	BA	703	G	Sidechain
31	BA	788	U	Sidechain
31	BA	82	U	Sidechain
31	BA	873	A	Sidechain
31	BA	974	A	Sidechain
52	BB	66	U	Sidechain
52	BC	19	G	Sidechain
52	BC	66	U	Sidechain
52	BC	73	A	Sidechain
52	BD	7	A	Sidechain
53	C1	38	U	Sidechain
53	C1	41	U	Sidechain
53	C1	56	U	Sidechain
54	CA	1054	C	Sidechain
54	CA	1064	G	Sidechain
54	CA	1122	U	Sidechain
54	CA	1124	G	Sidechain
54	CA	1128	C	Sidechain
54	CA	1129	C	Sidechain
54	CA	114	U	Sidechain
54	CA	1143	G	Sidechain
54	CA	1150	U	Sidechain
54	CA	1159	U	Sidechain
54	CA	1190	G	Sidechain
54	CA	1201	A	Sidechain
54	CA	1205	U	Sidechain
54	CA	121	C	Sidechain
54	CA	1225	A	Sidechain
54	CA	1226	C	Sidechain
54	CA	1285	A	Sidechain
54	CA	1380	U	Sidechain
54	CA	1400	C	Sidechain
54	CA	1495	U	Sidechain
54	CA	1502	A	Sidechain
54	CA	1535	C	Sidechain
54	CA	1541	U	Sidechain
54	CA	259	G	Sidechain
54	CA	30	U	Sidechain

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Mol	Chain	Res	Type	Group
54	CA	367	U	Sidechain
54	CA	387	U	Sidechain
54	CA	388	G	Sidechain
54	CA	484	G	Sidechain
54	CA	50	A	Sidechain
54	CA	51	A	Sidechain
54	CA	512	U	Sidechain
54	CA	518	C	Sidechain
54	CA	528	C	Sidechain
54	CA	532	A	Sidechain
54	CA	575	G	Sidechain
54	CA	58	C	Sidechain
54	CA	620	C	Sidechain
54	CA	672	U	Sidechain
54	CA	681	C	Sidechain
54	CA	686	U	Sidechain
54	CA	693	G	Sidechain
54	CA	697	U	Sidechain
54	CA	73	G	Sidechain
54	CA	749	C	Sidechain
54	CA	760	G	Sidechain
54	CA	773	G	Sidechain
54	CA	794	A	Sidechain
54	CA	84	U	Sidechain
54	CA	85	U	Sidechain
54	CA	873	A	Sidechain
54	CA	879	C	Sidechain
54	CA	900	A	Sidechain
54	CA	960	U	Sidechain
54	CA	965	A	Sidechain
54	CA	97	U	Sidechain
54	CA	974	A	Sidechain
52	CB	49	C	Sidechain
52	CD	45	U	Sidechain
52	CD	66	U	Sidechain
55	DA	1025	G	Sidechain
55	DA	104	U	Sidechain
55	DA	1060	U	Sidechain
55	DA	1078	U	Sidechain
55	DA	1082	U	Sidechain
55	DA	1086	A	Sidechain
55	DA	1092	C	Sidechain

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Mol	Chain	Res	Type	Group
55	DA	1099	G	Sidechain
55	DA	1126	A	Sidechain
55	DA	113	G	Sidechain
55	DA	1130	U	Sidechain
55	DA	1132	A	Sidechain
55	DA	1133	U	Sidechain
55	DA	1156	A	Sidechain
55	DA	1161	C	Sidechain
55	DA	1188	U	Sidechain
55	DA	119	A	Sidechain
55	DA	12	U	Sidechain
55	DA	1249	U	Sidechain
55	DA	1252	G	Sidechain
55	DA	1253	A	Sidechain
55	DA	1287	A	Sidechain
55	DA	1288	U	Sidechain
55	DA	1294	U	Sidechain
55	DA	1300	U	Sidechain
55	DA	1302	A	Sidechain
55	DA	1323	U	Sidechain
55	DA	1340	U	Sidechain
55	DA	1357	U	Sidechain
55	DA	138	G	Sidechain
55	DA	139	G	Sidechain
55	DA	1425	G	Sidechain
55	DA	1503	U	Sidechain
55	DA	1534	G	Sidechain
55	DA	1535	U	Sidechain
55	DA	1537	C	Sidechain
55	DA	1558	A	Sidechain
55	DA	1564	C	Sidechain
55	DA	1607	C	Sidechain
55	DA	1610	A	Sidechain
55	DA	1619	G	Sidechain
55	DA	1647	G	Sidechain
55	DA	1651	G	Sidechain
55	DA	1664	A	Sidechain
55	DA	1675	C	Sidechain
55	DA	1693	U	Sidechain
55	DA	1698	A	Sidechain
55	DA	1772	G	Sidechain
55	DA	1773	A	Sidechain

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Mol	Chain	Res	Type	Group
55	DA	1774	C	Sidechain
55	DA	1777	U	Sidechain
55	DA	1779	U	Sidechain
55	DA	1799	G	Sidechain
55	DA	1801	G	Sidechain
55	DA	1808	U	Sidechain
55	DA	1828	G	Sidechain
55	DA	1833	U	Sidechain
55	DA	1834	U	Sidechain
55	DA	1925	C	Sidechain
55	DA	1926	U	Sidechain
55	DA	1929	G	Sidechain
55	DA	1934	C	Sidechain
55	DA	1940	U	Sidechain
55	DA	1946	U	Sidechain
55	DA	1951	U	Sidechain
55	DA	1964	G	Sidechain
55	DA	1970	A	Sidechain
55	DA	1991	U	Sidechain
55	DA	2009	G	Sidechain
55	DA	201	C	Sidechain
55	DA	2025	C	Sidechain
55	DA	2028	U	Sidechain
55	DA	2031	A	Sidechain
55	DA	2034	U	Sidechain
55	DA	2078	C	Sidechain
55	DA	2086	U	Sidechain
55	DA	2098	U	Sidechain
55	DA	2110	G	Sidechain
55	DA	2252	G	Sidechain
55	DA	2257	U	Sidechain
55	DA	227	A	Sidechain
55	DA	2275	C	Sidechain
55	DA	2282	G	Sidechain
55	DA	229	A	Sidechain
55	DA	2313	C	Sidechain
55	DA	2319	G	Sidechain
55	DA	2334	G	Sidechain
55	DA	2345	G	Sidechain
55	DA	240	G	Sidechain
55	DA	2401	U	Sidechain
55	DA	2426	A	Sidechain

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Mol	Chain	Res	Type	Group
55	DA	2427	C	Sidechain
55	DA	243	U	Sidechain
55	DA	2434	A	Sidechain
55	DA	2447	G	Sidechain
55	DA	2452	C	Sidechain
55	DA	2462	U	Sidechain
55	DA	2489	G	Sidechain
55	DA	249	C	Sidechain
55	DA	250	G	Sidechain
55	DA	2504	U	Sidechain
55	DA	2516	G	Sidechain
55	DA	2542	A	Sidechain
55	DA	2563	U	Sidechain
55	DA	2582	G	Sidechain
55	DA	2587	A	Sidechain
55	DA	2593	U	Sidechain
55	DA	2595	G	Sidechain
55	DA	2615	U	Sidechain
55	DA	2627	G	Sidechain
55	DA	265	A	Sidechain
55	DA	2650	U	Sidechain
55	DA	2656	U	Sidechain
55	DA	2665	A	Sidechain
55	DA	2684	U	Sidechain
55	DA	2696	U	Sidechain
55	DA	270(Z)	U	Sidechain
55	DA	2712	U	Sidechain
55	DA	2725	A	Sidechain
55	DA	2751	G	Sidechain
55	DA	2779	U	Sidechain
55	DA	2789	C	Sidechain
55	DA	2873	A	Sidechain
55	DA	323	G	Sidechain
55	DA	339	U	Sidechain
55	DA	370	G	Sidechain
55	DA	371	A	Sidechain
55	DA	385	C	Sidechain
55	DA	387	U	Sidechain
55	DA	4	C	Sidechain
55	DA	411	G	Sidechain
55	DA	43	G	Sidechain
55	DA	441	U	Sidechain

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Mol	Chain	Res	Type	Group
55	DA	463	G	Sidechain
55	DA	467	G	Sidechain
55	DA	476	G	Sidechain
55	DA	487	C	Sidechain
55	DA	488	G	Sidechain
55	DA	508	G	Sidechain
55	DA	52	A	Sidechain
55	DA	56	A	Sidechain
55	DA	566	U	Sidechain
55	DA	567	A	Sidechain
55	DA	575	A	Sidechain
55	DA	590	A	Sidechain
55	DA	602	G	Sidechain
55	DA	606	U	Sidechain
55	DA	607	U	Sidechain
55	DA	621	A	Sidechain
55	DA	630	G	Sidechain
55	DA	654(G)	C	Sidechain
55	DA	654(M)	C	Sidechain
55	DA	670	A	Sidechain
55	DA	675	A	Sidechain
55	DA	682	G	Sidechain
55	DA	683	C	Sidechain
55	DA	70	G	Sidechain
55	DA	72	U	Sidechain
55	DA	730	C	Sidechain
55	DA	739	G	Sidechain
55	DA	792	G	Sidechain
55	DA	807	U	Sidechain
55	DA	829	A	Sidechain
55	DA	859	G	Sidechain
55	DA	895	U	Sidechain
55	DA	943	U	Sidechain
55	DA	956	G	Sidechain
55	DA	980	A	Sidechain
55	DA	990	A	Sidechain
55	DA	995	C	Sidechain
2	DB	51	G	Sidechain
2	DB	55	U	Sidechain
2	DB	81	G	Sidechain
2	DB	95	U	Sidechain

5.2 Too-close contacts ⓘ

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	AA	62647	0	31576	3580	1
2	AB	2617	0	1328	187	0
2	DB	2617	0	1328	116	0
3	AD	2115	0	2195	312	0
3	DD	2115	0	2195	370	0
4	AE	1568	0	1634	355	0
4	DE	1568	0	1634	274	0
5	AF	1627	0	1679	258	0
5	DF	1585	0	1631	192	0
6	AG	1474	0	1535	252	0
6	DG	1474	0	1535	277	0
7	AH	1307	0	1382	233	0
7	DH	1307	0	1382	255	0
8	AK	1136	0	1223	199	0
8	DK	1136	0	1221	222	0
9	AM	1104	0	1180	164	0
9	DM	1104	0	1180	178	0
10	AN	933	0	996	107	0
10	DN	933	0	996	114	0
11	AO	1145	0	1228	255	0
11	DO	1145	0	1227	265	0
12	AP	1122	0	1179	242	0
12	DP	1122	0	1179	180	0
13	A0	960	0	1021	133	0
13	D0	968	0	1033	146	0
14	AQ	882	0	943	142	0
14	DQ	882	0	943	144	0
15	AR	1141	0	1202	171	0
15	DR	1141	0	1202	183	0
16	A1	964	0	1022	169	1
16	D1	964	0	1022	144	0
17	A2	779	0	852	210	0
17	D2	779	0	852	148	0
18	AS	900	0	964	97	0
18	DS	900	0	963	89	0
19	AT	725	0	778	92	0
19	DT	725	0	778	78	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
20	AU	785	0	878	217	0
20	DU	785	0	878	171	0
21	AV	1489	0	1515	418	0
21	DV	1582	0	1613	447	0
22	A3	662	0	688	103	0
22	D3	662	0	688	87	0
23	AZ	763	0	848	107	0
23	DZ	763	0	848	92	0
24	AW	581	0	629	125	0
24	DW	581	0	629	76	0
25	AX	469	0	518	62	0
25	DX	469	0	518	46	0
26	A4	581	0	573	181	0
26	D4	581	0	573	174	0
27	A5	459	0	480	62	0
27	D5	459	0	480	81	0
28	A6	389	0	404	119	0
28	D6	389	0	404	126	0
29	A7	430	0	480	49	0
29	D7	430	0	480	35	0
30	A8	517	0	582	153	0
30	D8	517	0	582	103	0
31	BA	32571	0	16441	1934	1
32	BE	1924	0	1975	295	0
32	CE	1924	0	1975	286	0
33	BF	1612	0	1677	257	0
33	CF	1605	0	1668	217	0
34	BG	1703	0	1763	257	0
34	CG	1703	0	1763	235	0
35	BH	1155	0	1212	133	0
35	CH	1155	0	1213	151	0
36	BI	843	0	857	96	0
36	CI	843	0	857	101	0
37	BJ	1257	0	1296	139	0
37	CJ	1257	0	1296	138	0
38	BK	1116	0	1177	121	0
38	CK	1116	0	1177	164	0
39	BL	1010	0	1037	187	0
39	CL	1010	0	1037	152	0
40	BM	801	0	849	165	0
40	CM	801	0	849	149	0
41	BN	885	0	904	73	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	CN	885	0	904	76	0
42	BO	975	0	1062	140	0
42	CO	975	0	1062	138	0
43	BP	964	0	1034	181	0
43	CP	997	0	1072	192	0
44	BQ	492	0	529	84	0
44	CQ	492	0	529	82	0
45	BR	734	0	771	72	0
45	CR	734	0	771	75	0
46	BS	705	0	725	80	0
46	CS	705	0	725	131	0
47	BT	834	0	904	73	0
47	CT	834	0	904	92	0
48	BU	591	0	662	94	0
48	CU	591	0	662	100	0
49	BV	665	0	684	174	0
49	CV	702	0	728	156	0
50	BW	763	0	861	119	0
50	CW	763	0	861	113	0
51	BX	217	0	234	37	0
51	CX	217	0	234	23	0
52	BB	1626	0	832	96	0
52	BC	1626	0	833	86	0
52	BD	1626	0	833	90	0
52	CB	1626	0	832	97	0
52	CC	1626	0	832	63	0
52	CD	1626	0	832	118	0
53	B1	621	0	312	68	0
53	C1	621	0	312	76	0
54	CA	32551	0	16431	1893	0
55	DA	62707	0	31590	3339	1
56	DI	237	0	257	165	0
56	DJ	237	0	256	208	0
57	DY	1107	0	1166	947	0
58	DL	1071	0	1113	696	0
59	A0	1	0	0	0	0
59	A1	5	0	0	0	0
59	A2	1	0	0	0	0
59	A3	4	0	0	0	0
59	A5	3	0	0	0	0
59	A6	2	0	0	0	0
59	A7	4	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	A8	4	0	0	0	0
59	AA	1166	0	0	0	0
59	AB	36	0	0	0	0
59	AD	13	0	0	0	0
59	AE	4	0	0	0	0
59	AF	7	0	0	0	0
59	AG	3	0	0	0	0
59	AH	1	0	0	0	0
59	AK	3	0	0	0	0
59	AN	1	0	0	0	0
59	AO	7	0	0	0	0
59	AP	1	0	0	0	0
59	AQ	5	0	0	0	0
59	AR	5	0	0	0	0
59	AS	3	0	0	0	0
59	AT	4	0	0	0	0
59	AU	6	0	0	0	0
59	AV	1	0	0	0	0
59	AW	2	0	0	0	0
59	AZ	3	0	0	0	0
59	B1	4	0	0	0	0
59	BA	676	0	0	0	0
59	BB	13	0	0	0	0
59	BC	16	0	0	0	0
59	BD	26	0	0	0	0
59	BE	5	0	0	0	0
59	BF	2	0	0	0	0
59	BG	7	0	0	0	0
59	BH	5	0	0	0	0
59	BI	1	0	0	0	0
59	BK	6	0	0	0	0
59	BL	2	0	0	0	0
59	BM	3	0	0	0	0
59	BO	1	0	0	0	0
59	BP	2	0	0	0	0
59	BQ	3	0	0	0	0
59	BS	9	0	0	0	0
59	BT	2	0	0	0	0
59	BU	1	0	0	0	0
59	BV	1	0	0	0	0
59	BW	8	0	0	0	0
59	BX	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	C1	6	0	0	0	0
59	CA	724	0	0	1	0
59	CB	21	0	0	0	0
59	CC	27	0	0	0	0
59	CD	30	0	0	0	0
59	CE	6	0	0	0	0
59	CF	3	0	0	0	0
59	CG	11	0	0	0	0
59	CH	6	0	0	0	0
59	CI	1	0	0	0	0
59	CJ	1	0	0	0	0
59	CK	11	0	0	0	0
59	CL	1	0	0	0	0
59	CM	3	0	0	0	0
59	CN	2	0	0	0	0
59	CP	3	0	0	0	0
59	CQ	3	0	0	0	0
59	CR	3	0	0	0	0
59	CS	6	0	0	0	0
59	CT	3	0	0	0	0
59	CV	4	0	0	0	0
59	CW	1	0	0	0	0
59	D0	11	0	0	0	0
59	D1	12	0	0	0	0
59	D2	10	0	0	0	0
59	D3	7	0	0	0	0
59	D4	2	0	0	0	0
59	D5	8	0	0	0	0
59	D6	3	0	0	0	0
59	D7	5	0	0	0	0
59	D8	9	0	0	0	0
59	DA	2077	0	0	0	0
59	DB	76	0	0	0	0
59	DD	14	0	0	0	0
59	DE	15	0	0	0	0
59	DF	25	0	0	0	0
59	DG	5	0	0	0	0
59	DH	5	0	0	0	0
59	DK	2	0	0	0	0
59	DL	1	0	0	0	0
59	DM	6	0	0	0	0
59	DN	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	DO	18	0	0	0	0
59	DP	4	0	0	0	0
59	DQ	2	0	0	0	0
59	DR	4	0	0	1	0
59	DS	8	0	0	0	0
59	DT	7	0	0	0	0
59	DU	19	0	0	0	0
59	DV	5	0	0	0	0
59	DW	7	0	0	0	0
59	DX	2	0	0	0	0
59	DY	4	0	0	0	0
59	DZ	5	0	0	0	0
60	A4	1	0	0	0	0
60	BG	1	0	0	0	0
60	BQ	1	0	0	0	0
60	CG	1	0	0	0	0
60	CQ	1	0	0	0	0
60	D4	1	0	0	0	0
61	B1	3	0	0	0	0
61	BA	3	0	0	0	0
All	All	307345	0	204878	26274	2

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 52.

All (26274) 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)
1:AA:2820:A:C8	4:AE:109:LYS:HE3	1.23	1.64
58:DL:7:VAL:HG12	58:DL:57:ILE:CD1	1.29	1.63
57:DY:71:LEU:CB	57:DY:113:GLN:HB3	1.32	1.60
21:AV:175:VAL:HG12	21:AV:177:PRO:CD	1.26	1.56
58:DL:7:VAL:CG1	58:DL:57:ILE:HD12	1.21	1.55
56:DJ:13:SER:CB	56:DJ:17:VAL:HG21	1.30	1.54
57:DY:51:LEU:HD21	57:DY:82:PHE:C	1.22	1.53
57:DY:29:TYR:N	57:DY:81:VAL:CG1	1.69	1.52
57:DY:27:VAL:CB	57:DY:110:GLY:HA3	1.11	1.52
57:DY:27:VAL:CG2	57:DY:110:GLY:CA	1.83	1.52
57:DY:89:ALA:HB3	56:DJ:15:ALA:CB	1.41	1.50
57:DY:27:VAL:CG2	57:DY:110:GLY:HA3	1.01	1.49
56:DJ:12:LEU:CA	56:DJ:13:SER:HB2	1.36	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:175:VAL:C	21:AV:177:PRO:HD2	1.20	1.47
58:DL:20:ALA:N	58:DL:25:PRO:HD2	1.31	1.46
56:DJ:12:LEU:N	56:DJ:13:SER:HB2	1.29	1.45
21:DV:191:VAL:HG11	21:DV:197:ILE:CG1	1.42	1.44
1:AA:2820:A:N6	4:AE:192:ASN:H	1.06	1.44
57:DY:25:PHE:CD1	57:DY:82:PHE:CD2	2.03	1.44
57:DY:51:LEU:CD2	57:DY:82:PHE:O	1.63	1.44
57:DY:71:LEU:HB3	57:DY:113:GLN:CB	1.44	1.43
58:DL:20:ALA:H	58:DL:25:PRO:CG	1.31	1.43
43:CP:124:PRO:HB3	43:CP:125:ARG:CG	1.48	1.42
58:DL:18:THR:HB	58:DL:19:PRO:CD	1.48	1.42
57:DY:51:LEU:HD13	57:DY:82:PHE:N	1.15	1.42
57:DY:27:VAL:HB	57:DY:110:GLY:CA	1.45	1.41
21:AV:175:VAL:HG13	21:AV:176:PRO:CD	1.48	1.41
21:DV:189:ALA:CB	21:DV:190:GLU:HG2	1.47	1.41
21:DV:191:VAL:CG1	21:DV:197:ILE:HG21	1.51	1.41
49:BV:41:VAL:CG1	49:BV:42:PRO:HD2	1.48	1.40
56:DJ:13:SER:CA	56:DJ:17:VAL:HG21	1.52	1.40
57:DY:43:ALA:HB3	57:DY:47:ASN:ND2	1.36	1.39
58:DL:104:VAL:O	58:DL:107:ILE:CG2	1.68	1.39
58:DL:8:VAL:O	58:DL:57:ILE:CG1	1.69	1.39
57:DY:27:VAL:HB	57:DY:110:GLY:C	1.36	1.38
57:DY:21:GLN:HE21	57:DY:22:GLY:N	1.19	1.38
58:DL:7:VAL:HG11	58:DL:58:THR:N	1.33	1.38
57:DY:43:ALA:CB	57:DY:47:ASN:HD22	1.37	1.37
56:DJ:13:SER:CB	56:DJ:17:VAL:CG2	2.03	1.36
21:DV:191:VAL:CG1	21:DV:197:ILE:CG2	2.03	1.36
21:AV:115:GLY:CA	21:AV:177:PRO:HG2	1.55	1.35
49:BV:41:VAL:HG12	49:BV:42:PRO:CD	1.53	1.34
55:DA:1060:U:OP1	58:DL:54:PRO:HG3	1.28	1.34
55:DA:1359:A:H3'	55:DA:1359:A:C8	1.62	1.33
21:AV:175:VAL:CG1	21:AV:177:PRO:HD3	1.56	1.33
58:DL:7:VAL:HG13	58:DL:58:THR:O	1.19	1.33
56:DJ:13:SER:HB3	56:DJ:17:VAL:CG1	1.59	1.33
57:DY:19:ARG:CZ	57:DY:84:GLU:OE1	1.76	1.33
57:DY:25:PHE:CZ	57:DY:82:PHE:HB3	1.62	1.33
21:DV:189:ALA:CA	21:DV:190:GLU:HG2	1.56	1.32
21:AV:115:GLY:HA2	21:AV:177:PRO:CG	1.58	1.32
58:DL:20:ALA:N	58:DL:25:PRO:CD	1.91	1.32
28:A6:41:PRO:CG	28:A6:45:LYS:O	1.77	1.32
57:DY:27:VAL:CB	57:DY:110:GLY:CA	1.91	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:27:VAL:HB	57:DY:111:LEU:N	1.44	1.31
1:AA:1899:G:N2	1:AA:1902:C:H41	1.29	1.31
57:DY:112:LEU:N	57:DY:112:LEU:HD23	1.38	1.30
26:D4:68:ARG:CZ	26:D4:68:ARG:HA	1.61	1.30
43:BP:80:ARG:O	43:BP:83:ASP:HB3	1.23	1.30
1:AA:384:U:C2'	1:AA:385:C:H5'	1.62	1.30
56:DJ:12:LEU:N	56:DJ:13:SER:CB	1.95	1.30
57:DY:29:TYR:CE2	57:DY:32:LEU:HD11	1.64	1.30
58:DL:52:ILE:CG2	58:DL:75:SER:HB2	1.61	1.30
54:CA:1313:U:P	49:CV:6:LYS:HB2	1.71	1.29
58:DL:14:ALA:CB	58:DL:50:ASP:HB2	1.60	1.29
1:AA:1359:A:H3'	1:AA:1359:A:C8	1.54	1.29
1:AA:946:G:O2'	1:AA:947:G:H5'	1.29	1.28
57:DY:89:ALA:CB	56:DJ:15:ALA:HB1	1.62	1.28
57:DY:26:LEU:HD22	57:DY:121:ASP:OD2	1.12	1.27
55:DA:1899:G:H22	55:DA:1902:C:N4	1.31	1.27
1:AA:946:G:O2'	1:AA:947:G:C5'	1.83	1.26
57:DY:16:ASN:HB2	57:DY:19:ARG:NH1	1.50	1.26
54:CA:1313:U:OP2	49:CV:6:LYS:HB2	1.22	1.26
57:DY:130:THR:O	57:DY:134:LEU:HD13	1.27	1.26
55:DA:1372:U:H5'	55:DA:1372:U:C6	1.70	1.26
57:DY:16:ASN:CB	57:DY:19:ARG:HH12	1.48	1.25
28:A6:41:PRO:HG2	28:A6:45:LYS:O	1.26	1.25
57:DY:130:THR:CG2	56:DJ:14:GLN:HE22	1.46	1.25
55:DA:1057:A:N7	55:DA:1086:A:H2'	1.50	1.25
1:AA:2820:A:C8	4:AE:109:LYS:CE	2.20	1.25
42:CO:47:LYS:O	42:CO:49:ASN:N	1.68	1.25
21:AV:175:VAL:CG1	21:AV:177:PRO:CD	2.12	1.24
21:DV:191:VAL:HG11	21:DV:197:ILE:CB	1.66	1.24
58:DL:52:ILE:CD1	58:DL:76:TYR:HB3	1.65	1.24
21:AV:106:GLY:C	21:AV:108:PRO:HD2	1.55	1.24
57:DY:51:LEU:CD1	57:DY:82:PHE:N	1.99	1.24
55:DA:1075:C:H4'	21:DV:195:GLU:CG	1.68	1.24
1:AA:1899:G:H22	1:AA:1902:C:N4	1.35	1.24
55:DA:1899:G:N2	55:DA:1902:C:H41	1.36	1.24
1:AA:2820:A:N6	4:AE:192:ASN:N	1.84	1.23
58:DL:52:ILE:HG21	58:DL:75:SER:CB	1.67	1.23
21:AV:175:VAL:CG1	21:AV:176:PRO:HD2	1.68	1.23
57:DY:21:GLN:NE2	57:DY:22:GLY:H	1.33	1.23
21:DV:116:VAL:HB	21:DV:175:VAL:O	1.14	1.23
55:DA:1301:A:O2'	55:DA:1302:A:H3'	1.36	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:43:ARG:HH11	3:AD:44:ASN:ND2	1.36	1.22
58:DL:135:GLY:O	58:DL:136:VAL:HG13	1.40	1.22
58:DL:19:PRO:HA	58:DL:25:PRO:CG	1.70	1.21
21:AV:108:PRO:CB	21:AV:141:VAL:O	1.87	1.21
21:DV:190:GLU:O	21:DV:191:VAL:HG23	1.41	1.21
56:DI:9:LYS:O	56:DI:11:GLU:N	1.73	1.21
56:DJ:12:LEU:CB	56:DJ:13:SER:HB2	1.68	1.21
57:DY:23:SER:CB	57:DY:68:LEU:HB2	1.69	1.21
57:DY:75:GLN:HB3	57:DY:110:GLY:O	1.41	1.20
57:DY:71:LEU:HB2	57:DY:112:LEU:O	1.33	1.20
58:DL:14:ALA:HA	58:DL:49:GLY:HA3	1.21	1.20
21:DV:189:ALA:HB1	21:DV:190:GLU:CG	1.72	1.20
57:DY:25:PHE:CD1	57:DY:82:PHE:CG	2.29	1.20
57:DY:29:TYR:CA	57:DY:81:VAL:HG12	1.67	1.20
54:CA:630:G:C2'	54:CA:631:G:H5''	1.70	1.20
54:CA:73:G:N2	54:CA:74:C:H41	1.38	1.20
57:DY:40:LEU:CD2	57:DY:50:ARG:HH12	1.55	1.19
57:DY:132:ASP:O	57:DY:134:LEU:N	1.74	1.19
57:DY:23:SER:OG	57:DY:114:GLY:HA2	1.42	1.19
32:CE:8:LYS:H	32:CE:8:LYS:HD3	1.04	1.19
57:DY:25:PHE:CE1	57:DY:82:PHE:CG	2.31	1.19
31:BA:887:G:C2'	31:BA:888:G:H5'	1.72	1.19
1:AA:2820:A:H8	4:AE:109:LYS:CE	1.55	1.19
58:DL:87:GLY:HA2	58:DL:96:VAL:HG21	1.19	1.19
3:DD:25:THR:HG21	3:DD:81:ALA:HB1	1.19	1.19
3:AD:44:ASN:HB3	3:AD:49:ILE:HA	1.21	1.18
57:DY:50:ARG:O	57:DY:83:TYR:CA	1.91	1.18
56:DJ:14:GLN:HG2	56:DJ:16:THR:O	1.42	1.18
22:A3:32:ARG:H	22:A3:35:ASN:ND2	1.40	1.18
57:DY:73:GLY:O	57:DY:119:ALA:HA	1.43	1.18
57:DY:27:VAL:HG21	57:DY:110:GLY:CA	1.59	1.18
55:DA:1058:U:H2'	55:DA:1059:G:C8	1.78	1.18
57:DY:73:GLY:O	57:DY:119:ALA:CA	1.90	1.18
43:BP:22:ILE:HB	43:BP:25:ILE:HG12	1.21	1.18
58:DL:7:VAL:CG1	58:DL:57:ILE:CD1	1.98	1.17
1:AA:1378:A:O2'	1:AA:1379:A:H5''	1.42	1.17
23:DZ:91:LYS:HA	23:DZ:91:LYS:HE3	1.24	1.17
58:DL:14:ALA:HB2	58:DL:50:ASP:HB2	1.21	1.17
54:CA:792:A:H2'	54:CA:794:A:N6	1.57	1.17
58:DL:141:ALA:HB1	58:DL:143:GLU:N	1.58	1.16
21:AV:175:VAL:C	21:AV:177:PRO:CD	2.13	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:30:GLN:OE1	57:DY:79:ALA:O	1.62	1.16
1:AA:1359:A:C3'	1:AA:1359:A:C8	2.29	1.16
15:AR:16:ARG:HH21	15:AR:19:LEU:HD21	1.05	1.16
56:DI:24:ILE:HG12	56:DI:25:ASP:H	1.04	1.16
1:AA:1887:C:H2'	1:AA:1888:G:H5''	1.28	1.16
58:DL:18:THR:CB	58:DL:19:PRO:HD3	1.76	1.16
56:DI:3:LEU:HD23	56:DI:7:ARG:HD2	1.23	1.16
21:AV:144:LEU:O	21:AV:174:VAL:HG21	1.44	1.16
21:DV:189:ALA:CB	21:DV:190:GLU:CG	2.23	1.16
54:CA:792:A:C2'	54:CA:794:A:H62	1.57	1.16
13:D0:33:ARG:HH22	27:D5:55:ARG:HG2	1.05	1.16
49:CV:41:VAL:HB	49:CV:42:PRO:HA	1.20	1.16
58:DL:103:GLN:O	58:DL:107:ILE:HB	1.44	1.15
57:DY:80:VAL:HG12	57:DY:81:VAL:H	0.99	1.15
30:A8:32:LEU:HD23	30:A8:34:TRP:H	1.08	1.15
57:DY:16:ASN:CA	57:DY:19:ARG:NH1	2.09	1.15
57:DY:50:ARG:O	57:DY:83:TYR:HA	0.98	1.15
56:DI:29:GLU:HA	56:DJ:2:ALA:HB1	1.16	1.15
40:BM:4:ILE:HB	40:BM:74:ILE:HD11	1.22	1.15
57:DY:25:PHE:HB3	57:DY:82:PHE:CZ	1.81	1.15
30:D8:52:LYS:H	30:D8:53:PRO:CD	1.57	1.15
21:AV:110:GLY:H	21:AV:143:GLY:HA2	1.06	1.15
55:DA:1075:C:C4'	21:DV:195:GLU:HG2	1.76	1.15
57:DY:72:ASP:O	57:DY:74:LEU:N	1.80	1.14
43:CP:124:PRO:CB	43:CP:125:ARG:HG2	1.77	1.14
55:DA:2519:U:H4'	55:DA:2520:C:OP1	1.43	1.14
1:AA:242:G:H5''	30:A8:62:LEU:HD13	1.18	1.14
58:DL:8:VAL:O	58:DL:57:ILE:HG13	1.24	1.14
1:AA:1372:U:C5'	1:AA:1372:U:C6	2.30	1.14
55:DA:1372:U:C6	55:DA:1372:U:C5'	2.30	1.14
54:CA:1002:G:H2'	54:CA:1003:G:H8	1.13	1.14
57:DY:144:ALA:HB1	57:DY:145:PRO:HD2	1.15	1.14
56:DJ:12:LEU:HB3	56:DJ:13:SER:CB	1.77	1.14
54:CA:1101:A:H4'	54:CA:1102:A:O5'	1.39	1.14
55:DA:483:A:H4'	20:DU:49:VAL:HA	1.22	1.14
21:DV:194:PRO:HG2	21:DV:196:VAL:CG1	1.77	1.13
55:DA:1359:A:C3'	55:DA:1359:A:C8	2.29	1.13
54:CA:1226:C:H4'	54:CA:1227:A:OP1	1.48	1.13
43:CP:126:LYS:OXT	52:CC:27:G:N7	1.82	1.13
28:A6:41:PRO:CD	28:A6:45:LYS:O	1.95	1.13
55:DA:2636:U:OP1	4:DE:79:ARG:HA	1.45	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:142:VAL:HG22	8:AK:143:SER:H	1.13	1.13
46:CS:53:VAL:HG12	46:CS:79:VAL:HG22	1.26	1.13
55:DA:1083:U:H5'	57:DY:47:ASN:OD1	1.44	1.13
14:DQ:106:ARG:NH1	14:DQ:106:ARG:HB2	1.62	1.13
8:DK:131:LYS:HB3	8:DK:132:PRO:HA	1.25	1.13
58:DL:57:ILE:CD1	58:DL:58:THR:H	1.61	1.12
43:BP:10:PRO:HB2	43:BP:18:ALA:HB1	1.26	1.12
55:DA:1484:G:H2'	55:DA:1485:G:H5''	1.19	1.12
31:BA:64:G:H4'	31:BA:65:U:H5''	1.25	1.12
55:DA:1378:A:O2'	55:DA:1379:A:H5''	1.47	1.12
56:DI:28:LYS:HA	56:DI:28:LYS:HE3	1.18	1.12
58:DL:12:LEU:HB3	58:DL:13:PRO:HA	1.24	1.12
57:DY:118:THR:HG23	57:DY:119:ALA:H	1.11	1.12
54:CA:1007:C:H2'	54:CA:1008:C:H5''	1.29	1.12
55:DA:1178:C:H2'	55:DA:1179:C:C6	1.82	1.12
58:DL:20:ALA:N	58:DL:25:PRO:CG	2.06	1.12
57:DY:90:ALA:O	57:DY:94:VAL:HB	1.50	1.12
1:AA:387:U:O2'	1:AA:388:G:H5''	1.50	1.12
21:DV:150:LEU:CD2	21:DV:151:HIS:H	1.62	1.12
15:DR:90:GLN:HE21	15:DR:90:GLN:HA	1.09	1.12
57:DY:50:ARG:HA	57:DY:83:TYR:CD1	1.84	1.12
57:DY:40:LEU:HD23	57:DY:50:ARG:HH12	1.05	1.12
54:CA:547:A:H4'	54:CA:548:G:O5'	1.42	1.12
57:DY:28:ASN:HB3	57:DY:81:VAL:HG13	1.31	1.11
57:DY:28:ASN:OD1	57:DY:83:TYR:HE2	1.28	1.11
55:DA:1371:G:O2'	55:DA:1372:U:C5	1.99	1.11
28:D6:15:GLU:HG2	28:D6:16:CYS:H	1.15	1.11
58:DL:20:ALA:H	58:DL:25:PRO:HG2	1.15	1.11
3:DD:27:THR:HG23	3:DD:28:GLU:H	1.13	1.11
54:CA:1234:C:H4'	54:CA:1364:U:O2'	1.48	1.11
57:DY:104:ILE:HG13	57:DY:105:PRO:HD2	1.15	1.11
57:DY:36:GLU:O	57:DY:38:HIS:ND1	1.82	1.11
9:AM:39:ARG:HH21	9:AM:41:ASP:HB2	1.13	1.11
58:DL:132:ARG:HG2	58:DL:137:GLU:OE2	1.49	1.11
57:DY:73:GLY:HA3	57:DY:112:LEU:CD1	1.80	1.11
30:A8:49:VAL:HG12	30:A8:50:LEU:N	1.55	1.11
8:AK:79:ILE:HB	8:AK:142:VAL:HG11	1.17	1.11
27:A5:4:HIS:HB3	27:A5:5:PRO:HD3	1.24	1.11
57:DY:16:ASN:HA	57:DY:19:ARG:HH11	1.03	1.11
57:DY:18:GLU:HG2	57:DY:66:LEU:HD13	1.22	1.11
1:AA:1924:C:C4	1:AA:1925:C:C5	2.39	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1341:U:H5''	19:AT:57:LEU:CB	1.80	1.11
4:DE:21:VAL:HB	4:DE:22:PRO:HB3	1.22	1.11
20:DU:76:CYS:SG	20:DU:77:PRO:HD2	1.90	1.11
11:DO:62:LEU:O	11:DO:62:LEU:HD23	1.51	1.11
1:AA:2753:A:H2'	1:AA:2754:U:H5''	1.24	1.11
55:DA:1083:U:H1'	55:DA:1086:A:H61	1.11	1.10
57:DY:50:ARG:C	57:DY:51:LEU:HG	1.72	1.10
43:CP:124:PRO:CB	43:CP:125:ARG:CG	2.29	1.10
1:AA:458:G:N2	1:AA:470:A:OP2	1.82	1.10
1:AA:2701:C:H3'	1:AA:2702:U:C5'	1.81	1.10
56:DJ:12:LEU:CA	56:DJ:13:SER:CB	2.27	1.10
57:DY:130:THR:HG21	56:DJ:14:GLN:HE22	1.08	1.10
43:CP:124:PRO:HB2	43:CP:125:ARG:HB2	1.15	1.10
54:CA:630:G:O2'	54:CA:631:G:OP1	1.65	1.10
1:AA:1484:G:H2'	1:AA:1485:G:H5''	1.20	1.10
55:DA:1085:A:H2'	55:DA:1086:A:C8	1.84	1.10
21:DV:189:ALA:HA	21:DV:190:GLU:HG2	1.23	1.10
58:DL:7:VAL:HG12	58:DL:57:ILE:CG1	1.81	1.10
21:DV:191:VAL:HG11	21:DV:197:ILE:CG2	1.76	1.10
1:AA:458:G:H1'	1:AA:459:U:H5	1.14	1.10
1:AA:611:C:H2'	1:AA:612:G:H5''	1.14	1.10
55:DA:2701:C:H3'	55:DA:2702:U:H5''	1.31	1.10
52:BB:74:C:O2'	52:BB:75:C:H5'	1.48	1.10
57:DY:25:PHE:HB3	57:DY:82:PHE:CE1	1.86	1.10
58:DL:52:ILE:CG1	58:DL:76:TYR:HB3	1.81	1.10
2:AB:42:C:H4'	6:AG:67:LYS:HD3	1.32	1.10
54:CA:1305:G:H22	54:CA:1331:G:H2'	1.12	1.10
55:DA:654(M):C:H3'	55:DA:654(N):G:N7	1.64	1.10
57:DY:111:LEU:C	57:DY:112:LEU:HD23	1.73	1.09
57:DY:13:LEU:HD23	57:DY:62:ALA:HB1	1.10	1.09
43:CP:124:PRO:CB	43:CP:125:ARG:CB	2.30	1.09
4:DE:61:ARG:CB	4:DE:62:PRO:HD2	1.81	1.09
50:CW:71:THR:HG22	50:CW:72:LEU:H	1.12	1.09
34:BG:25:ARG:HB3	34:BG:25:ARG:HH11	1.10	1.09
21:AV:185:GLU:O	21:AV:186:GLU:HB2	1.52	1.09
55:DA:1179:C:H2'	55:DA:1180:C:H5''	1.33	1.09
17:A2:80:GLN:HA	17:A2:80:GLN:NE2	1.60	1.09
55:DA:1077:A:C3'	55:DA:1078:U:H5'	1.83	1.09
56:DI:9:LYS:O	56:DI:10:GLU:C	1.91	1.09
30:A8:49:VAL:CG1	30:A8:50:LEU:HD23	1.83	1.09
17:A2:80:GLN:CA	17:A2:80:GLN:HE21	1.64	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:178:ARG:HB2	32:CE:178:ARG:HH11	1.16	1.09
17:A2:85:LYS:HG3	17:A2:87:HIS:N	1.68	1.09
57:DY:93:LEU:HD21	57:DY:126:ALA:HB1	1.24	1.09
58:DL:141:ALA:CB	58:DL:143:GLU:H	1.66	1.09
57:DY:53:VAL:O	57:DY:58:LEU:HD21	1.53	1.09
57:DY:87:VAL:HG13	57:DY:91:LYS:HB2	1.20	1.09
21:DV:128:VAL:HA	21:DV:161:VAL:CG2	1.82	1.09
49:CV:31:ILE:HG23	49:CV:49:ILE:HA	1.34	1.09
1:AA:2306:C:H3'	1:AA:2307:G:H5''	1.30	1.09
1:AA:2893:G:H5'	1:AA:2894:G:H5'	1.10	1.09
9:DM:115:ARG:HA	9:DM:118:LYS:HE3	1.34	1.09
22:D3:32:ARG:H	22:D3:35:ASN:ND2	1.51	1.09
31:BA:1129:C:H4'	31:BA:1130:A:H5'	1.15	1.08
57:DY:25:PHE:CD1	57:DY:82:PHE:CE2	2.41	1.08
57:DY:26:LEU:HA	57:DY:112:LEU:HA	1.15	1.08
57:DY:16:ASN:CB	57:DY:19:ARG:NH1	2.10	1.08
54:CA:1003:G:H2'	54:CA:1004:A:H5'	1.22	1.08
49:CV:88:LYS:HA	49:CV:88:LYS:HE2	1.25	1.08
14:DQ:106:ARG:HH11	14:DQ:106:ARG:HB2	1.10	1.08
7:DH:89:ILE:HD11	7:DH:129:THR:HB	1.27	1.08
56:DJ:15:ALA:O	56:DJ:16:THR:HG23	1.52	1.08
55:DA:1077:A:H3'	55:DA:1078:U:C5'	1.82	1.08
57:DY:71:LEU:CB	57:DY:112:LEU:O	2.00	1.08
57:DY:90:ALA:N	56:DJ:15:ALA:HB2	1.67	1.08
21:DV:191:VAL:HG13	21:DV:197:ILE:HG21	1.24	1.08
14:DQ:59:LYS:HG2	14:DQ:60:GLY:H	1.18	1.08
55:DA:49:A:N7	55:DA:120:U:H5	1.50	1.08
1:AA:2746:U:H4'	7:AH:138:LYS:HG3	1.36	1.08
57:DY:58:LEU:H	57:DY:58:LEU:HD23	1.12	1.08
54:CA:792:A:N9	54:CA:794:A:N6	2.01	1.08
57:DY:142:LEU:HD13	57:DY:143:GLN:H	1.08	1.08
4:DE:61:ARG:HB3	4:DE:62:PRO:CD	1.82	1.08
2:DB:74:U:H2'	2:DB:75:G:H5''	1.36	1.08
30:A8:49:VAL:HG13	30:A8:50:LEU:HD23	1.30	1.08
1:AA:1928:A:H2'	1:AA:1929:G:C5'	1.84	1.08
7:AH:22:GLY:HA2	7:AH:37:VAL:HG12	1.34	1.08
56:DJ:12:LEU:HB3	56:DJ:13:SER:OG	1.54	1.07
57:DY:92:THR:HG22	57:DY:93:LEU:HD23	1.29	1.07
21:AV:176:PRO:N	21:AV:177:PRO:HD2	1.50	1.07
12:AP:75:THR:HA	12:AP:88:GLY:HA2	1.33	1.07
1:AA:1929:G:H4'	1:AA:1930:G:OP1	1.47	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:60:ASN:HD22	4:AE:63:LEU:HB2	1.15	1.07
31:BA:279:A:H4'	31:BA:280:C:H5''	1.31	1.07
54:CA:1449:C:H2'	54:CA:1450:U:H5''	1.36	1.07
54:CA:1399:C:H4'	54:CA:1400:C:O5'	1.50	1.07
57:DY:7:VAL:HG22	57:DY:8:GLU:H	1.00	1.07
55:DA:1061:U:H4'	55:DA:1070:A:H1'	1.09	1.07
56:DI:3:LEU:CD2	56:DI:7:ARG:HD2	1.83	1.07
56:DJ:13:SER:CA	56:DJ:17:VAL:CG2	2.31	1.07
58:DL:14:ALA:CB	58:DL:50:ASP:CB	2.31	1.07
57:DY:9:LEU:HD13	57:DY:10:LEU:H	0.99	1.07
57:DY:32:LEU:HB2	57:DY:33:PRO:CD	1.84	1.07
30:D8:52:LYS:H	30:D8:53:PRO:HD2	1.08	1.07
17:D2:58:VAL:HB	17:D2:98:GLU:HB2	1.28	1.07
1:AA:2519:U:H4'	1:AA:2520:C:OP1	1.53	1.07
58:DL:52:ILE:HD11	58:DL:76:TYR:HB3	1.10	1.07
21:DV:128:VAL:HA	21:DV:161:VAL:HG21	1.08	1.07
7:DH:126:PRO:HD2	7:DH:127:GLU:H	1.07	1.07
21:AV:131:ARG:HH11	21:AV:131:ARG:HG2	0.94	1.07
1:AA:2503:A:H4'	1:AA:2504:U:OP1	1.50	1.07
54:CA:1124:G:H3'	54:CA:1145:C:H41	1.10	1.07
58:DL:3:LYS:O	58:DL:4:VAL:HG23	1.52	1.07
57:DY:50:ARG:CG	57:DY:51:LEU:H	1.66	1.07
57:DY:76:GLY:O	57:DY:111:LEU:HB3	1.54	1.07
4:DE:61:ARG:HB3	4:DE:62:PRO:HD2	1.09	1.07
17:A2:71:LEU:H	17:A2:86:GLY:HA3	1.07	1.07
33:CF:70:VAL:HG12	33:CF:72:LYS:H	1.20	1.07
57:DY:27:VAL:HG22	57:DY:28:ASN:N	1.61	1.07
57:DY:2:PRO:HG2	57:DY:3:ASN:H	1.19	1.07
49:BV:63:THR:H	49:BV:66:MET:HE3	1.10	1.07
55:DA:1371:G:O2'	55:DA:1372:U:H5	1.33	1.07
21:DV:116:VAL:HG13	21:DV:117:LEU:HD12	1.11	1.07
5:DF:32:LEU:HD11	5:DF:105:VAL:HG13	1.35	1.07
20:AU:15:VAL:HB	20:AU:22:GLY:HA3	1.35	1.07
1:AA:2533:A:H2'	1:AA:2534:A:H5''	1.36	1.07
21:DV:191:VAL:CG1	21:DV:197:ILE:CG1	2.34	1.06
11:DO:75:ILE:H	11:DO:75:ILE:HD13	1.15	1.06
2:AB:74:U:H2'	2:AB:75:G:H5''	1.32	1.06
32:CE:84:GLU:HB3	32:CE:219:VAL:HG21	1.36	1.06
56:DJ:13:SER:HB3	56:DJ:17:VAL:HG11	1.21	1.06
57:DY:93:LEU:HD22	57:DY:97:ALA:HB3	1.07	1.06
54:CA:1129:C:H4'	54:CA:1130:A:H5'	1.32	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1003:G:H2'	31:BA:1004:A:H5''	1.32	1.06
1:AA:2091:U:H3'	1:AA:2092:U:C5'	1.86	1.06
58:DL:112:MET:N	58:DL:113:PRO:HD2	1.69	1.06
57:DY:27:VAL:HG22	57:DY:28:ASN:H	1.03	1.06
57:DY:63:LEU:HD21	57:DY:65:GLU:OE1	1.53	1.06
57:DY:29:TYR:N	57:DY:81:VAL:HG12	0.74	1.06
57:DY:130:THR:HG21	56:DJ:14:GLN:NE2	1.71	1.06
52:CB:57:G:H5''	21:DV:182:LYS:HZ1	1.18	1.06
1:AA:1924:C:C2	1:AA:1925:C:C6	2.44	1.06
39:BL:65:VAL:HG22	39:BL:66:ARG:H	1.19	1.06
45:CR:87:ILE:HG22	45:CR:88:ARG:H	1.21	1.06
11:AO:19:VAL:HG22	11:AO:20:GLY:H	1.13	1.06
40:BM:44:VAL:HG22	40:BM:66:ARG:HG2	1.37	1.06
1:AA:266:G:H2'	1:AA:267:C:H5''	1.36	1.06
22:A3:5:LYS:HE2	52:BC:73:A:O2'	1.55	1.06
6:DG:56:ALA:HB2	6:DG:153:ARG:HE	1.17	1.06
21:DV:117:LEU:HD13	21:DV:118:GLN:H	0.90	1.06
39:BL:16:ARG:HB2	39:BL:16:ARG:HH11	1.09	1.06
58:DL:104:VAL:O	58:DL:107:ILE:HG22	1.29	1.06
57:DY:51:LEU:CD2	57:DY:82:PHE:C	2.12	1.06
54:CA:792:A:C8	54:CA:794:A:N6	2.23	1.06
1:AA:611:C:C2'	1:AA:612:G:H5''	1.85	1.06
3:AD:147:LEU:HD22	3:AD:155:LEU:HD11	1.37	1.06
55:DA:1076:C:H2'	55:DA:1077:A:H5''	1.06	1.05
55:DA:1082:U:C4'	58:DL:117:THR:HG21	1.85	1.05
58:DL:42:ASN:O	58:DL:46:ALA:CB	2.05	1.05
32:CE:7:VAL:HG21	32:CE:217:ARG:NH1	1.71	1.05
8:DK:115:ALA:HB3	8:DK:128:LEU:HD11	1.12	1.05
40:BM:8:LEU:HG	40:BM:96:ILE:HG22	1.33	1.05
57:DY:19:ARG:NH1	57:DY:84:GLU:OE1	1.87	1.05
57:DY:60:ARG:HE	57:DY:60:ARG:HA	0.88	1.05
12:DP:60:ARG:HG3	21:DV:181:GLU:OE2	1.55	1.05
2:AB:39:A:H2'	26:A4:1:MET:CE	1.84	1.05
13:D0:33:ARG:NH2	27:D5:55:ARG:HG2	1.71	1.05
46:CS:45:THR:HG22	46:CS:47:ASP:H	1.19	1.05
34:CG:187:ARG:HH21	34:CG:190:ASP:HB2	1.12	1.05
57:DY:73:GLY:HA3	57:DY:112:LEU:HD11	1.36	1.05
21:DV:116:VAL:HG13	21:DV:117:LEU:CD1	1.84	1.05
49:CV:87:ALA:O	49:CV:88:LYS:HD2	1.56	1.05
20:DU:95:LYS:HB3	20:DU:100:ALA:HA	1.34	1.05
58:DL:141:ALA:HB1	58:DL:143:GLU:H	0.92	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:7:VAL:CG1	58:DL:58:THR:N	2.19	1.05
57:DY:16:ASN:HA	57:DY:19:ARG:NH1	1.70	1.05
55:DA:637:A:H4'	55:DA:638:G:O5'	1.53	1.05
40:CM:48:THR:HA	40:CM:62:HIS:HB3	1.33	1.05
57:DY:135:ARG:HH11	57:DY:138:LEU:HG	1.21	1.05
57:DY:25:PHE:CE1	57:DY:82:PHE:CB	2.40	1.05
57:DY:25:PHE:CB	57:DY:82:PHE:CZ	2.40	1.05
21:AV:145:GLU:HA	21:AV:174:VAL:HG11	1.37	1.05
21:DV:187:ALA:HB2	21:DV:193:GLU:HG2	1.38	1.05
55:DA:2015:A:H1'	27:D5:2:ALA:HA	1.37	1.05
52:BD:48:C:C5	52:BD:59:U:H1'	1.90	1.05
56:DI:29:GLU:HG3	56:DJ:6:GLU:OE1	1.55	1.04
56:DJ:18:LEU:O	56:DJ:21:LYS:N	1.89	1.04
31:BA:1528:U:O2'	31:BA:1529:G:H5''	1.58	1.04
21:DV:61:LEU:CD1	21:DV:65:GLN:HB2	1.85	1.04
1:AA:925:C:H2'	1:AA:926:A:H5''	1.37	1.04
55:DA:1142(A):A:O2'	55:DA:1143:A:H3'	1.57	1.04
33:BF:150:LYS:HE2	33:BF:152:ILE:HD11	1.37	1.04
1:AA:2599:G:N7	3:AD:236:GLY:O	1.91	1.04
7:DH:153:LYS:HB3	7:DH:154:PRO:HD2	1.06	1.04
31:BA:696:A:H2'	31:BA:697:U:H5''	1.37	1.04
4:DE:170:LEU:HD22	4:DE:184:VAL:HG12	1.39	1.04
4:DE:14:ILE:CG2	4:DE:15:PHE:N	2.20	1.04
38:BK:30:ARG:HH11	38:BK:30:ARG:HB3	1.18	1.04
1:AA:2820:A:N7	4:AE:191:PRO:HB3	1.73	1.04
57:DY:127:GLU:HG3	57:DY:128:LEU:H	1.17	1.04
56:DI:24:ILE:CG1	56:DI:25:ASP:H	1.67	1.04
57:DY:93:LEU:CD2	57:DY:126:ALA:HB1	1.86	1.04
54:CA:792:A:O2'	54:CA:794:A:N7	1.89	1.04
8:AK:79:ILE:N	8:AK:142:VAL:HG21	1.71	1.04
34:BG:12:CYS:HA	34:BG:21:LEU:HD23	1.39	1.04
21:AV:163:LEU:HD23	21:AV:163:LEU:H	1.14	1.04
13:D0:117:VAL:HG22	13:D0:118:GLU:H	1.13	1.04
1:AA:2529:G:H5'	1:AA:2530:A:H5''	1.34	1.04
24:DW:16:LEU:HG	24:DW:16:LEU:O	1.53	1.04
42:BO:41:ARG:HB3	42:BO:41:ARG:HH11	1.18	1.04
42:BO:47:LYS:HB3	42:BO:48:PRO:CD	1.86	1.04
57:DY:87:VAL:HG13	57:DY:91:LYS:CB	1.86	1.04
58:DL:108:ALA:C	58:DL:111:LYS:HD3	1.78	1.04
57:DY:73:GLY:O	57:DY:119:ALA:C	1.96	1.04
57:DY:29:TYR:HE2	57:DY:32:LEU:HD11	1.02	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:146:ILE:HG23	21:AV:147:GLY:H	1.22	1.04
54:CA:792:A:C1'	54:CA:794:A:H62	1.71	1.04
1:AA:1341:U:H5''	19:AT:57:LEU:HB3	1.05	1.04
1:AA:674:G:H1'	5:AF:74:ARG:HD3	1.39	1.04
31:BA:1226:C:H4'	31:BA:1227:A:OP1	1.56	1.04
55:DA:896:A:N1	21:DV:178:GLU:OE2	1.89	1.04
21:DV:117:LEU:HD13	21:DV:118:GLN:N	1.72	1.04
54:CA:630:G:H3'	54:CA:630:G:C8	1.92	1.04
54:CA:73:G:N2	54:CA:74:C:N4	2.05	1.04
55:DA:1484:G:C2'	55:DA:1485:G:H5''	1.88	1.04
53:C1:53:U:C2'	53:C1:54:U:H5'	1.87	1.04
31:BA:168:G:H2'	31:BA:169:C:H5''	1.39	1.04
52:CD:8:U:H2'	52:CD:13:C:H41	1.15	1.04
57:DY:26:LEU:CD2	57:DY:121:ASP:OD2	2.06	1.03
57:DY:50:ARG:HG3	57:DY:51:LEU:H	1.15	1.03
57:DY:60:ARG:NE	57:DY:60:ARG:HA	1.72	1.03
52:CB:57:G:H5''	21:DV:182:LYS:NZ	1.73	1.03
3:AD:236:GLY:O	3:AD:237:GLU:HB2	1.56	1.03
1:AA:33:U:H4'	1:AA:34:C:OP1	1.58	1.03
26:D4:38:LYS:O	26:D4:40:HIS:N	1.90	1.03
16:D1:90:VAL:HG12	16:D1:91:ASP:H	1.17	1.03
31:BA:792:A:H2'	31:BA:794:A:N6	1.73	1.03
58:DL:21:PRO:HG2	58:DL:24:GLY:HA3	1.35	1.03
58:DL:19:PRO:HA	58:DL:25:PRO:CD	1.87	1.03
57:DY:7:VAL:HG22	57:DY:8:GLU:N	1.73	1.03
55:DA:1083:U:C5'	57:DY:47:ASN:OD1	2.07	1.03
56:DJ:14:GLN:HA	56:DJ:15:ALA:C	1.75	1.03
58:DL:9:LYS:HD2	58:DL:9:LYS:H	0.90	1.03
57:DY:112:LEU:N	57:DY:112:LEU:CD2	2.16	1.03
57:DY:142:LEU:CD1	57:DY:143:GLN:H	1.70	1.03
35:BH:31:LEU:HD21	35:BH:43:LEU:HD11	1.35	1.03
12:DP:76:LYS:N	12:DP:88:GLY:HA3	1.71	1.03
48:BU:18:ARG:O	48:BU:19:LYS:HB3	1.55	1.03
58:DL:11:GLN:HG3	58:DL:12:LEU:H	1.20	1.03
58:DL:101:TRP:HA	58:DL:104:VAL:HB	1.39	1.03
58:DL:93:ARG:NH1	58:DL:135:GLY:HA2	1.73	1.03
57:DY:25:PHE:CE1	57:DY:82:PHE:CD2	2.43	1.03
1:AA:893:C:H2'	1:AA:894:C:C6	1.92	1.03
21:AV:108:PRO:HB3	21:AV:141:VAL:O	1.53	1.03
1:AA:1963:U:H4'	1:AA:1964:G:OP1	1.57	1.03
1:AA:1928:A:C2'	1:AA:1929:G:H5'	1.88	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DK:77:LEU:HD11	8:DK:140:LEU:HB2	1.37	1.03
56:DI:30:ALA:HA	56:DJ:3:LEU:HD21	1.38	1.03
57:DY:130:THR:O	57:DY:134:LEU:CD1	2.06	1.03
56:DJ:13:SER:OG	56:DJ:17:VAL:HG22	1.59	1.03
21:DV:112:ARG:HG3	21:DV:112:ARG:HH11	1.22	1.03
17:A2:85:LYS:HG3	17:A2:87:HIS:H	0.89	1.03
55:DA:2760:C:C2'	55:DA:2761:G:H5''	1.89	1.03
23:AZ:87:PRO:HA	23:AZ:90:ILE:HG22	1.36	1.03
17:A2:71:LEU:H	17:A2:86:GLY:CA	1.70	1.03
54:CA:1139:G:H22	54:CA:1144:G:H1	1.03	1.03
55:DA:889:C:H2'	55:DA:890:A:O4'	1.58	1.03
55:DA:1332:G:N2	55:DA:1609:A:H2'	1.74	1.03
21:AV:97:GLU:HB3	21:AV:125:LEU:HD11	1.37	1.03
56:DI:7:ARG:HE	56:DI:8:ILE:CG1	1.71	1.02
56:DJ:12:LEU:CB	56:DJ:13:SER:CB	2.36	1.02
58:DL:105:LEU:HD12	58:DL:106:GLU:H	0.91	1.02
58:DL:7:VAL:CG1	58:DL:58:THR:O	2.07	1.02
57:DY:51:LEU:HD13	57:DY:81:VAL:C	1.77	1.02
57:DY:104:ILE:CG1	57:DY:105:PRO:HD2	1.87	1.02
53:C1:53:U:H2'	53:C1:54:U:H5'	1.39	1.02
54:CA:77:C:H2'	54:CA:78:G:H5''	1.40	1.02
55:DA:1190:G:H5'	11:DO:32:THR:HA	1.40	1.02
56:DI:7:ARG:HE	56:DI:8:ILE:HG12	1.23	1.02
58:DL:120:LEU:O	58:DL:121:GLU:HB2	1.59	1.02
58:DL:52:ILE:CG1	58:DL:76:TYR:CB	2.37	1.02
55:DA:1061:U:H4'	55:DA:1070:A:C1'	1.88	1.02
57:DY:112:LEU:CD1	57:DY:121:ASP:HB2	1.88	1.02
31:BA:1322:C:O2'	31:BA:1323:G:H5'	1.58	1.02
4:DE:170:LEU:HD23	4:DE:185:LYS:HB2	1.41	1.02
54:CA:1178:G:H5'	39:CL:93:ARG:HH21	1.18	1.02
12:DP:79:LEU:O	22:D3:4:LYS:NZ	1.92	1.02
17:D2:35:LEU:HD21	17:D2:57:VAL:HG22	1.39	1.02
1:AA:2820:A:C5	4:AE:191:PRO:HB2	1.95	1.02
47:CT:67:LYS:HA	47:CT:70:ARG:HH12	1.20	1.02
42:BO:23:LYS:HD3	42:BO:23:LYS:H	1.21	1.02
56:DI:30:ALA:HA	56:DJ:3:LEU:CD2	1.89	1.02
57:DY:112:LEU:HD13	57:DY:121:ASP:OD2	1.59	1.02
58:DL:99:ILE:HG13	58:DL:138:VAL:HG21	1.38	1.02
58:DL:83:GLY:H	58:DL:99:ILE:CG2	1.72	1.02
57:DY:27:VAL:CB	57:DY:111:LEU:N	2.23	1.02
12:AP:77:LYS:HZ3	12:AP:82:ARG:HA	1.23	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:79:ILE:H	8:AK:142:VAL:HG21	0.85	1.02
1:AA:1928:A:H2'	1:AA:1929:G:H5'	1.05	1.02
12:DP:76:LYS:H	12:DP:88:GLY:HA3	0.86	1.02
1:AA:2820:A:H62	4:AE:192:ASN:N	1.51	1.02
17:A2:5:VAL:HG23	17:A2:37:VAL:HG11	1.40	1.02
54:CA:562:C:O2'	42:CO:15:ARG:HB3	1.59	1.02
5:DF:66:PRO:O	5:DF:67:GLN:HB3	1.56	1.02
1:AA:2645:G:H4'	1:AA:2732:G:O2'	1.59	1.02
31:BA:1116:C:H2'	31:BA:1117:G:H5''	1.34	1.02
11:AO:75:ILE:HD13	11:AO:75:ILE:H	1.20	1.02
4:DE:24:THR:HG21	4:DE:188:VAL:HG11	1.41	1.02
1:AA:1024:G:H3'	1:AA:1025:G:H5''	1.40	1.02
58:DL:105:LEU:HD12	58:DL:106:GLU:N	1.75	1.01
21:DV:191:VAL:HG11	21:DV:197:ILE:HG12	1.41	1.01
21:DV:191:VAL:HG11	21:DV:197:ILE:HG13	1.37	1.01
49:BV:42:PRO:O	49:BV:45:VAL:N	1.93	1.01
4:AE:60:ASN:C	4:AE:62:PRO:HD2	1.81	1.01
52:CD:21:A:H2'	52:CD:22:G:H5''	1.42	1.01
7:DH:4:ILE:HG13	7:DH:6:ARG:NE	1.75	1.01
8:AK:109:ILE:H	8:AK:109:ILE:HD13	1.24	1.01
38:CK:6:ILE:HB	38:CK:85:ARG:HH12	1.19	1.01
58:DL:9:LYS:N	58:DL:9:LYS:HD2	1.75	1.01
57:DY:71:LEU:HB2	57:DY:112:LEU:C	1.80	1.01
57:DY:18:GLU:HG2	57:DY:66:LEU:CD1	1.89	1.01
57:DY:49:ALA:N	57:DY:84:GLU:HB2	1.75	1.01
58:DL:18:THR:CG2	58:DL:38:VAL:CG1	2.38	1.01
31:BA:1329:A:H5''	43:BP:25:ILE:O	1.58	1.01
1:AA:1484:G:C2'	1:AA:1485:G:H5''	1.90	1.01
43:CP:88:ARG:HB3	43:CP:88:ARG:HH11	1.19	1.01
31:BA:56:U:H2'	31:BA:57:G:C8	1.95	1.01
55:DA:1082:U:H4'	58:DL:117:THR:HG21	1.02	1.01
58:DL:73:PRO:HB3	58:DL:77:LEU:HD13	1.41	1.01
21:AV:141:VAL:HG21	21:AV:144:LEU:HD23	1.41	1.01
49:CV:84:GLY:HA2	49:CV:87:ALA:HB3	1.42	1.01
55:DA:2635:C:H5''	4:DE:78:LEU:HA	1.42	1.01
5:DF:107:LYS:HD2	5:DF:206:ILE:HD13	1.43	1.01
55:DA:603:A:H4'	55:DA:604:G:O5'	1.55	1.01
31:BA:547:A:H4'	31:BA:548:G:O5'	1.54	1.01
55:DA:762:U:H4'	55:DA:763:G:O5'	1.59	1.01
31:BA:77:C:H2'	31:BA:78:G:H5''	1.38	1.01
57:DY:54:ALA:HB1	57:DY:57:THR:HB	1.38	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1363:A:H4'	54:CA:1364:U:H5''	1.37	1.01
17:D2:35:LEU:HB2	17:D2:37:VAL:HG22	1.37	1.01
24:DW:41:ILE:HD11	24:DW:44:LEU:HB2	1.37	1.01
21:AV:69:THR:HG22	21:AV:90:VAL:HA	1.41	1.01
20:AU:97:ARG:HH21	20:AU:98:VAL:HB	1.26	1.01
7:AH:153:LYS:HB3	7:AH:161:GLY:HA2	1.39	1.01
56:DI:16:THR:HG23	56:DI:17:VAL:H	1.23	1.01
58:DL:19:PRO:C	58:DL:25:PRO:HD2	1.80	1.01
58:DL:57:ILE:HD13	58:DL:58:THR:N	1.74	1.01
57:DY:92:THR:CG2	57:DY:93:LEU:HD23	1.90	1.01
55:DA:896:A:C2	21:DV:178:GLU:OE2	2.14	1.01
21:DV:150:LEU:HD22	21:DV:151:HIS:N	1.76	1.01
31:BA:792:A:C2'	31:BA:794:A:H62	1.74	1.01
55:DA:1063:G:H1'	58:DL:134:MET:HE1	1.42	1.00
58:DL:14:ALA:HB1	58:DL:50:ASP:HB2	1.41	1.00
12:AP:82:ARG:HG2	12:AP:82:ARG:HH11	1.26	1.00
3:DD:35:LYS:HG2	3:DD:64:ILE:N	1.73	1.00
21:DV:150:LEU:HD21	21:DV:154:ASP:CB	1.90	1.00
55:DA:1934:C:H5'	55:DA:1934:C:H6	1.23	1.00
23:AZ:78:LYS:HD2	23:AZ:80:LEU:HD21	1.39	1.00
1:AA:481:G:OP2	20:AU:47:LYS:HB2	1.60	1.00
4:DE:4:ILE:HD12	4:DE:28:ALA:HB1	1.40	1.00
55:DA:1061:U:C4'	55:DA:1070:A:H1'	1.91	1.00
56:DI:24:ILE:N	56:DI:27:LEU:HD12	1.75	1.00
21:DV:187:ALA:CB	21:DV:193:GLU:HG2	1.92	1.00
43:CP:124:PRO:CB	43:CP:125:ARG:HB2	1.90	1.00
21:DV:116:VAL:O	21:DV:174:VAL:HA	1.61	1.00
6:DG:112:PRO:HB3	26:D4:37:SER:H	1.25	1.00
10:AN:4:PRO:O	10:AN:5:GLN:HB2	1.57	1.00
35:CH:40:ARG:HH11	35:CH:40:ARG:HB3	1.25	1.00
56:DJ:13:SER:HB3	56:DJ:17:VAL:CG2	1.73	1.00
57:DY:71:LEU:HD22	57:DY:72:ASP:H	1.24	1.00
1:AA:384:U:H2'	1:AA:385:C:H5'	1.01	1.00
21:DV:116:VAL:HG11	21:DV:118:GLN:OE1	1.61	1.00
40:BM:40:LEU:HB3	40:BM:69:ASN:HB3	1.39	1.00
55:DA:1533:C:H2'	55:DA:1534:G:N7	1.77	1.00
57:DY:134:LEU:HD23	56:DJ:19:GLU:OE1	1.61	1.00
45:CR:82:ILE:HD11	45:CR:88:ARG:HB2	1.44	1.00
53:C1:52:U:O2'	53:C1:53:U:H5''	1.60	1.00
30:D8:36:LYS:HB3	30:D8:40:GLU:HG2	1.44	1.00
55:DA:1064:C:H4'	58:DL:89:HIS:HA	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:894:C:H3'	1:AA:895:U:H6	1.22	1.00
43:CP:124:PRO:HB2	43:CP:125:ARG:CB	1.88	1.00
21:DV:116:VAL:CB	21:DV:175:VAL:O	2.09	1.00
1:AA:585:G:N1	1:AA:1253:A:OP1	1.94	1.00
27:D5:33:CYS:HB2	27:D5:40:LYS:HD3	1.40	1.00
52:BD:35:A:N6	52:BD:37:MIA:H153	1.77	1.00
57:DY:24:PHE:CZ	57:DY:88:ALA:HB2	1.96	1.00
3:DD:35:LYS:HD2	3:DD:104:TYR:CD1	1.96	1.00
1:AA:458:G:H1'	1:AA:459:U:C5	1.96	1.00
31:BA:1443:G:H3'	31:BA:1446:A:H5''	1.43	1.00
52:CB:74:C:O2'	52:CB:75:C:OP2	1.78	1.00
55:DA:1061:U:H5	58:DL:54:PRO:HB3	1.26	1.00
57:DY:93:LEU:CD2	57:DY:97:ALA:HB3	1.91	1.00
1:AA:1899:G:N2	1:AA:1902:C:N4	1.99	1.00
21:AV:175:VAL:CG1	21:AV:176:PRO:CD	2.34	0.99
43:BP:83:ASP:OD1	43:BP:84:ILE:CD1	2.09	0.99
39:BL:16:ARG:NH1	39:BL:16:ARG:HB2	1.77	0.99
1:AA:1212:G:H1'	1:AA:1237:A:N6	1.77	0.99
31:BA:872:A:H4'	31:BA:873:A:OP1	1.61	0.99
55:DA:2131:G:H5'	55:DA:2132:U:H5''	1.42	0.99
58:DL:107:ILE:CG2	58:DL:108:ALA:H	1.74	0.99
54:CA:630:G:H2'	54:CA:631:G:C5'	1.92	0.99
54:CA:1028:C:H2'	54:CA:1028(A):C:H5''	1.42	0.99
56:DJ:18:LEU:HA	56:DJ:21:LYS:HB2	1.43	0.99
58:DL:20:ALA:H	58:DL:25:PRO:CD	1.62	0.99
55:DA:265:A:O2'	55:DA:266:G:H4'	1.61	0.99
54:CA:1002:G:H2'	54:CA:1003:G:C8	1.96	0.99
4:DE:21:VAL:HB	4:DE:22:PRO:CB	1.91	0.99
43:BP:3:ARG:HD2	43:BP:9:ILE:HD11	1.41	0.99
54:CA:980:C:H5'	54:CA:981:U:OP2	1.62	0.99
13:A0:37:THR:HG22	13:A0:39:PRO:HD2	1.39	0.99
9:DM:134:ARG:H	9:DM:135:PRO:HD3	1.26	0.99
5:AF:24:LEU:HB3	5:AF:25:PRO:HD2	1.44	0.99
58:DL:57:ILE:HD13	58:DL:58:THR:H	0.88	0.99
31:BA:887:G:H2'	31:BA:888:G:H5'	1.01	0.99
23:AZ:91:LYS:HE3	23:AZ:91:LYS:HA	1.45	0.99
26:D4:58:ARG:HA	26:D4:62:ARG:HB3	1.45	0.99
54:CA:188:U:H2'	54:CA:189:U:H5''	1.44	0.99
1:AA:2820:A:N7	4:AE:191:PRO:CB	2.25	0.99
56:DI:28:LYS:HA	56:DI:28:LYS:CE	1.89	0.99
58:DL:69:THR:HG22	58:DL:70:LYS:H	1.26	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:54:THR:HG21	32:CE:201:ILE:HD11	1.43	0.99
11:DO:122:PRO:HB3	11:DO:141:ALA:HB1	1.44	0.99
20:AU:61:ILE:HG22	20:AU:62:GLU:H	1.28	0.99
54:CA:630:G:H2'	54:CA:631:G:H5''	1.01	0.99
56:DJ:13:SER:HB3	56:DJ:17:VAL:HG21	1.10	0.99
58:DL:9:LYS:CD	58:DL:9:LYS:H	1.76	0.99
21:AV:145:GLU:O	21:AV:146:ILE:HD13	1.61	0.99
49:BV:5:LEU:HD22	49:BV:6:LYS:H	1.27	0.99
21:DV:150:LEU:HD21	21:DV:154:ASP:CG	1.81	0.99
39:CL:8:GLY:HA2	39:CL:79:LEU:HD12	1.44	0.99
57:DY:25:PHE:CZ	57:DY:82:PHE:CB	2.46	0.98
57:DY:50:ARG:HG3	57:DY:51:LEU:N	1.76	0.98
26:D4:69:LYS:HD3	26:D4:70:GLY:N	1.76	0.98
20:AU:63:LYS:HZ2	20:AU:64:GLU:H	1.09	0.98
55:DA:1026:U:H4'	55:DA:1027:A:OP1	1.61	0.98
58:DL:11:GLN:HG2	58:DL:41:PHE:HZ	1.27	0.98
57:DY:51:LEU:HD21	57:DY:82:PHE:O	0.81	0.98
1:AA:654(B):C:H2'	1:AA:654(C):G:O4'	1.61	0.98
57:DY:75:GLN:HE21	57:DY:76:GLY:H	1.04	0.98
7:DH:153:LYS:CB	7:DH:154:PRO:HD2	1.93	0.98
1:AA:2572:A:C8	4:AE:144:ARG:HD2	1.97	0.98
58:DL:112:MET:HG3	58:DL:118:THR:O	1.64	0.98
55:DA:1060:U:OP1	58:DL:54:PRO:CG	2.11	0.98
57:DY:9:LEU:HD13	57:DY:10:LEU:N	1.78	0.98
21:DV:118:GLN:HA	21:DV:118:GLN:NE2	1.77	0.98
55:DA:1318:C:H2'	55:DA:1319:G:H5''	1.42	0.98
57:DY:9:LEU:CD1	57:DY:10:LEU:H	1.75	0.98
31:BA:1028:C:H2'	31:BA:1028(A):C:H5''	1.42	0.98
58:DL:14:ALA:HB2	58:DL:50:ASP:CB	1.93	0.98
57:DY:27:VAL:HG23	57:DY:110:GLY:HA3	1.46	0.98
43:BP:83:ASP:OD1	43:BP:84:ILE:HD12	1.61	0.98
1:AA:1924:C:N3	1:AA:1925:C:C5	2.30	0.98
1:AA:1341:U:O2'	1:AA:1397:U:O2'	1.79	0.98
20:DU:97:ARG:HH21	20:DU:98:VAL:HB	1.27	0.98
2:DB:74:U:C2'	2:DB:75:G:H5''	1.93	0.98
55:DA:2760:C:H2'	55:DA:2761:G:H5''	1.45	0.98
32:BE:224:GLN:HA	32:BE:229:VAL:HG22	1.43	0.98
56:DI:7:ARG:NE	56:DI:8:ILE:HG12	1.77	0.98
58:DL:20:ALA:N	58:DL:25:PRO:HG2	1.71	0.98
1:AA:2701:C:H3'	1:AA:2702:U:H5''	0.98	0.98
55:DA:905:U:H2'	55:DA:906:G:H5''	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1798:U:H5'	3:DD:259:THR:HG22	1.41	0.98
9:AM:133:GLN:HG2	9:AM:135:PRO:HD3	1.45	0.98
58:DL:105:LEU:CD1	58:DL:106:GLU:H	1.75	0.98
57:DY:71:LEU:CA	57:DY:113:GLN:HB3	1.92	0.98
57:DY:132:ASP:C	57:DY:134:LEU:H	1.66	0.98
30:A8:49:VAL:HG12	30:A8:50:LEU:H	1.12	0.98
12:DP:76:LYS:H	12:DP:88:GLY:CA	1.75	0.98
8:DK:92:VAL:HG13	8:DK:120:ILE:HG23	1.44	0.98
20:AU:91:GLU:HG3	20:AU:92:ASN:H	1.28	0.98
56:DI:24:ILE:HA	56:DI:27:LEU:HD13	1.45	0.98
58:DL:95:LYS:HB3	58:DL:136:VAL:HG21	1.42	0.98
21:AV:175:VAL:O	21:AV:177:PRO:HG2	1.62	0.98
35:BH:43:LEU:H	35:BH:65:ASN:HD22	1.09	0.98
57:DY:29:TYR:CE2	57:DY:32:LEU:CD1	2.46	0.98
1:AA:896:A:H5'	1:AA:897:C:OP2	1.63	0.98
1:AA:387:U:O2'	1:AA:388:G:C5'	2.11	0.98
1:AA:2756:U:O2'	1:AA:2757:A:H5''	1.64	0.98
52:CC:58:A:H4'	52:CC:59:U:OP1	1.63	0.98
58:DL:138:VAL:O	58:DL:139:VAL:HB	1.62	0.97
21:AV:146:ILE:CG2	21:AV:147:GLY:H	1.77	0.97
5:DF:103:LYS:HA	5:DF:106:ARG:HG3	1.45	0.97
55:DA:654(B):C:H2'	55:DA:654(C):G:O4'	1.61	0.97
55:DA:1083:U:H2'	55:DA:1085:A:OP2	1.62	0.97
57:DY:7:VAL:HG13	57:DY:8:GLU:N	1.77	0.97
30:A8:32:LEU:HD23	30:A8:34:TRP:N	1.79	0.97
1:AA:1359:A:H8	1:AA:1359:A:C3'	1.73	0.97
31:BA:887:G:H2'	31:BA:888:G:C5'	1.93	0.97
11:DO:64:LYS:C	11:DO:66:GLY:H	1.66	0.97
6:DG:107:LEU:O	26:D4:38:LYS:HG2	1.64	0.97
1:AA:90:U:H2'	1:AA:90:U:O2	1.64	0.97
26:A4:53:GLU:HG3	26:A4:54:GLY:H	1.25	0.97
20:AU:38:ILE:HG22	20:AU:66:PRO:HA	1.41	0.97
3:AD:35:LYS:HG2	3:AD:64:ILE:N	1.77	0.97
58:DL:25:PRO:HA	58:DL:27:LEU:HG	1.43	0.97
57:DY:24:PHE:O	57:DY:25:PHE:O	1.82	0.97
21:AV:108:PRO:CG	21:AV:141:VAL:O	2.11	0.97
57:DY:80:VAL:HG12	57:DY:81:VAL:N	1.73	0.97
54:CA:1363:A:H1'	54:CA:1365:G:N7	1.79	0.97
1:AA:2392:A:H2	1:AA:2424:C:H42	1.08	0.97
58:DL:11:GLN:HG3	58:DL:12:LEU:N	1.77	0.97
58:DL:52:ILE:HD11	58:DL:76:TYR:CB	1.93	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:A2:69:LYS:HD3	17:A2:85:LYS:HD3	1.46	0.97
4:AE:60:ASN:ND2	4:AE:63:LEU:HB2	1.78	0.97
1:AA:2091:U:H3'	1:AA:2092:U:H5'	1.44	0.97
14:DQ:88:ASP:O	14:DQ:89:ARG:HB3	1.61	0.97
13:A0:73:VAL:O	13:A0:76:VAL:HG12	1.64	0.97
1:AA:434:U:H4'	1:AA:435:C:OP1	1.63	0.97
43:CP:124:PRO:HB3	43:CP:125:ARG:CB	1.93	0.97
1:AA:1341:U:C5'	19:AT:57:LEU:HB3	1.94	0.97
5:AF:8:GLN:HG3	5:AF:126:VAL:HA	1.45	0.97
55:DA:2712:U:HO2'	55:DA:2712(A):A:H8	0.98	0.97
1:AA:1267:U:C4	1:AA:2012:G:C2	2.53	0.97
46:CS:4:ILE:HD11	46:CS:64:ALA:HB1	1.47	0.97
55:DA:1076:C:C2'	55:DA:1077:A:H5''	1.93	0.97
57:DY:111:LEU:C	57:DY:112:LEU:CD2	2.32	0.97
57:DY:60:ARG:HE	57:DY:60:ARG:CA	1.77	0.97
50:CW:48:LYS:HB3	50:CW:51:GLU:HG3	1.44	0.97
31:BA:872:A:O2'	31:BA:873:A:H3'	1.63	0.97
3:AD:35:LYS:NZ	3:AD:104:TYR:HB2	1.79	0.97
19:AT:34:ALA:HB1	19:AT:39:ILE:HD11	1.45	0.97
31:BA:251:G:C6	31:BA:266:G:O6	2.18	0.97
57:DY:132:ASP:O	57:DY:134:LEU:HD22	1.65	0.97
19:AT:18:TYR:HA	19:AT:21:PHE:HD2	1.30	0.97
37:BJ:73:MET:HG2	37:BJ:90:GLU:HA	1.44	0.97
55:DA:593:G:O2'	30:D8:61:LEU:HD13	1.65	0.97
1:AA:27:G:HO2'	1:AA:28:A:H8	1.08	0.97
56:DI:21:LYS:O	56:DI:26:ALA:CB	2.12	0.97
57:DY:27:VAL:HA	57:DY:111:LEU:HD13	1.42	0.97
57:DY:90:ALA:H	56:DJ:15:ALA:HB2	1.20	0.97
21:DV:190:GLU:O	21:DV:191:VAL:CG2	2.12	0.97
55:DA:887:A:HO2'	55:DA:889:C:H5	1.13	0.97
50:CW:100:ILE:HG13	50:CW:102:GLY:H	1.27	0.97
1:AA:2111:C:H41	1:AA:2147:G:N2	1.61	0.97
31:BA:1502:A:H2	31:BA:1505:G:H1	1.11	0.97
56:DJ:5:ILE:CG2	56:DJ:9:LYS:HG3	1.95	0.96
58:DL:18:THR:HG22	58:DL:38:VAL:CG1	1.94	0.96
12:AP:75:THR:HG22	12:AP:88:GLY:HA3	1.44	0.96
31:BA:410:G:OP2	34:BG:25:ARG:HG2	1.65	0.96
55:DA:890:A:H3'	55:DA:892:G:H8	1.30	0.96
7:AH:152:ARG:HG3	7:AH:153:LYS:HG2	1.46	0.96
55:DA:1454:U:H4'	55:DA:1455:G:OP1	1.62	0.96
7:DH:126:PRO:CD	7:DH:127:GLU:H	1.76	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2419:U:H4'	28:D6:23:THR:HG21	1.43	0.96
21:AV:145:GLU:OE1	21:AV:174:VAL:CG1	2.13	0.96
8:AK:79:ILE:H	8:AK:142:VAL:CG2	1.78	0.96
27:A5:4:HIS:HB3	27:A5:5:PRO:CD	1.94	0.96
57:DY:138:LEU:O	57:DY:139:VAL:HG12	1.65	0.96
57:DY:14:LYS:HA	57:DY:14:LYS:HE3	1.48	0.96
3:DD:32:SER:O	3:DD:33:LEU:HB2	1.65	0.96
31:BA:1129:C:C4'	31:BA:1130:A:H5'	1.95	0.96
21:DV:61:LEU:HD13	21:DV:62:PRO:O	1.65	0.96
27:D5:4:HIS:HB3	27:D5:5:PRO:CD	1.94	0.96
56:DI:29:GLU:CA	56:DJ:2:ALA:HB1	1.94	0.96
57:DY:118:THR:CG2	57:DY:119:ALA:H	1.71	0.96
55:DA:2287:A:N6	55:DA:2344:U:H3	1.62	0.96
54:CA:1182:G:H4'	54:CA:1183:A:H5''	1.46	0.96
55:DA:2469:A:C2	55:DA:2481:G:N2	2.33	0.96
5:AF:161:GLU:HG2	5:AF:164:ARG:HH22	1.28	0.96
55:DA:1077:A:H3'	55:DA:1078:U:H5'	0.97	0.96
56:DI:19:GLU:O	56:DI:20:LEU:O	1.83	0.96
57:DY:27:VAL:HG21	57:DY:110:GLY:N	1.79	0.96
58:DL:50:ASP:H	58:DL:53:VAL:HG21	1.30	0.96
57:DY:8:GLU:OE1	57:DY:52:PHE:HD1	1.48	0.96
6:DG:67:LYS:HE2	26:D4:6:HIS:NE2	1.79	0.96
55:DA:2503:A:H4'	55:DA:2504:U:OP1	1.62	0.96
57:DY:23:SER:HG	57:DY:114:GLY:HA2	1.22	0.96
55:DA:1083:U:C4'	57:DY:41:ARG:HD3	1.95	0.96
57:DY:93:LEU:HG	57:DY:126:ALA:C	1.86	0.96
26:A4:60:GLN:HE21	26:A4:60:GLN:N	1.62	0.96
54:CA:1053:G:H5'	54:CA:1054:C:H5'	1.46	0.96
48:CU:18:ARG:H	48:CU:18:ARG:CD	1.79	0.96
55:DA:84:A:H4'	55:DA:85:G:O5'	1.65	0.96
58:DL:54:PRO:HD2	58:DL:72:PRO:HA	1.46	0.96
55:DA:51:G:O2'	55:DA:119:A:N1	1.97	0.96
1:AA:2758:A:H2'	1:AA:2759:G:H5''	1.45	0.96
31:BA:56:U:H2'	31:BA:57:G:H8	1.30	0.96
15:DR:50:ILE:HD11	15:DR:102:ILE:HD11	1.46	0.96
19:AT:63:LYS:HE3	19:AT:63:LYS:H	1.30	0.96
29:A7:12:ARG:HD3	29:A7:46:VAL:HG21	1.47	0.96
57:DY:40:LEU:CD2	57:DY:50:ARG:NH1	2.29	0.96
31:BA:1363:A:H1'	31:BA:1365:G:N7	1.81	0.96
3:DD:35:LYS:NZ	3:DD:104:TYR:HB2	1.80	0.96
16:A1:95:LEU:C	16:A1:97:ASP:H	1.60	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:255:LYS:O	3:AD:255:LYS:HD2	1.65	0.96
8:AK:5:LEU:HD11	8:AK:19:VAL:HG12	1.45	0.96
58:DL:86:LYS:HE2	58:DL:86:LYS:CA	1.94	0.95
57:DY:50:ARG:O	57:DY:51:LEU:HG	1.65	0.95
11:AO:64:LYS:HE3	30:A8:30:ARG:CZ	1.96	0.95
1:AA:2394:C:OP1	11:AO:63:PRO:HD2	1.64	0.95
1:AA:1225:C:H4'	17:A2:85:LYS:HB2	1.48	0.95
20:AU:87:LYS:HB3	20:AU:92:ASN:HB3	1.46	0.95
2:DB:20:C:H2'	2:DB:21:G:H5''	1.48	0.95
24:DW:50:ILE:HD12	24:DW:51:ARG:H	1.31	0.95
31:BA:562:C:O2'	42:BO:15:ARG:HB3	1.67	0.95
55:DA:2147:G:H2'	55:DA:2148:G:O4'	1.66	0.95
57:DY:70:GLU:O	57:DY:71:LEU:HD12	1.64	0.95
21:DV:192:ALA:O	21:DV:194:PRO:HD3	1.66	0.95
3:AD:242:ARG:H	3:AD:242:ARG:HD2	1.31	0.95
21:DV:146:ILE:HA	21:DV:174:VAL:HB	1.45	0.95
3:AD:32:SER:HA	3:AD:36:PRO:HD2	1.45	0.95
55:DA:1169:G:H2'	55:DA:1170:G:H5''	1.48	0.95
3:DD:43:ARG:NH1	3:DD:44:ASN:OD1	1.99	0.95
56:DI:20:LEU:C	56:DI:24:ILE:CG2	2.35	0.95
58:DL:7:VAL:HG13	58:DL:57:ILE:HD12	1.45	0.95
57:DY:134:LEU:CA	57:DY:137:GLU:HG2	1.96	0.95
57:DY:28:ASN:OD1	57:DY:83:TYR:CE2	2.18	0.95
4:AE:48:GLN:HG2	4:AE:78:LEU:HD12	1.48	0.95
6:DG:67:LYS:HE2	26:D4:6:HIS:CE1	2.00	0.95
29:D7:8:ASN:ND2	29:D7:11:LYS:H	1.64	0.95
24:AW:14:ARG:HG2	24:AW:15:LYS:HE3	1.47	0.95
25:AX:59:VAL:HG12	25:AX:60:GLU:H	1.28	0.95
57:DY:27:VAL:HG21	57:DY:110:GLY:HA3	1.19	0.95
57:DY:16:ASN:CA	57:DY:19:ARG:HH11	1.73	0.95
57:DY:50:ARG:CA	57:DY:83:TYR:CD1	2.49	0.95
21:AV:146:ILE:CG2	21:AV:147:GLY:N	2.30	0.95
21:DV:118:GLN:HE21	21:DV:118:GLN:HA	1.28	0.95
57:DY:141:VAL:HG13	57:DY:142:LEU:H	1.31	0.95
21:DV:150:LEU:HD22	21:DV:151:HIS:H	1.25	0.95
8:DK:78:THR:HA	8:DK:141:LYS:HB2	1.46	0.95
35:BH:51:VAL:HB	35:BH:52:PRO:HD3	1.46	0.95
1:AA:673:C:H5'	5:AF:54:ARG:HH12	1.31	0.95
3:AD:108:PRO:HG2	3:AD:111:LEU:HB2	1.46	0.95
55:DA:792:G:H5''	55:DA:793:A:H5'	1.46	0.95
56:DI:17:VAL:HA	56:DI:20:LEU:HD12	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DJ:4:ASP:O	56:DJ:8:ILE:HB	1.64	0.95
55:DA:49:A:H5''	55:DA:50:U:H3'	1.48	0.95
7:AH:92:ILE:HD12	7:AH:92:ILE:H	1.31	0.95
57:DY:118:THR:HG23	57:DY:119:ALA:N	1.70	0.95
4:DE:78:LEU:HD23	4:DE:79:ARG:HB2	1.49	0.95
9:AM:73:THR:HG22	9:AM:84:LYS:HB3	1.49	0.95
52:BB:69:G:H2'	52:BB:70:G:H5''	1.49	0.95
24:DW:65:ASN:HD22	24:DW:69:ARG:NH2	1.65	0.95
17:D2:52:VAL:HG21	17:D2:55:ALA:HB3	1.48	0.95
57:DY:73:GLY:O	57:DY:120:LYS:N	1.98	0.95
15:AR:16:ARG:NH2	15:AR:19:LEU:HD21	1.82	0.95
15:DR:26:ASP:HB3	15:DR:91:ARG:HA	1.47	0.95
1:AA:1928:A:C2'	1:AA:1929:G:C5'	2.45	0.95
1:AA:90:U:HO2'	1:AA:91:A:H8	0.98	0.95
1:AA:654(M):C:H3'	1:AA:654(N):G:N7	1.81	0.95
43:BP:92:HIS:CE1	43:BP:98:VAL:HG21	2.02	0.95
57:DY:26:LEU:N	57:DY:82:PHE:CZ	2.35	0.95
21:AV:144:LEU:C	21:AV:146:ILE:H	1.69	0.95
21:AV:146:ILE:C	21:AV:148:ASP:H	1.71	0.95
27:D5:55:ARG:HG3	27:D5:57:VAL:H	1.32	0.95
1:AA:2701:C:C3'	1:AA:2702:U:H5''	1.95	0.95
17:A2:71:LEU:N	17:A2:86:GLY:HA3	1.81	0.95
7:AH:106:THR:HG22	7:AH:112:PRO:HB3	1.48	0.95
57:DY:107:VAL:HG12	57:DY:108:LYS:N	1.79	0.95
55:DA:1082:U:H4'	58:DL:117:THR:CG2	1.96	0.94
54:CA:1313:U:OP2	49:CV:6:LYS:CB	2.14	0.94
54:CA:1313:U:P	49:CV:6:LYS:CB	2.55	0.94
49:BV:9:VAL:HG12	49:BV:10:PHE:H	1.32	0.94
49:CV:40:ILE:HG12	49:CV:41:VAL:HG22	1.49	0.94
31:BA:1007:C:H2'	31:BA:1008:C:H5''	1.49	0.94
55:DA:676:A:H8	55:DA:2069:G:N2	1.64	0.94
53:B1:36:G:H2'	53:B1:37:G:H5''	1.48	0.94
28:A6:41:PRO:HD2	28:A6:45:LYS:O	1.63	0.94
49:CV:88:LYS:HA	49:CV:88:LYS:CE	1.91	0.94
8:DK:95:LYS:HA	8:DK:111:PRO:HG3	1.49	0.94
1:AA:458:G:O2'	1:AA:459:U:OP2	1.85	0.94
52:BD:21:A:H2'	52:BD:22:G:H5''	1.47	0.94
16:D1:83:LEU:HA	16:D1:88:ILE:HD11	1.46	0.94
55:DA:2134:A:H62	55:DA:2157:G:H1'	1.31	0.94
26:D4:7:PRO:HB2	26:D4:27:THR:HG21	1.46	0.94
52:CD:41:C:H2'	52:CD:42:C:H5''	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:113:PRO:O	58:DL:114:ASP:HB3	1.65	0.94
21:DV:191:VAL:HG12	21:DV:197:ILE:CG2	1.95	0.94
28:A6:36:LEU:HD23	28:A6:50:ARG:HD2	1.48	0.94
9:DM:96:GLU:C	9:DM:98:VAL:H	1.68	0.94
54:CA:266:G:H5''	54:CA:268:C:H41	1.31	0.94
20:AU:75:ILE:HG13	20:AU:79:CYS:HA	1.46	0.94
55:DA:803:U:H6	55:DA:803:U:H5'	1.29	0.94
20:AU:13:VAL:HG23	20:AU:73:ARG:O	1.66	0.94
54:CA:579:G:H5'	54:CA:728:A:H1'	1.47	0.94
24:AW:70:GLN:HG2	24:AW:71:ASN:H	1.28	0.94
55:DA:1869:G:H5'	55:DA:1870:C:OP2	1.65	0.94
58:DL:86:LYS:HE2	58:DL:86:LYS:HA	1.49	0.94
28:A6:48:VAL:HG13	28:A6:49:HIS:H	1.32	0.94
26:D4:68:ARG:CA	26:D4:68:ARG:CZ	2.45	0.94
54:CA:38:G:C2	54:CA:397:A:H2	1.84	0.94
1:AA:265:A:O2'	1:AA:266:G:H4'	1.67	0.94
4:DE:14:ILE:HG22	4:DE:15:PHE:H	1.30	0.94
1:AA:1212:G:H1'	1:AA:1237:A:H61	1.29	0.94
24:DW:50:ILE:CD1	24:DW:51:ARG:H	1.80	0.94
31:BA:1534:A:H2'	31:BA:1535:C:C6	2.02	0.94
4:AE:200:GLU:HG2	4:AE:201:THR:H	1.32	0.94
58:DL:19:PRO:CA	58:DL:25:PRO:CG	2.46	0.94
57:DY:27:VAL:HG21	57:DY:109:SER:C	1.88	0.94
8:AK:142:VAL:HG22	8:AK:143:SER:N	1.83	0.94
55:DA:1019:U:H3	55:DA:1142(A):A:H62	1.01	0.94
24:AW:50:ILE:HD12	24:AW:51:ARG:H	1.31	0.94
1:AA:608:A:C4	1:AA:621:A:N6	2.34	0.94
55:DA:1083:U:H1'	55:DA:1086:A:N6	1.82	0.94
30:D8:43:GLN:C	30:D8:44:LYS:HD2	1.88	0.94
22:A3:82:ARG:HG3	22:A3:84:LEU:HD13	1.46	0.94
56:DI:9:LYS:O	56:DI:12:LEU:N	1.99	0.94
58:DL:18:THR:HB	58:DL:19:PRO:HD3	0.97	0.94
57:DY:75:GLN:HE21	57:DY:76:GLY:N	1.65	0.94
52:CD:72:C:H2'	52:CD:73:A:H5''	1.49	0.94
58:DL:108:ALA:CA	58:DL:111:LYS:HD3	1.98	0.94
58:DL:42:ASN:O	58:DL:46:ALA:HB3	1.66	0.94
57:DY:112:LEU:HD11	57:DY:121:ASP:HB2	1.48	0.94
21:AV:107:THR:N	21:AV:108:PRO:HD2	1.80	0.94
21:DV:189:ALA:HB1	21:DV:190:GLU:HG3	1.50	0.94
31:BA:1305:G:H22	31:BA:1331:G:H2'	1.33	0.94
49:CV:41:VAL:HB	49:CV:42:PRO:CA	1.94	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1007:C:C2'	54:CA:1008:C:H5''	1.97	0.94
34:BG:12:CYS:HA	34:BG:21:LEU:CD2	1.98	0.94
17:A2:80:GLN:HE21	17:A2:80:GLN:HA	0.78	0.94
21:DV:61:LEU:HD11	21:DV:65:GLN:HB2	1.48	0.94
52:CD:20:U:C2'	52:CD:21:A:H5'	1.97	0.94
31:BA:1116:C:C2'	31:BA:1117:G:H5''	1.97	0.94
1:AA:93:C:H5'	1:AA:94:G:OP2	1.67	0.94
1:AA:791:C:H4'	1:AA:792:G:OP1	1.67	0.94
55:DA:2448:A:H4'	55:DA:2449:U:OP2	1.64	0.94
1:AA:2131:G:H5'	1:AA:2132:U:H5''	1.48	0.94
55:DA:1925:C:C6	55:DA:1925:C:H3'	2.02	0.94
8:AK:131:LYS:HB3	8:AK:132:PRO:HA	1.46	0.94
55:DA:1771:C:HO2'	55:DA:1786:A:H8	1.15	0.94
50:CW:82:SER:O	50:CW:86:ARG:HB2	1.66	0.94
4:AE:37:ARG:HG3	4:AE:46:ALA:HB3	1.47	0.94
5:DF:46:ARG:HH11	5:DF:46:ARG:HG2	1.32	0.94
55:DA:1085:A:H2'	55:DA:1086:A:N7	1.82	0.94
58:DL:73:PRO:HB3	58:DL:77:LEU:CD1	1.97	0.94
26:D4:70:GLY:O	26:D4:71:ARG:HB2	1.65	0.94
55:DA:2469:A:H2	55:DA:2481:G:H21	0.97	0.94
57:DY:127:GLU:O	57:DY:128:LEU:HD23	1.65	0.94
57:DY:19:ARG:C	57:DY:21:GLN:H	1.71	0.94
57:DY:55:LYS:HD2	57:DY:79:ALA:HA	1.49	0.94
30:A8:50:LEU:HG	30:A8:51:ALA:H	1.30	0.94
54:CA:1502:A:H2	54:CA:1505:G:H1	1.03	0.94
9:DM:137:LYS:HG3	9:DM:138:LEU:H	1.32	0.94
1:AA:2898:U:H2'	1:AA:2899:G:H8	1.32	0.94
55:DA:1058:U:H2'	55:DA:1059:G:N7	1.83	0.93
55:DA:1179:C:C2'	55:DA:1180:C:H5''	1.97	0.93
8:DK:38:LEU:H	8:DK:38:LEU:HD12	1.30	0.93
1:AA:1569:A:O2'	3:AD:38:LYS:HE2	1.68	0.93
56:DI:29:GLU:HA	56:DJ:2:ALA:CB	1.98	0.93
21:DV:150:LEU:CD2	21:DV:151:HIS:N	2.30	0.93
55:DA:1925:C:N4	55:DA:1926:U:N1	2.16	0.93
42:CO:18:VAL:HG23	42:CO:19:ARG:H	1.30	0.93
1:AA:2873:A:H8	13:A0:6:SER:H	1.08	0.93
58:DL:126:MET:HE3	58:DL:126:MET:H	1.34	0.93
55:DA:1359:A:H3'	55:DA:1359:A:H8	1.19	0.93
1:AA:914:C:H2'	1:AA:915:C:H5'	1.49	0.93
28:D6:22:ALA:HB2	28:D6:42:TRP:HZ2	1.33	0.93
34:BG:12:CYS:CB	34:BG:21:LEU:HD22	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:76:CYS:SG	20:AU:77:PRO:HD2	2.08	0.93
20:AU:94:LYS:HD2	20:AU:101:LYS:HZ3	1.31	0.93
58:DL:107:ILE:HG23	58:DL:108:ALA:N	1.81	0.93
57:DY:93:LEU:HA	57:DY:96:PHE:O	1.67	0.93
2:AB:81:G:N7	2:AB:96:G:C2	2.37	0.93
34:CG:114:ARG:HH11	34:CG:114:ARG:HG3	1.31	0.93
16:D1:34:LYS:HA	16:D1:34:LYS:HE2	1.50	0.93
58:DL:89:HIS:O	58:DL:90:LYS:HB2	1.67	0.93
57:DY:75:GLN:NE2	57:DY:76:GLY:H	1.66	0.93
21:DV:190:GLU:C	21:DV:191:VAL:HG23	1.89	0.93
54:CA:612:C:O2	54:CA:629:G:N2	2.02	0.93
54:CA:628:G:N2	54:CA:629:G:N3	2.17	0.93
1:AA:1019:U:H3	1:AA:1142(A):A:N6	1.64	0.93
32:CE:122:PHE:HD1	32:CE:139:LYS:HZ1	1.17	0.93
57:DY:29:TYR:HE2	57:DY:32:LEU:CD1	1.79	0.93
23:AZ:7:ILE:HG23	23:AZ:95:LEU:HD11	1.50	0.93
5:DF:136:THR:HG22	5:DF:166:ALA:O	1.69	0.93
9:AM:91:LEU:HA	9:AM:95:PRO:HB3	1.50	0.93
4:AE:8:LYS:HE3	4:AE:188:VAL:HG13	1.46	0.93
58:DL:144:VAL:HG13	58:DL:145:LYS:H	1.34	0.93
57:DY:142:LEU:HD13	57:DY:143:GLN:N	1.82	0.93
54:CA:1449:C:C2'	54:CA:1450:U:H5''	1.98	0.93
54:CA:1128:C:H5'	39:CL:16:ARG:HH22	1.31	0.93
55:DA:1689:A:H62	55:DA:1698:A:H2	1.02	0.93
15:DR:39:ARG:HG2	15:DR:40:THR:H	1.33	0.93
37:CJ:113:GLU:HB2	37:CJ:119:ARG:HG2	1.50	0.93
56:DI:23:LEU:C	56:DI:24:ILE:HG22	1.89	0.93
56:DJ:5:ILE:HG22	56:DJ:9:LYS:HB2	1.51	0.93
58:DL:8:VAL:O	58:DL:57:ILE:HG12	1.66	0.93
31:BA:1305:G:HO2'	31:BA:1306:A:H8	1.08	0.93
1:AA:1372:U:C6	1:AA:1372:U:C4'	2.49	0.93
3:AD:35:LYS:HZ1	3:AD:104:TYR:HB2	1.30	0.93
55:DA:1925:C:N4	55:DA:1926:U:C6	2.37	0.93
31:BA:134:A:H61	46:BS:25:ARG:NH1	1.66	0.93
56:DI:23:LEU:O	56:DI:24:ILE:HG22	1.69	0.93
57:DY:23:SER:HB3	57:DY:68:LEU:HB2	1.46	0.93
49:CV:10:PHE:N	49:CV:10:PHE:CD1	2.32	0.93
40:BM:79:ARG:H	40:BM:79:ARG:HD3	1.34	0.93
50:CW:26:ASN:HB2	50:CW:71:THR:HG23	1.49	0.93
42:BO:47:LYS:HB3	42:BO:48:PRO:HD2	1.51	0.93
38:BK:42:GLU:HG3	38:BK:109:ILE:HD12	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:175:VAL:O	21:AV:177:PRO:HD2	1.69	0.92
49:BV:41:VAL:H	49:BV:44:MET:HE3	1.33	0.92
49:CV:10:PHE:H	49:CV:10:PHE:HD1	1.14	0.92
11:DO:83:VAL:HG11	11:DO:112:LEU:HD21	1.51	0.92
31:BA:168:G:C2'	31:BA:169:C:H5''	2.00	0.92
43:CP:10:PRO:HB2	43:CP:18:ALA:HB1	1.51	0.92
5:AF:3:GLU:HA	5:AF:24:LEU:HG	1.48	0.92
37:BJ:113:GLU:HB2	37:BJ:119:ARG:HG2	1.50	0.92
15:DR:24:PRO:HA	15:DR:49:VAL:HG13	1.49	0.92
55:DA:1078:U:H1'	55:DA:1088:A:H2	1.33	0.92
57:DY:130:THR:HG22	56:DJ:14:GLN:HE22	1.32	0.92
55:DA:1434:A:H61	55:DA:1558:A:N6	1.67	0.92
5:AF:178:PRO:HB2	5:AF:201:VAL:HG11	1.51	0.92
57:DY:93:LEU:HD22	57:DY:97:ALA:CB	1.99	0.92
31:BA:792:A:C1'	31:BA:794:A:H62	1.83	0.92
35:CH:40:ARG:HB3	35:CH:40:ARG:NH1	1.84	0.92
54:CA:1348:U:H3	54:CA:1374:A:H2	1.15	0.92
58:DL:7:VAL:HG11	58:DL:57:ILE:C	1.89	0.92
31:BA:409:G:OP1	34:BG:24:GLU:HG3	1.68	0.92
37:CJ:15:ASP:H	37:CJ:20:ASP:H	1.17	0.92
1:AA:1454:U:H4'	1:AA:1455:G:OP1	1.68	0.92
54:CA:1003:G:C2'	54:CA:1004:A:H5'	1.98	0.92
7:DH:153:LYS:HB3	7:DH:154:PRO:CD	1.97	0.92
6:DG:47:LYS:HD3	6:DG:81:LYS:HB2	1.50	0.92
15:AR:132:LYS:HG2	15:AR:136:GLN:HE22	1.35	0.92
12:DP:66:ILE:HA	12:DP:104:PHE:HA	1.51	0.92
38:CK:102:ARG:HH11	38:CK:105:ARG:HH22	0.97	0.92
57:DY:62:ALA:O	57:DY:63:LEU:HD23	1.69	0.92
6:AG:67:LYS:HG3	26:A4:6:HIS:HB3	1.50	0.92
54:CA:973:G:H1'	40:CM:55:LYS:HE2	1.51	0.92
55:DA:1236:G:H4'	55:DA:1237:A:OP1	1.70	0.92
55:DA:1175:U:O2'	55:DA:1176:G:H4'	1.69	0.92
54:CA:690:G:H22	41:CN:55:LYS:NZ	1.67	0.92
23:AZ:51:VAL:HG11	23:AZ:74:VAL:HG21	1.49	0.92
8:AK:79:ILE:CB	8:AK:142:VAL:HG11	2.00	0.92
40:CM:24:VAL:HG22	40:CM:72:VAL:HG11	1.51	0.92
1:AA:1236:G:H4'	1:AA:1237:A:OP1	1.67	0.92
41:CN:127:LYS:HE2	41:CN:127:LYS:HA	1.50	0.92
57:DY:89:ALA:CB	56:DJ:15:ALA:CB	2.34	0.92
21:DV:189:ALA:HA	21:DV:190:GLU:CG	2.00	0.92
31:BA:991:U:H3	31:BA:1213:A:H62	1.17	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DE:50:GLY:HA2	4:DE:77:ILE:HA	1.51	0.92
34:BG:25:ARG:HB3	34:BG:25:ARG:NH1	1.85	0.92
4:DE:14:ILE:HG23	4:DE:15:PHE:N	1.82	0.92
8:DK:77:LEU:HD11	8:DK:140:LEU:CB	2.00	0.92
1:AA:2732:G:H3'	1:AA:2733:A:H5'	1.51	0.92
48:BU:22:VAL:O	48:BU:23:LYS:HG3	1.69	0.92
31:BA:579:G:H5'	31:BA:728:A:H1'	1.50	0.92
55:DA:2458:G:H2'	55:DA:2490:G:O6	1.69	0.92
57:DY:15:GLU:O	57:DY:15:GLU:HG3	1.66	0.92
21:DV:184:ALA:O	21:DV:185:GLU:HB2	1.70	0.92
31:BA:406:G:H21	34:BG:119:GLN:HE22	1.12	0.92
31:BA:827:U:H3	31:BA:872:A:N6	1.68	0.92
39:BL:95:LYS:HD3	39:BL:96:LEU:N	1.84	0.92
57:DY:130:THR:CG2	56:DJ:14:GLN:NE2	2.30	0.92
57:DY:27:VAL:CB	57:DY:111:LEU:H	1.81	0.92
57:DY:32:LEU:CB	57:DY:33:PRO:CD	2.48	0.92
15:AR:24:PRO:HA	15:AR:49:VAL:HG13	1.52	0.92
9:AM:39:ARG:NH2	9:AM:41:ASP:HB2	1.85	0.92
21:AV:67:LEU:HD23	21:AV:68:PRO:HD2	1.49	0.92
54:CA:820:U:H4'	54:CA:821:G:OP2	1.69	0.92
57:DY:26:LEU:H	57:DY:82:PHE:HE2	1.14	0.91
44:BQ:12:ARG:HG2	44:BQ:14:PRO:HD3	1.49	0.91
8:DK:115:ALA:CB	8:DK:128:LEU:HD11	1.99	0.91
31:BA:1003:G:C2'	31:BA:1004:A:H5''	1.99	0.91
55:DA:1826:G:H4'	3:DD:242:ARG:HH21	1.34	0.91
1:AA:1056:G:H4'	1:AA:1086:A:H1'	1.52	0.91
58:DL:132:ARG:CG	58:DL:137:GLU:OE2	2.17	0.91
57:DY:91:LYS:NZ	57:DY:95:GLN:NE2	2.18	0.91
21:AV:110:GLY:N	21:AV:143:GLY:HA2	1.84	0.91
55:DA:631:A:OP1	11:DO:64:LYS:HE2	1.70	0.91
5:AF:155:LEU:HD23	5:AF:186:ILE:HD13	1.50	0.91
1:AA:71:A:H4'	1:AA:72:U:O5'	1.69	0.91
23:AZ:44:PRO:HG2	23:AZ:46:LEU:HD13	1.51	0.91
53:C1:32:A:H2'	53:C1:33:G:O4'	1.68	0.91
20:AU:89:PHE:HD1	20:AU:90:LEU:HD23	1.34	0.91
58:DL:18:THR:CG2	58:DL:38:VAL:HG12	1.98	0.91
57:DY:32:LEU:HB2	57:DY:33:PRO:HD2	1.50	0.91
2:DB:75:G:H5'	2:DB:75:G:H8	1.35	0.91
11:DO:85:LEU:HA	11:DO:88:LEU:HD22	1.52	0.91
55:DA:2394:C:OP1	11:DO:63:PRO:HD2	1.70	0.91
57:DY:127:GLU:CG	57:DY:128:LEU:H	1.81	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:532:A:H2	54:CA:1206:G:H21	1.16	0.91
17:A2:14:VAL:HB	17:A2:96:ILE:HG13	1.51	0.91
58:DL:107:ILE:CG2	58:DL:108:ALA:N	2.28	0.91
58:DL:19:PRO:CA	58:DL:25:PRO:HG2	1.98	0.91
57:DY:134:LEU:HA	57:DY:137:GLU:HG2	1.50	0.91
21:DV:191:VAL:HG21	21:DV:197:ILE:HG12	1.51	0.91
4:DE:6:GLY:HA3	4:DE:26:ILE:HD11	1.52	0.91
4:DE:7:VAL:HG23	4:DE:8:LYS:H	1.34	0.91
21:DV:150:LEU:HD21	21:DV:154:ASP:HB2	1.52	0.91
16:D1:92:ARG:O	16:D1:94:ASN:N	2.04	0.91
55:DA:1026:U:O2'	55:DA:1027:A:H5''	1.70	0.91
23:AZ:82:LEU:HG	23:AZ:83:GLU:H	1.35	0.91
57:DY:71:LEU:HD22	57:DY:72:ASP:N	1.86	0.91
49:CV:41:VAL:HG13	49:CV:44:MET:HB2	1.52	0.91
54:CA:963:G:H21	40:CM:55:LYS:HD3	1.36	0.91
1:AA:848:G:H2'	1:AA:849:A:C8	2.06	0.91
39:BL:26:VAL:HG22	39:BL:61:ALA:HB3	1.52	0.91
28:A6:41:PRO:CG	28:A6:45:LYS:C	2.38	0.91
1:AA:2420:C:H41	30:A8:31:HIS:HB3	1.33	0.91
30:A8:40:GLU:HA	30:A8:43:GLN:HB2	1.51	0.91
26:A4:1:MET:SD	26:A4:1:MET:N	2.42	0.91
16:D1:64:ARG:HG2	16:D1:64:ARG:HH21	1.36	0.91
31:BA:279:A:H4'	31:BA:280:C:C5'	1.99	0.91
55:DA:1022:G:H22	55:DA:1142(A):A:H2	1.18	0.91
4:DE:14:ILE:O	4:DE:15:PHE:CD2	2.22	0.91
55:DA:860:U:H5	55:DA:917:A:N1	1.68	0.91
42:BO:8:ASN:HD22	47:BT:34:LYS:HE2	1.34	0.91
29:A7:24:THR:HG23	29:A7:27:GLY:H	1.35	0.91
8:DK:74:ASN:ND2	8:DK:75:LEU:H	1.69	0.91
58:DL:95:LYS:N	58:DL:136:VAL:HG11	1.85	0.91
57:DY:13:LEU:CD2	57:DY:62:ALA:HB1	1.98	0.91
55:DA:894:C:H2'	55:DA:895:U:C6	2.05	0.91
15:DR:27:THR:HG23	15:DR:90:GLN:HB3	1.51	0.91
1:AA:2755:C:H4'	1:AA:2756:U:H5	1.33	0.91
21:AV:131:ARG:HG2	21:AV:131:ARG:NH1	1.74	0.91
11:DO:75:ILE:H	11:DO:75:ILE:CD1	1.84	0.91
34:BG:100:ARG:HH12	34:BG:137:SER:HB3	1.36	0.91
54:CA:1067:A:HO2'	54:CA:1068:G:H8	1.12	0.91
14:DQ:71:ARG:HG2	14:DQ:104:GLY:HA2	1.48	0.91
1:AA:900:A:H3'	1:AA:901:A:H8	1.34	0.91
58:DL:19:PRO:C	58:DL:25:PRO:CD	2.38	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:25:PHE:CE1	57:DY:82:PHE:HB3	2.01	0.91
21:AV:175:VAL:HG13	21:AV:176:PRO:N	1.81	0.91
1:AA:1924:C:N3	1:AA:1925:C:C6	2.39	0.91
52:CD:9:A:H62	52:CD:23:A:H62	1.18	0.91
20:AU:81:LYS:HD3	20:AU:97:ARG:NE	1.86	0.91
1:AA:1267:U:C5	1:AA:2012:G:C2	2.58	0.91
55:DA:2469:A:H2	55:DA:2481:G:N2	1.68	0.91
31:BA:351:G:H4'	31:BA:352:C:OP1	1.70	0.91
35:BH:48:ALA:HB1	35:BH:49:PRO:HD2	1.50	0.91
55:DA:1725:G:H8	55:DA:1725:G:H5'	1.35	0.91
55:DA:2580:U:H4'	4:DE:130:GLY:HA3	1.53	0.91
55:DA:2734:A:H5'	55:DA:2735:G:OP2	1.69	0.91
31:BA:255:G:H1'	47:BT:16:GLN:NE2	1.85	0.91
58:DL:12:LEU:HB3	58:DL:13:PRO:CA	2.01	0.91
58:DL:8:VAL:C	58:DL:57:ILE:HG13	1.90	0.91
57:DY:75:GLN:CB	57:DY:110:GLY:O	2.18	0.91
57:DY:43:ALA:CB	57:DY:47:ASN:ND2	2.11	0.91
43:CP:120:LYS:HD3	43:CP:120:LYS:N	1.84	0.91
55:DA:1372:U:H6	55:DA:1372:U:H5'	1.12	0.91
40:CM:38:ILE:HD11	40:CM:71:LEU:HD23	1.51	0.91
32:CE:204:ASN:ND2	32:CE:206:ASP:H	1.69	0.91
40:BM:10:GLY:HA3	40:BM:16:LEU:HD21	1.51	0.91
52:BD:41:C:H2'	52:BD:42:C:H5''	1.50	0.91
9:AM:15:LEU:HG	9:AM:134:ARG:HE	1.33	0.91
49:CV:15:LEU:H	49:CV:15:LEU:HD23	1.36	0.91
10:AN:104:ARG:HB3	10:AN:104:ARG:NH1	1.86	0.91
56:DJ:12:LEU:HB3	56:DJ:13:SER:HB2	1.43	0.90
58:DL:106:GLU:HG2	58:DL:109:LYS:HB2	1.53	0.90
57:DY:70:GLU:C	57:DY:71:LEU:HD12	1.90	0.90
21:AV:183:LEU:HD23	21:AV:183:LEU:H	1.33	0.90
43:BP:80:ARG:O	43:BP:83:ASP:CB	2.17	0.90
55:DA:259:G:H21	55:DA:621:A:H8	1.19	0.90
1:AA:2898:U:H2'	1:AA:2899:G:C8	2.06	0.90
1:AA:1086:A:H4'	1:AA:1103:A:H61	1.35	0.90
6:DG:37:VAL:HG22	6:DG:159:VAL:HA	1.53	0.90
10:AN:47:ILE:HG13	10:AN:48:PRO:HD2	1.51	0.90
17:A2:48:GLY:HA3	17:A2:52:VAL:HG22	1.52	0.90
11:DO:62:LEU:HD21	30:D8:25:MET:HB2	1.52	0.90
1:AA:925:C:C2'	1:AA:926:A:H5''	1.99	0.90
18:AS:59:VAL:HG23	18:AS:65:LEU:H	1.37	0.90
26:A4:52:THR:HG21	43:BP:65:LYS:HD3	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D3:51:VAL:HG23	22:D3:81:VAL:HG23	1.53	0.90
11:AO:146:VAL:HG22	11:AO:147:LEU:H	1.36	0.90
55:DA:1033:U:H4'	55:DA:1034:G:OP1	1.70	0.90
55:DA:1061:U:C5	58:DL:54:PRO:HB3	2.07	0.90
57:DY:62:ALA:C	57:DY:63:LEU:HD23	1.91	0.90
6:DG:7:LEU:HD21	6:DG:176:LEU:HD22	1.52	0.90
55:DA:1803:A:O2'	3:DD:259:THR:HG21	1.71	0.90
7:DH:13:LYS:HA	7:DH:13:LYS:HE2	1.51	0.90
56:DI:20:LEU:CA	56:DI:24:ILE:HG21	2.02	0.90
55:DA:1075:C:H4'	21:DV:195:GLU:HG2	0.92	0.90
21:DV:105:VAL:CG1	21:DV:140:ASP:HB3	2.02	0.90
19:AT:18:TYR:HA	19:AT:21:PHE:CD2	2.07	0.90
1:AA:2580:U:H4'	4:AE:130:GLY:HA2	1.51	0.90
57:DY:50:ARG:C	57:DY:83:TYR:HA	1.90	0.90
21:DV:189:ALA:CA	21:DV:190:GLU:CG	2.48	0.90
1:AA:2753:A:C2'	1:AA:2754:U:H5''	2.01	0.90
30:D8:29:LYS:HB2	30:D8:44:LYS:HG2	1.54	0.90
1:AA:1281:G:H8	1:AA:1281:G:H5'	1.36	0.90
54:CA:96:G:H2'	54:CA:97:U:H5'	1.53	0.90
56:DI:21:LYS:O	56:DI:26:ALA:HB2	1.72	0.90
57:DY:138:LEU:HD21	56:DJ:22:GLN:OE1	1.71	0.90
55:DA:1056:G:OP1	57:DY:35:LYS:HD3	1.72	0.90
3:AD:43:ARG:HH11	3:AD:44:ASN:HD22	1.17	0.90
28:D6:27:LYS:HZ2	28:D6:27:LYS:HB2	1.35	0.90
15:DR:102:ILE:HB	15:DR:110:ILE:HD13	1.50	0.90
12:AP:31:ASP:H	12:AP:107:ALA:HB2	1.35	0.90
17:D2:89:GLN:HA	17:D2:89:GLN:HE21	1.37	0.90
31:BA:939:G:H5''	37:BJ:102:ARG:NH2	1.85	0.90
31:BA:6:G:H4'	31:BA:298:A:H4'	1.52	0.90
21:AV:175:VAL:HG13	21:AV:176:PRO:HD2	0.90	0.90
34:CG:187:ARG:NH2	34:CG:190:ASP:HB2	1.86	0.90
8:DK:87:LYS:HA	8:DK:122:GLU:HA	1.52	0.90
40:BM:48:THR:HA	40:BM:62:HIS:HB3	1.54	0.90
58:DL:112:MET:HE1	58:DL:123:ALA:HB3	1.53	0.90
24:DW:42:GLY:O	24:DW:44:LEU:N	2.05	0.90
34:CG:196:LEU:HD12	34:CG:196:LEU:H	1.36	0.90
31:BA:1053:G:H5'	31:BA:1054:C:H5'	1.51	0.90
8:AK:88:ILE:HG22	8:AK:89:TYR:H	1.36	0.90
55:DA:1024:G:H3'	55:DA:1025:G:H5''	1.54	0.90
6:DG:67:LYS:HG2	26:D4:5:ILE:HG22	1.51	0.90
24:AW:22:GLU:O	24:AW:26:ARG:HG3	1.72	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BV:49:ILE:HD12	49:BV:49:ILE:H	1.34	0.90
44:CQ:12:ARG:C	44:CQ:14:PRO:HD2	1.92	0.90
57:DY:87:VAL:O	57:DY:91:LYS:HB2	1.71	0.90
52:CC:44:G:H3'	52:CC:45:U:C6	2.07	0.90
31:BA:1014:A:H2	31:BA:1219:U:H1'	1.37	0.90
28:D6:41:PRO:HD2	28:D6:46:HIS:N	1.87	0.90
50:CW:89:ARG:HH21	50:CW:104:LEU:HD21	1.35	0.90
12:DP:65:PHE:O	12:DP:66:ILE:HG12	1.72	0.90
42:BO:60:LEU:HB2	42:BO:64:TYR:HB2	1.54	0.90
43:CP:90:LEU:HD22	49:CV:78:ARG:HH21	1.31	0.90
55:DA:297:C:H5''	20:DU:85:VAL:HG21	1.51	0.90
58:DL:87:GLY:CA	58:DL:96:VAL:HG21	2.02	0.89
57:DY:46:GLN:O	57:DY:47:ASN:HB2	1.70	0.89
43:BP:10:PRO:CB	43:BP:18:ALA:HB1	2.01	0.89
30:A8:49:VAL:CG1	30:A8:50:LEU:H	1.82	0.89
6:DG:56:ALA:CB	6:DG:153:ARG:HE	1.84	0.89
31:BA:954:G:H21	31:BA:1227:A:H62	1.16	0.89
17:D2:35:LEU:H	17:D2:35:LEU:HD22	1.35	0.89
5:DF:9:ILE:HD11	5:DF:125:LEU:HG	1.52	0.89
21:DV:73:GLN:HB3	21:DV:87:ASP:OD1	1.71	0.89
56:DJ:15:ALA:C	56:DJ:16:THR:HG23	1.86	0.89
57:DY:16:ASN:HB2	57:DY:19:ARG:HH12	0.73	0.89
12:AP:16:ARG:HG3	12:AP:17:LEU:H	1.37	0.89
3:DD:35:LYS:HG2	3:DD:64:ILE:H	1.36	0.89
49:BV:5:LEU:HG	49:BV:9:VAL:HA	1.53	0.89
54:CA:1124:G:H3'	54:CA:1145:C:N4	1.88	0.89
54:CA:1534:A:C2	54:CA:1535:C:N4	2.39	0.89
43:CP:39:ILE:HD12	43:CP:56:LEU:HD23	1.52	0.89
3:DD:58:HIS:HD2	3:DD:59:LYS:O	1.55	0.89
1:AA:1332:G:N2	1:AA:1609:A:H2'	1.87	0.89
31:BA:192:U:H4'	50:BW:102:GLY:O	1.73	0.89
55:DA:776:G:H4'	55:DA:777:A:O5'	1.72	0.89
12:AP:42:ILE:HD12	12:AP:42:ILE:H	1.36	0.89
55:DA:897:C:C5	55:DA:897:C:P	2.64	0.89
21:AV:61:LEU:HB3	21:AV:62:PRO:HD2	1.53	0.89
20:AU:84:ARG:NH2	20:AU:97:ARG:HB2	1.87	0.89
17:D2:38:LEU:HD12	17:D2:56:SER:HA	1.54	0.89
1:AA:1698:A:O2'	1:AA:1699:G:H5''	1.71	0.89
19:DT:65:ARG:HD3	19:DT:65:ARG:N	1.88	0.89
58:DL:20:ALA:O	58:DL:25:PRO:O	1.90	0.89
57:DY:122:VAL:HG12	57:DY:126:ALA:CB	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:51:LEU:HD13	57:DY:82:PHE:H	1.07	0.89
1:AA:1372:U:H5'	1:AA:1372:U:H6	1.37	0.89
2:AB:39:A:H2'	26:A4:1:MET:HE3	1.54	0.89
17:A2:49:THR:HB	17:A2:50:PRO:HD3	1.54	0.89
32:CE:80:ILE:HD11	32:CE:208:ILE:HG23	1.54	0.89
31:BA:1351:U:H4'	37:BJ:33:ASP:OD2	1.73	0.89
26:D4:46:GLN:HG3	26:D4:48:ARG:HG2	1.54	0.89
18:DS:64:MET:O	18:DS:65:LEU:HB2	1.73	0.89
29:D7:8:ASN:C	29:D7:8:ASN:HD22	1.76	0.89
36:BI:6:VAL:HG12	36:BI:8:ILE:HD11	1.52	0.89
21:DV:67:LEU:HD23	21:DV:68:PRO:HD2	1.52	0.89
15:AR:115:ARG:H	15:AR:115:ARG:HD3	1.35	0.89
32:CE:185:ILE:HG22	32:CE:199:TYR:HB2	1.55	0.89
14:DQ:26:LEU:HB3	14:DQ:87:PHE:HA	1.54	0.89
53:B1:36:G:C2'	53:B1:37:G:H5''	2.02	0.89
1:AA:2580:U:H4'	4:AE:130:GLY:CA	2.03	0.89
49:BV:42:PRO:O	49:BV:44:MET:N	2.06	0.89
28:A6:41:PRO:HG2	28:A6:45:LYS:C	1.93	0.89
55:DA:1482:U:H5'	55:DA:1483:G:OP2	1.73	0.89
31:BA:517:G:O2'	31:BA:518:C:OP2	1.91	0.89
18:AS:110:LYS:HG3	18:AS:111:HIS:ND1	1.87	0.89
31:BA:1244:C:H2'	31:BA:1245:A:C8	2.08	0.89
55:DA:1964:G:H4'	55:DA:1965:C:OP2	1.73	0.89
58:DL:101:TRP:HD1	58:DL:101:TRP:H	1.17	0.89
57:DY:129:PRO:HD2	57:DY:130:THR:H	1.34	0.89
57:DY:26:LEU:HA	57:DY:112:LEU:CA	2.00	0.89
57:DY:25:PHE:CG	57:DY:82:PHE:CE1	2.60	0.89
49:BV:42:PRO:C	49:BV:45:VAL:HG22	1.94	0.89
1:AA:946:G:H2'	1:AA:947:G:H8	1.37	0.89
28:D6:9:LEU:HD13	28:D6:11:LEU:HD21	1.55	0.89
28:D6:22:ALA:HB2	28:D6:42:TRP:CZ2	2.08	0.89
32:BE:44:LEU:HD12	32:BE:45:GLN:H	1.34	0.89
1:AA:90:U:O2'	1:AA:91:A:H5''	1.72	0.89
48:CU:18:ARG:CD	48:CU:18:ARG:N	2.30	0.89
31:BA:1106:G:H5''	33:BF:172:ARG:HG2	1.55	0.89
1:AA:571:A:H1'	1:AA:573:G:C8	2.07	0.89
54:CA:982:U:H4'	54:CA:983:A:O5'	1.71	0.89
55:DA:1249:U:H2'	55:DA:1249:U:O2	1.70	0.89
56:DJ:13:SER:HB3	56:DJ:17:VAL:CB	2.02	0.89
57:DY:23:SER:HB2	57:DY:68:LEU:HB2	1.53	0.89
57:DY:26:LEU:N	57:DY:82:PHE:CE2	2.40	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:43:ARG:NH1	3:AD:44:ASN:ND2	2.20	0.89
40:BM:4:ILE:HD13	40:BM:82:ILE:HD11	1.55	0.89
14:DQ:106:ARG:HA	14:DQ:110:LEU:HD21	1.54	0.89
40:BM:96:ILE:H	40:BM:96:ILE:HD13	1.38	0.89
1:AA:479:A:O2'	1:AA:481:G:H5''	1.72	0.89
55:DA:1906:G:C5	55:DA:1929:G:N2	2.41	0.89
42:BO:64:TYR:O	42:BO:65:GLU:HB2	1.72	0.89
52:BB:7:A:H5'	52:BB:8:U:OP2	1.71	0.89
57:DY:90:ALA:H	56:DJ:15:ALA:CB	1.86	0.89
58:DL:59:ILE:HG22	58:DL:60:TYR:N	1.86	0.89
58:DL:83:GLY:H	58:DL:99:ILE:HG23	1.37	0.89
57:DY:123:GLU:O	57:DY:127:GLU:HB3	1.72	0.89
27:D5:56:LYS:H	27:D5:56:LYS:HD2	1.36	0.89
16:A1:92:ARG:HG3	16:A1:94:ASN:HB3	1.53	0.89
55:DA:1884:A:H2'	55:DA:1885:A:H5''	1.54	0.89
34:CG:47:ARG:NH2	53:C1:57:U:H5	1.70	0.89
37:BJ:97:GLN:HE21	37:BJ:101:LEU:HD11	1.38	0.89
22:D3:11:ARG:HB2	22:D3:11:ARG:NH1	1.88	0.89
1:AA:2820:A:C5	4:AE:191:PRO:CB	2.56	0.88
1:AA:896:A:C2	21:AV:178:GLU:HG2	2.08	0.88
1:AA:1372:U:C5'	1:AA:1372:U:H6	1.86	0.88
57:DY:141:VAL:HG22	57:DY:142:LEU:N	1.87	0.88
14:DQ:83:LYS:C	14:DQ:109:GLY:HA3	1.93	0.88
7:DH:89:ILE:CD1	7:DH:129:THR:HB	2.02	0.88
35:CH:148:VAL:HG21	38:CK:107:LEU:HD22	1.54	0.88
9:AM:15:LEU:HB2	9:AM:134:ARG:HG2	1.53	0.88
24:DW:47:ASN:O	24:DW:49:LYS:N	2.06	0.88
31:BA:191(C):G:H3'	31:BA:191(D):U:H5''	1.55	0.88
4:AE:36:ARG:NH2	4:AE:88:GLY:HA3	1.86	0.88
58:DL:83:GLY:O	58:DL:97:GLY:HA3	1.73	0.88
57:DY:25:PHE:HD1	57:DY:82:PHE:CD2	1.84	0.88
57:DY:25:PHE:CB	57:DY:82:PHE:CE1	2.57	0.88
43:BP:22:ILE:HB	43:BP:25:ILE:CG1	2.01	0.88
20:AU:20:TYR:C	20:AU:22:GLY:H	1.76	0.88
2:AB:74:U:C2'	2:AB:75:G:H5''	2.03	0.88
21:AV:120:ILE:HG21	21:AV:170:THR:HB	1.55	0.88
6:DG:16:ARG:HG2	6:DG:16:ARG:HH11	1.37	0.88
4:AE:8:LYS:O	4:AE:9:VAL:HG22	1.72	0.88
55:DA:1103:A:H2'	55:DA:1104:C:H5'	1.56	0.88
57:DY:25:PHE:CG	57:DY:82:PHE:CD1	2.61	0.88
21:AV:144:LEU:HD12	21:AV:146:ILE:O	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:144:ALA:CB	57:DY:145:PRO:HD2	1.97	0.88
55:DA:2287:A:H2	55:DA:2346:A:N1	1.71	0.88
1:AA:611:C:H2'	1:AA:612:G:C5'	2.02	0.88
9:DM:67:LEU:O	9:DM:88:GLU:HG3	1.72	0.88
1:AA:1799:G:H4'	1:AA:1800:C:O5'	1.74	0.88
55:DA:860:U:H5	55:DA:917:A:C2	1.91	0.88
54:CA:1446:A:H1'	15:DR:125:ARG:HH22	1.36	0.88
1:AA:2296:U:H4'	1:AA:2297:C:OP1	1.73	0.88
39:BL:24:GLY:HA2	39:BL:59:PHE:O	1.73	0.88
7:DH:92:ILE:H	7:DH:92:ILE:HD12	1.38	0.88
58:DL:36:GLU:O	58:DL:39:LYS:HB2	1.72	0.88
32:CE:8:LYS:N	32:CE:8:LYS:HD3	1.89	0.88
20:DU:63:LYS:HZ2	20:DU:64:GLU:H	0.89	0.88
4:AE:58:ARG:CZ	4:AE:58:ARG:HA	2.03	0.88
16:D1:90:VAL:O	16:D1:92:ARG:N	2.05	0.88
5:AF:192:LEU:HD23	5:AF:193:VAL:N	1.87	0.88
4:AE:201:THR:HG22	4:AE:202:LYS:H	1.38	0.88
1:AA:1332:G:H22	1:AA:1609:A:H2'	1.38	0.88
33:CF:58:GLU:HB2	33:CF:65:ALA:HB3	1.56	0.88
41:CN:21:ILE:HB	41:CN:84:VAL:HG12	1.55	0.88
1:AA:458:G:O2'	1:AA:459:U:P	2.31	0.88
52:BB:74:C:O2'	52:BB:75:C:C5'	2.20	0.88
52:BD:23:A:H2'	52:BD:24:G:C8	2.09	0.88
31:BA:792:A:H2'	31:BA:794:A:H62	1.32	0.88
20:AU:84:ARG:HH21	20:AU:97:ARG:HB2	1.36	0.88
1:AA:2665:A:O2'	1:AA:2666:C:H5'	1.72	0.88
55:DA:2111:C:H41	55:DA:2147:G:N2	1.69	0.88
1:AA:1069:A:H4'	1:AA:1070:A:H5''	1.53	0.88
12:DP:2:LEU:HB3	12:DP:70:PRO:HG2	1.56	0.88
1:AA:2051:A:H61	1:AA:2614:A:H2'	1.37	0.88
55:DA:670:A:H4'	55:DA:671:C:O5'	1.71	0.88
57:DY:27:VAL:HG23	57:DY:110:GLY:CA	1.98	0.88
57:DY:13:LEU:HD22	57:DY:13:LEU:O	1.72	0.88
30:A8:49:VAL:CG1	30:A8:50:LEU:N	2.30	0.88
4:AE:52:LEU:HD12	4:AE:76:ARG:HB2	1.56	0.88
11:AO:85:LEU:HA	11:AO:88:LEU:HB3	1.53	0.88
35:CH:50:GLU:HG3	35:CH:52:PRO:HD2	1.56	0.88
55:DA:2475:C:H42	55:DA:2529:G:H1	1.21	0.88
54:CA:1321:C:C5'	54:CA:1322:C:H5''	2.03	0.88
3:DD:25:THR:CG2	3:DD:82:ILE:H	1.87	0.88
28:D6:12:GLU:HB3	28:D6:23:THR:HG22	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:42:C:O3'	6:DG:67:LYS:HE3	1.74	0.88
58:DL:18:THR:HG23	58:DL:42:ASN:HD21	1.37	0.88
57:DY:19:ARG:NH2	57:DY:84:GLU:CD	2.26	0.88
8:DK:131:LYS:HB3	8:DK:132:PRO:CA	2.03	0.88
1:AA:266:G:C2'	1:AA:267:C:H5''	2.02	0.88
43:CP:57:ARG:HB2	43:CP:57:ARG:HH11	1.37	0.88
7:DH:37:VAL:HG12	7:DH:38:SER:H	1.38	0.88
9:DM:89:LYS:O	9:DM:93:THR:HG22	1.74	0.88
31:BA:498:A:O2'	31:BA:500:G:C8	2.25	0.88
32:CE:69:LEU:HB3	32:CE:162:ILE:HG22	1.56	0.88
56:DJ:13:SER:C	56:DJ:17:VAL:HG21	1.93	0.88
58:DL:104:VAL:O	58:DL:107:ILE:CB	2.22	0.88
58:DL:104:VAL:O	58:DL:107:ILE:HG21	1.72	0.88
57:DY:72:ASP:C	57:DY:74:LEU:N	2.25	0.88
42:CO:47:LYS:C	42:CO:49:ASN:H	1.75	0.88
54:CA:630:G:C8	54:CA:630:G:C3'	2.57	0.88
34:BG:16:GLY:HA2	34:BG:33:MET:HE1	1.56	0.88
21:DV:128:VAL:CA	21:DV:161:VAL:HG21	2.02	0.88
1:AA:1209:G:H21	1:AA:1210:A:H62	1.22	0.88
55:DA:1291:C:H5'	55:DA:1536:A:H5'	1.54	0.88
3:AD:30:GLU:HG3	3:AD:63:ARG:NE	1.88	0.88
1:AA:620:G:H5'	1:AA:621:A:OP1	1.74	0.88
55:DA:2832:U:H4'	55:DA:2833:G:H5''	1.53	0.88
9:AM:62:VAL:HG22	9:AM:66:LYS:HG3	1.55	0.88
23:DZ:56:GLN:HE21	23:DZ:56:GLN:N	1.72	0.88
2:DB:56:G:H5'	6:DG:27:ASN:ND2	1.89	0.88
1:AA:271(B):G:H4'	1:AA:271(C):U:O5'	1.74	0.88
58:DL:104:VAL:HG12	58:DL:105:LEU:N	1.88	0.88
57:DY:50:ARG:O	57:DY:51:LEU:CG	2.22	0.88
21:AV:144:LEU:O	21:AV:144:LEU:HD12	1.74	0.88
55:DA:483:A:H4'	20:DU:49:VAL:CA	2.03	0.88
28:D6:15:GLU:HG2	28:D6:16:CYS:N	1.89	0.88
8:AK:129:THR:HG22	8:AK:137:PRO:HB3	1.54	0.88
55:DA:1653:G:O6	13:D0:9:LYS:O	1.91	0.88
31:BA:1067:A:H1'	31:BA:1068:G:O4'	1.74	0.88
11:DO:61:ARG:HH11	30:D8:14:VAL:HG23	1.37	0.87
16:D1:92:ARG:HD2	17:D2:11:GLN:NE2	1.89	0.87
3:DD:44:ASN:HB2	3:DD:49:ILE:HA	1.56	0.87
6:AG:115:ARG:HB3	43:BP:7:VAL:HG11	1.55	0.87
54:CA:1278:U:H5''	54:CA:1279:A:O4'	1.74	0.87
1:AA:1887:C:C2'	1:AA:1888:G:H5''	2.02	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BM:34:VAL:HG22	40:BM:74:ILE:HG22	1.55	0.87
4:DE:7:VAL:HG23	4:DE:8:LYS:N	1.88	0.87
55:DA:1379:A:O2'	55:DA:1380:G:P	2.31	0.87
21:DV:60:GLU:HG3	21:DV:61:LEU:H	1.38	0.87
9:DM:65:LYS:HB2	9:DM:69:GLN:HE21	1.38	0.87
36:BI:23:LYS:O	36:BI:27:GLN:HG3	1.75	0.87
55:DA:1062:G:H2'	55:DA:1063:G:C8	2.09	0.87
58:DL:100:THR:C	58:DL:102:GLU:H	1.77	0.87
52:CB:19:G:N2	52:CB:56:C:H42	1.72	0.87
20:DU:97:ARG:HD3	20:DU:97:ARG:H	1.36	0.87
41:CN:79:SER:HB2	41:CN:106:LYS:HD2	1.56	0.87
55:DA:1043:C:H2'	55:DA:1044:G:H5''	1.53	0.87
56:DI:16:THR:HG23	56:DI:17:VAL:N	1.87	0.87
58:DL:77:LEU:O	58:DL:107:ILE:HD11	1.74	0.87
57:DY:134:LEU:CD2	56:DJ:19:GLU:OE1	2.22	0.87
57:DY:19:ARG:C	57:DY:21:GLN:N	2.24	0.87
1:AA:1964:G:H4'	1:AA:1965:C:OP2	1.70	0.87
31:BA:1256:A:H5'	31:BA:1257:U:OP1	1.74	0.87
6:AG:115:ARG:HH12	43:BP:7:VAL:HG21	1.37	0.87
55:DA:2298:A:H62	55:DA:2318:G:H8	1.15	0.87
1:AA:322:A:H5''	5:AF:169:ASN:HD22	1.37	0.87
55:DA:1080:A:H1'	58:DL:126:MET:HA	1.56	0.87
57:DY:24:PHE:CE1	57:DY:88:ALA:HB2	2.09	0.87
11:DO:61:ARG:O	11:DO:62:LEU:HD22	1.73	0.87
55:DA:608:A:C4	55:DA:621:A:N6	2.42	0.87
2:DB:12:C:H4'	2:DB:13:A:OP1	1.73	0.87
1:AA:2468:G:H5'	12:AP:120:ILE:HD11	1.53	0.87
54:CA:1189:C:H5''	33:CF:5:ILE:HG21	1.53	0.87
55:DA:1060:U:H4'	55:DA:1061:U:O5'	1.74	0.87
58:DL:135:GLY:O	58:DL:136:VAL:CG1	2.23	0.87
55:DA:1359:A:C3'	55:DA:1359:A:H8	1.76	0.87
49:CV:39:THR:HG22	49:CV:40:ILE:H	1.40	0.87
55:DA:2414:G:H21	11:DO:67:MET:HE1	1.39	0.87
55:DA:1019:U:H3	55:DA:1142(A):A:N6	1.71	0.87
1:AA:848:G:H2'	1:AA:849:A:H8	1.36	0.87
31:BA:187:C:H2'	31:BA:188:U:O4'	1.73	0.87
10:DN:68:GLU:HB3	10:DN:78:ARG:NH1	1.90	0.87
19:DT:12:VAL:HG12	19:DT:27:THR:O	1.75	0.87
48:BU:84:LYS:HA	48:BU:84:LYS:HE2	1.57	0.87
55:DA:1405:U:H2'	55:DA:1406:U:H6	1.38	0.87
56:DI:25:ASP:O	56:DI:28:LYS:HB2	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DJ:10:GLU:C	56:DJ:17:VAL:HG12	1.94	0.87
13:D0:33:ARG:HD3	13:D0:113:LEU:HD11	1.53	0.87
50:CW:71:THR:HG22	50:CW:72:LEU:N	1.88	0.87
52:BD:15:G:N2	52:BD:48:C:H42	1.73	0.87
55:DA:1019:U:O2'	55:DA:1021:A:H2	1.57	0.87
38:CK:6:ILE:HB	38:CK:85:ARG:NH1	1.89	0.87
31:BA:974:A:H1'	44:BQ:31:ARG:HE	1.40	0.87
1:AA:289:A:H5'	1:AA:290:G:OP2	1.74	0.87
34:CG:153:ARG:HD3	34:CG:181:MET:SD	2.15	0.87
56:DI:24:ILE:CG1	56:DI:25:ASP:N	2.30	0.87
3:DD:35:LYS:HE3	3:DD:64:ILE:C	1.95	0.87
6:AG:82:LEU:HA	6:AG:86:MET:SD	2.15	0.87
55:DA:49:A:N7	55:DA:120:U:C5	2.41	0.87
21:AV:127:LYS:O	21:AV:162:GLU:HB2	1.74	0.87
33:BF:32:LEU:HB3	33:BF:59:ARG:HH12	1.40	0.87
57:DY:101:PRO:HG2	57:DY:102:LYS:H	1.37	0.87
21:DV:192:ALA:C	21:DV:194:PRO:HD3	1.94	0.87
2:AB:81:G:N2	2:AB:82:G:N7	2.23	0.87
31:BA:1280:A:H5'	31:BA:1281:U:OP2	1.74	0.87
55:DA:905:U:C2'	55:DA:906:G:H5''	2.05	0.87
25:AX:6:VAL:HG12	25:AX:54:VAL:HG11	1.57	0.87
54:CA:1067:A:O2'	54:CA:1068:G:H8	1.58	0.87
55:DA:2317:C:H2'	55:DA:2318:G:H5'	1.54	0.87
33:BF:35:GLU:HA	33:BF:38:ARG:NE	1.90	0.87
55:DA:1138:G:H21	9:DM:106:MET:HE3	1.40	0.87
50:CW:56:MET:HG2	50:CW:84:LEU:HD11	1.57	0.87
1:AA:662:G:H5'	11:AO:15:ARG:HA	1.57	0.87
52:CC:35:A:H2'	52:CC:36:A:H5''	1.57	0.87
4:AE:8:LYS:HG2	4:AE:192:ASN:HD22	1.38	0.86
28:A6:25:LYS:HZ2	28:A6:27:LYS:HD2	1.38	0.86
22:A3:31:VAL:HB	22:A3:35:ASN:HD22	1.38	0.86
6:AG:64:THR:HG23	6:AG:66:GLN:H	1.39	0.86
7:DH:98:LEU:HB2	7:DH:125:VAL:HG11	1.57	0.86
1:AA:654(R):C:H2'	1:AA:654(S):G:H8	1.39	0.86
55:DA:1187:G:H5''	17:D2:81:TYR:CE2	2.10	0.86
31:BA:673:G:H2'	31:BA:674:G:C8	2.10	0.86
55:DA:2729:G:H1'	4:DE:187:ALA:HB2	1.56	0.86
1:AA:1464:C:HO2'	1:AA:1528:A:H8	0.93	0.86
56:DJ:14:GLN:CA	56:DJ:15:ALA:C	2.42	0.86
57:DY:50:ARG:N	57:DY:83:TYR:HD1	1.73	0.86
3:DD:27:THR:HG21	3:DD:83:GLU:HB3	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:142:LEU:HD22	57:DY:143:GLN:N	1.89	0.86
55:DA:483:A:C4'	20:DU:49:VAL:HA	2.04	0.86
22:D3:32:ARG:H	22:D3:35:ASN:HD21	0.91	0.86
21:DV:60:GLU:O	21:DV:61:LEU:HD12	1.75	0.86
1:AA:2571:C:H5'	1:AA:2572:A:H5''	1.55	0.86
3:AD:30:GLU:HG3	3:AD:63:ARG:CZ	2.05	0.86
1:AA:1826:G:H4'	3:AD:242:ARG:HH21	1.39	0.86
38:CK:102:ARG:HH11	38:CK:105:ARG:NH2	1.73	0.86
54:CA:93:U:H2'	54:CA:95:G:H5''	1.56	0.86
54:CA:250:A:H4'	54:CA:251:G:O5'	1.76	0.86
41:BN:29:ILE:HB	41:BN:44:SER:HB3	1.55	0.86
58:DL:20:ALA:H	58:DL:25:PRO:CB	1.88	0.86
3:DD:35:LYS:HD3	3:DD:63:ARG:CB	2.05	0.86
26:D4:16:CYS:C	26:D4:18:CYS:H	1.78	0.86
5:AF:183:VAL:O	5:AF:187:VAL:HG23	1.75	0.86
2:DB:20:C:C2'	2:DB:21:G:H5''	2.05	0.86
8:DK:4:ILE:HG12	8:DK:18:VAL:HG22	1.55	0.86
1:AA:1784:A:H4'	1:AA:1785:A:O5'	1.74	0.86
40:BM:49:VAL:HG13	44:BQ:41:ARG:HB2	1.58	0.86
58:DL:59:ILE:C	58:DL:60:TYR:HD1	1.78	0.86
58:DL:52:ILE:HG13	58:DL:76:TYR:CB	2.05	0.86
55:DA:1359:A:H2'	55:DA:1360:A:H5'	1.57	0.86
31:BA:1004:A:O5'	31:BA:1025:U:O4	1.93	0.86
1:AA:2571:C:H5'	1:AA:2572:A:C5'	2.05	0.86
24:DW:47:ASN:HD22	24:DW:47:ASN:H	1.24	0.86
1:AA:2319:G:H4'	1:AA:2320:A:O5'	1.76	0.86
55:DA:1049:C:H2'	55:DA:1050:A:H5''	1.57	0.86
38:CK:12:ARG:HH12	38:CK:27:PRO:HD3	1.40	0.86
55:DA:1820:U:H4'	55:DA:1821:A:OP2	1.74	0.86
55:DA:704:G:H2'	55:DA:726:G:H22	1.40	0.86
8:AK:117:GLU:CD	8:AK:117:GLU:H	1.75	0.86
33:CF:181:ASN:ND2	33:CF:204:LEU:HD12	1.89	0.86
1:AA:468:G:N7	29:A7:39:ARG:NH2	2.24	0.86
20:DU:63:LYS:NZ	20:DU:64:GLU:H	1.73	0.86
55:DA:1177:A:H4'	55:DA:1178:C:H5''	1.55	0.86
28:D6:38:LYS:O	28:D6:38:LYS:HG3	1.75	0.86
2:DB:81:G:N2	2:DB:82:G:N7	2.24	0.86
3:AD:70:TRP:CZ3	3:AD:150:LYS:HA	2.10	0.86
10:AN:10:VAL:HG21	10:AN:16:ALA:O	1.76	0.86
2:AB:7:G:H3'	2:AB:8:U:H5''	1.56	0.86
21:DV:117:LEU:CD1	21:DV:118:GLN:H	1.85	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DG:56:ALA:HB2	6:DG:153:ARG:NE	1.91	0.86
1:AA:654(R):C:H2'	1:AA:654(S):G:C8	2.11	0.86
1:AA:1935:G:H3'	1:AA:1962:C:H42	1.39	0.86
58:DL:18:THR:HG21	58:DL:38:VAL:CG1	2.05	0.86
58:DL:87:GLY:HA2	58:DL:96:VAL:CG2	2.05	0.86
1:AA:612:G:H5'	1:AA:612:G:H8	1.39	0.86
1:AA:2602:A:N6	52:BB:76:A:H5'	1.90	0.86
1:AA:310:A:OP1	20:AU:18:GLY:HA2	1.76	0.86
15:DR:102:ILE:HB	15:DR:110:ILE:CD1	2.05	0.86
52:BD:41:C:C2'	52:BD:42:C:H5''	2.05	0.86
55:DA:1652:A:O2'	55:DA:1653:G:H5'	1.76	0.86
55:DA:1507:A:H3'	55:DA:1508:A:H5''	1.56	0.86
25:DX:43:ILE:O	25:DX:47:VAL:HG23	1.74	0.86
31:BA:1399:C:H4'	31:BA:1400:C:O5'	1.72	0.86
55:DA:1348:G:H2'	55:DA:1349:A:H5''	1.57	0.86
56:DJ:13:SER:CB	56:DJ:17:VAL:CG1	2.44	0.86
56:DJ:1:MET:SD	56:DJ:2:ALA:HB3	2.16	0.86
58:DL:136:VAL:O	58:DL:137:GLU:HB2	1.72	0.86
58:DL:52:ILE:HG21	58:DL:75:SER:HB2	0.87	0.86
21:AV:175:VAL:O	21:AV:177:PRO:CG	2.23	0.86
4:DE:52:LEU:H	4:DE:52:LEU:HD12	1.36	0.86
4:AE:87:GLU:O	4:AE:87:GLU:HG3	1.75	0.86
55:DA:1173:G:H5''	55:DA:1174:A:OP1	1.74	0.86
31:BA:197:A:H1'	31:BA:198:G:O4'	1.75	0.86
57:DY:19:ARG:CZ	57:DY:84:GLU:CD	2.43	0.86
31:BA:1210:C:H4'	31:BA:1214:C:C4	2.10	0.86
32:CE:200:ILE:H	32:CE:200:ILE:HD12	1.41	0.86
32:CE:5:ILE:HG13	32:CE:221:LEU:HD23	1.55	0.86
12:DP:80:GLU:HA	22:D3:4:LYS:NZ	1.89	0.86
3:DD:44:ASN:CB	3:DD:49:ILE:HA	2.06	0.86
6:AG:161:THR:HG22	6:AG:163:ALA:H	1.39	0.86
58:DL:112:MET:SD	58:DL:120:LEU:HD13	2.15	0.86
57:DY:23:SER:CB	57:DY:68:LEU:CB	2.53	0.86
21:AV:110:GLY:H	21:AV:143:GLY:CA	1.88	0.86
54:CA:1305:G:N2	54:CA:1331:G:H2'	1.90	0.86
20:DU:81:LYS:HD3	20:DU:97:ARG:NE	1.91	0.86
1:AA:571:A:HO2'	1:AA:573:G:H8	0.86	0.86
1:AA:2355:C:H5'	22:A3:36:ILE:HD11	1.56	0.86
58:DL:95:LYS:HD3	58:DL:136:VAL:HG21	1.56	0.85
57:DY:40:LEU:HD23	57:DY:50:ARG:NH1	1.90	0.85
57:DY:75:GLN:HB3	57:DY:111:LEU:HA	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A4:38:LYS:O	26:A4:40:HIS:N	2.08	0.85
55:DA:1533:C:H5'	55:DA:1534:G:OP2	1.76	0.85
2:DB:42:C:H4'	6:DG:67:LYS:HD3	1.57	0.85
58:DL:53:VAL:CB	58:DL:72:PRO:HB2	2.06	0.85
57:DY:71:LEU:HB3	57:DY:113:GLN:CG	2.06	0.85
57:DY:50:ARG:HD3	57:DY:51:LEU:O	1.75	0.85
20:DU:63:LYS:HZ2	20:DU:64:GLU:N	1.73	0.85
49:CV:88:LYS:HE2	49:CV:88:LYS:CA	2.06	0.85
55:DA:2810:A:O2'	4:DE:61:ARG:HG3	1.76	0.85
11:DO:135:LEU:HD12	11:DO:139:LYS:HD3	1.58	0.85
1:AA:260:G:H1'	1:AA:621:A:H8	1.40	0.85
54:CA:96:G:H2'	54:CA:97:U:C5'	2.06	0.85
1:AA:752:A:O2'	1:AA:753:C:OP2	1.93	0.85
7:AH:102:ALA:HA	7:AH:117:PRO:HD3	1.58	0.85
4:DE:16:ARG:HG3	4:DE:16:ARG:O	1.76	0.85
42:CO:60:LEU:HD23	42:CO:60:LEU:H	1.40	0.85
31:BA:511:C:O4'	34:BG:43:HIS:NE2	2.09	0.85
55:DA:2304:G:H21	6:DG:156:ASP:CG	1.78	0.85
1:AA:2820:A:H61	4:AE:192:ASN:HB2	1.41	0.85
56:DI:20:LEU:C	56:DI:24:ILE:HG21	1.94	0.85
56:DJ:22:GLN:HG3	56:DJ:25:ASP:HB3	1.58	0.85
58:DL:101:TRP:CA	58:DL:104:VAL:HB	2.06	0.85
21:DV:152:ALA:O	21:DV:154:ASP:N	2.10	0.85
52:CD:16:U:H1'	52:CD:60:U:O2	1.75	0.85
16:D1:105:VAL:HA	17:D2:44:LYS:HD3	1.59	0.85
5:DF:198:ALA:HA	5:DF:201:VAL:HG12	1.56	0.85
4:DE:201:THR:HG22	4:DE:203:LYS:H	1.39	0.85
1:AA:444:C:OP2	16:A1:2:PRO:HD3	1.76	0.85
1:AA:800:A:H4'	1:AA:801:G:O5'	1.75	0.85
13:D0:63:ARG:O	13:D0:67:LEU:HB2	1.75	0.85
50:BW:26:ASN:HB2	50:BW:71:THR:HG23	1.58	0.85
58:DL:7:VAL:HG13	58:DL:58:THR:C	1.96	0.85
57:DY:93:LEU:HD21	57:DY:126:ALA:CB	2.06	0.85
3:DD:27:THR:HG23	3:DD:28:GLU:N	1.92	0.85
20:DU:39:VAL:HG12	20:DU:40:GLU:H	1.41	0.85
31:BA:1129:C:H4'	31:BA:1130:A:C5'	2.04	0.85
7:DH:152:ARG:O	7:DH:153:LYS:HB2	1.75	0.85
57:DY:107:VAL:HG12	57:DY:108:LYS:H	1.40	0.85
31:BA:1537:U:H2'	31:BA:1538:C:C6	2.10	0.85
58:DL:51:ALA:O	58:DL:52:ILE:HG12	1.77	0.85
57:DY:16:ASN:ND2	57:DY:25:PHE:HZ	1.74	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1251:C:O2'	1:AA:1252:G:H3'	1.76	0.85
55:DA:890:A:H3'	55:DA:892:G:C8	2.12	0.85
1:AA:2656:U:H5	1:AA:2664:G:H21	1.21	0.85
6:DG:67:LYS:HG2	26:D4:5:ILE:CG2	2.06	0.85
38:CK:103:VAL:CG2	38:CK:110:ALA:HB2	2.06	0.85
55:DA:528:A:C2	55:DA:2042:A:H2'	2.12	0.85
54:CA:1542:U:O3'	54:CA:1542:U:OP2	1.92	0.85
55:DA:2795:G:H3'	55:DA:2797:U:C5'	2.07	0.85
10:AN:88:ASN:HD21	10:AN:90:GLN:HB2	1.41	0.85
55:DA:1092:C:H2'	55:DA:1093:G:C4'	2.07	0.85
43:BP:4:ILE:HG23	43:BP:5:ALA:H	1.40	0.85
4:DE:57:LYS:HE3	4:DE:59:VAL:HB	1.56	0.85
14:DQ:107:GLU:H	14:DQ:110:LEU:HD11	1.41	0.85
55:DA:768:G:O2'	55:DA:1379:A:N6	2.09	0.85
1:AA:2506:U:H4'	1:AA:2507:C:OP1	1.76	0.85
31:BA:1004:A:O4'	31:BA:1036:G:O6	1.94	0.85
55:DA:1286:A:N1	55:DA:1329:U:H2'	1.92	0.85
10:AN:35:VAL:HG11	10:AN:103:ALA:HB3	1.56	0.85
3:DD:273:ARG:O	3:DD:273:ARG:HG3	1.76	0.85
43:CP:108:ARG:HD2	43:CP:108:ARG:N	1.91	0.85
15:DR:51:ARG:HG3	15:DR:98:LYS:HG3	1.55	0.85
4:AE:12:THR:O	4:AE:23:VAL:HG22	1.75	0.85
58:DL:125:ARG:O	58:DL:128:ALA:N	2.09	0.85
57:DY:54:ALA:HB1	57:DY:57:THR:CB	2.06	0.85
21:DV:181:GLU:HG2	21:DV:181:GLU:O	1.76	0.85
7:DH:126:PRO:HD2	7:DH:127:GLU:N	1.90	0.85
1:AA:1111:A:H4'	7:AH:3:ARG:HD3	1.57	0.85
55:DA:1142(A):A:H4'	55:DA:1143:A:OP1	1.75	0.85
13:D0:97:VAL:HG22	13:D0:114:VAL:HG22	1.59	0.85
2:DB:56:G:H5'	6:DG:27:ASN:HD21	1.39	0.85
55:DA:1405:U:H2'	55:DA:1406:U:C6	2.10	0.85
31:BA:718:G:H5'	41:BN:117:ASN:OD1	1.77	0.85
12:AP:23:GLY:HA2	21:AV:78:LYS:HE3	1.59	0.85
58:DL:106:GLU:O	58:DL:109:LYS:HB3	1.75	0.85
57:DY:27:VAL:O	57:DY:28:ASN:HB2	1.75	0.85
52:BB:19:G:H1'	52:BB:57:G:N2	1.92	0.85
3:DD:30:GLU:HG3	3:DD:63:ARG:CZ	2.06	0.85
22:A3:32:ARG:N	22:A3:35:ASN:ND2	2.24	0.85
28:D6:20:ASN:ND2	28:D6:21:TYR:H	1.74	0.85
21:DV:61:LEU:HD12	21:DV:65:GLN:HB2	1.56	0.85
5:AF:161:GLU:HG2	5:AF:164:ARG:NH2	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:42:GLU:HG3	38:CK:109:ILE:HD12	1.57	0.85
1:AA:1083:U:H2'	1:AA:1085:A:OP2	1.77	0.85
31:BA:366:C:H4'	31:BA:367:U:OP1	1.76	0.85
48:CU:29:PHE:HD2	48:CU:29:PHE:H	1.22	0.85
58:DL:60:TYR:OH	58:DL:65:PHE:O	1.95	0.85
57:DY:9:LEU:HD22	57:DY:9:LEU:C	1.98	0.85
21:AV:116:VAL:HG12	21:AV:117:LEU:H	1.42	0.85
1:AA:997:G:OP1	16:A1:93:LYS:HD3	1.77	0.85
7:DH:89:ILE:HD13	7:DH:90:LYS:N	1.92	0.85
38:BK:30:ARG:NH1	38:BK:30:ARG:HB3	1.92	0.85
52:CD:20:U:H2'	52:CD:21:A:H5'	1.59	0.85
23:AZ:92:LYS:HZ1	23:AZ:97:LEU:HG	1.40	0.85
21:AV:132:ASN:C	21:AV:133:ILE:HD12	1.97	0.85
1:AA:142:G:H1'	19:AT:37:THR:HG21	1.58	0.85
31:BA:1502:A:H2	31:BA:1505:G:N1	1.74	0.85
35:BH:76:ILE:HG23	35:BH:77:PRO:HD2	1.59	0.85
2:DB:81:G:C2	2:DB:82:G:N7	2.44	0.85
32:BE:231:GLU:HB3	32:BE:232:PRO:HD2	1.59	0.85
38:CK:41:ARG:HD2	38:CK:41:ARG:O	1.77	0.85
55:DA:1057:A:N7	55:DA:1086:A:C2'	2.37	0.85
57:DY:16:ASN:ND2	57:DY:25:PHE:CZ	2.45	0.85
26:A4:63:TYR:OH	49:BV:39:THR:HB	1.76	0.85
21:DV:174:VAL:O	21:DV:175:VAL:HG13	1.75	0.85
3:DD:69:ARG:HD3	3:DD:105:ILE:HD11	1.59	0.85
39:BL:65:VAL:HG22	39:BL:66:ARG:N	1.92	0.85
9:DM:62:VAL:HG11	9:DM:66:LYS:HB2	1.56	0.85
1:AA:654(C):G:H3'	1:AA:654(D):G:H8	1.41	0.85
40:CM:39:PRO:HB3	40:CM:70:ARG:HH12	1.41	0.85
1:AA:749:C:O2	1:AA:1618:A:H2'	1.77	0.85
58:DL:14:ALA:HA	58:DL:49:GLY:CA	2.04	0.84
21:AV:144:LEU:CD1	21:AV:146:ILE:O	2.25	0.84
52:CD:21:A:C2'	52:CD:22:G:H5''	2.06	0.84
55:DA:1454:U:O2'	55:DA:1455:G:N7	2.09	0.84
1:AA:586:A:H5'	5:AF:89:VAL:HG21	1.58	0.84
56:DI:29:GLU:OE1	57:DY:139:VAL:HG21	1.77	0.84
21:AV:141:VAL:HG13	21:AV:141:VAL:O	1.73	0.84
31:BA:1342:C:H1'	39:BL:124:GLN:NE2	1.92	0.84
11:AO:61:ARG:O	11:AO:62:LEU:HB3	1.76	0.84
1:AA:1372:U:H5'	1:AA:1372:U:C6	2.07	0.84
12:AP:75:THR:HA	12:AP:88:GLY:CA	2.06	0.84
55:DA:1378:A:H4'	55:DA:1379:A:OP1	1.75	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:53:ILE:HG22	21:AV:71:VAL:HG13	1.58	0.84
20:AU:72:VAL:HG23	20:AU:73:ARG:H	1.41	0.84
1:AA:1689:A:H62	1:AA:1698:A:H2	1.25	0.84
53:B1:53:U:O2'	53:B1:54:U:OP1	1.94	0.84
42:CO:109:GLY:HA3	42:CO:121:GLY:O	1.77	0.84
32:BE:56:ARG:HB3	32:BE:56:ARG:HH11	1.40	0.84
49:BV:41:VAL:O	49:BV:45:VAL:HG13	1.77	0.84
11:AO:71:VAL:HG13	11:AO:72:PRO:HD3	1.58	0.84
1:AA:1360:A:H5'	1:AA:1361:G:OP2	1.77	0.84
54:CA:1126:U:H1'	54:CA:1280:A:C5	2.12	0.84
55:DA:996:A:H4'	16:D1:92:ARG:HE	1.42	0.84
55:DA:1925:C:N4	55:DA:1926:U:C2	2.45	0.84
55:DA:1725:G:C8	55:DA:1725:G:H5'	2.11	0.84
5:DF:127:GLU:O	5:DF:129:PHE:N	2.10	0.84
7:AH:41:MET:HG3	7:AH:54:ARG:HA	1.58	0.84
56:DI:3:LEU:HD23	56:DI:7:ARG:CD	2.06	0.84
56:DJ:12:LEU:H	56:DJ:13:SER:CB	1.86	0.84
58:DL:141:ALA:HB1	58:DL:142:PRO:CA	2.08	0.84
21:AV:186:GLU:OE2	21:AV:186:GLU:HA	1.75	0.84
7:DH:153:LYS:CG	7:DH:162:ILE:H	1.90	0.84
54:CA:1129:C:C4'	54:CA:1130:A:H5'	2.08	0.84
52:CD:41:C:C2'	52:CD:42:C:H5''	2.07	0.84
5:DF:7:TYR:HB3	5:DF:21:ALA:HB1	1.57	0.84
43:CP:65:LYS:HD3	26:D4:50:VAL:HG11	1.58	0.84
55:DA:528:A:C3'	55:DA:529:A:H5''	2.08	0.84
33:BF:44:GLU:HG2	33:BF:52:LEU:HD11	1.58	0.84
56:DJ:13:SER:OG	56:DJ:17:VAL:CG2	2.19	0.84
1:AA:895:U:H2'	1:AA:895:U:O2	1.75	0.84
20:DU:47:LYS:HG2	20:DU:60:PHE:CE1	2.12	0.84
54:CA:1200:C:H4'	54:CA:1201:A:H5''	1.59	0.84
16:D1:90:VAL:HG22	17:D2:39:LEU:HB3	1.58	0.84
1:AA:1006:C:H1'	9:AM:106:MET:HE3	1.59	0.84
31:BA:397:A:N3	31:BA:397:A:H3'	1.91	0.84
1:AA:481:G:H1'	1:AA:506:G:H21	1.42	0.84
1:AA:90:U:C2'	1:AA:91:A:H5''	2.07	0.84
1:AA:141:A:H1'	1:AA:1408:C:O4'	1.76	0.84
1:AA:95:G:O2'	24:AW:48:HIS:HB3	1.76	0.84
17:A2:30:GLY:N	17:A2:61:VAL:HG11	1.92	0.84
1:AA:2690:C:OP2	13:A0:14:SER:HB3	1.78	0.84
33:BF:188:LEU:HD12	33:BF:195:VAL:HG11	1.58	0.84
55:DA:69:C:O2'	55:DA:70:G:H5'	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:238:GLY:O	3:DD:239:ARG:O	1.95	0.84
1:AA:384:U:C2'	1:AA:385:C:C5'	2.51	0.84
21:DV:121:HIS:NE2	21:DV:169:GLU:OE2	2.10	0.84
1:AA:2517:C:O2'	1:AA:2518:A:H3'	1.76	0.84
31:BA:792:A:N9	31:BA:794:A:N6	2.25	0.84
12:DP:10:ARG:HB2	12:DP:89:ASN:ND2	1.91	0.84
55:DA:1929:G:H4'	55:DA:1930:G:OP1	1.78	0.84
31:BA:652:U:H1'	31:BA:653:A:H2	1.40	0.84
35:CH:137:GLU:HA	35:CH:140:ARG:HH11	1.42	0.84
54:CA:84:U:H5'	54:CA:84:U:C6	2.13	0.84
4:AE:154:LYS:HE3	4:AE:154:LYS:HA	1.59	0.84
27:A5:55:ARG:O	27:A5:56:LYS:HB2	1.77	0.84
1:AA:2820:A:C8	4:AE:191:PRO:HB3	2.13	0.84
55:DA:1086:A:H5'	55:DA:1103:A:H61	1.43	0.84
1:AA:1359:A:H3'	1:AA:1359:A:H8	0.97	0.84
20:AU:86:ARG:HB2	20:AU:95:LYS:HD2	1.58	0.84
38:BK:12:ARG:NH1	38:BK:27:PRO:HD3	1.92	0.84
55:DA:389:G:H1	11:DO:71:VAL:HG12	1.43	0.84
1:AA:1894:C:O2'	1:AA:1895:C:H5'	1.77	0.84
58:DL:140:GLY:O	58:DL:141:ALA:HB2	1.77	0.84
57:DY:9:LEU:O	57:DY:13:LEU:HB3	1.77	0.84
57:DY:51:LEU:HD21	57:DY:82:PHE:CA	2.07	0.84
26:A4:56:VAL:HA	26:A4:60:GLN:NE2	1.91	0.84
1:AA:943:U:C2'	1:AA:944:G:H5'	2.08	0.84
30:D8:52:LYS:N	30:D8:53:PRO:HD2	1.91	0.84
30:A8:50:LEU:HG	30:A8:51:ALA:N	1.92	0.84
17:A2:49:THR:HB	17:A2:50:PRO:CD	2.06	0.84
1:AA:1342:A:O2'	1:AA:1344:G:OP2	1.96	0.84
55:DA:887:A:O2'	55:DA:888:C:O5'	1.94	0.84
32:BE:80:ILE:HD13	32:BE:211:ILE:HG22	1.60	0.84
1:AA:625:G:O6	11:AO:107:LYS:HD3	1.77	0.84
31:BA:974:A:H1'	44:BQ:31:ARG:NE	1.92	0.84
55:DA:1111:A:O2'	55:DA:1112:G:H4'	1.76	0.84
55:DA:2653:U:O2'	7:DH:110:SER:HB2	1.78	0.84
52:BC:18:G:H5'	52:BC:19:G:OP2	1.77	0.84
58:DL:109:LYS:HG2	58:DL:110:GLN:N	1.89	0.84
21:DV:194:PRO:C	21:DV:196:VAL:HG12	1.98	0.84
55:DA:1568:G:H5'	3:DD:60:ARG:HA	1.59	0.84
8:AK:125:GLU:HA	8:AK:141:LYS:HB3	1.59	0.84
31:BA:429:U:H4'	31:BA:430:A:O5'	1.77	0.84
7:DH:106:THR:HG22	7:DH:112:PRO:HB3	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1022:G:N2	1:AA:1142(A):A:H2	1.76	0.84
1:AA:2147:G:H2'	1:AA:2148:G:O4'	1.77	0.84
53:C1:33:G:H2'	53:C1:34:G:C8	2.13	0.84
7:AH:87:LEU:HA	7:AH:163:TYR:O	1.77	0.84
11:AO:90:ARG:HG2	11:AO:91:PHE:HD1	1.41	0.84
36:CI:91:VAL:HG11	48:CU:72:ARG:HH12	1.42	0.84
2:DB:91:C:OP1	12:DP:19:GLY:HA2	1.77	0.84
55:DA:1079:C:H3'	55:DA:1080:A:C8	2.12	0.84
58:DL:8:VAL:N	58:DL:57:ILE:HG13	1.93	0.84
57:DY:138:LEU:HD12	57:DY:140:GLY:N	1.93	0.84
57:DY:2:PRO:CG	57:DY:3:ASN:H	1.84	0.84
57:DY:42:GLN:O	57:DY:42:GLN:HG3	1.78	0.84
21:AV:115:GLY:HA2	21:AV:175:VAL:O	1.78	0.84
1:AA:1372:U:O5'	1:AA:1372:U:C5	2.30	0.84
26:A4:36:CYS:O	26:A4:39:CYS:HB2	1.78	0.84
4:AE:35:GLN:HG3	4:AE:64:LYS:HZ2	1.43	0.84
55:DA:1778:U:H2'	55:DA:1784:A:N6	1.92	0.84
43:CP:116:THR:HG22	43:CP:117:VAL:N	1.92	0.84
31:BA:96:G:H2'	31:BA:97:U:O4'	1.77	0.84
6:AG:28:VAL:O	6:AG:31:VAL:HG12	1.78	0.84
3:DD:183:ARG:HG2	3:DD:183:ARG:HH11	1.42	0.84
58:DL:50:ASP:H	58:DL:53:VAL:CG2	1.90	0.83
57:DY:129:PRO:HD2	57:DY:131:MET:H	1.42	0.83
23:DZ:92:LYS:HA	23:DZ:95:LEU:HB2	1.56	0.83
8:AK:142:VAL:CG2	8:AK:143:SER:H	1.90	0.83
4:DE:13:ARG:HB3	4:DE:21:VAL:HG12	1.60	0.83
8:DK:13:GLY:HA3	8:DK:17:GLN:OE1	1.78	0.83
47:BT:57:VAL:HA	47:BT:77:VAL:HG23	1.59	0.83
47:CT:4:LYS:HE3	47:CT:6:LEU:HD21	1.60	0.83
34:BG:150:GLU:O	34:BG:152:SER:N	2.10	0.83
1:AA:1536:A:H3'	1:AA:1537:C:C6	2.12	0.83
26:A4:2:LYS:HD2	26:A4:6:HIS:NE2	1.93	0.83
6:AG:136:ARG:O	6:AG:154:GLY:HA2	1.78	0.83
52:BD:15:G:H22	52:BD:48:C:H42	1.24	0.83
55:DA:1047:G:H2'	55:DA:1110:G:N2	1.92	0.83
38:CK:41:ARG:HH11	38:CK:41:ARG:CG	1.90	0.83
26:D4:15:ILE:H	26:D4:15:ILE:HD13	1.43	0.83
1:AA:603:A:H1'	1:AA:604:G:O4'	1.77	0.83
14:AQ:59:LYS:HG2	14:AQ:60:GLY:H	1.42	0.83
3:DD:25:THR:HG21	3:DD:81:ALA:CB	2.05	0.83
6:AG:109:VAL:HG13	26:A4:33:VAL:HG21	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AR:96:ARG:NH1	15:AR:96:ARG:HB2	1.94	0.83
14:DQ:106:ARG:HA	14:DQ:110:LEU:HD11	1.59	0.83
15:DR:90:GLN:NE2	15:DR:90:GLN:HA	1.93	0.83
4:DE:14:ILE:CG2	4:DE:15:PHE:H	1.84	0.83
8:DK:93:THR:HG22	8:DK:119:PRO:HB3	1.60	0.83
1:AA:1846:G:H5'	1:AA:1847:A:OP2	1.77	0.83
10:DN:113:LYS:O	10:DN:117:LEU:HD12	1.78	0.83
21:DV:130:PRO:HA	21:DV:133:ILE:HD11	1.59	0.83
27:A5:16:ARG:HH11	27:A5:16:ARG:HG2	1.43	0.83
12:DP:83:MET:HB2	22:D3:7:LEU:HD12	1.60	0.83
1:AA:2562:U:H1'	10:AN:23:ARG:NH1	1.93	0.83
1:AA:2820:A:N7	4:AE:109:LYS:HE3	1.90	0.83
58:DL:50:ASP:N	58:DL:53:VAL:HG21	1.93	0.83
49:BV:29:ARG:O	49:BV:30:LEU:HB2	1.78	0.83
49:CV:10:PHE:HD1	49:CV:10:PHE:N	1.71	0.83
22:D3:32:ARG:N	22:D3:35:ASN:ND2	2.27	0.83
7:DH:124:GLU:HB2	7:DH:132:ARG:HD2	1.60	0.83
37:BJ:79:ARG:HA	37:BJ:83:ALA:O	1.78	0.83
3:AD:34:VAL:HG21	3:AD:103:ARG:HA	1.60	0.83
31:BA:1175:G:H2'	31:BA:1176:A:C8	2.13	0.83
44:CQ:13:THR:N	44:CQ:14:PRO:HD2	1.93	0.83
1:AA:1249:U:H2'	1:AA:1249:U:O2	1.78	0.83
8:AK:41:GLU:O	8:AK:45:LYS:HG2	1.77	0.83
55:DA:13:A:O2'	55:DA:15:G:N7	2.12	0.83
32:BE:40:HIS:HB3	32:BE:190:THR:HG21	1.59	0.83
57:DY:28:ASN:ND2	57:DY:83:TYR:HD2	1.77	0.83
26:A4:2:LYS:HB3	26:A4:6:HIS:NE2	1.93	0.83
54:CA:1175:G:H2'	54:CA:1176:A:C8	2.14	0.83
32:BE:44:LEU:HD12	32:BE:45:GLN:N	1.94	0.83
28:D6:12:GLU:HA	28:D6:23:THR:HA	1.58	0.83
31:BA:939:G:H5''	37:BJ:102:ARG:HH22	1.44	0.83
1:AA:1829:A:C8	1:AA:1830:C:C5	2.66	0.83
56:DI:24:ILE:HG12	56:DI:25:ASP:N	1.87	0.83
56:DI:7:ARG:CD	56:DI:8:ILE:HG12	2.07	0.83
57:DY:130:THR:O	57:DY:131:MET:C	2.17	0.83
21:DV:174:VAL:O	21:DV:175:VAL:HG22	1.77	0.83
27:D5:49:CYS:HA	27:D5:58:LEU:HB3	1.58	0.83
1:AA:387:U:C5	1:AA:387:U:OP2	2.30	0.83
55:DA:2414:G:H21	11:DO:67:MET:CE	1.90	0.83
55:DA:50:U:H4'	55:DA:51:G:OP2	1.77	0.83
24:DW:41:ILE:HD11	24:DW:44:LEU:CB	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:796:C:H2'	55:DA:797:C:C6	2.13	0.83
55:DA:442:G:N3	5:DF:48:THR:HG21	1.93	0.83
12:AP:98:LYS:HB3	12:AP:99:PRO:HD2	1.60	0.83
55:DA:2176:A:H2'	55:DA:2177:C:C6	2.13	0.83
38:BK:97:VAL:HA	38:BK:100:ILE:HD11	1.59	0.83
55:DA:1526:G:C2'	55:DA:1527:G:H5'	2.08	0.83
34:BG:49:ARG:HH22	53:B1:57:U:H1'	1.43	0.83
58:DL:101:TRP:HA	58:DL:104:VAL:CB	2.08	0.83
57:DY:9:LEU:HD22	57:DY:10:LEU:N	1.93	0.83
57:DY:28:ASN:ND2	57:DY:83:TYR:CD2	2.46	0.83
55:DA:1084:A:H1'	57:DY:53:VAL:CG1	2.08	0.83
21:DV:150:LEU:HD23	21:DV:151:HIS:H	1.42	0.83
4:AE:66:HIS:HE1	4:AE:73:GLU:HB2	1.43	0.83
17:D2:34:GLU:HG3	17:D2:58:VAL:HG22	1.61	0.83
3:AD:35:LYS:HB3	3:AD:63:ARG:HA	1.61	0.83
1:AA:608:A:OP1	5:AF:100:THR:HG21	1.78	0.83
42:CO:60:LEU:CD2	42:CO:60:LEU:H	1.91	0.83
55:DA:1734:C:H2'	55:DA:1735:C:H5''	1.58	0.83
1:AA:857:C:H5'	22:A3:77:ARG:HH22	1.43	0.83
52:BD:72:C:H2'	52:BD:73:A:H5''	1.58	0.83
58:DL:112:MET:HE1	58:DL:123:ALA:CB	2.09	0.83
57:DY:27:VAL:CG2	57:DY:28:ASN:N	2.36	0.83
1:AA:1925:C:O2	1:AA:1925:C:H2'	1.76	0.83
20:AU:89:PHE:CD1	20:AU:90:LEU:HD23	2.14	0.83
29:D7:5:TRP:NE1	29:D7:7:PRO:HG3	1.94	0.83
38:CK:12:ARG:NH1	38:CK:27:PRO:HD3	1.94	0.83
3:DD:181:GLU:HA	3:DD:272:ALA:HB3	1.59	0.83
27:A5:36:CYS:SG	27:A5:49:CYS:HB3	2.19	0.83
37:BJ:26:PHE:O	37:BJ:30:ILE:HG12	1.78	0.83
39:BL:85:LEU:HD12	39:BL:86:VAL:N	1.93	0.83
48:BU:50:ILE:HD11	48:BU:70:ILE:HG21	1.61	0.83
54:CA:429:U:H4'	54:CA:430:A:O5'	1.76	0.83
58:DL:115:LEU:O	58:DL:116:ASN:HB2	1.76	0.83
58:DL:14:ALA:HB1	58:DL:50:ASP:CB	2.03	0.83
58:DL:9:LYS:C	58:DL:10:LEU:HD23	1.99	0.83
57:DY:71:LEU:CD2	57:DY:72:ASP:H	1.92	0.83
21:DV:191:VAL:O	21:DV:192:ALA:CB	2.27	0.83
1:AA:1141:U:H4'	1:AA:1142(A):A:O4'	1.78	0.83
1:AA:84:A:H4'	1:AA:85:G:O5'	1.78	0.83
1:AA:2656:U:H5	1:AA:2664:G:N2	1.77	0.83
52:BB:10:G:H3'	52:BB:11:C:H5	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:DT:50:LYS:H	19:DT:87:GLN:HE22	1.24	0.83
37:CJ:21:VAL:HG23	37:CJ:22:LEU:H	1.44	0.83
6:DG:53:LEU:HD23	6:DG:54:GLU:N	1.94	0.83
58:DL:133:SER:HA	58:DL:137:GLU:OE1	1.79	0.83
57:DY:15:GLU:O	57:DY:16:ASN:CB	2.27	0.83
1:AA:946:G:H2'	1:AA:947:G:C8	2.14	0.83
43:CP:3:ARG:CZ	43:CP:7:VAL:HG13	2.07	0.83
20:AU:97:ARG:H	20:AU:97:ARG:HD3	1.43	0.83
11:DO:105:LEU:O	11:DO:106:LEU:HB2	1.77	0.83
1:AA:1614:A:H62	18:AS:93:ALA:HB2	1.43	0.83
55:DA:302:C:H2'	55:DA:303:U:H6	1.43	0.83
57:DY:2:PRO:O	57:DY:3:ASN:HB2	1.79	0.82
21:DV:194:PRO:HG2	21:DV:196:VAL:HG11	1.61	0.82
55:DA:1372:U:H5'	55:DA:1372:U:C5	2.13	0.82
52:CB:57:G:C5'	21:DV:182:LYS:NZ	2.42	0.82
49:CV:83:HIS:CD2	49:CV:84:GLY:N	2.46	0.82
1:AA:747:U:O2	1:AA:2014:A:H1'	1.77	0.82
4:AE:34:VAL:HG11	4:AE:64:LYS:HD3	1.60	0.82
39:BL:16:ARG:CB	39:BL:16:ARG:HH11	1.92	0.82
1:AA:674:G:O2'	5:AF:74:ARG:HG3	1.79	0.82
55:DA:654(R):C:H2'	55:DA:654(S):G:H8	1.41	0.82
53:C1:36:G:H3'	53:C1:37:G:H5''	1.58	0.82
1:AA:1688:U:H1'	1:AA:1701:A:C6	2.14	0.82
34:CG:23:GLY:HA3	34:CG:112:VAL:CG2	2.09	0.82
42:CO:28:LYS:NZ	42:CO:33:ARG:HH22	1.76	0.82
31:BA:372:C:H5''	31:BA:373:A:OP1	1.78	0.82
31:BA:920:U:H2'	31:BA:921:U:C6	2.14	0.82
54:CA:641:U:H4'	54:CA:642:A:OP1	1.79	0.82
55:DA:1082:U:H5'	57:DY:45:LYS:O	1.80	0.82
57:DY:50:ARG:CA	57:DY:83:TYR:HD1	1.91	0.82
21:DV:146:ILE:HA	21:DV:174:VAL:CB	2.09	0.82
1:AA:1565:C:H5''	3:AD:18:VAL:HG21	1.61	0.82
58:DL:18:THR:HG21	58:DL:38:VAL:HG12	1.59	0.82
21:AV:175:VAL:O	21:AV:177:PRO:CD	2.25	0.82
27:D5:58:LEU:HD13	27:D5:60:VAL:HB	1.62	0.82
21:DV:150:LEU:O	21:DV:170:THR:O	1.97	0.82
1:AA:1405:U:H2'	1:AA:1406:U:H6	1.43	0.82
26:D4:34:GLU:HG2	26:D4:35:VAL:H	1.43	0.82
6:DG:109:VAL:HG11	26:D4:33:VAL:HG21	1.60	0.82
35:BH:79:GLU:HB3	35:BH:92:LYS:HA	1.59	0.82
1:AA:2712:U:O2'	1:AA:2712(A):A:O5'	1.97	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:65:PHE:HD2	58:DL:65:PHE:C	1.83	0.82
57:DY:123:GLU:O	57:DY:127:GLU:CB	2.27	0.82
21:DV:117:LEU:HD12	21:DV:117:LEU:H	1.44	0.82
3:AD:44:ASN:CB	3:AD:49:ILE:HA	2.06	0.82
2:AB:39:A:C6	26:A4:1:MET:HB3	2.15	0.82
55:DA:2787:C:H1'	4:DE:62:PRO:HD3	1.60	0.82
55:DA:2811:G:P	4:DE:61:ARG:HG2	2.19	0.82
55:DA:2287:A:H62	55:DA:2344:U:H3	1.26	0.82
5:AF:25:PRO:HG3	5:AF:119:ARG:HD3	1.60	0.82
33:CF:175:LEU:H	33:CF:175:LEU:HD12	1.44	0.82
52:CC:35:A:C2'	52:CC:36:A:H5''	2.10	0.82
1:AA:2777:G:H5''	1:AA:2778:A:H5''	1.59	0.82
5:DF:34:TRP:CZ2	11:DO:8:PRO:HG3	2.14	0.82
4:AE:9:VAL:HG23	4:AE:10:GLY:N	1.94	0.82
55:DA:1056:G:N2	55:DA:1087:G:N1	2.28	0.82
56:DI:17:VAL:HA	56:DI:20:LEU:CD1	2.09	0.82
57:DY:28:ASN:HB3	57:DY:81:VAL:CG1	2.08	0.82
1:AA:879:G:H1	1:AA:898:C:H42	1.24	0.82
31:BA:1214:C:H5''	31:BA:1215:G:OP2	1.77	0.82
49:BV:63:THR:N	49:BV:66:MET:HE3	1.91	0.82
49:CV:67:VAL:H	26:D4:59:PHE:HE1	1.23	0.82
57:DY:104:ILE:HG23	57:DY:105:PRO:N	1.94	0.82
1:AA:1340:U:O2'	1:AA:1341:U:P	2.37	0.82
38:CK:6:ILE:CB	38:CK:85:ARG:HH12	1.92	0.82
55:DA:1924:C:H2'	55:DA:1925:C:O4'	1.80	0.82
52:CD:76:A:H8	55:DA:2394:C:H42	1.27	0.82
40:CM:40:LEU:HB2	40:CM:69:ASN:HB2	1.60	0.82
55:DA:1526:G:H2'	55:DA:1527:G:H5'	1.60	0.82
54:CA:405:U:H3'	54:CA:406:G:H5'	1.62	0.82
1:AA:2127:G:H3'	1:AA:2128:C:H5''	1.61	0.82
58:DL:8:VAL:H	58:DL:57:ILE:HG13	1.44	0.82
57:DY:27:VAL:O	57:DY:81:VAL:O	1.98	0.82
55:DA:1378:A:O2'	55:DA:1379:A:C5'	2.28	0.82
27:A5:3:LYS:HA	27:A5:3:LYS:HE3	1.61	0.82
39:BL:66:ARG:HB3	39:BL:66:ARG:NH1	1.94	0.82
7:AH:7:LEU:N	7:AH:8:PRO:HD2	1.95	0.82
54:CA:1139:G:N2	54:CA:1144:G:H1	1.76	0.82
1:AA:1022:G:H22	1:AA:1142(A):A:H2	1.27	0.82
7:DH:55:PRO:HG2	7:DH:61:HIS:ND1	1.95	0.82
55:DA:2317:C:C2'	55:DA:2318:G:H5'	2.08	0.82
36:CI:27:GLN:HA	36:CI:27:GLN:HE21	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1943:U:H4'	55:DA:1944:U:O5'	1.79	0.82
1:AA:762:U:H4'	1:AA:763:G:O5'	1.80	0.82
32:BE:167:PRO:HG3	32:BE:188:ALA:HB2	1.62	0.82
37:CJ:94:ARG:HH11	37:CJ:94:ARG:HG3	1.45	0.82
57:DY:75:GLN:CB	57:DY:111:LEU:HA	2.10	0.82
57:DY:25:PHE:HD1	57:DY:82:PHE:CE2	1.91	0.82
57:DY:43:ALA:H	57:DY:47:ASN:HD21	1.27	0.82
57:DY:50:ARG:CD	57:DY:51:LEU:H	1.92	0.82
57:DY:76:GLY:O	57:DY:111:LEU:CB	2.27	0.82
3:AD:43:ARG:HH11	3:AD:44:ASN:HD21	1.22	0.82
16:A1:90:VAL:HG22	17:A2:39:LEU:HB3	1.60	0.82
55:DA:638:G:H2'	55:DA:639:U:C6	2.15	0.82
57:DY:27:VAL:CG2	57:DY:110:GLY:HA2	2.05	0.82
57:DY:70:GLU:O	57:DY:71:LEU:CD1	2.28	0.82
57:DY:90:ALA:O	57:DY:94:VAL:CB	2.26	0.82
32:CE:8:LYS:H	32:CE:8:LYS:CD	1.88	0.82
3:DD:80:ALA:HB3	3:DD:94:LEU:HD12	1.62	0.82
15:DR:91:ARG:O	15:DR:116:ALA:HA	1.78	0.82
31:BA:1277:C:HO2'	31:BA:1279:A:H8	1.25	0.82
33:CF:47:LEU:HD11	33:CF:76:VAL:HG12	1.60	0.82
32:CE:18:GLY:H	32:CE:42:ILE:HG22	1.45	0.82
32:CE:30:ARG:HG3	32:CE:31:TYR:CE1	2.15	0.82
11:DO:120:ALA:HB2	11:DO:137:LYS:HB3	1.62	0.82
52:BD:21:A:H3'	52:BD:21:A:N3	1.95	0.82
21:DV:61:LEU:HD11	21:DV:65:GLN:CB	2.10	0.82
40:BM:40:LEU:HG	40:BM:41:PRO:HD2	1.60	0.82
55:DA:265:A:O2'	55:DA:266:G:C4'	2.27	0.82
39:BL:9:ARG:HA	39:BL:13:ALA:O	1.80	0.82
1:AA:528:A:C2	1:AA:2042:A:H2'	2.14	0.82
55:DA:2067:G:H4'	55:DA:2068:U:OP2	1.80	0.82
31:BA:1062:U:H2'	31:BA:1063:C:C6	2.15	0.82
4:AE:9:VAL:HG23	4:AE:10:GLY:H	1.45	0.82
55:DA:1079:C:H3'	55:DA:1080:A:H8	1.43	0.82
55:DA:1058:U:OP1	58:DL:5:VAL:HG22	1.79	0.82
21:AV:175:VAL:CG1	21:AV:177:PRO:HD2	1.93	0.82
1:AA:384:U:H2'	1:AA:385:C:C5'	1.98	0.82
49:CV:83:HIS:O	49:CV:86:GLU:N	2.13	0.82
1:AA:84:A:N6	1:AA:102:G:O2'	2.13	0.82
1:AA:2532:G:H4'	1:AA:2657:A:N1	1.95	0.82
24:DW:65:ASN:HD22	24:DW:69:ARG:HH21	1.26	0.82
12:DP:20:ALA:HA	12:DP:98:LYS:HB3	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:351:G:H4'	54:CA:352:C:OP1	1.79	0.82
1:AA:2882:A:H5'	13:A0:96:ARG:HG3	1.60	0.82
12:AP:56:ARG:NH1	12:AP:56:ARG:HB2	1.95	0.82
56:DI:16:THR:CG2	56:DI:17:VAL:H	1.92	0.82
26:D4:68:ARG:NH1	26:D4:68:ARG:HA	1.94	0.82
12:AP:16:ARG:HG3	12:AP:17:LEU:N	1.94	0.82
31:BA:1313:U:OP1	49:BV:6:LYS:HB3	1.80	0.82
57:DY:141:VAL:HG13	57:DY:142:LEU:N	1.94	0.82
55:DA:2287:A:O2'	55:DA:2288:A:H3'	1.78	0.82
11:DO:64:LYS:C	11:DO:66:GLY:N	2.32	0.82
21:AV:127:LYS:HB3	21:AV:162:GLU:HB3	1.61	0.82
54:CA:251:G:H4'	54:CA:252:U:O5'	1.80	0.82
54:CA:1062:U:H2'	54:CA:1063:C:C6	2.15	0.82
1:AA:1913:A:N7	31:BA:1494:G:H4'	1.95	0.82
48:CU:86:VAL:HG12	48:CU:87:ARG:HG2	1.62	0.82
46:BS:43:LYS:HA	46:BS:48:TRP:HB3	1.61	0.82
58:DL:103:GLN:O	58:DL:107:ILE:CB	2.26	0.81
58:DL:11:GLN:HG2	58:DL:41:PHE:CZ	2.14	0.81
57:DY:43:ALA:N	57:DY:47:ASN:HD21	1.77	0.81
9:DM:47:ALA:HB2	9:DM:112:LEU:HG	1.61	0.81
1:AA:2060:A:OP1	5:AF:68:LYS:O	1.97	0.81
52:CD:8:U:H4'	52:CD:9:A:OP1	1.80	0.81
31:BA:792:A:O2'	31:BA:794:A:N7	2.13	0.81
55:DA:2419:U:C4'	28:D6:23:THR:HG21	2.10	0.81
24:AW:51:ARG:HE	24:AW:55:ARG:NH1	1.78	0.81
15:DR:28:VAL:HG23	15:DR:87:ASP:O	1.80	0.81
14:AQ:19:LYS:O	14:AQ:20:ARG:HB3	1.79	0.81
1:AA:2879:C:H4'	1:AA:2880:C:OP1	1.78	0.81
6:DG:94:LEU:HD23	6:DG:94:LEU:H	1.45	0.81
55:DA:270(K):C:C2'	55:DA:270(L):U:H5''	2.09	0.81
55:DA:1078:U:H1'	55:DA:1088:A:C2	2.14	0.81
57:DY:88:ALA:HB1	57:DY:92:THR:OG1	1.79	0.81
49:BV:23:ASN:HB2	49:BV:43:GLU:OE2	1.79	0.81
17:A2:38:LEU:C	17:A2:39:LEU:HD12	2.00	0.81
48:CU:18:ARG:H	48:CU:18:ARG:HD2	1.43	0.81
48:CU:18:ARG:HD2	48:CU:18:ARG:N	1.93	0.81
1:AA:789:A:H3'	1:AA:789:A:OP1	1.80	0.81
8:DK:3:VAL:HG12	8:DK:38:LEU:HA	1.61	0.81
35:CH:101:ILE:HD11	35:CH:119:LEU:HD23	1.61	0.81
10:AN:104:ARG:HB3	10:AN:104:ARG:HH11	1.44	0.81
55:DA:1049:C:N3	55:DA:2751:G:O6	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:41:ARG:HG3	38:CK:41:ARG:HH11	1.45	0.81
54:CA:64:G:H4'	54:CA:65:U:C5'	2.10	0.81
31:BA:1239:A:H2'	31:BA:1298:C:N4	1.94	0.81
35:CH:11:ILE:O	35:CH:12:LEU:HB2	1.78	0.81
55:DA:654(O):G:H2'	55:DA:654(P):G:H8	1.45	0.81
56:DJ:10:GLU:OE1	56:DJ:19:GLU:OE2	1.99	0.81
58:DL:112:MET:N	58:DL:113:PRO:CD	2.40	0.81
21:AV:144:LEU:O	21:AV:174:VAL:CG2	2.26	0.81
21:DV:191:VAL:CG1	21:DV:197:ILE:HG23	2.10	0.81
1:AA:2287:A:N6	1:AA:2344:U:H3	1.78	0.81
2:AB:81:G:O6	2:AB:96:G:C6	2.34	0.81
3:DD:35:LYS:HD3	3:DD:63:ARG:CA	2.11	0.81
40:BM:78:ASN:HB2	40:BM:81:THR:HG23	1.63	0.81
50:CW:23:ARG:HA	50:CW:26:ASN:HD21	1.45	0.81
55:DA:2776:A:H4'	55:DA:2777:G:O5'	1.79	0.81
7:DH:126:PRO:HD2	7:DH:127:GLU:O	1.80	0.81
7:DH:4:ILE:HD13	7:DH:4:ILE:H	1.45	0.81
5:AF:4:VAL:HA	5:AF:19:GLU:CB	2.09	0.81
20:AU:6:HIS:O	20:AU:7:VAL:HG13	1.80	0.81
31:BA:134:A:H61	46:BS:25:ARG:HH12	1.28	0.81
35:BH:78:HIS:HB2	38:BK:104:ARG:HD2	1.60	0.81
24:DW:47:ASN:ND2	24:DW:47:ASN:H	1.78	0.81
12:AP:24:GLY:O	12:AP:25:ASP:HB2	1.77	0.81
31:BA:1205:U:H1'	33:BF:195:VAL:HG23	1.61	0.81
31:BA:689:C:C2'	31:BA:690:G:H5'	2.11	0.81
55:DA:389:G:N1	11:DO:71:VAL:HG12	1.94	0.81
11:AO:90:ARG:HG2	11:AO:91:PHE:CD1	2.14	0.81
55:DA:1784:A:H4'	55:DA:1785:A:O5'	1.80	0.81
55:DA:1734:C:C3'	55:DA:1735:C:H5''	2.10	0.81
34:CG:12:CYS:HA	34:CG:19:LEU:CD2	2.11	0.81
29:A7:19:ARG:HH11	29:A7:19:ARG:HG2	1.43	0.81
46:BS:53:VAL:HG12	46:BS:79:VAL:HG22	1.59	0.81
2:DB:15:A:H5'	2:DB:16:G:C8	2.14	0.81
38:BK:82:HIS:HD2	38:BK:138:TRP:HE1	1.28	0.81
3:AD:69:ARG:HD2	3:AD:119:ALA:HB2	1.63	0.81
52:CD:2:C:H5''	52:CD:2:C:H6	1.45	0.81
37:CJ:140:ASP:HA	37:CJ:143:ARG:NH1	1.95	0.81
31:BA:1435:G:H2'	31:BA:1436:U:C6	2.14	0.81
46:BS:7:ALA:HB2	46:BS:20:VAL:HG11	1.59	0.81
38:CK:34:GLU:HB3	38:CK:118:VAL:HG21	1.61	0.81
55:DA:1673:U:H2'	55:DA:1674:G:H5'	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A3:68:GLU:HG3	22:A3:80:HIS:HB2	1.60	0.81
1:AA:180:G:OP2	29:A7:32:LYS:HE2	1.80	0.81
21:DV:114:GLY:HA3	21:DV:178:GLU:H	1.43	0.81
14:DQ:106:ARG:CA	14:DQ:110:LEU:HD21	2.11	0.81
2:DB:42:C:H4'	6:DG:67:LYS:CD	2.10	0.81
54:CA:819:A:H5''	54:CA:820:U:OP2	1.80	0.81
54:CA:67:C:H2'	54:CA:68:G:C8	2.14	0.81
1:AA:1324:G:H1'	1:AA:1616:A:H62	1.46	0.81
55:DA:993:G:OP1	16:D1:50:ARG:NH2	2.14	0.81
56:DI:28:LYS:CA	56:DI:28:LYS:HE3	2.08	0.81
56:DJ:13:SER:HA	56:DJ:17:VAL:CG2	2.10	0.81
55:DA:1077:A:H2	58:DL:133:SER:HB3	1.45	0.81
57:DY:130:THR:O	57:DY:132:ASP:N	2.14	0.81
57:DY:70:GLU:O	57:DY:71:LEU:CG	2.28	0.81
21:AV:103:ARG:HB3	21:AV:138:GLU:HA	1.62	0.81
55:DA:897:C:H5	55:DA:897:C:P	2.03	0.81
20:DU:97:ARG:NH2	20:DU:98:VAL:HB	1.95	0.81
7:DH:150:ALA:C	7:DH:152:ARG:H	1.77	0.81
11:AO:19:VAL:HG22	11:AO:20:GLY:N	1.95	0.81
55:DA:1142(A):A:HO2'	55:DA:1143:A:H3'	1.41	0.81
32:CE:183:PRO:HA	32:CE:198:ASP:OD1	1.79	0.81
12:AP:56:ARG:HH11	12:AP:56:ARG:HB2	1.46	0.81
38:BK:82:HIS:HD2	38:BK:138:TRP:NE1	1.78	0.81
26:D4:39:CYS:O	26:D4:41:PRO:HD3	1.80	0.81
54:CA:22:G:H2'	54:CA:23:C:C6	2.15	0.81
18:DS:9:TYR:H	18:DS:102:HIS:HD2	1.27	0.81
51:BX:26:LYS:NZ	51:BX:26:LYS:HA	1.95	0.81
55:DA:2790:A:H2	55:DA:2894:G:H5''	1.45	0.81
1:AA:363(A):A:H2'	1:AA:363(B):G:H5''	1.63	0.81
56:DI:21:LYS:HA	56:DI:24:ILE:HD12	1.63	0.81
56:DJ:7:ARG:HH11	56:DJ:7:ARG:HG2	1.43	0.81
58:DL:52:ILE:CG2	58:DL:75:SER:CB	2.40	0.81
55:DA:1084:A:H1'	57:DY:53:VAL:HG11	1.62	0.81
55:DA:897:C:C6	55:DA:897:C:P	2.74	0.81
21:DV:108:PRO:HG2	21:DV:110:GLY:H	1.45	0.81
1:AA:2311:A:H3'	1:AA:2312:U:C5	2.15	0.81
5:DF:32:LEU:CD1	5:DF:105:VAL:HG13	2.10	0.81
4:AE:36:ARG:HH21	4:AE:88:GLY:HA3	1.44	0.81
31:BA:1298:C:C5	37:BJ:114:ARG:HD2	2.16	0.81
32:BE:91:PRO:HG3	32:BE:154:LEU:HB2	1.60	0.81
1:AA:1496:A:H2'	1:AA:1498:C:C5	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:216:G:O2'	31:BA:217:C:H6	1.61	0.81
22:A3:7:LEU:HA	52:BC:2:C:H5'	1.60	0.81
58:DL:107:ILE:HG22	58:DL:108:ALA:H	1.43	0.81
57:DY:28:ASN:CG	57:DY:83:TYR:CE2	2.53	0.81
2:AB:81:G:C2	2:AB:82:G:N7	2.49	0.81
30:A8:14:VAL:HG11	30:A8:22:VAL:HG13	1.62	0.81
30:A8:48:PHE:O	30:A8:49:VAL:HG23	1.81	0.81
20:DU:47:LYS:HG2	20:DU:60:PHE:HE1	1.45	0.81
8:DK:110:ASP:HB2	8:DK:111:PRO:C	2.01	0.81
1:AA:1342:A:N7	1:AA:1345:C:C5	2.48	0.81
55:DA:654(R):C:H2'	55:DA:654(S):G:C8	2.15	0.81
42:CO:6:THR:H	42:CO:9:GLN:HE21	1.26	0.81
31:BA:738:C:H5''	36:BI:69:GLU:HB2	1.62	0.81
3:DD:135:PHE:HD2	3:DD:135:PHE:N	1.79	0.81
57:DY:54:ALA:CB	57:DY:57:THR:HB	2.10	0.81
54:CA:1502:A:H2	54:CA:1505:G:N1	1.79	0.81
53:C1:52:U:C2'	53:C1:53:U:H5''	2.11	0.81
7:DH:4:ILE:HG13	7:DH:6:ARG:CZ	2.10	0.81
1:AA:84:A:H61	1:AA:102:G:C2'	1.94	0.81
38:BK:103:VAL:HG21	38:BK:110:ALA:HB2	1.60	0.81
5:DF:7:TYR:HB3	5:DF:21:ALA:CB	2.11	0.81
48:BU:41:LYS:HD3	48:BU:41:LYS:O	1.80	0.81
8:AK:75:LEU:HD22	8:AK:77:LEU:HD22	1.63	0.81
1:AA:1771:C:HO2'	1:AA:1786:A:H8	1.27	0.81
55:DA:1079:C:O2'	58:DL:129:GLY:HA2	1.81	0.81
58:DL:113:PRO:O	58:DL:114:ASP:CB	2.28	0.81
1:AA:2402:C:H5	1:AA:2415:G:H22	1.29	0.81
21:DV:176:PRO:O	21:DV:178:GLU:HG2	1.80	0.81
20:DU:84:ARG:HH12	20:DU:97:ARG:HA	1.44	0.81
9:DM:58:ASP:H	9:DM:60:ILE:HD13	1.46	0.81
3:AD:65:ILE:HD12	3:AD:66:ASP:N	1.96	0.81
55:DA:442:G:H21	5:DF:48:THR:HG23	1.43	0.81
1:AA:1083:U:H1'	1:AA:1086:A:N6	1.95	0.81
23:AZ:82:LEU:HD23	23:AZ:82:LEU:H	1.46	0.81
9:AM:125:GLY:HA3	9:AM:126:PRO:O	1.80	0.81
11:AO:112:LEU:HD22	11:AO:113:LYS:N	1.95	0.81
33:BF:155:GLY:O	33:BF:156:ARG:HB2	1.81	0.81
54:CA:22:G:H2'	54:CA:23:C:H6	1.44	0.81
54:CA:164:U:H2'	54:CA:165:C:C6	2.16	0.81
49:CV:81:ARG:HG3	49:CV:82:GLY:H	1.46	0.81
36:BI:37:VAL:HA	36:BI:65:VAL:HG12	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:73:ALA:HB3	18:AS:106:ILE:HG12	1.62	0.81
35:CH:153:LYS:HE3	35:CH:155:GLU:HB3	1.62	0.81
54:CA:232:G:H2'	54:CA:233:C:H6	1.46	0.81
49:BV:51:VAL:O	49:BV:58:VAL:HG22	1.81	0.81
28:A6:15:GLU:OE2	28:A6:41:PRO:HB3	1.81	0.81
21:DV:105:VAL:HG12	21:DV:140:ASP:HB3	1.61	0.81
21:DV:112:ARG:N	21:DV:112:ARG:HD2	1.95	0.81
4:DE:9:VAL:HB	4:DE:25:VAL:HG23	1.62	0.81
17:D2:15:GLU:HG3	17:D2:16:PRO:HD2	1.60	0.81
47:CT:67:LYS:HA	47:CT:70:ARG:NH1	1.95	0.81
1:AA:322:A:H5''	5:AF:169:ASN:ND2	1.95	0.81
43:CP:108:ARG:HD2	43:CP:108:ARG:H	1.45	0.81
55:DA:70:G:H2'	55:DA:113:G:O2'	1.80	0.81
45:CR:4:THR:OG1	45:CR:7:GLU:HB2	1.80	0.81
3:AD:142:VAL:HG23	3:AD:193:VAL:HA	1.62	0.81
56:DI:21:LYS:O	56:DI:26:ALA:HB3	1.79	0.80
55:DA:1372:U:C4'	55:DA:1372:U:C6	2.57	0.80
22:A3:32:ARG:H	22:A3:35:ASN:HD21	1.24	0.80
1:AA:2789:C:H2'	1:AA:2790:A:H5''	1.62	0.80
17:D2:16:PRO:HB3	17:D2:99:ILE:HD11	1.63	0.80
31:BA:1007:C:C2'	31:BA:1008:C:H5''	2.11	0.80
5:AF:10:PRO:HD2	5:AF:13:SER:OG	1.81	0.80
3:AD:65:ILE:HD11	3:AD:67:PHE:CD2	2.15	0.80
37:BJ:115:ARG:O	37:BJ:118:VAL:HG22	1.80	0.80
31:BA:216:G:HO2'	31:BA:217:C:H6	0.82	0.80
55:DA:1063:G:C1'	58:DL:134:MET:HE1	2.11	0.80
55:DA:1080:A:H2'	55:DA:1081:U:O4'	1.81	0.80
3:DD:35:LYS:HZ1	3:DD:104:TYR:HB2	1.46	0.80
49:CV:41:VAL:HG21	49:CV:67:VAL:HG22	1.62	0.80
54:CA:57:G:H2'	54:CA:58:C:C6	2.16	0.80
11:DO:64:LYS:O	11:DO:66:GLY:N	2.15	0.80
7:DH:152:ARG:HG3	7:DH:153:LYS:CE	2.10	0.80
20:AU:63:LYS:HZ2	20:AU:64:GLU:N	1.79	0.80
5:AF:22:ALA:C	5:AF:24:LEU:H	1.83	0.80
55:DA:1212:G:O2'	55:DA:1213:A:OP2	1.99	0.80
31:BA:1160:G:H1	31:BA:1177:G:H21	1.25	0.80
1:AA:1652:A:H62	13:A0:11:ASN:HD21	1.27	0.80
31:BA:968:A:H4'	31:BA:969:A:OP2	1.80	0.80
58:DL:21:PRO:CG	58:DL:24:GLY:HA3	2.10	0.80
58:DL:93:ARG:HH11	58:DL:135:GLY:HA2	1.42	0.80
9:DM:7:LYS:HD2	9:DM:7:LYS:H	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BL:10:ARG:HH21	39:BL:11:LYS:HB2	1.44	0.80
31:BA:192:U:O4'	50:BW:103:GLY:HA2	1.82	0.80
33:CF:116:VAL:HG21	33:CF:202:ILE:HD11	1.61	0.80
31:BA:559:A:H4'	31:BA:560:U:H5''	1.60	0.80
54:CA:31:G:N2	54:CA:47:C:H5''	1.97	0.80
55:DA:1077:A:C3'	55:DA:1078:U:C5'	2.51	0.80
58:DL:19:PRO:CA	58:DL:25:PRO:CD	2.59	0.80
21:AV:145:GLU:O	21:AV:146:ILE:CD1	2.29	0.80
2:AB:40:U:N3	26:A4:1:MET:SD	2.55	0.80
49:CV:44:MET:HA	49:CV:47:HIS:HD2	1.47	0.80
9:AM:39:ARG:HH21	9:AM:41:ASP:CB	1.93	0.80
4:AE:52:LEU:O	4:AE:74:PRO:HA	1.80	0.80
33:CF:73:PRO:O	33:CF:76:VAL:HG22	1.82	0.80
52:BD:16:U:O2	52:BD:18:G:H5'	1.81	0.80
54:CA:1178:G:H5'	39:CL:93:ARG:NH2	1.96	0.80
20:AU:61:ILE:HG22	20:AU:62:GLU:N	1.94	0.80
1:AA:686:G:N2	1:AA:788:A:H61	1.80	0.80
44:CQ:2:ALA:O	44:CQ:6:LEU:HD12	1.81	0.80
55:DA:1673:U:C2'	55:DA:1674:G:H5'	2.12	0.80
43:CP:14:ARG:HA	43:CP:44:ARG:HA	1.61	0.80
1:AA:976:C:H5'	1:AA:1156:A:N6	1.97	0.80
34:BG:176:LEU:HD12	34:BG:177:ASP:H	1.45	0.80
54:CA:617:G:H4'	46:CS:44:THR:HB	1.63	0.80
56:DJ:18:LEU:CA	56:DJ:21:LYS:HB2	2.10	0.80
21:AV:103:ARG:O	21:AV:104:PHE:HB2	1.81	0.80
43:CP:124:PRO:HB3	43:CP:125:ARG:HG2	0.83	0.80
44:CQ:39:LEU:HB3	44:CQ:43:CYS:HB2	1.64	0.80
1:AA:2893:G:C5'	1:AA:2894:G:H5'	2.03	0.80
55:DA:1020:A:N1	55:DA:1141:U:H2'	1.97	0.80
52:CD:16:U:H2'	52:CD:17:C:H5'	1.62	0.80
21:AV:60:GLU:O	21:AV:61:LEU:HB2	1.81	0.80
31:BA:518:C:H4'	31:BA:519:C:O5'	1.80	0.80
31:BA:533:A:O2'	31:BA:534:U:H5'	1.81	0.80
50:BW:68:LYS:HD2	50:BW:69:GLY:N	1.96	0.80
34:BG:110:PHE:H	34:BG:110:PHE:HD1	1.30	0.80
1:AA:49:A:H4'	1:AA:50:U:H5'	1.63	0.80
5:AF:66:PRO:O	5:AF:67:GLN:HB3	1.79	0.80
56:DJ:5:ILE:C	56:DJ:7:ARG:H	1.84	0.80
57:DY:21:GLN:HA	57:DY:21:GLN:NE2	1.96	0.80
57:DY:21:GLN:NE2	57:DY:22:GLY:N	2.05	0.80
57:DY:74:LEU:HD13	57:DY:74:LEU:C	2.00	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BV:40:ILE:HG23	49:BV:67:VAL:HA	1.63	0.80
1:AA:945:A:C4'	1:AA:946:G:OP1	2.30	0.80
54:CA:73:G:H21	54:CA:74:C:H41	1.30	0.80
54:CA:1028:C:C2'	54:CA:1028(A):C:H5''	2.10	0.80
3:AD:35:LYS:HD3	3:AD:63:ARG:CB	2.12	0.80
35:BH:148:VAL:HG21	38:BK:107:LEU:HD22	1.64	0.80
31:BA:531:U:H4'	31:BA:532:A:OP1	1.80	0.80
2:AB:7:G:C3'	2:AB:8:U:H5''	2.12	0.80
10:DN:113:LYS:O	10:DN:116:SER:HB3	1.81	0.80
11:AO:124:LYS:NZ	11:AO:143:GLY:HA3	1.96	0.80
1:AA:1164:G:H2'	1:AA:1165:U:C6	2.16	0.80
1:AA:363(F):A:H5'	1:AA:364:C:OP1	1.80	0.80
56:DJ:5:ILE:HG22	56:DJ:9:LYS:CB	2.11	0.80
58:DL:42:ASN:O	58:DL:46:ALA:HB2	1.80	0.80
58:DL:51:ALA:O	58:DL:52:ILE:CG1	2.30	0.80
21:DV:196:VAL:O	21:DV:197:ILE:HG13	1.82	0.80
55:DA:897:C:H2'	55:DA:898:C:O4'	1.81	0.80
21:DV:112:ARG:NH1	21:DV:112:ARG:HG3	1.92	0.80
9:DM:8:GLN:O	9:DM:9:VAL:HG22	1.81	0.80
54:CA:1126:U:OP2	54:CA:1281:U:H1'	1.81	0.80
8:DK:88:ILE:HG12	8:DK:122:GLU:H	1.47	0.80
52:CD:72:C:C2'	52:CD:73:A:H5''	2.11	0.80
31:BA:973:G:H3'	31:BA:974:A:H5''	1.62	0.80
55:DA:1734:C:C2'	55:DA:1735:C:H5''	2.11	0.80
56:DI:24:ILE:O	56:DI:27:LEU:N	2.15	0.80
56:DJ:15:ALA:O	56:DJ:16:THR:CG2	2.30	0.80
43:CP:126:LYS:O	43:CP:126:LYS:HG2	1.79	0.80
1:AA:2348:U:H2'	1:AA:2349:G:H5''	1.63	0.80
1:AA:943:U:OP2	11:AO:36:LYS:HG3	1.80	0.80
1:AA:955:C:H5'	1:AA:956:G:OP2	1.82	0.80
55:DA:1899:G:H21	55:DA:1902:C:H5	1.26	0.80
6:AG:108:ASN:HA	26:A4:38:LYS:HB2	1.64	0.80
44:CQ:40:CYS:H	44:CQ:43:CYS:HB2	1.44	0.80
23:AZ:89:GLU:HA	23:AZ:93:GLU:HG3	1.62	0.80
54:CA:77:C:C2'	54:CA:78:G:H5''	2.11	0.80
15:DR:111:ARG:O	15:DR:112:ARG:HG3	1.81	0.80
12:DP:104:PHE:HE1	12:DP:125:LEU:HD11	1.47	0.80
11:AO:83:VAL:HG12	11:AO:112:LEU:HD21	1.64	0.80
1:AA:1310:G:OP2	29:A7:9:ARG:NH1	2.14	0.80
1:AA:614:U:H4'	1:AA:615:G:H5''	1.62	0.80
31:BA:1072:G:H2'	31:BA:1073:U:H6	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1071:G:H4'	55:DA:1089:G:OP2	1.82	0.80
55:DA:1078:U:O2'	55:DA:1079:C:H5''	1.82	0.80
56:DJ:10:GLU:CD	56:DJ:19:GLU:OE2	2.19	0.80
56:DJ:5:ILE:HG22	56:DJ:9:LYS:HG3	1.63	0.80
58:DL:8:VAL:O	58:DL:57:ILE:CB	2.30	0.80
58:DL:65:PHE:C	58:DL:65:PHE:CD2	2.54	0.80
57:DY:122:VAL:HA	57:DY:126:ALA:CB	2.11	0.80
57:DY:135:ARG:HB2	56:DJ:19:GLU:OE1	1.80	0.80
57:DY:58:LEU:N	57:DY:58:LEU:HD23	1.95	0.80
1:AA:387:U:O2'	1:AA:388:G:P	2.39	0.80
21:DV:152:ALA:HB1	21:DV:163:LEU:CD2	2.11	0.80
28:D6:9:LEU:HD22	28:D6:11:LEU:HD22	1.63	0.80
55:DA:654(L):G:C2	55:DA:654(M):C:H1'	2.16	0.80
55:DA:1165:U:H2'	55:DA:1166:C:C6	2.16	0.80
42:BO:59:ARG:HD3	42:BO:65:GLU:HG3	1.63	0.80
54:CA:1536:C:H1'	53:C1:37:G:N2	1.96	0.80
33:BF:15:THR:HG21	33:BF:181:ASN:HA	1.63	0.80
31:BA:631:G:O3'	31:BA:632:A:H8	1.65	0.80
11:DO:50:ARG:HH21	11:DO:50:ARG:CB	1.94	0.80
2:AB:15:A:H3'	2:AB:16:G:H5'	1.61	0.80
33:CF:59:ARG:HH12	33:CF:97:LYS:HE3	1.47	0.80
25:AX:8:LEU:HD13	25:AX:31:LEU:HD12	1.64	0.80
54:CA:1117:G:H4'	39:CL:104:ARG:NH2	1.97	0.80
1:AA:2815:C:H2'	1:AA:2816:C:H6	1.46	0.80
55:DA:1056:G:H1'	55:DA:1086:A:O4'	1.82	0.80
55:DA:1077:A:N3	55:DA:1078:U:H5''	1.96	0.80
57:DY:112:LEU:CD1	57:DY:121:ASP:OD2	2.29	0.80
57:DY:23:SER:O	57:DY:24:PHE:HB3	1.81	0.80
55:DA:1899:G:N2	55:DA:1902:C:C5	2.50	0.80
26:A4:9:LEU:HD21	26:A4:25:TYR:HB3	1.60	0.80
39:CL:83:ARG:O	39:CL:86:VAL:HG12	1.80	0.80
1:AA:2012:G:O3'	18:AS:96:ILE:HG13	1.80	0.80
31:BA:1067:A:HO2'	31:BA:1068:G:H8	1.29	0.80
55:DA:2127:G:H3'	55:DA:2128:C:H5''	1.63	0.80
51:BX:25:LYS:HG2	51:BX:26:LYS:HG2	1.64	0.80
3:DD:176:ARG:HG2	3:DD:176:ARG:HH11	1.47	0.80
1:AA:1149:G:H2'	1:AA:1150:C:H6	1.44	0.80
58:DL:25:PRO:CA	58:DL:27:LEU:HG	2.11	0.79
57:DY:5:ARG:O	57:DY:7:VAL:HG12	1.82	0.79
8:AK:143:SER:O	8:AK:144:VAL:HG23	1.81	0.79
1:AA:387:U:H5	1:AA:387:U:OP2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2529:G:H5'	1:AA:2530:A:C5'	2.11	0.79
6:DG:112:PRO:HB3	26:D4:37:SER:N	1.97	0.79
16:D1:92:ARG:HB3	17:D2:11:GLN:HE22	1.44	0.79
31:BA:794:A:C2	31:BA:795:C:N3	2.49	0.79
20:AU:94:LYS:CD	20:AU:101:LYS:HZ3	1.95	0.79
1:AA:654(Q):C:H2'	1:AA:654(R):C:C6	2.16	0.79
1:AA:141:A:H8	1:AA:1595:G:H21	1.27	0.79
1:AA:1826:G:H4'	3:AD:242:ARG:NH2	1.96	0.79
8:AK:131:LYS:HB3	8:AK:132:PRO:CA	2.11	0.79
17:A2:24:LYS:HA	17:A2:92:THR:OG1	1.82	0.79
1:AA:1645:G:H5''	1:AA:1646:C:H5'	1.64	0.79
54:CA:486:U:H2'	54:CA:487:A:H8	1.46	0.79
14:AQ:88:ASP:O	14:AQ:89:ARG:HB3	1.81	0.79
1:AA:1074:G:H2'	1:AA:1075:C:C6	2.17	0.79
1:AA:449:A:H4'	16:A1:3:ARG:NH1	1.96	0.79
1:AA:445:C:H2'	1:AA:446:G:O4'	1.82	0.79
57:DY:50:ARG:CG	57:DY:51:LEU:N	2.36	0.79
21:AV:144:LEU:CD1	21:AV:144:LEU:O	2.30	0.79
31:BA:1343:G:H2'	31:BA:1344:C:C6	2.16	0.79
1:AA:1372:U:O5'	1:AA:1372:U:C6	2.36	0.79
25:AX:52:HIS:CD2	25:AX:52:HIS:H	1.99	0.79
31:BA:1002:G:H2'	31:BA:1003:G:C8	2.18	0.79
27:D5:20:ARG:HA	27:D5:23:HIS:ND1	1.96	0.79
31:BA:1374:A:H2'	31:BA:1375:A:H5'	1.64	0.79
6:DG:145:THR:O	6:DG:146:TYR:HB3	1.81	0.79
8:DK:64:GLU:HG3	8:DK:67:ARG:NH2	1.97	0.79
55:DA:1044:G:C2'	55:DA:1045:A:H5''	2.12	0.79
6:AG:16:ARG:HH11	6:AG:16:ARG:HG2	1.47	0.79
25:DX:38:GLU:HB3	25:DX:40:THR:HG23	1.62	0.79
16:A1:66:ASN:O	16:A1:70:ARG:HG2	1.81	0.79
43:BP:27:LYS:HE2	43:BP:31:LYS:HE3	1.62	0.79
1:AA:999:U:C2'	1:AA:1000:A:H5''	2.12	0.79
56:DI:24:ILE:CA	56:DI:27:LEU:HD13	2.12	0.79
57:DY:71:LEU:CB	57:DY:113:GLN:CB	2.26	0.79
57:DY:89:ALA:N	57:DY:92:THR:HB	1.97	0.79
1:AA:893:C:H2'	1:AA:894:C:C5	2.16	0.79
1:AA:893:C:H2'	1:AA:894:C:H6	1.43	0.79
55:DA:1301:A:C2'	55:DA:1302:A:H3'	2.12	0.79
54:CA:1004:A:P	54:CA:1025:U:O4	2.40	0.79
34:CG:30:LYS:C	34:CG:32:ALA:H	1.86	0.79
55:DA:2068:U:H3	55:DA:2430:A:H2	1.29	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1072:G:H2'	31:BA:1073:U:C6	2.16	0.79
58:DL:86:LYS:CE	58:DL:86:LYS:HA	2.10	0.79
57:DY:48:GLY:C	57:DY:84:GLU:HB2	2.02	0.79
57:DY:49:ALA:C	57:DY:83:TYR:HD1	1.86	0.79
49:BV:19:VAL:CG1	49:BV:44:MET:HB3	2.11	0.79
15:AR:16:ARG:HH21	15:AR:19:LEU:CD2	1.93	0.79
40:BM:22:LYS:HD2	40:BM:26:ALA:HB2	1.63	0.79
54:CA:971:G:H5''	54:CA:972:C:H5''	1.64	0.79
1:AA:1405:U:H2'	1:AA:1406:U:C6	2.18	0.79
32:CE:47:THR:O	32:CE:51:LEU:HG	1.82	0.79
16:D1:108:GLU:HG3	17:D2:44:LYS:HE3	1.64	0.79
1:AA:1827:C:C2'	1:AA:1828:G:H5'	2.13	0.79
52:CD:71:G:H1'	55:DA:1851:U:O2'	1.81	0.79
31:BA:585:G:H4'	42:BO:8:ASN:HD21	1.48	0.79
3:DD:108:PRO:HB3	3:DD:143:HIS:CE1	2.17	0.79
12:AP:57:HIS:HE1	12:AP:113:GLN:HE21	1.27	0.79
1:AA:1149:G:H2'	1:AA:1150:C:C6	2.17	0.79
6:DG:60:LEU:O	6:DG:64:THR:HG22	1.82	0.79
7:AH:89:ILE:HD11	7:AH:129:THR:HB	1.65	0.79
54:CA:141:A:H1'	54:CA:182:U:O2	1.83	0.79
55:DA:2044:C:H6	55:DA:2044:C:H5'	1.47	0.79
56:DJ:11:GLU:CA	56:DJ:17:VAL:HG11	2.12	0.79
58:DL:7:VAL:HG11	58:DL:58:THR:H	1.45	0.79
57:DY:16:ASN:HD21	57:DY:25:PHE:HZ	0.90	0.79
1:AA:959:A:N6	12:AP:82:ARG:HH22	1.79	0.79
54:CA:629:G:C5'	54:CA:630:G:OP2	2.30	0.79
16:A1:58:ARG:HA	16:A1:61:TRP:CE3	2.18	0.79
4:AE:53:PRO:HG2	4:AE:54:GLN:H	1.48	0.79
7:DH:98:LEU:HD12	7:DH:102:ALA:O	1.82	0.79
1:AA:1543:A:H1'	1:AA:1545:A:O4'	1.82	0.79
4:DE:95:ILE:H	4:DE:95:ILE:HD12	1.47	0.79
31:BA:274:A:O2'	31:BA:275:G:C8	2.34	0.79
1:AA:1885:A:H5'	1:AA:1886:C:OP2	1.82	0.79
1:AA:2447:G:O2'	1:AA:2448:A:OP2	2.00	0.79
39:CL:47:LEU:HD22	39:CL:47:LEU:H	1.47	0.79
1:AA:2557:G:H2'	1:AA:2558:C:H6	1.48	0.79
31:BA:1513:A:H2'	31:BA:1514:C:C6	2.18	0.79
55:DA:141:A:H8	55:DA:1595:G:H21	1.29	0.79
58:DL:21:PRO:HB2	58:DL:22:PRO:CD	2.12	0.79
57:DY:50:ARG:N	57:DY:83:TYR:CD1	2.50	0.79
21:DV:116:VAL:HG12	21:DV:118:GLN:HG2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DK:128:LEU:HD13	8:DK:129:THR:N	1.97	0.79
52:BB:74:C:C2'	52:BB:75:C:H5''	2.13	0.79
39:BL:77:ILE:O	39:BL:81:ILE:HG12	1.82	0.79
1:AA:2749:A:H62	1:AA:2750:A:N6	1.81	0.79
1:AA:2758:A:C2'	1:AA:2759:G:H5''	2.12	0.79
55:DA:518:G:H4'	18:DS:18:ARG:NH1	1.98	0.79
12:AP:22:LYS:HD2	12:AP:22:LYS:N	1.98	0.79
54:CA:353:A:H5'	54:CA:353:A:H8	1.47	0.79
32:BE:82:ARG:HD2	32:BE:92:TYR:HE1	1.46	0.79
1:AA:1496:A:H8	1:AA:1577:C:HO2'	1.26	0.79
1:AA:1947:C:H2'	1:AA:1948:G:H5''	1.62	0.79
38:CK:60:ARG:HG3	38:CK:60:ARG:HH11	1.47	0.79
9:AM:112:LEU:HD23	9:AM:113:GLY:N	1.96	0.79
40:CM:34:VAL:HG22	40:CM:74:ILE:HG22	1.65	0.79
13:A0:49:ASP:OD1	13:A0:95:THR:HG22	1.82	0.79
58:DL:50:ASP:CG	58:DL:51:ALA:H	1.86	0.79
57:DY:40:LEU:HD21	57:DY:50:ARG:NH1	1.95	0.79
21:AV:115:GLY:CA	21:AV:177:PRO:CG	2.34	0.79
43:CP:125:ARG:HD3	43:CP:126:LYS:H	1.46	0.79
12:AP:127:ILE:HG22	12:AP:128:LYS:H	1.46	0.79
12:AP:38:GLU:HB2	12:AP:127:ILE:HG23	1.64	0.79
32:CE:7:VAL:HG21	32:CE:217:ARG:CZ	2.12	0.79
30:A8:48:PHE:O	30:A8:49:VAL:CG2	2.30	0.79
4:DE:7:VAL:HG22	4:DE:27:LEU:HD23	1.63	0.79
21:DV:170:THR:O	21:DV:171:ILE:HB	1.83	0.79
21:DV:127:LYS:O	21:DV:161:VAL:HB	1.82	0.79
31:BA:1128:C:H2'	31:BA:1139:G:O6	1.83	0.79
31:BA:1028:C:C2'	31:BA:1028(A):C:H5''	2.12	0.79
16:D1:88:ILE:HD13	16:D1:88:ILE:H	1.48	0.79
8:AK:97:ILE:O	8:AK:101:LEU:HD23	1.83	0.79
55:DA:1209:G:H21	55:DA:1210:A:H62	1.31	0.79
55:DA:1174:A:N7	55:DA:1175:U:H1'	1.97	0.79
55:DA:1510:A:OP1	55:DA:1511:A:H5''	1.83	0.79
2:AB:50:G:OP1	14:AQ:63:THR:HG23	1.82	0.79
4:AE:116:VAL:O	4:AE:117:MET:HB3	1.80	0.79
9:AM:111:PRO:HA	9:AM:114:ARG:NH1	1.97	0.79
8:DK:40:THR:HG22	8:DK:42:SER:H	1.48	0.79
55:DA:1251:C:HO2'	55:DA:1252:G:H3'	1.46	0.79
52:BB:2:C:H2'	52:BB:3:C:C6	2.18	0.79
54:CA:1135:U:H4'	54:CA:1136:U:H5	1.47	0.79
21:AV:175:VAL:CG1	21:AV:176:PRO:N	2.43	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:973:G:H1'	40:CM:55:LYS:CE	2.12	0.79
21:DV:119:GLU:HG3	21:DV:119:GLU:O	1.82	0.79
21:DV:154:ASP:O	21:DV:155:LEU:O	2.01	0.79
7:AH:4:ILE:HB	7:AH:6:ARG:CZ	2.12	0.79
11:AO:75:ILE:N	11:AO:75:ILE:HD13	1.98	0.79
8:AK:101:LEU:HG	8:AK:109:ILE:HD12	1.64	0.79
21:AV:5:LEU:HD23	21:AV:47:VAL:HG21	1.64	0.79
55:DA:654(Q):C:H2'	55:DA:654(R):C:C6	2.17	0.79
54:CA:1152:A:H5''	40:CM:13:HIS:HD2	1.48	0.79
31:BA:652:U:H1'	31:BA:653:A:C2	2.17	0.79
54:CA:429:U:H1'	54:CA:430:A:H5''	1.64	0.79
54:CA:1296:C:H5'	54:CA:1297:C:OP2	1.83	0.79
40:CM:46:ARG:HG2	40:CM:64:GLU:HB3	1.63	0.79
57:DY:127:GLU:CG	57:DY:128:LEU:N	2.45	0.79
55:DA:1360:A:N6	55:DA:1372:U:O4	2.16	0.79
12:DP:60:ARG:CZ	21:DV:181:GLU:OE1	2.31	0.79
3:DD:35:LYS:HB3	3:DD:63:ARG:HA	1.65	0.79
1:AA:242:G:H5''	30:A8:62:LEU:CD1	2.08	0.79
52:BD:8:U:H2'	52:BD:13:C:H41	1.44	0.79
52:CD:45:U:H5'	52:CD:46:G:OP1	1.83	0.79
16:D1:92:ARG:HH11	16:D1:95:LEU:CD1	1.94	0.79
1:AA:1019:U:H3	1:AA:1142(A):A:H62	1.30	0.79
10:AN:113:LYS:O	10:AN:117:LEU:HD23	1.83	0.79
8:DK:74:ASN:HD22	8:DK:74:ASN:H	1.31	0.79
52:CC:36:A:H8	52:CC:36:A:H5'	1.48	0.79
31:BA:653:A:H1'	38:BK:56:LYS:HE2	1.64	0.79
49:CV:81:ARG:CG	49:CV:82:GLY:N	2.46	0.79
1:AA:1885:A:H3'	1:AA:1886:C:H6	1.48	0.79
31:BA:820:U:H4'	31:BA:821:G:OP2	1.83	0.79
10:DN:23:ARG:HG3	10:DN:24:VAL:H	1.46	0.79
55:DA:363(F):A:H4'	55:DA:364:C:O5'	1.82	0.79
45:BR:87:ILE:HG22	45:BR:88:ARG:H	1.46	0.79
1:AA:2729:G:H1'	4:AE:187:ALA:HB2	1.63	0.79
3:AD:176:ARG:HG2	3:AD:176:ARG:HH11	1.47	0.79
31:BA:980:C:H5'	31:BA:981:U:OP2	1.82	0.79
4:AE:176:ILE:HB	4:AE:181:LEU:HB2	1.65	0.79
58:DL:109:LYS:HA	58:DL:120:LEU:HD21	1.64	0.79
57:DY:73:GLY:C	57:DY:119:ALA:HA	2.03	0.79
49:BV:42:PRO:HA	49:BV:45:VAL:HG13	1.64	0.79
1:AA:1899:G:H21	1:AA:1902:C:H5	1.31	0.79
16:A1:95:LEU:C	16:A1:97:ASP:N	2.35	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BG:31:CYS:C	34:BG:33:MET:H	1.84	0.79
7:DH:152:ARG:O	7:DH:153:LYS:HD2	1.83	0.79
17:D2:35:LEU:HB2	17:D2:37:VAL:CG2	2.13	0.79
20:AU:43:ASN:N	20:AU:43:ASN:HD22	1.81	0.79
1:AA:2392:A:H2	1:AA:2424:C:N4	1.79	0.79
1:AA:654(L):G:C2	1:AA:654(M):C:H1'	2.18	0.79
34:CG:58:LEU:O	34:CG:62:GLN:HG2	1.83	0.79
3:AD:131:LEU:HD13	3:AD:136:ILE:HD11	1.65	0.79
15:DR:6:LEU:HA	15:DR:9:LEU:HB2	1.64	0.79
31:BA:149:A:H2'	31:BA:150:C:H6	1.48	0.79
43:BP:90:LEU:HD13	49:BV:78:ARG:HH21	1.48	0.79
57:DY:136:ALA:O	57:DY:139:VAL:HB	1.83	0.78
57:DY:84:GLU:HA	57:DY:84:GLU:OE1	1.80	0.78
31:BA:1014:A:C2	31:BA:1219:U:H1'	2.16	0.78
43:BP:83:ASP:OD1	43:BP:84:ILE:HD13	1.83	0.78
21:DV:111:VAL:CG2	21:DV:146:ILE:H	1.95	0.78
3:DD:142:VAL:HG23	3:DD:193:VAL:HA	1.64	0.78
30:A8:16:ILE:HB	30:A8:65:GLU:HA	1.65	0.78
8:AK:141:LYS:O	8:AK:142:VAL:HB	1.82	0.78
16:A1:79:PHE:HE2	16:A1:83:LEU:HD13	1.45	0.78
1:AA:1967:C:H2'	1:AA:1968:G:H5'	1.64	0.78
55:DA:654(K):C:H2'	55:DA:654(L):G:H8	1.48	0.78
14:DQ:5:THR:OG1	14:DQ:8:GLU:HG3	1.83	0.78
55:DA:33:U:O4	55:DA:446:G:O2'	2.01	0.78
55:DA:2475:C:H2'	55:DA:2475:C:O2	1.83	0.78
34:CG:28:SER:HB3	34:CG:29:PRO:HD2	1.63	0.78
55:DA:1598:C:H5'	19:DT:36:LYS:HB2	1.64	0.78
54:CA:452:A:H4'	46:CS:72:ARG:NH2	1.97	0.78
1:AA:1869:G:H5'	1:AA:1870:C:OP2	1.82	0.78
51:BX:18:TYR:HB3	51:BX:22:ARG:O	1.83	0.78
58:DL:52:ILE:CD1	58:DL:76:TYR:N	2.46	0.78
58:DL:7:VAL:HG11	58:DL:58:THR:CA	2.12	0.78
58:DL:83:GLY:H	58:DL:99:ILE:HG21	1.48	0.78
57:DY:32:LEU:CB	57:DY:33:PRO:HD3	2.14	0.78
1:AA:881:G:H2'	52:BB:19:G:C6	2.18	0.78
43:BP:79:LYS:HD3	43:BP:79:LYS:O	1.83	0.78
12:AP:11:LYS:HE2	12:AP:85:LYS:HG2	1.64	0.78
8:AK:82:ARG:HE	54:CA:56:U:H4'	1.48	0.78
28:D6:27:LYS:NZ	28:D6:27:LYS:HB2	1.98	0.78
1:AA:458:G:C2'	1:AA:459:U:OP2	2.31	0.78
17:A2:69:LYS:HD3	17:A2:85:LYS:CD	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:DO:75:ILE:N	11:DO:75:ILE:HD13	1.96	0.78
21:DV:61:LEU:HD11	21:DV:65:GLN:CG	2.12	0.78
16:D1:92:ARG:HB3	17:D2:11:GLN:NE2	1.99	0.78
31:BA:794:A:H2'	31:BA:795:C:C6	2.18	0.78
55:DA:1699:G:O3'	55:DA:1700:A:H4'	1.84	0.78
38:CK:102:ARG:NH1	38:CK:105:ARG:HH22	1.78	0.78
8:DK:61:ARG:HA	8:DK:61:ARG:NE	1.97	0.78
22:A3:24:LYS:O	22:A3:25:ARG:HD2	1.83	0.78
31:BA:632:A:O2'	31:BA:633:G:OP2	2.02	0.78
8:AK:6:LEU:HD13	8:AK:36:ALA:HA	1.64	0.78
54:CA:197:A:H4'	54:CA:198:G:O5'	1.83	0.78
48:CU:54:ARG:HH11	48:CU:54:ARG:HB3	1.47	0.78
54:CA:920:U:H2'	54:CA:921:U:C6	2.18	0.78
1:AA:273(F):C:H3'	1:AA:274:G:H5''	1.65	0.78
4:AE:23:VAL:HA	4:AE:184:VAL:O	1.83	0.78
6:AG:135:LEU:HD23	6:AG:140:ILE:HD11	1.64	0.78
1:AA:2893:G:H5'	1:AA:2894:G:C5'	2.03	0.78
31:BA:244:U:O4	31:BA:906:G:H1'	1.84	0.78
23:AZ:92:LYS:NZ	23:AZ:92:LYS:HB3	1.98	0.78
1:AA:27:G:O2'	1:AA:28:A:H8	1.66	0.78
31:BA:737:A:H2'	31:BA:738:C:C6	2.18	0.78
1:AA:1947:C:C2'	1:AA:1948:G:H5''	2.13	0.78
1:AA:1731:G:H2'	1:AA:1732:A:H5'	1.63	0.78
55:DA:2392:A:H2	55:DA:2424:C:H42	1.32	0.78
44:BQ:29:ARG:HG2	44:BQ:40:CYS:HB2	1.65	0.78
56:DI:1:MET:O	56:DI:5:ILE:HD13	1.84	0.78
58:DL:10:LEU:O	58:DL:23:VAL:HG13	1.82	0.78
55:DA:1083:U:H4'	57:DY:41:ARG:HD3	1.65	0.78
57:DY:72:ASP:O	57:DY:112:LEU:HD21	1.83	0.78
1:AA:895:U:C2'	1:AA:895:U:O2	2.31	0.78
21:AV:140:ASP:O	21:AV:141:VAL:HB	1.84	0.78
26:A4:53:GLU:HG3	26:A4:54:GLY:N	1.98	0.78
1:AA:946:G:N2	1:AA:971:C:O2	2.15	0.78
21:DV:111:VAL:HG23	21:DV:146:ILE:H	1.46	0.78
1:AA:242:G:C5'	30:A8:62:LEU:HD13	2.07	0.78
8:AK:79:ILE:HB	8:AK:142:VAL:CG1	2.06	0.78
40:CM:48:THR:CA	40:CM:62:HIS:HB3	2.14	0.78
52:BD:23:A:H2'	52:BD:24:G:H8	1.48	0.78
5:DF:66:PRO:O	5:DF:67:GLN:CB	2.31	0.78
29:A7:47:ARG:N	29:A7:47:ARG:HH11	1.81	0.78
21:DV:10:ARG:HH21	21:DV:26:GLY:H	1.30	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1443:G:H3'	54:CA:1446:A:H5''	1.64	0.78
55:DA:1044:G:H2'	55:DA:1045:A:H5''	1.65	0.78
10:DN:75:SER:HB2	15:DR:74:ARG:HH12	1.47	0.78
15:AR:55:ASN:H	15:AR:59:THR:HB	1.46	0.78
1:AA:1171:G:O2'	1:AA:1173:G:O5'	2.01	0.78
55:DA:1084:A:OP1	57:DY:50:ARG:HD2	1.83	0.78
56:DI:3:LEU:HD23	56:DI:4:ASP:N	1.97	0.78
57:DY:136:ALA:HA	56:DJ:6:GLU:OE2	1.82	0.78
58:DL:86:LYS:O	58:DL:88:ALA:N	2.16	0.78
21:DV:191:VAL:CG2	21:DV:197:ILE:HG12	2.14	0.78
1:AA:951:C:O2'	1:AA:952:G:H5'	1.82	0.78
6:AG:61:ALA:HB2	6:AG:68:PRO:HD3	1.65	0.78
21:DV:150:LEU:C	21:DV:151:HIS:ND1	2.37	0.78
55:DA:747:U:O2	55:DA:2014:A:H1'	1.84	0.78
37:BJ:12:LEU:H	37:BJ:12:LEU:HD12	1.48	0.78
55:DA:2159:G:H2'	55:DA:2160:G:H8	1.45	0.78
1:AA:1312:U:HO2'	1:AA:1314:C:H5	1.30	0.78
39:BL:46:ALA:O	39:BL:49:PRO:HD2	1.84	0.78
55:DA:1826:G:H4'	3:DD:242:ARG:NH2	1.99	0.78
22:D3:11:ARG:HB2	22:D3:11:ARG:HH11	1.47	0.78
5:DF:31:HIS:HB2	11:DO:9:ASN:HD21	1.47	0.78
55:DA:2092:U:H4'	55:DA:2093:G:O5'	1.83	0.78
55:DA:205:G:O2'	55:DA:206:U:OP2	2.02	0.78
21:AV:144:LEU:CG	21:AV:144:LEU:O	2.30	0.78
1:AA:1378:A:O2'	1:AA:1379:A:C5'	2.30	0.78
11:DO:65:ARG:HB2	11:DO:65:ARG:HH11	1.47	0.78
32:CE:178:ARG:HH11	32:CE:178:ARG:CB	1.95	0.78
54:CA:1128:C:H4'	39:CL:16:ARG:HH12	1.48	0.78
20:AU:20:TYR:O	20:AU:22:GLY:N	2.15	0.78
31:BA:696:A:C2'	31:BA:697:U:H5''	2.12	0.78
6:DG:6:ALA:HB3	26:D4:23:GLU:HG3	1.65	0.78
15:DR:107:ASP:O	15:DR:110:ILE:HG22	1.83	0.78
9:AM:55:VAL:HB	9:AM:126:PRO:HB3	1.65	0.78
17:A2:22:VAL:HG22	17:A2:23:GLU:H	1.49	0.78
1:AA:2134:A:H62	1:AA:2157:G:H1'	1.49	0.78
1:AA:1496:A:H8	1:AA:1577:C:O2'	1.66	0.78
34:BG:61:LYS:NZ	34:BG:62:GLN:HE21	1.81	0.78
54:CA:1211:U:H5'	54:CA:1212:U:OP1	1.82	0.78
31:BA:186(B):C:H2'	31:BA:186(C):G:C8	2.19	0.78
10:DN:34:THR:HG22	10:DN:37:ASP:OD2	1.84	0.78
52:BC:43:C:H6	52:BC:43:C:H5'	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CO:20:LYS:H	42:CO:20:LYS:HD3	1.48	0.78
9:AM:120:LEU:HD21	9:AM:122:VAL:HG23	1.64	0.78
57:DY:135:ARG:HH21	56:DJ:18:LEU:HD13	1.49	0.78
55:DA:897:C:OP1	55:DA:897:C:C5	2.36	0.78
49:CV:41:VAL:HA	49:CV:44:MET:HG3	1.66	0.78
30:A8:62:LEU:CB	30:A8:63:PRO:HD3	2.14	0.78
8:DK:133:HIS:HB2	8:DK:134:PRO:HD2	1.66	0.78
52:BD:8:U:H4'	52:BD:9:A:OP1	1.83	0.78
13:D0:117:VAL:HG22	13:D0:118:GLU:N	1.94	0.78
42:BO:41:ARG:NH1	42:BO:41:ARG:HB3	1.98	0.78
26:D4:16:CYS:SG	26:D4:18:CYS:N	2.56	0.78
32:BE:88:ALA:HA	32:BE:226:ARG:HH12	1.48	0.78
55:DA:649:G:H2'	55:DA:650:C:C6	2.18	0.78
36:CI:97:PHE:HD2	48:CU:31:LEU:HD21	1.49	0.78
49:CV:2:PRO:O	49:CV:3:ARG:O	2.01	0.78
56:DI:24:ILE:HA	56:DI:27:LEU:CD1	2.14	0.78
57:DY:27:VAL:CG2	57:DY:80:VAL:HG11	2.14	0.78
49:BV:62:ILE:HA	49:BV:66:MET:HE1	1.65	0.78
12:AP:4:PRO:HB2	12:AP:10:ARG:HH22	1.48	0.78
31:BA:411:A:C5	31:BA:413:G:H1'	2.19	0.78
22:D3:32:ARG:N	22:D3:35:ASN:HD21	1.76	0.78
32:CE:14:GLY:O	32:CE:15:VAL:HG13	1.83	0.78
55:DA:654(C):G:H3'	55:DA:654(D):G:H8	1.49	0.78
13:A0:74:LYS:HE2	13:A0:77:ARG:HH21	1.48	0.78
55:DA:1434:A:H61	55:DA:1558:A:H62	1.27	0.78
10:DN:68:GLU:HB3	10:DN:78:ARG:HH11	1.48	0.78
31:BA:1302:U:H5''	31:BA:1303:C:OP2	1.84	0.78
55:DA:2562:U:H1'	10:DN:23:ARG:NH1	1.96	0.78
34:BG:139:ARG:HH11	34:BG:139:ARG:HG3	1.48	0.78
54:CA:60:A:H4'	54:CA:61:G:O5'	1.84	0.78
1:AA:2820:A:C6	4:AE:191:PRO:HB2	2.18	0.78
58:DL:54:PRO:HD2	58:DL:72:PRO:CA	2.13	0.78
57:DY:11:ALA:HB1	57:DY:52:PHE:HE1	1.49	0.78
21:DV:192:ALA:C	21:DV:194:PRO:CD	2.51	0.78
28:A6:36:LEU:HA	28:A6:50:ARG:HB3	1.65	0.78
32:CE:18:GLY:N	32:CE:42:ILE:HG22	1.98	0.78
13:D0:96:ARG:NH2	13:D0:117:VAL:HG23	1.99	0.78
55:DA:2760:C:H2'	55:DA:2761:G:C5'	2.13	0.78
1:AA:1024:G:C3'	1:AA:1025:G:H5''	2.13	0.78
20:AU:47:LYS:HA	20:AU:60:PHE:HB3	1.64	0.78
11:DO:106:LEU:O	11:DO:107:LYS:HB2	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:251:G:N1	31:BA:266:G:O6	2.17	0.78
1:AA:607:U:O4	1:AA:608:A:N7	2.16	0.78
55:DA:860:U:C5	55:DA:917:A:C2	2.72	0.78
54:CA:1321:C:H5''	54:CA:1322:C:H5''	1.65	0.78
31:BA:503:C:OP2	42:BO:116:SER:HB3	1.84	0.78
1:AA:1944:U:H1'	1:AA:1955:U:O4'	1.83	0.78
55:DA:1846:G:H5'	55:DA:1847:A:OP2	1.84	0.78
54:CA:644:G:H4'	38:CK:92:ARG:HH21	1.49	0.78
37:BJ:100:ALA:O	37:BJ:104:LEU:HD23	1.84	0.78
55:DA:2898:U:H2'	55:DA:2899:G:H8	1.49	0.78
58:DL:19:PRO:HD3	58:DL:38:VAL:HG11	1.66	0.78
28:D6:20:ASN:CG	28:D6:21:TYR:H	1.87	0.78
1:AA:2306:C:H3'	1:AA:2307:G:C5'	2.13	0.78
31:BA:1281:U:O2'	31:BA:1282:C:OP1	2.02	0.78
50:CW:43:LEU:HA	50:CW:46:GLU:HB3	1.65	0.78
8:DK:76:THR:HG23	8:DK:139:GLN:NE2	1.99	0.78
7:AH:92:ILE:HD13	7:AH:160:LYS:HD3	1.66	0.78
13:A0:38:VAL:HB	13:A0:39:PRO:HD3	1.65	0.78
8:DK:11:ASN:O	8:DK:12:LEU:HB2	1.82	0.78
8:AK:88:ILE:HG22	8:AK:89:TYR:N	1.96	0.78
6:AG:115:ARG:NH1	6:AG:115:ARG:HB3	1.99	0.78
12:AP:106:VAL:HG22	12:AP:118:LEU:HD21	1.65	0.78
8:DK:99:GLU:HG2	8:DK:103:ARG:NH2	1.98	0.78
55:DA:5:A:O2'	55:DA:6:A:H5'	1.83	0.78
31:BA:734:G:H21	48:BU:75:ILE:HD11	1.48	0.78
14:AQ:5:THR:OG1	14:AQ:8:GLU:HG3	1.83	0.78
4:AE:8:LYS:HG2	4:AE:192:ASN:ND2	1.98	0.77
55:DA:1077:A:H4'	58:DL:93:ARG:NH2	1.98	0.77
57:DY:138:LEU:CD2	56:DJ:22:GLN:OE1	2.31	0.77
21:DV:191:VAL:HG12	21:DV:197:ILE:HG23	1.63	0.77
11:AO:64:LYS:C	11:AO:66:GLY:H	1.85	0.77
11:AO:71:VAL:CG1	11:AO:72:PRO:HD3	2.13	0.77
54:CA:792:A:C2'	54:CA:794:A:N6	2.28	0.77
3:AD:239:ARG:O	3:AD:240:ALA:HB2	1.83	0.77
52:BD:8:U:H2'	52:BD:13:C:N4	1.98	0.77
37:BJ:84:ASN:HB2	52:BD:37:MIA:H163	1.65	0.77
55:DA:803:U:H5'	55:DA:803:U:C6	2.18	0.77
1:AA:637:A:OP2	11:AO:115:LEU:HD22	1.83	0.77
36:BI:79:LEU:O	36:BI:85:VAL:HG11	1.83	0.77
54:CA:438:G:H4'	34:CG:123:HIS:CE1	2.18	0.77
36:BI:91:VAL:HG11	48:BU:72:ARG:NH1	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BF:86:VAL:O	33:BF:90:GLU:HG2	1.84	0.77
49:CV:26:GLY:O	49:CV:27:GLU:HG3	1.84	0.77
34:CG:129:ASN:CA	34:CG:145:GLU:HB2	2.14	0.77
1:AA:2406:U:H5''	1:AA:2408:U:OP2	1.84	0.77
1:AA:196:A:H2'	1:AA:805:G:O6	1.83	0.77
54:CA:1053:G:C5'	54:CA:1054:C:H5'	2.14	0.77
54:CA:1363:A:H4'	54:CA:1364:U:C5'	2.15	0.77
28:D6:11:LEU:HD23	28:D6:26:ASN:HB3	1.65	0.77
30:D8:23:VAL:CG1	30:D8:46:ARG:HB3	2.13	0.77
1:AA:1045:A:C2'	1:AA:1046:A:H5''	2.14	0.77
1:AA:566:U:OP1	11:AO:29:LYS:HE2	1.85	0.77
31:BA:1529:G:H5'	31:BA:1530:G:OP2	1.83	0.77
55:DA:2113:U:H5'	55:DA:2114:A:C8	2.19	0.77
54:CA:255:G:H4'	47:CT:17:LYS:HD3	1.65	0.77
1:AA:1827:C:H2'	1:AA:1828:G:H5'	1.66	0.77
4:AE:201:THR:O	4:AE:202:LYS:HD3	1.84	0.77
11:AO:106:LEU:HD11	11:AO:112:LEU:HD23	1.65	0.77
54:CA:452:A:H62	54:CA:480:U:H3	1.30	0.77
33:BF:77:ILE:HA	33:BF:84:ILE:HB	1.65	0.77
5:AF:132:VAL:HG22	5:AF:133:ASN:H	1.49	0.77
16:D1:69:CYS:HB2	16:D1:74:LEU:HD11	1.65	0.77
55:DA:2340:G:O2'	55:DA:2341:G:H5'	1.83	0.77
56:DI:21:LYS:O	56:DI:22:GLN:C	2.21	0.77
57:DY:24:PHE:CD2	57:DY:25:PHE:N	2.53	0.77
49:CV:41:VAL:CB	49:CV:42:PRO:HA	2.09	0.77
1:AA:1045:A:H2'	1:AA:1046:A:H5''	1.66	0.77
1:AA:1047:G:H2'	1:AA:1110:G:H22	1.48	0.77
55:DA:2159:G:H2'	55:DA:2160:G:C8	2.19	0.77
55:DA:1169:G:C2'	55:DA:1170:G:H5''	2.13	0.77
54:CA:438:G:H4'	34:CG:123:HIS:ND1	1.98	0.77
31:BA:818:G:H3'	31:BA:819:A:H5'	1.66	0.77
1:AA:1434:A:H61	1:AA:1558:A:N6	1.80	0.77
17:D2:62:LEU:HD11	17:D2:95:LEU:HB2	1.66	0.77
38:CK:69:ARG:HD3	38:CK:75:ARG:O	1.85	0.77
39:CL:13:ALA:HB2	39:CL:68:GLY:HA3	1.67	0.77
57:DY:72:ASP:C	57:DY:112:LEU:HG	2.05	0.77
21:DV:186:GLU:O	21:DV:187:ALA:HB3	1.85	0.77
21:DV:194:PRO:CG	21:DV:196:VAL:CG1	2.60	0.77
21:DV:177:PRO:O	21:DV:178:GLU:HB3	1.82	0.77
40:CM:54:PHE:O	40:CM:55:LYS:HG3	1.83	0.77
31:BA:792:A:C8	31:BA:794:A:N6	2.52	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2061:G:H5''	55:DA:2503:A:N1	1.99	0.77
4:AE:200:GLU:HG2	4:AE:201:THR:N	1.98	0.77
40:CM:49:VAL:O	40:CM:60:ARG:HB3	1.84	0.77
1:AA:2557:G:H2'	1:AA:2558:C:C6	2.18	0.77
16:D1:66:ASN:O	16:D1:70:ARG:HB2	1.84	0.77
2:DB:52:A:H62	14:DQ:33:LYS:HG3	1.49	0.77
55:DA:2055:C:H5'	55:DA:2056:G:OP1	1.85	0.77
23:DZ:94:LEU:HD23	23:DZ:94:LEU:O	1.85	0.77
56:DJ:24:ILE:HG22	56:DJ:25:ASP:N	1.98	0.77
57:DY:132:ASP:OD2	56:DJ:10:GLU:OE2	2.03	0.77
55:DA:1359:A:C4'	55:DA:1359:A:C8	2.67	0.77
2:AB:87:G:H3'	2:AB:88:C:C5'	2.13	0.77
21:DV:114:GLY:HA2	21:DV:179:ASP:OD1	1.84	0.77
40:BM:4:ILE:HA	40:BM:100:THR:HG22	1.67	0.77
31:BA:1006:C:H2'	31:BA:1007:C:C6	2.19	0.77
1:AA:1252:G:O2'	1:AA:1253:A:O4'	2.00	0.77
20:AU:50:ARG:HB3	20:AU:53:PRO:HG3	1.64	0.77
1:AA:1673:U:H2'	1:AA:1674:G:H5'	1.64	0.77
31:BA:827:U:H3	31:BA:872:A:H62	1.33	0.77
46:CS:21:VAL:HG23	46:CS:33:ILE:HB	1.64	0.77
1:AA:1061:U:H4'	1:AA:1070:A:O2'	1.85	0.77
55:DA:671:C:O2'	55:DA:672:C:H5'	1.84	0.77
54:CA:1322:C:O2'	54:CA:1323:G:H5'	1.85	0.77
55:DA:2795:G:H3'	55:DA:2797:U:H5''	1.64	0.77
20:AU:12:THR:CG2	20:AU:26:LYS:HE2	2.14	0.77
10:DN:4:PRO:O	10:DN:5:GLN:HB2	1.84	0.77
15:DR:60:THR:HG22	15:DR:77:PRO:HA	1.66	0.77
55:DA:1066:U:H2'	55:DA:1068:G:OP2	1.84	0.77
58:DL:77:LEU:H	58:DL:77:LEU:HD12	1.49	0.77
1:AA:2394:C:H42	52:BD:76:A:H8	1.31	0.77
15:DR:3:ARG:HG3	15:DR:7:ILE:HG12	1.67	0.77
55:DA:1179:C:H2'	55:DA:1180:C:C5'	2.15	0.77
21:DV:128:VAL:HG22	21:DV:129:SER:H	1.50	0.77
46:CS:45:THR:HG22	46:CS:47:ASP:N	1.99	0.77
1:AA:329:G:O6	20:AU:19:LYS:HG2	1.85	0.77
1:AA:2426:A:H4'	1:AA:2427:C:OP2	1.85	0.77
55:DA:2645:G:H4'	55:DA:2732:G:O2'	1.84	0.77
55:DA:582:G:H2'	55:DA:583:G:H8	1.50	0.77
55:DA:2752:C:H6	55:DA:2752:C:OP2	1.66	0.77
54:CA:826:C:H5'	38:CK:12:ARG:HH21	1.49	0.77
1:AA:922:U:H2'	1:AA:923:C:C6	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2854:G:H2'	55:DA:2855:C:H6	1.50	0.77
58:DL:58:THR:HG21	58:DL:66:THR:OG1	1.85	0.77
57:DY:127:GLU:HG3	57:DY:128:LEU:N	1.98	0.77
57:DY:22:GLY:O	57:DY:23:SER:HB3	1.84	0.77
57:DY:25:PHE:C	57:DY:82:PHE:CZ	2.58	0.77
57:DY:49:ALA:N	57:DY:84:GLU:O	2.17	0.77
21:AV:109:ALA:O	21:AV:145:GLU:HB2	1.85	0.77
44:BQ:14:PRO:HG2	44:BQ:15:LYS:H	1.49	0.77
55:DA:1359:A:H5'	55:DA:1359:A:C8	2.19	0.77
6:AG:104:GLU:HG2	26:A4:23:GLU:CG	2.15	0.77
4:DE:65:GLY:HA2	4:DE:70:ALA:HB3	1.67	0.77
11:DO:66:GLY:HA2	11:DO:68:GLN:HE22	1.50	0.77
1:AA:481:G:H1'	1:AA:506:G:N2	1.98	0.77
32:BE:48:MET:HA	32:BE:51:LEU:HD12	1.67	0.77
1:AA:673:C:H5'	5:AF:54:ARG:NH1	2.00	0.77
17:A2:22:VAL:HG22	17:A2:23:GLU:N	2.00	0.77
20:DU:88:LYS:HB3	20:DU:90:LEU:HD23	1.64	0.77
43:BP:13:LYS:HA	43:BP:44:ARG:HH11	1.50	0.77
10:AN:53:LYS:O	10:AN:56:ASP:HB2	1.83	0.77
57:DY:87:VAL:O	57:DY:88:ALA:O	2.02	0.77
1:AA:895:U:H4'	1:AA:896:A:C8	2.18	0.77
1:AA:946:G:C2'	1:AA:947:G:O5'	2.32	0.77
12:AP:42:ILE:H	12:AP:42:ILE:CD1	1.98	0.77
54:CA:789:U:C4	54:CA:792:A:OP2	2.36	0.77
4:AE:78:LEU:N	4:AE:78:LEU:HD23	2.00	0.77
31:BA:1126:U:H3	31:BA:1281:U:C1'	1.98	0.77
21:AV:61:LEU:HB3	21:AV:62:PRO:CD	2.11	0.77
1:AA:2784:C:H4'	4:AE:41:LYS:O	1.85	0.77
21:AV:120:ILE:O	21:AV:171:ILE:HA	1.84	0.77
55:DA:34:C:O2'	55:DA:35:G:P	2.43	0.77
55:DA:1111:A:H5'	7:DH:3:ARG:HH11	1.49	0.77
33:CF:11:ARG:HB3	33:CF:15:THR:HB	1.66	0.77
55:DA:2173:A:H3'	55:DA:2174:C:H6	1.50	0.77
1:AA:2127:G:C3'	1:AA:2128:C:H5''	2.15	0.77
32:BE:82:ARG:HD2	32:BE:92:TYR:CE1	2.20	0.77
34:BG:108:LEU:HB3	34:BG:110:PHE:CE1	2.19	0.77
33:CF:91:LEU:HB2	33:CF:99:VAL:HG21	1.66	0.77
32:CE:33:TYR:HB2	32:CE:43:ASP:HB2	1.67	0.77
8:DK:72:LEU:HD11	8:DK:101:LEU:HD11	1.66	0.77
56:DI:20:LEU:O	56:DI:24:ILE:CG2	2.32	0.77
55:DA:1077:A:C2	58:DL:133:SER:HB3	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:15:GLU:O	57:DY:16:ASN:HB3	1.82	0.77
21:DV:197:ILE:N	21:DV:197:ILE:HD12	2.00	0.77
28:A6:41:PRO:HD3	28:A6:47:THR:HG22	1.67	0.77
23:DZ:91:LYS:HG3	23:DZ:92:LYS:H	1.50	0.77
20:DU:40:GLU:HA	20:DU:64:GLU:OE1	1.84	0.77
1:AA:1341:U:C5'	19:AT:57:LEU:HD22	2.14	0.77
49:CV:31:ILE:CG2	49:CV:49:ILE:HA	2.14	0.77
7:AH:35:VAL:HG11	7:AH:71:LEU:HG	1.66	0.77
1:AA:1140:C:H1'	1:AA:1143:A:N7	2.00	0.77
50:CW:49:ALA:HB2	50:CW:99:LEU:HD23	1.67	0.77
35:BH:76:ILE:HG23	35:BH:142:LEU:HD13	1.66	0.77
2:DB:81:G:O6	2:DB:96:G:C5	2.37	0.77
36:CI:99:ALA:HB1	48:CU:23:LYS:NZ	2.00	0.77
3:DD:135:PHE:CD2	3:DD:135:PHE:N	2.51	0.77
1:AA:2729:G:H1'	4:AE:187:ALA:CB	2.14	0.77
54:CA:537:G:H5''	42:CO:113:ARG:NH1	2.00	0.77
19:DT:3:THR:HA	19:DT:6:ASP:OD2	1.83	0.77
13:D0:79:LEU:HA	13:D0:83:ILE:HG13	1.66	0.77
55:DA:1403:C:H5''	55:DA:1471:A:H1'	1.67	0.77
56:DI:9:LYS:O	56:DI:11:GLU:CA	2.32	0.77
58:DL:95:LYS:CB	58:DL:136:VAL:HG21	2.14	0.77
21:AV:176:PRO:N	21:AV:177:PRO:CD	2.36	0.77
55:DA:1359:A:H8	55:DA:1359:A:C5'	1.98	0.77
30:A8:34:TRP:CD1	30:A8:35:GLN:N	2.53	0.77
20:DU:42:VAL:HB	20:DU:67:LEU:HD11	1.67	0.77
4:DE:67:PHE:O	4:DE:69:LYS:N	2.16	0.77
17:A2:78:LYS:O	17:A2:79:VAL:HG13	1.85	0.77
17:A2:80:GLN:CA	17:A2:80:GLN:NE2	2.30	0.77
39:BL:65:VAL:CG2	39:BL:66:ARG:H	1.97	0.77
46:CS:20:VAL:HG21	46:CS:32:TYR:CG	2.20	0.77
11:AO:97:PRO:HD3	11:AO:126:VAL:O	1.85	0.77
55:DA:2296:U:H4'	55:DA:2297:C:OP1	1.84	0.77
43:CP:14:ARG:HG2	43:CP:16:ASP:OD2	1.84	0.77
40:CM:4:ILE:HB	40:CM:74:ILE:HG12	1.67	0.77
55:DA:2425:A:H4'	55:DA:2426:A:O5'	1.83	0.77
10:DN:2:ILE:HD11	10:DN:82:ASN:HD22	1.48	0.77
49:CV:7:LYS:CB	49:CV:7:LYS:NZ	2.45	0.77
58:DL:52:ILE:HD12	58:DL:72:PRO:O	1.85	0.76
57:DY:28:ASN:CG	57:DY:83:TYR:HE2	1.88	0.76
26:D4:69:LYS:HD3	26:D4:70:GLY:H	1.51	0.76
4:DE:50:GLY:CA	4:DE:77:ILE:HA	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1026:U:O2'	55:DA:1027:A:C5'	2.31	0.76
50:CW:97:ALA:O	50:CW:99:LEU:HD22	1.83	0.76
2:DB:20:C:H2'	2:DB:21:G:C5'	2.15	0.76
48:BU:22:VAL:C	48:BU:24:ALA:H	1.89	0.76
3:AD:70:TRP:CD1	3:AD:70:TRP:C	2.58	0.76
27:A5:40:LYS:HZ2	27:A5:46:CYS:H	1.33	0.76
11:DO:38:GLN:H	11:DO:41:ARG:HG2	1.50	0.76
55:DA:2789:C:H2'	55:DA:2790:A:H5''	1.66	0.76
40:CM:75:ILE:HG13	40:CM:76:ASN:H	1.50	0.76
32:CE:132:LYS:HA	32:CE:135:GLN:HB2	1.66	0.76
28:A6:31:PRO:HB2	28:A6:33:LYS:HG2	1.66	0.76
55:DA:2887:U:H2'	55:DA:2888:C:C6	2.19	0.76
26:D4:12:ALA:HB1	26:D4:30:GLU:H	1.49	0.76
12:AP:29:PHE:HB2	12:AP:65:PHE:CE2	2.20	0.76
32:CE:52:GLU:HG2	32:CE:56:ARG:HH12	1.50	0.76
58:DL:122:ALA:O	58:DL:126:MET:SD	2.43	0.76
58:DL:19:PRO:HA	58:DL:25:PRO:HD3	1.68	0.76
58:DL:64:SER:O	58:DL:65:PHE:HB3	1.85	0.76
57:DY:122:VAL:HG12	57:DY:126:ALA:HB2	1.67	0.76
57:DY:139:VAL:HG23	56:DJ:6:GLU:OE2	1.84	0.76
21:AV:145:GLU:OE1	21:AV:145:GLU:CA	2.30	0.76
21:DV:178:GLU:OE1	21:DV:180:VAL:HA	1.84	0.76
55:DA:1178:C:H2'	55:DA:1179:C:H6	1.50	0.76
1:AA:2518:A:H5''	1:AA:2519:U:OP2	1.85	0.76
34:CG:175:SER:HB2	34:CG:186:LEU:HD11	1.67	0.76
24:AW:50:ILE:CD1	24:AW:51:ARG:H	1.98	0.76
1:AA:260:G:H1'	1:AA:621:A:C8	2.19	0.76
1:AA:2784:C:H1'	4:AE:37:ARG:HH22	1.48	0.76
54:CA:1347:G:N2	54:CA:1373:G:H2'	2.01	0.76
42:BO:8:ASN:O	42:BO:12:ARG:HG3	1.84	0.76
33:CF:16:ARG:NH1	33:CF:16:ARG:HB2	2.00	0.76
2:DB:81:G:O6	2:DB:96:G:C6	2.37	0.76
1:AA:1944:U:H5''	1:AA:1945:G:OP2	1.84	0.76
1:AA:1460:A:H5''	1:AA:1461:G:OP2	1.84	0.76
54:CA:498:A:H4'	54:CA:500:G:OP1	1.85	0.76
56:DJ:10:GLU:O	56:DJ:17:VAL:HG12	1.84	0.76
58:DL:138:VAL:HG12	58:DL:139:VAL:N	1.98	0.76
58:DL:49:GLY:HA3	58:DL:50:ASP:HB3	1.65	0.76
58:DL:52:ILE:HD11	58:DL:76:TYR:N	2.00	0.76
57:DY:18:GLU:CG	57:DY:66:LEU:CD1	2.63	0.76
57:DY:87:VAL:CG1	57:DY:91:LYS:HG3	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:DV:107:THR:OG1	21:DV:108:PRO:HD3	1.85	0.76
1:AA:1344:G:H4'	1:AA:1384:A:C5	2.20	0.76
34:BG:26:CYS:HA	34:BG:31:CYS:CB	2.16	0.76
1:AA:1225:C:O3'	17:A2:85:LYS:HB2	1.85	0.76
6:DG:112:PRO:HB3	26:D4:37:SER:HB2	1.65	0.76
32:BE:21:ARG:HH21	32:BE:38:GLY:HA3	1.50	0.76
3:AD:35:LYS:HD2	3:AD:104:TYR:CE1	2.20	0.76
3:AD:64:ILE:O	3:AD:64:ILE:HG12	1.85	0.76
1:AA:1267:U:O4	1:AA:2012:G:N3	2.18	0.76
1:AA:1266:G:O2'	1:AA:2012:G:O6	2.03	0.76
4:AE:130:GLY:O	4:AE:131:ALA:CB	2.34	0.76
54:CA:96:G:C2'	54:CA:97:U:H5'	2.14	0.76
31:BA:498:A:O2'	31:BA:500:G:O5'	2.04	0.76
32:BE:22:LYS:HZ2	32:BE:22:LYS:H	1.29	0.76
3:DD:121:PRO:HB3	3:DD:135:PHE:HE1	1.50	0.76
54:CA:274:A:H4'	54:CA:275:G:O5'	1.84	0.76
19:AT:65:ARG:HB3	19:AT:70:LEU:HA	1.68	0.76
57:DY:115:GLN:HG3	57:DY:115:GLN:O	1.83	0.76
56:DI:7:ARG:HD3	56:DI:8:ILE:HG12	1.67	0.76
56:DJ:21:LYS:O	56:DJ:24:ILE:HB	1.84	0.76
58:DL:102:GLU:HG2	58:DL:103:GLN:HG2	1.66	0.76
57:DY:58:LEU:HA	57:DY:62:ALA:HB2	1.67	0.76
1:AA:896:A:H2	21:AV:178:GLU:OE2	1.67	0.76
21:AV:141:VAL:HG21	21:AV:144:LEU:CD2	2.14	0.76
21:DV:196:VAL:C	21:DV:197:ILE:CG1	2.52	0.76
21:DV:191:VAL:CG1	21:DV:197:ILE:HG12	2.07	0.76
1:AA:888:C:O2'	1:AA:889:C:P	2.44	0.76
55:DA:2787:C:O2'	4:DE:61:ARG:HD3	1.86	0.76
55:DA:1180:C:H2'	55:DA:1181:C:H5'	1.68	0.76
31:BA:495:A:H4'	31:BA:496:A:O5'	1.84	0.76
33:BF:152:ILE:HB	33:BF:199:LYS:HB2	1.65	0.76
31:BA:1152:A:H5''	40:BM:13:HIS:HB2	1.68	0.76
19:AT:35:THR:HG22	19:AT:37:THR:H	1.49	0.76
55:DA:229:A:H4'	55:DA:229:A:OP1	1.84	0.76
24:AW:47:ASN:O	24:AW:49:LYS:N	2.19	0.76
53:C1:34:G:H2'	53:C1:35:A:H8	1.50	0.76
33:BF:42:LEU:HA	33:BF:45:LYS:HD2	1.67	0.76
12:AP:21:THR:HG21	12:AP:100:GLY:HA3	1.65	0.76
31:BA:701:C:H1'	31:BA:703:G:C2	2.20	0.76
1:AA:614:U:H5''	1:AA:615:G:OP1	1.86	0.76
1:AA:999:U:H2'	1:AA:1000:A:H5''	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:173:U:H5''	54:CA:197:A:O4'	1.85	0.76
1:AA:1175:U:H2'	1:AA:1176:G:H4'	1.67	0.76
20:AU:28:LYS:HA	20:AU:28:LYS:HZ3	1.50	0.76
54:CA:677:U:H2'	54:CA:678:U:C6	2.21	0.76
32:CE:96:ARG:H	32:CE:96:ARG:HD2	1.51	0.76
38:BK:51:VAL:HG11	38:BK:60:ARG:HH11	1.50	0.76
58:DL:10:LEU:HD23	58:DL:10:LEU:N	2.00	0.76
58:DL:99:ILE:CG1	58:DL:138:VAL:HG21	2.14	0.76
21:DV:196:VAL:C	21:DV:197:ILE:HG13	2.06	0.76
49:BV:42:PRO:HA	49:BV:45:VAL:CG1	2.14	0.76
1:AA:2267:A:H5''	1:AA:2268:A:H5'	1.68	0.76
21:DV:183:LEU:O	21:DV:184:ALA:HB3	1.84	0.76
3:DD:25:THR:O	3:DD:27:THR:HG22	1.84	0.76
16:A1:98:LEU:C	16:A1:100:VAL:H	1.84	0.76
32:CE:178:ARG:HB2	32:CE:178:ARG:NH1	1.98	0.76
16:D1:60:LEU:HD22	16:D1:64:ARG:HG3	1.67	0.76
7:DH:152:ARG:NE	7:DH:153:LYS:HE3	1.99	0.76
7:DH:153:LYS:HG2	7:DH:162:ILE:H	1.49	0.76
31:BA:77:C:C2'	31:BA:78:G:H5''	2.13	0.76
55:DA:1698:A:O2'	55:DA:1699:G:H5''	1.86	0.76
55:DA:864:G:OP2	12:DP:22:LYS:HD3	1.85	0.76
1:AA:857:C:H5'	22:A3:77:ARG:NH2	2.00	0.76
32:BE:233:SER:HB2	32:BE:234:PRO:HD2	1.65	0.76
1:AA:2124:G:H2'	1:AA:2125:G:O4'	1.85	0.76
4:DE:117:MET:O	4:DE:118:LYS:HB2	1.86	0.76
4:AE:2:LYS:HD3	4:AE:95:ILE:HG22	1.65	0.76
57:DY:101:PRO:CG	57:DY:102:LYS:H	1.98	0.76
21:AV:115:GLY:N	21:AV:177:PRO:HB2	2.01	0.76
3:DD:131:LEU:N	3:DD:131:LEU:HD12	1.99	0.76
3:DD:25:THR:HG21	3:DD:82:ILE:H	1.51	0.76
49:CV:83:HIS:CD2	49:CV:84:GLY:H	2.03	0.76
8:DK:115:ALA:HB3	8:DK:128:LEU:CD1	2.06	0.76
32:CE:5:ILE:HG13	32:CE:221:LEU:CD2	2.15	0.76
6:DG:112:PRO:CB	26:D4:37:SER:HB2	2.15	0.76
35:BH:43:LEU:H	35:BH:65:ASN:ND2	1.84	0.76
20:AU:87:LYS:HB3	20:AU:92:ASN:CB	2.15	0.76
54:CA:191:G:C4	50:CW:105:SER:HB3	2.21	0.76
1:AA:2131:G:OP1	1:AA:2132:U:H3'	1.84	0.76
33:BF:162:GLN:HG2	53:B1:54:U:O2	1.84	0.76
7:DH:21:PRO:HG2	7:DH:22:GLY:H	1.48	0.76
5:AF:46:ARG:HG2	5:AF:46:ARG:HH11	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1829:A:N6	1:AA:1976:U:O2	2.18	0.76
55:DA:2128:C:H2'	55:DA:2129:C:C6	2.20	0.76
1:AA:1074:G:H2'	1:AA:1075:C:H6	1.51	0.76
55:DA:2723:C:OP1	13:D0:3:HIS:HD2	1.67	0.76
3:AD:148:GLU:HB2	3:AD:151:LYS:HD2	1.67	0.76
6:AG:121:ASN:HD22	6:AG:122:PRO:HD2	1.49	0.76
32:BE:165:VAL:HG23	32:BE:166:ASP:H	1.49	0.76
1:AA:2176:A:H2'	1:AA:2177:C:C6	2.20	0.76
1:AA:969:U:H2'	1:AA:970:C:C6	2.21	0.76
3:DD:172:TYR:HB3	3:DD:184:LYS:HG2	1.68	0.76
55:DA:1086:A:C5'	55:DA:1103:A:H61	1.99	0.76
57:DY:42:GLN:O	57:DY:44:LEU:N	2.17	0.76
57:DY:72:ASP:OD1	57:DY:74:LEU:CA	2.33	0.76
57:DY:91:LYS:HZ3	57:DY:95:GLN:NE2	1.84	0.76
1:AA:946:G:O2'	1:AA:947:G:O5'	2.03	0.76
42:CO:47:LYS:HB3	42:CO:48:PRO:CD	2.14	0.76
55:DA:898:C:H3'	55:DA:899:A:H5'	1.68	0.76
28:D6:34:LEU:HD13	28:D6:34:LEU:H	1.48	0.76
31:BA:1139:G:N2	31:BA:1143:G:N1	2.34	0.76
39:BL:4:TYR:HB2	39:BL:19:LEU:HB2	1.67	0.76
17:D2:98:GLU:C	17:D2:99:ILE:HD13	2.06	0.76
12:DP:74:TYR:CD2	12:DP:91:GLU:HG3	2.20	0.76
32:BE:12:GLU:HB2	32:BE:16:HIS:ND1	2.01	0.76
3:DD:121:PRO:HB3	3:DD:135:PHE:CE1	2.21	0.76
10:DN:7:TYR:HE1	10:DN:20:MET:HE3	1.50	0.76
54:CA:807:A:H2'	54:CA:808:C:C6	2.21	0.76
25:DX:19:GLN:HE22	25:DX:52:HIS:HE1	1.33	0.76
6:AG:146:TYR:O	6:AG:149:VAL:HG22	1.86	0.76
54:CA:1086:U:H3	54:CA:1099:G:H22	1.30	0.76
7:DH:10:PRO:O	7:DH:11:VAL:HG13	1.86	0.76
52:BB:60:U:H5'	52:BB:61:C:OP2	1.86	0.76
7:AH:43:VAL:HG12	7:AH:52:VAL:HG22	1.67	0.76
58:DL:11:GLN:HB3	58:DL:41:PHE:CZ	2.20	0.76
58:DL:119:ASP:O	58:DL:122:ALA:HB3	1.86	0.76
58:DL:93:ARG:HG2	58:DL:135:GLY:CA	2.14	0.76
57:DY:50:ARG:C	57:DY:51:LEU:CG	2.52	0.76
1:AA:2490:G:H5''	1:AA:2491:U:OP1	1.86	0.76
32:CE:213:LEU:HD21	32:CE:217:ARG:NH1	2.01	0.76
2:AB:40:U:H6	2:AB:40:U:O5'	1.68	0.76
1:AA:2787:C:O2'	4:AE:61:ARG:HB3	1.86	0.76
39:BL:40:LEU:HD11	39:BL:70:LYS:HG2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:DR:74:ARG:HG2	15:DR:74:ARG:HH11	1.51	0.76
27:A5:40:LYS:HZ2	27:A5:45:VAL:HA	1.50	0.76
3:AD:4:LYS:NZ	3:AD:20:ASP:HA	2.00	0.76
8:AK:4:ILE:HG12	8:AK:18:VAL:HG22	1.66	0.76
1:AA:1613:G:H1	1:AA:1617:C:H2'	1.50	0.76
58:DL:80:LYS:HE3	58:DL:103:GLN:HB3	1.68	0.76
57:DY:61:LEU:O	57:DY:63:LEU:N	2.19	0.76
57:DY:7:VAL:CG2	57:DY:8:GLU:H	1.68	0.76
12:AP:43:THR:OG1	12:AP:46:GLN:HG3	1.84	0.76
3:DD:124:PRO:HB2	3:DD:126:GLN:NE2	2.00	0.76
32:CE:212:GLN:HG2	32:CE:235:SER:HB2	1.67	0.76
12:DP:10:ARG:HB2	12:DP:89:ASN:HD21	1.50	0.76
31:BA:251:G:H4'	31:BA:252:U:O5'	1.84	0.76
8:AK:12:LEU:HG	8:AK:19:VAL:HG11	1.66	0.76
55:DA:582:G:H2'	55:DA:583:G:C8	2.21	0.76
19:DT:27:THR:HB	19:DT:80:ILE:HB	1.67	0.76
34:CG:33:MET:HE2	34:CG:37:PRO:HA	1.66	0.76
46:CS:28:ARG:HG2	46:CS:28:ARG:HH11	1.51	0.76
1:AA:1434:A:H61	1:AA:1558:A:H62	1.32	0.76
54:CA:1499:A:H1'	54:CA:1520:G:H5'	1.66	0.76
54:CA:160:A:H61	54:CA:347:G:H1'	1.49	0.76
6:AG:26:GLN:NE2	6:AG:27:ASN:HB2	2.01	0.76
55:DA:2102:U:H2'	55:DA:2103:C:C6	2.21	0.76
14:DQ:3:ARG:HG2	14:DQ:4:LEU:N	1.99	0.76
55:DA:1095:A:N3	55:DA:1095:A:H2'	2.01	0.76
39:BL:8:GLY:HA2	39:BL:79:LEU:HD12	1.67	0.76
55:DA:851:U:O2'	25:DX:45:GLY:HA3	1.86	0.76
55:DA:1062:G:H2'	55:DA:1063:G:H8	1.49	0.76
55:DA:1058:U:H1'	58:DL:115:LEU:HB2	1.68	0.76
58:DL:77:LEU:O	58:DL:80:LYS:HG3	1.86	0.76
57:DY:135:ARG:HA	57:DY:138:LEU:HB3	1.66	0.76
26:A4:12:ALA:HB3	26:A4:24:THR:HG21	1.67	0.76
31:BA:1268:A:H2'	31:BA:1269:A:C8	2.21	0.76
4:DE:197:ILE:HD11	4:DE:199:ARG:NH2	2.00	0.76
17:A2:41:GLY:HA3	17:A2:46:VAL:HG11	1.68	0.76
9:DM:115:ARG:CA	9:DM:118:LYS:HE3	2.15	0.76
45:CR:87:ILE:HG22	45:CR:88:ARG:N	1.98	0.76
55:DA:2468:G:O2'	55:DA:2469:A:P	2.43	0.76
54:CA:686:U:H2'	54:CA:687:A:C8	2.21	0.76
8:DK:64:GLU:O	8:DK:67:ARG:HB3	1.85	0.76
14:DQ:71:ARG:HA	14:DQ:104:GLY:O	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1280:G:H2'	1:AA:1281:G:H5'	1.68	0.76
1:AA:271(B):G:H4'	1:AA:271(C):U:C5'	2.16	0.76
36:CI:37:VAL:HG12	36:CI:38:GLU:H	1.50	0.76
8:DK:101:LEU:HD21	8:DK:107:VAL:HB	1.66	0.76
1:AA:222:A:O2'	1:AA:223:A:OP1	2.04	0.76
13:A0:63:ARG:HB2	13:A0:63:ARG:HH11	1.50	0.76
41:CN:34:ASP:HB3	41:CN:40:ILE:HD11	1.67	0.76
55:DA:1093:G:H4'	7:DH:170:ARG:HH21	1.50	0.75
58:DL:77:LEU:HB3	58:DL:107:ILE:CD1	2.16	0.75
31:BA:1305:G:H22	31:BA:1331:G:C2'	1.99	0.75
55:DA:1359:A:C5'	55:DA:1359:A:C8	2.69	0.75
54:CA:1053:G:N7	54:CA:1199:U:H3'	1.99	0.75
1:AA:1341:U:C4'	19:AT:57:LEU:HD22	2.16	0.75
1:AA:1225:C:H4'	17:A2:85:LYS:CB	2.16	0.75
9:DM:62:VAL:CG1	9:DM:66:LYS:HB2	2.16	0.75
38:BK:30:ARG:HH11	38:BK:30:ARG:CB	1.97	0.75
21:AV:163:LEU:CD2	21:AV:163:LEU:H	1.96	0.75
12:DP:87:LYS:O	12:DP:89:ASN:N	2.18	0.75
1:AA:1212:G:H2'	1:AA:1236:G:N2	2.01	0.75
10:AN:2:ILE:HD12	10:AN:6:THR:HG21	1.67	0.75
9:DM:134:ARG:H	9:DM:135:PRO:CD	1.97	0.75
48:BU:70:ILE:O	48:BU:74:ARG:HG3	1.85	0.75
31:BA:186(B):C:H2'	31:BA:186(C):G:H8	1.50	0.75
49:CV:7:LYS:HZ3	49:CV:7:LYS:CB	1.99	0.75
31:BA:741:G:H2'	31:BA:742:G:O4'	1.85	0.75
54:CA:280:C:H4'	54:CA:281:G:OP2	1.87	0.75
55:DA:654(I):C:O4'	55:DA:654(I):C:OP1	2.04	0.75
34:CG:170:VAL:HG22	34:CG:171:GLY:H	1.50	0.75
55:DA:1054:A:H2'	55:DA:1055:G:O4'	1.86	0.75
58:DL:20:ALA:CA	58:DL:25:PRO:HD2	2.14	0.75
57:DY:55:LYS:HD2	57:DY:79:ALA:CA	2.16	0.75
54:CA:1199:U:H4'	40:CM:54:PHE:CE1	2.20	0.75
17:A2:77:ALA:O	17:A2:79:VAL:HG22	1.86	0.75
7:DH:153:LYS:HG2	7:DH:162:ILE:HG13	1.69	0.75
1:AA:265:A:H2'	1:AA:266:G:O4'	1.87	0.75
21:AV:127:LYS:HB3	21:AV:162:GLU:CB	2.16	0.75
23:AZ:86:SER:N	23:AZ:87:PRO:CD	2.49	0.75
1:AA:654(S):G:H2'	1:AA:654(T):A:C8	2.21	0.75
55:DA:2308:G:N2	55:DA:2311:A:H2	1.85	0.75
8:AK:5:LEU:HD12	8:AK:5:LEU:H	1.49	0.75
30:D8:29:LYS:NZ	30:D8:44:LYS:HB2	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BU:23:LYS:HA	48:BU:26:LEU:HD11	1.67	0.75
14:AQ:26:LEU:O	14:AQ:26:LEU:HD23	1.86	0.75
54:CA:568:G:O6	42:CO:5:PRO:HD3	1.86	0.75
1:AA:2735:G:H22	1:AA:2770:G:H1'	1.52	0.75
34:BG:146:ILE:HD12	34:BG:146:ILE:N	2.01	0.75
18:DS:68:ARG:HH21	18:DS:112:GLY:HA3	1.49	0.75
56:DJ:18:LEU:O	56:DJ:19:GLU:C	2.22	0.75
58:DL:56:GLU:O	58:DL:57:ILE:HG22	1.86	0.75
58:DL:7:VAL:HG11	58:DL:57:ILE:CD1	2.12	0.75
57:DY:30:GLN:O	57:DY:31:GLY:O	2.04	0.75
21:AV:146:ILE:HG22	21:AV:147:GLY:N	2.00	0.75
28:A6:25:LYS:HA	30:A8:34:TRP:CZ3	2.22	0.75
54:CA:946:A:H2'	54:CA:947:G:C8	2.20	0.75
44:CQ:40:CYS:H	44:CQ:43:CYS:CB	2.00	0.75
8:DK:114:LEU:HD12	8:DK:128:LEU:HD12	1.68	0.75
4:AE:35:GLN:HG3	4:AE:64:LYS:NZ	2.01	0.75
7:DH:135:GLY:HA3	7:DH:141:VAL:HG22	1.69	0.75
55:DA:2712:U:C2'	55:DA:2712(A):A:O5'	2.35	0.75
24:AW:43:GLN:O	24:AW:44:LEU:HG	1.85	0.75
1:AA:1353:A:H4'	3:AD:38:LYS:NZ	2.02	0.75
55:DA:1210:A:H4'	55:DA:1211:U:O5'	1.86	0.75
9:AM:15:LEU:HD12	9:AM:136:GLU:HG3	1.68	0.75
42:CO:60:LEU:N	42:CO:60:LEU:CD2	2.49	0.75
52:BC:58:A:H1'	52:BC:60:U:C5	2.21	0.75
54:CA:1116:C:H2'	54:CA:1117:G:H5''	1.68	0.75
54:CA:484:G:H4'	54:CA:485:G:O5'	1.85	0.75
1:AA:2021:C:H5''	1:AA:2022:U:OP2	1.87	0.75
54:CA:890:G:O2'	54:CA:891:U:OP2	2.05	0.75
58:DL:111:LYS:HA	58:DL:113:PRO:HG2	1.67	0.75
57:DY:19:ARG:O	57:DY:21:GLN:N	2.19	0.75
57:DY:31:GLY:C	57:DY:32:LEU:HD22	2.07	0.75
26:A4:53:GLU:OE2	26:A4:58:ARG:HB3	1.85	0.75
1:AA:943:U:H2'	1:AA:944:G:H5'	1.67	0.75
2:AB:88:C:H3'	2:AB:89:G:H8	1.50	0.75
12:AP:81:VAL:O	12:AP:82:ARG:NH1	2.19	0.75
54:CA:532:A:H2	54:CA:1206:G:N2	1.85	0.75
20:DU:81:LYS:HB2	20:DU:96:ILE:HG22	1.66	0.75
31:BA:1028:C:H2'	31:BA:1028(A):C:C5'	2.16	0.75
52:CD:48:C:C5	52:CD:59:U:H1'	2.21	0.75
12:DP:80:GLU:HA	22:D3:4:LYS:CE	2.16	0.75
12:DP:80:GLU:OE2	22:D3:4:LYS:CE	2.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1117:G:O3'	39:BL:104:ARG:HD3	1.86	0.75
3:AD:35:LYS:HD3	3:AD:63:ARG:HB3	1.68	0.75
3:AD:25:THR:HG21	3:AD:82:ILE:H	1.51	0.75
14:DQ:39:ILE:HD11	14:DQ:73:LEU:HD11	1.68	0.75
55:DA:2712:U:H1'	55:DA:2712(A):A:C8	2.21	0.75
1:AA:141:A:H5'	1:AA:141(A):C:OP2	1.85	0.75
54:CA:690:G:H22	41:CN:55:LYS:HZ1	1.33	0.75
17:A2:12:TYR:OH	17:A2:22:VAL:HG23	1.87	0.75
1:AA:2778:A:H5'	1:AA:2779:U:OP2	1.85	0.75
35:CH:12:LEU:C	35:CH:13:ILE:HD12	2.06	0.75
29:A7:8:ASN:HD22	29:A7:8:ASN:C	1.89	0.75
55:DA:2898:U:H2'	55:DA:2899:G:C8	2.21	0.75
6:DG:113:ARG:HH12	6:DG:142:PRO:HA	1.51	0.75
54:CA:664:G:H22	54:CA:741:G:H1	1.32	0.75
1:AA:312:G:OP2	1:AA:312:G:H8	1.69	0.75
1:AA:2820:A:H1'	13:A0:3:HIS:HB3	1.68	0.75
58:DL:79:ARG:C	58:DL:81:ALA:H	1.90	0.75
58:DL:78:ILE:HA	58:DL:82:ALA:HB3	1.68	0.75
57:DY:138:LEU:C	57:DY:138:LEU:HD12	2.07	0.75
21:DV:178:GLU:C	21:DV:180:VAL:H	1.88	0.75
3:DD:35:LYS:CG	3:DD:64:ILE:N	2.49	0.75
30:A8:22:VAL:HB	30:A8:50:LEU:HD22	1.67	0.75
21:DV:152:ALA:HB1	21:DV:163:LEU:HD22	1.67	0.75
40:CM:24:VAL:HG21	40:CM:37:PRO:HG3	1.67	0.75
31:BA:1004:A:P	31:BA:1025:U:O4	2.45	0.75
31:BA:1118:C:H5'	31:BA:1118:C:H6	1.50	0.75
20:AU:61:ILE:CG2	20:AU:62:GLU:H	1.99	0.75
9:DM:133:GLN:HB2	9:DM:135:PRO:HD3	1.66	0.75
1:AA:2146:C:H5''	1:AA:2147:G:OP1	1.85	0.75
24:AW:15:LYS:HA	24:AW:67:LYS:HZ1	1.51	0.75
38:CK:121:ASP:HB2	38:CK:125:ARG:NH2	2.01	0.75
33:BF:59:ARG:HE	33:BF:64:VAL:HG22	1.52	0.75
36:CI:89:MET:O	36:CI:91:VAL:HG23	1.86	0.75
19:DT:50:LYS:H	19:DT:87:GLN:NE2	1.83	0.75
31:BA:376:G:H5''	46:BS:5:ARG:HB2	1.67	0.75
55:DA:2213:U:H4'	23:DZ:52:ARG:NH1	2.00	0.75
15:AR:29:ARG:HG3	15:AR:29:ARG:HH11	1.50	0.75
10:AN:102:VAL:HB	10:AN:106:LEU:HD12	1.69	0.75
55:DA:2150:U:H2'	55:DA:2151:G:C8	2.22	0.75
1:AA:1364:G:OP1	23:AZ:3:LYS:HD3	1.86	0.75
58:DL:11:GLN:O	58:DL:12:LEU:HD22	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:139:VAL:HG23	56:DJ:6:GLU:CD	2.05	0.75
15:DR:91:ARG:HB2	15:DR:121:ILE:HG13	1.69	0.75
1:AA:1224:G:H5'	1:AA:1225:C:OP2	1.86	0.75
7:DH:143:GLN:HE22	7:DH:147:ASN:HD21	1.32	0.75
52:BD:20:U:H2'	52:BD:21:A:H5'	1.67	0.75
16:D1:92:ARG:HH11	16:D1:95:LEU:HD11	1.50	0.75
17:D2:39:LEU:O	17:D2:40:LEU:HD23	1.85	0.75
21:AV:54:HIS:ND1	21:AV:101:PRO:HD3	2.02	0.75
1:AA:74:A:H4'	1:AA:75:G:O5'	1.86	0.75
53:C1:56:U:H4'	53:C1:57:U:OP1	1.85	0.75
6:DG:13:GLU:O	6:DG:14:GLU:HB2	1.85	0.75
1:AA:2158:A:H5''	1:AA:2159:G:OP1	1.85	0.75
50:BW:77:ALA:O	50:BW:81:LYS:HB2	1.86	0.75
9:DM:71:ILE:N	9:DM:71:ILE:HD13	2.00	0.75
31:BA:750:G:N3	45:BR:23:GLY:HA3	2.01	0.75
24:AW:17:SER:OG	24:AW:18:PRO:HA	1.86	0.75
39:CL:3:GLN:HB3	39:CL:20:ARG:HD3	1.69	0.75
55:DA:1064:C:H4'	58:DL:89:HIS:CA	2.16	0.75
56:DI:4:ASP:HA	56:DI:7:ARG:HD3	1.67	0.75
56:DJ:14:GLN:CG	56:DJ:16:THR:O	2.30	0.75
58:DL:141:ALA:HB1	58:DL:142:PRO:HA	1.68	0.75
57:DY:27:VAL:HG23	57:DY:80:VAL:HG11	1.69	0.75
1:AA:2599:G:C8	3:AD:236:GLY:O	2.39	0.75
39:BL:28:VAL:HA	39:BL:63:ILE:O	1.85	0.75
32:CE:42:ILE:HD11	32:CE:202:PRO:HB2	1.67	0.75
11:DO:126:VAL:HG12	11:DO:147:LEU:CD2	2.16	0.75
1:AA:2657:A:C4	1:AA:2665:A:N6	2.55	0.75
33:CF:16:ARG:HH11	33:CF:16:ARG:HB2	1.50	0.75
55:DA:1348:G:C2'	55:DA:1349:A:H5''	2.15	0.75
35:CH:137:GLU:HA	35:CH:140:ARG:NH1	2.01	0.75
36:CI:2:ARG:HD2	36:CI:69:GLU:HB3	1.67	0.75
55:DA:2249:U:H4'	55:DA:2275:C:C5	2.22	0.75
31:BA:1301:U:O2	31:BA:1301:U:H2'	1.85	0.75
33:BF:70:VAL:HG12	33:BF:72:LYS:H	1.50	0.75
55:DA:27:G:H1'	55:DA:513:A:N6	2.02	0.75
5:AF:143:ALA:HB1	5:AF:148:LEU:HB2	1.67	0.75
1:AA:551:G:H5'	1:AA:1220:A:H1'	1.69	0.75
58:DL:53:VAL:HB	58:DL:72:PRO:HB2	1.69	0.75
57:DY:130:THR:C	57:DY:132:ASP:N	2.33	0.75
55:DA:483:A:C5'	20:DU:49:VAL:HG13	2.17	0.75
32:CE:165:VAL:HG23	32:CE:166:ASP:H	1.48	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:D1:90:VAL:HG11	17:D2:40:LEU:HG	1.69	0.75
16:D1:90:VAL:HG12	16:D1:91:ASP:N	1.99	0.75
31:BA:677:U:H2'	31:BA:678:U:C6	2.22	0.75
48:CU:26:LEU:HD12	48:CU:29:PHE:CE1	2.22	0.75
4:AE:117:MET:O	4:AE:118:LYS:HB2	1.85	0.75
6:AG:151:ALA:HB3	6:AG:153:ARG:NH1	2.02	0.75
55:DA:2051:A:H61	55:DA:2614:A:H2'	1.51	0.75
56:DI:10:GLU:C	56:DI:14:GLN:HB3	2.06	0.75
21:AV:144:LEU:HG	21:AV:144:LEU:O	1.86	0.75
3:DD:71:ASP:HB3	3:DD:103:ARG:HH22	1.49	0.75
3:DD:25:THR:HG22	3:DD:82:ILE:O	1.85	0.75
3:DD:34:VAL:O	3:DD:34:VAL:HG13	1.87	0.75
7:DH:153:LYS:HG3	7:DH:161:GLY:CA	2.17	0.75
55:DA:1021:A:C8	55:DA:1021:A:H3'	2.22	0.75
38:CK:6:ILE:HD12	38:CK:6:ILE:H	1.51	0.75
54:CA:92:G:H2'	54:CA:93:U:O4'	1.87	0.75
31:BA:973:G:H1'	40:BM:55:LYS:HE2	1.69	0.75
12:AP:21:THR:HG23	12:AP:21:THR:O	1.87	0.75
31:BA:60:A:H4'	31:BA:61:G:O5'	1.86	0.75
33:CF:20:SER:HB2	33:CF:40:ARG:HH22	1.51	0.75
55:DA:1678:G:N2	55:DA:1989:G:H22	1.85	0.75
1:AA:361:G:C2	1:AA:362:U:H1'	2.21	0.75
56:DJ:20:LEU:H	56:DJ:20:LEU:HD12	1.51	0.74
56:DJ:28:LYS:O	56:DJ:30:ALA:N	2.19	0.74
58:DL:112:MET:SD	58:DL:120:LEU:HA	2.27	0.74
26:D4:68:ARG:HB3	26:D4:68:ARG:HH11	1.52	0.74
43:BP:79:LYS:HE2	43:BP:82:MET:CE	2.17	0.74
6:AG:109:VAL:CG1	26:A4:33:VAL:HG21	2.17	0.74
23:DZ:91:LYS:CA	23:DZ:91:LYS:HE3	2.10	0.74
11:DO:61:ARG:NH1	30:D8:14:VAL:HG23	2.02	0.74
7:DH:124:GLU:O	7:DH:126:PRO:HB3	1.87	0.74
7:DH:86:GLU:HG3	7:DH:165:ALA:HB3	1.69	0.74
31:BA:1024:G:H2'	31:BA:1025:U:H5''	1.69	0.74
26:D4:37:SER:HB3	26:D4:42:PHE:CE1	2.22	0.74
52:CC:20:U:H3'	52:CC:21:A:C5'	2.17	0.74
19:AT:34:ALA:HB1	19:AT:39:ILE:CD1	2.17	0.74
17:D2:38:LEU:HD12	17:D2:56:SER:CA	2.16	0.74
55:DA:1112:G:H2'	55:DA:1113:U:H6	1.51	0.74
3:DD:134:ARG:HB2	3:DD:135:PHE:CD2	2.22	0.74
1:AA:1165:U:H2'	1:AA:1166:C:C6	2.21	0.74
34:BG:92:VAL:O	34:BG:96:LEU:HD23	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CX:15:ARG:HG2	51:CX:15:ARG:HH11	1.51	0.74
12:DP:30:GLY:HA2	12:DP:107:ALA:HB2	1.68	0.74
28:D6:52:VAL:HG22	28:D6:53:LYS:H	1.52	0.74
55:DA:1275:A:H4'	55:DA:1276:A:O5'	1.87	0.74
16:A1:72:HIS:HE1	16:A1:107:ALA:HA	1.51	0.74
21:DV:8:TYR:HB2	21:DV:38:TYR:CE2	2.22	0.74
11:AO:48:PRO:HG2	11:AO:49:ARG:H	1.51	0.74
31:BA:17:U:H2'	31:BA:18:C:C6	2.22	0.74
56:DI:12:LEU:O	56:DI:13:SER:HB2	1.86	0.74
1:AA:945:A:H4'	1:AA:946:G:OP1	1.86	0.74
31:BA:1129:C:H5'	31:BA:1130:A:OP1	1.87	0.74
52:BD:20:U:C2'	52:BD:21:A:H5'	2.17	0.74
21:AV:125:LEU:HG	21:AV:164:ALA:CB	2.16	0.74
1:AA:2656:U:C5	1:AA:2664:G:N2	2.54	0.74
1:AA:140:A:H8	1:AA:1408:C:HO2'	1.28	0.74
43:BP:65:LYS:HE3	43:BP:73:GLU:HG3	1.67	0.74
55:DA:302:C:H2'	55:DA:303:U:C6	2.22	0.74
32:BE:219:VAL:HA	32:BE:222:ILE:HD12	1.70	0.74
15:AR:29:ARG:HG3	15:AR:29:ARG:NH1	2.00	0.74
55:DA:658:C:H2'	55:DA:659:C:H6	1.50	0.74
54:CA:107:G:C2'	54:CA:108:G:H5'	2.18	0.74
55:DA:654:A:N3	55:DA:654:A:H2'	2.02	0.74
18:DS:29:LEU:O	18:DS:33:ARG:HG3	1.87	0.74
56:DI:24:ILE:HD13	56:DI:26:ALA:H	1.51	0.74
31:BA:1363:A:H4'	31:BA:1364:U:OP1	1.85	0.74
1:AA:975:G:H1'	1:AA:990:A:C2	2.21	0.74
3:DD:35:LYS:HD2	3:DD:104:TYR:HD1	1.47	0.74
24:DW:13:ALA:HA	24:DW:16:LEU:HD23	1.69	0.74
31:BA:57:G:H2'	31:BA:58:C:C6	2.22	0.74
55:DA:2308:G:H22	55:DA:2311:A:H2	1.33	0.74
46:CS:3:LYS:O	46:CS:21:VAL:HA	1.88	0.74
54:CA:1095:U:H2'	54:CA:1096:C:C6	2.22	0.74
1:AA:2468:G:H5'	12:AP:120:ILE:CD1	2.18	0.74
7:AH:86:GLU:HA	7:AH:132:ARG:HB2	1.67	0.74
27:A5:38:ALA:HB3	27:A5:48:GLU:OE2	1.86	0.74
32:BE:22:LYS:HZ3	32:BE:40:HIS:CE1	2.06	0.74
1:AA:1943:U:H4'	1:AA:1944:U:O5'	1.86	0.74
1:AA:529:A:H5''	1:AA:530:G:OP1	1.87	0.74
55:DA:2189:U:H2'	55:DA:2190:G:H5''	1.67	0.74
55:DA:673:C:O2'	5:DF:82:ILE:HD13	1.86	0.74
9:AM:19:GLU:HA	9:AM:59:LYS:O	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1101:A:H4'	31:BA:1102:A:O5'	1.87	0.74
55:DA:2866:U:O2'	55:DA:2867:G:OP2	2.04	0.74
55:DA:646:A:H2'	55:DA:647:G:O4'	1.86	0.74
9:AM:45:ASN:H	9:AM:45:ASN:HD22	1.35	0.74
57:DY:58:LEU:O	57:DY:62:ALA:N	2.17	0.74
57:DY:74:LEU:HD13	57:DY:75:GLN:HG2	1.69	0.74
55:DA:1372:U:H6	55:DA:1372:U:C5'	1.83	0.74
54:CA:630:G:OP1	54:CA:630:G:C4'	2.36	0.74
14:DQ:83:LYS:O	14:DQ:109:GLY:HA3	1.87	0.74
31:BA:406:G:H5''	34:BG:5:ILE:HG23	1.67	0.74
16:D1:98:LEU:C	16:D1:98:LEU:HD23	2.08	0.74
23:AZ:79:GLY:O	23:AZ:80:LEU:HD13	1.87	0.74
20:AU:52:SER:N	20:AU:53:PRO:HD3	2.02	0.74
55:DA:2146:C:H5''	55:DA:2147:G:OP1	1.87	0.74
19:AT:11:PRO:HB2	19:AT:13:LEU:HD21	1.69	0.74
53:B1:51:U:H2'	53:B1:52:U:O4'	1.87	0.74
34:CG:112:VAL:HG12	34:CG:116:GLN:OE1	1.86	0.74
48:CU:21:LYS:O	48:CU:23:LYS:N	2.20	0.74
31:BA:689:C:O2'	31:BA:690:G:H5'	1.87	0.74
36:CI:91:VAL:HG11	48:CU:72:ARG:NH1	2.01	0.74
55:DA:2067:G:O3'	55:DA:2068:U:H4'	1.87	0.74
1:AA:1947:C:C3'	1:AA:1948:G:H5''	2.18	0.74
54:CA:274:A:HO2'	54:CA:275:G:H8	1.36	0.74
10:AN:111:PHE:O	10:AN:115:VAL:HG23	1.87	0.74
22:A3:74:ARG:HG3	22:A3:74:ARG:HH11	1.51	0.74
57:DY:51:LEU:HD22	57:DY:82:PHE:H	1.52	0.74
57:DY:72:ASP:OD1	57:DY:74:LEU:HA	1.87	0.74
57:DY:74:LEU:HG	57:DY:120:LYS:HA	1.67	0.74
21:AV:145:GLU:OE1	21:AV:174:VAL:HG11	1.85	0.74
1:AA:2393:A:P	30:A8:30:ARG:HB2	2.27	0.74
12:AP:1:MET:HB3	12:AP:69:PHE:HE1	1.50	0.74
12:DP:60:ARG:NE	21:DV:181:GLU:OE1	2.20	0.74
20:DU:50:ARG:HD3	20:DU:53:PRO:HG2	1.69	0.74
14:DQ:83:LYS:HG2	14:DQ:109:GLY:H	1.53	0.74
31:BA:1148:U:H2'	31:BA:1149:C:O4'	1.87	0.74
31:BA:279:A:O2'	31:BA:280:C:OP2	2.05	0.74
54:CA:1182:G:H4'	54:CA:1183:A:C5'	2.17	0.74
32:BE:54:THR:HG23	32:BE:199:TYR:HB3	1.69	0.74
54:CA:701:C:H1'	54:CA:703:G:C2	2.22	0.74
12:DP:1:MET:O	12:DP:2:LEU:HD22	1.88	0.74
1:AA:1204:A:O2'	1:AA:1205:U:H5''	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:147:LEU:HD11	3:DD:183:ARG:HH12	1.53	0.74
47:BT:56:VAL:HB	47:BT:78:GLU:HG2	1.67	0.74
39:CL:43:ALA:HA	39:CL:74:ILE:HD13	1.69	0.74
1:AA:1728:G:N7	1:AA:1731:G:N2	2.34	0.74
55:DA:718:A:H2'	55:DA:719:C:O4'	1.87	0.74
21:DV:20:ARG:HH11	21:DV:20:ARG:HG2	1.51	0.74
19:AT:12:VAL:HG13	19:AT:27:THR:HG23	1.68	0.74
58:DL:52:ILE:HG13	58:DL:76:TYR:HB3	1.66	0.74
57:DY:51:LEU:CD2	57:DY:82:PHE:H	2.00	0.74
57:DY:72:ASP:O	57:DY:112:LEU:CD2	2.36	0.74
49:BV:63:THR:HG22	49:BV:66:MET:CE	2.17	0.74
12:AP:77:LYS:NZ	12:AP:82:ARG:HA	2.02	0.74
3:DD:25:THR:CG2	3:DD:81:ALA:HB1	2.11	0.74
55:DA:481:G:HO2'	55:DA:482:A:P	2.11	0.74
4:DE:68:ALA:O	4:DE:69:LYS:HG3	1.88	0.74
16:A1:92:ARG:HB2	17:A2:11:GLN:NE2	2.02	0.74
1:AA:1342:A:O2'	1:AA:1344:G:P	2.46	0.74
20:DU:84:ARG:HH12	20:DU:97:ARG:CA	2.01	0.74
1:AA:2790:A:H1'	1:AA:2893:G:HO2'	1.52	0.74
35:BH:43:LEU:N	35:BH:65:ASN:HD22	1.85	0.74
24:AW:42:GLY:O	24:AW:44:LEU:N	2.20	0.74
9:AM:15:LEU:HG	9:AM:134:ARG:NE	2.03	0.74
36:BI:26:ILE:O	36:BI:30:LEU:HG	1.86	0.74
31:BA:736:C:H2'	31:BA:737:A:C8	2.22	0.74
54:CA:198:G:H2'	54:CA:199:G:H8	1.53	0.74
31:BA:376:G:P	46:BS:67:THR:HG21	2.27	0.74
37:CJ:38:LEU:HD12	37:CJ:41:ARG:HD2	1.70	0.74
1:AA:107:C:H2'	1:AA:108:U:C6	2.23	0.74
24:AW:21:LEU:O	24:AW:25:VAL:HG22	1.87	0.74
1:AA:1504:C:H2'	1:AA:1505:C:H5'	1.70	0.74
54:CA:942:G:H21	39:CL:124:GLN:NE2	1.86	0.74
47:CT:45:HIS:NE2	47:CT:47:PRO:HG3	2.03	0.74
34:BG:189:PRO:HB2	34:BG:194:LEU:HD21	1.69	0.74
56:DI:17:VAL:CA	56:DI:20:LEU:HD12	2.17	0.74
56:DI:24:ILE:CA	56:DI:27:LEU:CD1	2.65	0.74
57:DY:27:VAL:HG21	57:DY:109:SER:O	1.87	0.74
54:CA:1313:U:OP1	49:CV:6:LYS:CB	2.34	0.74
55:DA:880:G:H4'	55:DA:880:G:OP1	1.86	0.74
21:DV:180:VAL:HG13	21:DV:181:GLU:N	2.03	0.74
20:DU:42:VAL:CG1	20:DU:65:ALA:HB3	2.17	0.74
4:DE:78:LEU:HD21	4:DE:79:ARG:HE	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:DV:120:ILE:HG22	21:DV:121:HIS:CD2	2.22	0.74
9:DM:96:GLU:C	9:DM:98:VAL:N	2.40	0.74
31:BA:1139:G:N2	31:BA:1143:G:H1	1.85	0.74
31:BA:1149:C:H2'	31:BA:1150:U:C6	2.22	0.74
40:CM:6:ILE:HA	40:CM:97:GLU:O	1.88	0.74
1:AA:2533:A:C2'	1:AA:2534:A:H5''	2.13	0.74
16:D1:95:LEU:HD12	17:D2:11:GLN:HE21	1.53	0.74
55:DA:2712:U:O2'	55:DA:2712(A):A:P	2.46	0.74
53:B1:33:G:H2'	53:B1:34:G:H8	1.50	0.74
1:AA:1454:U:O2'	1:AA:1455:G:N7	2.21	0.74
54:CA:1535:C:C2'	54:CA:1536:C:H5'	2.18	0.74
54:CA:1322:C:H2'	54:CA:1322:C:O2	1.85	0.74
4:DE:103:ASP:OD1	4:DE:201:THR:HA	1.88	0.74
31:BA:1205:U:H1'	33:BF:195:VAL:CG2	2.18	0.74
38:BK:51:VAL:HG11	38:BK:60:ARG:NH1	2.03	0.74
2:DB:48:A:H2'	2:DB:49:C:C6	2.22	0.74
1:AA:1753:G:H5'	15:AR:95:ARG:HG2	1.68	0.74
35:BH:69:VAL:HG12	35:BH:71:LEU:HD21	1.68	0.74
8:AK:139:GLN:O	8:AK:140:LEU:HB2	1.87	0.74
1:AA:2080:G:H4'	23:AZ:36:GLY:HA3	1.68	0.74
1:AA:1242:A:H5'	1:AA:1243:G:OP2	1.86	0.74
39:BL:97:LYS:HB3	39:BL:98:PRO:HD3	1.69	0.74
4:AE:22:PRO:O	4:AE:23:VAL:HG13	1.86	0.74
49:CV:5:LEU:HD22	49:CV:10:PHE:CE1	2.22	0.74
54:CA:792:A:C4	54:CA:794:A:N6	2.55	0.74
27:D5:56:LYS:H	27:D5:56:LYS:CD	2.00	0.74
43:CP:74:VAL:HA	43:CP:77:ASN:HD22	1.53	0.74
40:BM:4:ILE:CD1	40:BM:82:ILE:HD11	2.18	0.74
55:DA:479:A:O2'	55:DA:481:G:H5'	1.87	0.74
1:AA:2503:A:O2'	1:AA:2505:G:OP2	2.06	0.74
43:CP:7:VAL:HB	6:DG:115:ARG:HH22	1.52	0.74
54:CA:235:C:H5'	47:CT:70:ARG:HG2	1.70	0.74
20:AU:95:LYS:HB3	20:AU:100:ALA:HA	1.68	0.74
1:AA:654(B):C:C2'	1:AA:654(C):G:O4'	2.36	0.74
3:AD:110:GLY:O	3:AD:112:GLN:HG3	1.87	0.74
31:BA:1160:G:N1	31:BA:1177:G:N2	2.36	0.74
1:AA:1053:C:C3'	1:AA:1054:A:H5''	2.17	0.74
26:A4:50:VAL:HG13	26:A4:52:THR:HG23	1.69	0.74
50:BW:51:GLU:HA	50:BW:54:LYS:HB3	1.68	0.74
1:AA:1761:C:H5''	1:AA:1762:A:OP2	1.87	0.74
55:DA:1050:A:C8	55:DA:2751:G:H2'	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:406:G:H5"	34:CG:5:ILE:HD13	1.70	0.74
16:A1:49:HIS:HA	16:A1:52:ARG:HB2	1.69	0.74
7:DH:30:LYS:HD2	7:DH:81:GLU:H	1.52	0.74
38:CK:91:ARG:HH11	38:CK:91:ARG:HG2	1.53	0.74
4:AE:10:GLY:HA3	15:AR:8:LYS:HE2	1.68	0.74
21:AV:116:VAL:HG12	21:AV:117:LEU:N	2.03	0.74
26:A4:35:VAL:C	26:A4:37:SER:H	1.90	0.74
23:DZ:83:GLU:OE1	23:DZ:85:LEU:HD23	1.87	0.74
55:DA:2287:A:C2	55:DA:2346:A:N1	2.55	0.74
55:DA:2420:C:P	30:D8:34:TRP:H	2.11	0.74
34:BG:24:GLU:H	34:BG:27:TYR:HB2	1.53	0.74
31:BA:1374:A:O2'	37:BJ:28:ASN:HB3	1.88	0.74
55:DA:1534:G:O6	55:DA:1538:G:N2	2.21	0.74
14:DQ:5:THR:OG1	14:DQ:7:TYR:HB3	1.88	0.74
13:A0:86:ARG:NH2	13:A0:118:GLU:HG2	2.02	0.74
3:AD:224:ALA:HB2	3:AD:233:HIS:HB3	1.68	0.74
53:B1:37:G:H2'	53:B1:38:U:O4'	1.87	0.74
8:DK:64:GLU:HG3	8:DK:67:ARG:CZ	2.18	0.74
1:AA:639:U:H2'	1:AA:640:C:C6	2.23	0.74
10:DN:113:LYS:HG2	10:DN:117:LEU:HD11	1.68	0.74
31:BA:210:U:H2'	31:BA:210:U:O2	1.87	0.74
31:BA:274:A:O2'	31:BA:275:G:H8	1.71	0.74
55:DA:2854:G:H2'	55:DA:2855:C:C6	2.23	0.74
55:DA:2887:U:H2'	55:DA:2888:C:H6	1.51	0.74
54:CA:107:G:H2'	54:CA:108:G:H5'	1.70	0.74
1:AA:651:G:H5"	30:A8:18:ALA:HB3	1.69	0.74
31:BA:481:G:H5"	31:BA:482:A:OP1	1.88	0.74
55:DA:2211:G:O2'	55:DA:2212:A:OP2	2.04	0.74
58:DL:95:LYS:CD	58:DL:136:VAL:HG21	2.18	0.74
57:DY:138:LEU:C	57:DY:140:GLY:H	1.92	0.74
57:DY:43:ALA:N	57:DY:47:ASN:ND2	2.35	0.74
1:AA:879:G:H1	1:AA:898:C:N4	1.84	0.74
21:DV:196:VAL:HG13	21:DV:196:VAL:O	1.86	0.74
1:AA:644:A:H4'	1:AA:645:C:C5	2.23	0.74
20:DU:76:CYS:HB3	20:DU:96:ILE:HD13	1.68	0.74
21:DV:60:GLU:HA	21:DV:66:SER:HA	1.70	0.74
7:AH:153:LYS:CB	7:AH:161:GLY:HA2	2.18	0.74
55:DA:2308:G:N1	55:DA:2311:A:C2	2.56	0.74
5:AF:175:THR:O	5:AF:176:LEU:HB2	1.86	0.74
1:AA:608:A:C5	1:AA:621:A:N6	2.55	0.74
36:CI:62:TRP:C	36:CI:63:TYR:HD2	1.91	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1175:U:C2'	1:AA:1176:G:H4'	2.18	0.74
54:CA:537:G:H5''	42:CO:113:ARG:HH12	1.53	0.74
1:AA:832:G:H5''	11:AO:45:LEU:HD11	1.68	0.74
39:CL:6:GLY:HA3	39:CL:84:ALA:HB2	1.69	0.74
21:DV:51:ALA:HA	21:DV:55:HIS:HD2	1.51	0.74
52:BC:23:A:H2'	52:BC:24:G:C8	2.23	0.74
55:DA:1497:U:H5'	55:DA:1498:C:OP2	1.88	0.74
31:BA:1020:U:C2'	31:BA:1021:G:H5''	2.18	0.74
15:AR:3:ARG:HG2	15:AR:6:LEU:HB2	1.69	0.73
56:DI:21:LYS:N	56:DI:24:ILE:HD12	2.03	0.73
58:DL:110:GLN:C	58:DL:111:LYS:HE2	2.07	0.73
57:DY:26:LEU:O	57:DY:111:LEU:HD13	1.87	0.73
57:DY:26:LEU:N	57:DY:82:PHE:HZ	1.82	0.73
21:DV:187:ALA:O	21:DV:188:ALA:CB	2.36	0.73
1:AA:2496:C:OP1	12:AP:81:VAL:HG13	1.86	0.73
12:AP:7:MET:HB2	12:AP:10:ARG:NE	2.02	0.73
43:BP:8:GLU:OE1	43:BP:22:ILE:HA	1.88	0.73
55:DA:2015:A:C1'	27:D5:2:ALA:HA	2.17	0.73
44:CQ:60:SER:O	44:CQ:61:TRP:HB3	1.86	0.73
5:DF:20:LEU:HD12	5:DF:21:ALA:H	1.52	0.73
33:BF:36:ASP:HA	33:BF:39:ILE:HD12	1.70	0.73
17:A2:61:VAL:HG13	17:A2:62:LEU:H	1.53	0.73
54:CA:33:A:H2'	54:CA:34:C:C6	2.23	0.73
33:CF:130:VAL:O	33:CF:134:ILE:HG12	1.88	0.73
56:DI:24:ILE:N	56:DI:27:LEU:CD1	2.51	0.73
58:DL:18:THR:HB	58:DL:19:PRO:HD2	1.68	0.73
58:DL:52:ILE:HG13	58:DL:76:TYR:HB2	1.69	0.73
31:BA:977:A:C2'	31:BA:978:A:H5'	2.18	0.73
1:AA:2287:A:N6	1:AA:2344:U:N3	2.36	0.73
4:DE:7:VAL:HG21	15:DR:1:MET:HE1	1.70	0.73
34:BG:19:LEU:HD12	34:BG:21:LEU:HD23	1.69	0.73
7:DH:152:ARG:O	7:DH:153:LYS:CB	2.36	0.73
1:AA:811:U:H2'	11:AO:21:ARG:HG3	1.69	0.73
1:AA:674:G:C1'	5:AF:74:ARG:HD3	2.17	0.73
1:AA:1019:U:N3	1:AA:1142(A):A:N6	2.36	0.73
55:DA:2115:G:H2'	55:DA:2116:G:C8	2.23	0.73
11:DO:36:LYS:HB2	11:DO:40:SER:HB3	1.69	0.73
1:AA:273(E):U:O2'	1:AA:273(F):C:H5'	1.88	0.73
4:DE:117:MET:O	4:DE:117:MET:HG2	1.87	0.73
15:DR:96:ARG:HB2	15:DR:96:ARG:NH1	2.03	0.73
54:CA:262:A:H5'	50:CW:74:LYS:HG3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DZ:23:LYS:HE3	23:DZ:29:GLY:CA	2.18	0.73
33:CF:21:ARG:HD3	33:CF:21:ARG:N	2.03	0.73
1:AA:2378:A:H4'	14:AQ:23:ARG:NH1	2.02	0.73
55:DA:1055:G:H2'	55:DA:1056:G:H5'	1.69	0.73
56:DJ:17:VAL:O	56:DJ:18:LEU:HB2	1.87	0.73
58:DL:106:GLU:HG2	58:DL:109:LYS:CB	2.18	0.73
55:DA:1058:U:H5'	58:DL:4:VAL:HB	1.71	0.73
55:DA:1058:U:P	58:DL:5:VAL:HG22	2.28	0.73
57:DY:10:LEU:HA	57:DY:13:LEU:HD12	1.70	0.73
21:AV:144:LEU:C	21:AV:146:ILE:N	2.37	0.73
21:DV:186:GLU:O	21:DV:186:GLU:CG	2.36	0.73
1:AA:2394:C:P	11:AO:63:PRO:HD2	2.28	0.73
21:DV:116:VAL:CG1	21:DV:118:GLN:OE1	2.36	0.73
43:BP:17:VAL:O	43:BP:18:ALA:C	2.26	0.73
54:CA:960:U:O2	54:CA:960:U:H2'	1.86	0.73
31:BA:794:A:C2	31:BA:795:C:C4	2.76	0.73
12:DP:88:GLY:C	12:DP:90:VAL:H	1.90	0.73
54:CA:562:C:HO2'	42:CO:15:ARG:HB3	1.52	0.73
52:CD:41:C:C3'	52:CD:42:C:H5''	2.19	0.73
8:DK:60:GLU:HG3	8:DK:61:ARG:HH22	1.53	0.73
42:BO:32:PHE:HB3	42:BO:84:LEU:HD21	1.69	0.73
31:BA:1453:G:H3'	50:BW:39:LYS:HZ2	1.54	0.73
54:CA:828:A:H2'	54:CA:829:G:O4'	1.89	0.73
1:AA:2128:C:H2'	1:AA:2129:C:C6	2.23	0.73
8:DK:72:LEU:HD13	8:DK:107:VAL:HG11	1.69	0.73
46:BS:5:ARG:HH21	46:BS:24:ALA:HA	1.53	0.73
55:DA:2849:U:H2'	55:DA:2866:U:O2	1.88	0.73
42:CO:71:PRO:HG3	42:CO:99:HIS:HD2	1.52	0.73
56:DJ:5:ILE:HG22	56:DJ:9:LYS:CG	2.17	0.73
21:DV:193:GLU:N	21:DV:194:PRO:CD	2.51	0.73
8:AK:123:LEU:HD22	8:AK:143:SER:HB2	1.71	0.73
24:DW:16:LEU:O	24:DW:16:LEU:CG	2.34	0.73
52:CD:8:U:C2'	52:CD:13:C:H41	2.00	0.73
55:DA:607:U:OP1	5:DF:102:PRO:HA	1.87	0.73
55:DA:1718:G:H2'	55:DA:1725:G:H5''	1.71	0.73
33:BF:119:ARG:NH2	33:BF:137:ALA:HA	2.04	0.73
7:AH:102:ALA:HB1	7:AH:115:VAL:O	1.87	0.73
7:AH:98:LEU:HD13	7:AH:125:VAL:HG21	1.69	0.73
51:CX:6:ARG:HE	51:CX:15:ARG:CZ	2.01	0.73
1:AA:1503:U:H2'	1:AA:1504:C:C6	2.23	0.73
3:DD:227:ASN:HB3	3:DD:228:PRO:HD2	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1060:C:C4	33:CF:2:GLY:HA3	2.22	0.73
55:DA:387:U:H4'	55:DA:388:G:O5'	1.86	0.73
5:AF:9:ILE:HA	5:AF:15:SER:O	1.89	0.73
1:AA:2331:G:H4'	22:A3:43:THR:H	1.53	0.73
55:DA:1709:U:H2'	55:DA:1710:C:C6	2.22	0.73
1:AA:2537:U:H2'	1:AA:2538:C:C6	2.24	0.73
47:CT:21:VAL:HG11	47:CT:59:ILE:HD11	1.68	0.73
55:DA:74:A:H4'	55:DA:75:G:O5'	1.86	0.73
55:DA:404:C:O2'	55:DA:405:U:OP2	2.06	0.73
4:AE:14:ILE:HG13	15:AR:14:TYR:CZ	2.23	0.73
56:DJ:1:MET:CG	56:DJ:2:ALA:H	1.97	0.73
58:DL:53:VAL:HA	58:DL:72:PRO:O	1.88	0.73
57:DY:122:VAL:CA	57:DY:126:ALA:HB3	2.18	0.73
21:DV:187:ALA:CB	21:DV:193:GLU:CG	2.65	0.73
21:DV:178:GLU:HG3	21:DV:180:VAL:N	2.04	0.73
2:AB:34:U:H5''	2:AB:35:U:OP1	1.89	0.73
33:CF:50:ALA:HB1	33:CF:70:VAL:HG11	1.70	0.73
32:CE:18:GLY:H	32:CE:42:ILE:CG2	2.00	0.73
11:DO:115:LEU:HA	11:DO:134:ALA:HB2	1.71	0.73
11:DO:120:ALA:HB1	11:DO:138:LEU:HA	1.70	0.73
54:CA:1160:G:H1	54:CA:1177:G:H21	1.36	0.73
31:BA:1347:G:H3'	39:BL:108:VAL:O	1.87	0.73
55:DA:608:A:N9	55:DA:621:A:N6	2.36	0.73
3:AD:106:ILE:HD11	3:AD:196:VAL:HG13	1.69	0.73
55:DA:2732:G:H3'	55:DA:2733:A:H5'	1.71	0.73
7:AH:24:VAL:HG21	7:AH:72:ILE:HG23	1.71	0.73
14:AQ:27:SER:HA	14:AQ:88:ASP:HB3	1.70	0.73
54:CA:1422:G:H5''	10:DN:48:PRO:HB3	1.71	0.73
54:CA:1434:A:H2'	54:CA:1435:G:O4'	1.89	0.73
33:BF:79:ARG:HE	33:BF:79:ARG:N	1.86	0.73
12:DP:43:THR:OG1	12:DP:46:GLN:HG3	1.89	0.73
5:AF:53:THR:HG22	5:AF:56:GLU:CD	2.08	0.73
18:DS:4:LYS:HB3	18:DS:106:ILE:HG22	1.69	0.73
56:DI:11:GLU:HA	56:DI:14:GLN:OE1	1.88	0.73
58:DL:18:THR:CG2	58:DL:38:VAL:HG11	2.18	0.73
57:DY:49:ALA:CA	57:DY:84:GLU:O	2.36	0.73
57:DY:49:ALA:N	57:DY:84:GLU:CB	2.51	0.73
1:AA:879:G:N2	1:AA:898:C:N3	2.35	0.73
49:BV:29:ARG:HG3	49:BV:48:THR:OG1	1.89	0.73
12:DP:60:ARG:HG3	21:DV:181:GLU:CD	2.08	0.73
49:CV:83:HIS:HD2	49:CV:84:GLY:N	1.85	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:35:GLN:HA	30:D8:35:GLN:NE2	2.04	0.73
1:AA:1924:C:C4	1:AA:1925:C:H5	2.02	0.73
5:AF:79:GLY:HA2	5:AF:86:GLY:HA2	1.70	0.73
17:A2:79:VAL:O	17:A2:80:GLN:CD	2.27	0.73
9:DM:7:LYS:N	9:DM:7:LYS:HZ2	1.87	0.73
31:BA:1006:C:H2'	31:BA:1007:C:H6	1.52	0.73
55:DA:1019:U:HO2'	55:DA:1021:A:H2	0.77	0.73
55:DA:888:C:O2'	55:DA:889:C:H5'	1.89	0.73
54:CA:254:G:OP1	47:CT:67:LYS:O	2.06	0.73
21:AV:95:PRO:O	21:AV:96:VAL:HB	1.88	0.73
20:AU:94:LYS:HD2	20:AU:101:LYS:NZ	2.04	0.73
55:DA:654(B):C:C2'	55:DA:654(C):G:O4'	2.36	0.73
1:AA:654(I):C:O2'	1:AA:654(J):A:O5'	2.07	0.73
42:BO:75:HIS:HD2	42:BO:77:LEU:HB2	1.54	0.73
11:DO:71:VAL:HG13	11:DO:72:PRO:HD3	1.69	0.73
44:BQ:29:ARG:HG2	44:BQ:40:CYS:CB	2.17	0.73
7:DH:9:ILE:HG22	7:DH:51:ARG:HG2	1.69	0.73
45:BR:43:LEU:HD11	45:BR:53:HIS:HA	1.70	0.73
1:AA:1502:C:H5'	1:AA:1503:U:OP2	1.88	0.73
55:DA:414:C:H1'	55:DA:1864:U:O2'	1.87	0.73
54:CA:802:A:H2'	54:CA:803:G:O4'	1.88	0.73
6:AG:34:LEU:HB2	6:AG:172:LEU:HD21	1.70	0.73
46:CS:43:LYS:HG2	46:CS:48:TRP:CE3	2.23	0.73
4:DE:131:ALA:HB1	4:DE:135:HIS:HE1	1.52	0.73
11:DO:15:ARG:O	11:DO:16:ARG:C	2.23	0.73
1:AA:181:A:H5''	29:A7:36:GLN:OE1	1.89	0.73
1:AA:813:U:H2'	1:AA:814:C:C6	2.22	0.73
56:DI:7:ARG:NE	56:DI:8:ILE:CG1	2.46	0.73
58:DL:112:MET:HE3	58:DL:118:THR:O	1.87	0.73
55:DA:1079:C:H1'	58:DL:129:GLY:CA	2.18	0.73
57:DY:11:ALA:HB1	57:DY:52:PHE:CE1	2.24	0.73
57:DY:23:SER:HB2	57:DY:68:LEU:O	1.88	0.73
1:AA:865:C:H4'	1:AA:866:A:OP1	1.88	0.73
54:CA:1205:U:H5'	33:CF:190:ARG:HH21	1.53	0.73
3:DD:60:ARG:HD3	3:DD:87:ASN:OD1	1.89	0.73
21:DV:120:ILE:HB	21:DV:171:ILE:H	1.52	0.73
17:A2:48:GLY:CA	17:A2:52:VAL:HG22	2.18	0.73
7:DH:98:LEU:HD13	7:DH:125:VAL:HG21	1.70	0.73
52:CD:7:A:H5'	52:CD:8:U:OP2	1.89	0.73
1:AA:2245:U:H5'	1:AA:2246:G:H5'	1.69	0.73
54:CA:376:G:O2'	54:CA:377:G:H5'	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:690:G:N2	41:CN:55:LYS:HZ1	1.86	0.73
31:BA:1248:A:H2'	39:BL:70:LYS:HZ1	1.54	0.73
1:AA:1534:G:N2	1:AA:1538:G:O6	2.21	0.73
34:CG:11:LEU:C	34:CG:13:ARG:N	2.39	0.73
8:DK:124:GLY:O	8:DK:142:VAL:HG22	1.88	0.73
41:BN:67:ASP:OD1	41:BN:71:LYS:HE3	1.87	0.73
31:BA:32:A:H2'	31:BA:33:A:C8	2.23	0.73
1:AA:2322:A:H3'	1:AA:2323:G:H8	1.53	0.73
56:DJ:6:GLU:O	56:DJ:10:GLU:HG2	1.89	0.73
57:DY:8:GLU:O	57:DY:9:LEU:O	2.04	0.73
31:BA:1333:A:H2'	31:BA:1334:G:O4'	1.88	0.73
55:DA:893:C:H3'	55:DA:894:C:C5	2.23	0.73
49:BV:9:VAL:HG12	49:BV:10:PHE:N	2.03	0.73
13:D0:86:ARG:HE	13:D0:118:GLU:HG2	1.53	0.73
1:AA:1138:G:H21	9:AM:106:MET:CE	2.02	0.73
55:DA:1934:C:H5'	55:DA:1934:C:C6	2.16	0.73
54:CA:129(A):G:O2'	54:CA:189:U:H3'	1.88	0.73
3:AD:62:TYR:HA	3:AD:87:ASN:ND2	2.04	0.73
55:DA:593:G:O2'	30:D8:61:LEU:CD1	2.37	0.73
25:AX:4:LEU:HD21	25:AX:56:VAL:HG13	1.70	0.73
4:AE:103:ASP:OD1	4:AE:201:THR:HG23	1.88	0.73
54:CA:1535:C:O2'	54:CA:1536:C:H5'	1.89	0.73
43:BP:23:TYR:HE1	43:BP:71:ARG:HD3	1.54	0.73
47:BT:78:GLU:OE1	47:BT:81:ARG:HD2	1.89	0.73
1:AA:1653:G:O2'	1:AA:1654:A:OP2	2.04	0.73
31:BA:186:C:H1'	50:BW:81:LYS:NZ	2.03	0.73
1:AA:2314:C:O2'	1:AA:2315:G:H5'	1.89	0.73
43:CP:49:THR:HG22	43:CP:51:ALA:H	1.53	0.73
38:CK:112:LEU:HA	38:CK:134:ILE:HG12	1.71	0.73
39:CL:59:PHE:HZ	39:CL:88:TYR:HE1	1.36	0.73
33:BF:25:GLY:C	33:BF:27:LYS:H	1.92	0.73
1:AA:2183:C:H2'	1:AA:2184:G:H8	1.53	0.73
55:DA:1077:A:C4'	58:DL:93:ARG:NH2	2.51	0.73
56:DI:30:ALA:HA	56:DJ:3:LEU:CG	2.19	0.73
58:DL:101:TRP:CD1	58:DL:101:TRP:N	2.57	0.73
58:DL:111:LYS:HD2	58:DL:111:LYS:N	2.03	0.73
58:DL:95:LYS:HG2	58:DL:136:VAL:HG11	1.70	0.73
57:DY:98:LYS:HG2	57:DY:102:LYS:HA	1.69	0.73
21:AV:140:ASP:O	21:AV:141:VAL:CB	2.37	0.73
21:AV:148:ASP:O	21:AV:149:SER:CB	2.36	0.73
11:AO:52:GLU:HG2	11:AO:55:ARG:O	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1305:G:H5'	51:CX:4:GLY:HA3	1.71	0.73
21:DV:150:LEU:CD2	21:DV:154:ASP:CG	2.57	0.73
1:AA:448:U:O4	1:AA:583:G:H1'	1.88	0.73
2:DB:74:U:H2'	2:DB:75:G:C5'	2.17	0.73
40:CM:6:ILE:HD11	40:CM:72:VAL:HB	1.69	0.73
11:DO:126:VAL:HA	11:DO:145:PRO:HB2	1.70	0.73
52:CC:18:G:O6	52:CC:55:U:H1'	1.88	0.73
1:AA:1331:A:H2'	1:AA:1333:C:H5	1.54	0.73
21:DV:69:THR:HG22	21:DV:90:VAL:HA	1.70	0.73
33:BF:95:THR:HG22	33:BF:97:LYS:HG2	1.71	0.73
33:CF:181:ASN:HD21	33:CF:204:LEU:HD12	1.52	0.73
7:AH:103:LEU:HD23	7:AH:115:VAL:O	1.88	0.73
27:A5:40:LYS:NZ	27:A5:45:VAL:HA	2.04	0.73
55:DA:303:U:H2'	55:DA:304:G:H8	1.54	0.73
1:AA:2173:A:H5''	1:AA:2174:C:C5	2.24	0.73
54:CA:232:G:H2'	54:CA:233:C:C6	2.24	0.73
55:DA:2562:U:H1'	10:DN:23:ARG:HH11	1.52	0.73
6:AG:56:ALA:HB2	6:AG:153:ARG:HE	1.52	0.73
54:CA:1241:G:H2'	54:CA:1242:C:C6	2.24	0.73
6:AG:125:PHE:HB3	6:AG:166:ASP:HB2	1.71	0.73
44:CQ:47:LEU:HA	44:CQ:50:LYS:HG3	1.71	0.73
2:DB:50:G:OP1	14:DQ:63:THR:HG23	1.88	0.73
1:AA:2422:A:H4'	1:AA:2423:U:OP1	1.88	0.73
55:DA:548:A:H2'	55:DA:549:G:H5'	1.71	0.73
54:CA:566:G:H4'	54:CA:567:G:OP1	1.88	0.73
1:AA:2318:G:H22	14:AQ:2:ALA:N	1.85	0.73
56:DI:24:ILE:HD13	56:DI:25:ASP:N	2.03	0.73
57:DY:46:GLN:O	57:DY:47:ASN:CB	2.36	0.73
28:A6:22:ALA:HB3	28:A6:42:TRP:CZ2	2.22	0.73
26:A4:34:GLU:HB3	43:BP:57:ARG:NH1	2.03	0.73
4:DE:53:PRO:HG2	4:DE:54:GLN:H	1.52	0.73
17:A2:58:VAL:HG21	17:A2:100:ARG:HH21	1.53	0.73
7:DH:154:PRO:HD3	7:DH:161:GLY:HA3	1.71	0.73
1:AA:2751:G:C6	7:AH:2:SER:HB3	2.24	0.73
11:DO:83:VAL:CG1	11:DO:112:LEU:HD21	2.19	0.73
52:CD:23:A:H2'	52:CD:24:G:H8	1.52	0.73
55:DA:2134:A:N6	55:DA:2157:G:H1'	2.04	0.73
9:DM:134:ARG:N	9:DM:135:PRO:HD3	2.01	0.73
14:DQ:10:ARG:O	14:DQ:12:PHE:N	2.22	0.73
20:AU:69:ALA:O	20:AU:72:VAL:HG22	1.88	0.73
53:C1:57:U:H3'	53:C1:57:U:O2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CG:119:GLN:HG3	34:CG:123:HIS:CD2	2.23	0.73
32:CE:134:GLU:O	32:CE:138:LEU:HG	1.88	0.73
1:AA:404:C:H1'	1:AA:406:G:C8	2.24	0.73
48:BU:65:ILE:HD12	48:BU:66:LEU:N	2.04	0.73
55:DA:1204:A:C2	55:DA:1241:A:N1	2.56	0.73
45:BR:17:ARG:HG3	45:BR:17:ARG:HH11	1.54	0.73
57:DY:116:ILE:HG13	57:DY:117:LEU:HD22	1.71	0.72
57:DY:89:ALA:HA	57:DY:125:LEU:O	1.89	0.72
28:A6:34:LEU:HD23	28:A6:34:LEU:H	1.52	0.72
54:CA:99:C:H2'	54:CA:101:A:C8	2.24	0.72
54:CA:1036:G:H3'	54:CA:1037:C:C6	2.24	0.72
1:AA:2554:U:O2	52:BB:74:C:N4	2.22	0.72
14:DQ:59:LYS:HG2	14:DQ:60:GLY:N	1.99	0.72
1:AA:483:A:H5"	20:AU:49:VAL:HG13	1.70	0.72
55:DA:2133:G:H2'	55:DA:2157:G:N2	2.03	0.72
9:DM:15:LEU:HD13	9:DM:16:ILE:N	2.04	0.72
55:DA:229:A:O2'	55:DA:230:U:P	2.46	0.72
20:AU:13:VAL:HG23	20:AU:73:ARG:C	2.10	0.72
39:BL:40:LEU:HB2	39:BL:43:ALA:HB2	1.71	0.72
37:BJ:22:LEU:HG	37:BJ:62:PHE:HE2	1.54	0.72
5:AF:89:VAL:HG12	5:AF:90:PHE:N	2.03	0.72
47:BT:9:VAL:HG22	47:BT:56:VAL:HG22	1.70	0.72
54:CA:487:A:H2'	54:CA:488:C:O4'	1.89	0.72
6:DG:142:PRO:HB2	26:D4:31:ILE:HG21	1.71	0.72
31:BA:664:G:H22	31:BA:741:G:H1	1.37	0.72
31:BA:807:A:H2'	31:BA:808:C:C6	2.23	0.72
37:CJ:73:MET:HG2	37:CJ:90:GLU:HA	1.70	0.72
56:DI:24:ILE:CD1	56:DI:25:ASP:N	2.52	0.72
58:DL:72:PRO:N	58:DL:73:PRO:CD	2.51	0.72
57:DY:32:LEU:HB3	57:DY:33:PRO:HD3	1.70	0.72
21:AV:145:GLU:OE1	21:AV:145:GLU:HA	1.89	0.72
21:AV:148:ASP:OD2	21:AV:174:VAL:O	2.07	0.72
26:D4:68:ARG:NH1	26:D4:68:ARG:HB3	2.04	0.72
26:A4:39:CYS:O	26:A4:40:HIS:HB2	1.89	0.72
54:CA:57:G:H2'	54:CA:58:C:H6	1.53	0.72
7:DH:127:GLU:OE1	7:DH:128:PRO:HD2	1.89	0.72
11:DO:144:GLU:N	11:DO:145:PRO:HD3	2.04	0.72
17:D2:49:THR:CB	17:D2:50:PRO:HD2	2.19	0.72
5:AF:4:VAL:HA	5:AF:19:GLU:HB2	1.69	0.72
1:AA:2111:C:H41	1:AA:2147:G:H21	1.37	0.72
2:DB:43:C:P	6:DG:67:LYS:HE3	2.29	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DK:60:GLU:HG3	8:DK:61:ARG:NH2	2.04	0.72
24:AW:65:ASN:HD22	24:AW:69:ARG:NH2	1.86	0.72
46:BS:14:ASN:N	46:BS:15:PRO:HD3	2.03	0.72
56:DI:1:MET:SD	56:DI:5:ILE:HG21	2.30	0.72
58:DL:111:LYS:C	58:DL:113:PRO:HD2	2.09	0.72
58:DL:12:LEU:CB	58:DL:13:PRO:HA	2.14	0.72
57:DY:51:LEU:CD1	57:DY:82:PHE:CA	2.67	0.72
21:DV:187:ALA:O	21:DV:188:ALA:HB2	1.87	0.72
26:A4:56:VAL:HG12	26:A4:57:GLU:HG3	1.70	0.72
3:DD:35:LYS:HE3	3:DD:65:ILE:N	2.03	0.72
2:AB:46:A:H2'	2:AB:47:C:C6	2.23	0.72
49:BV:5:LEU:HD22	49:BV:6:LYS:N	2.04	0.72
8:AK:78:THR:HG21	8:AK:104:GLN:HE22	1.54	0.72
28:D6:13:CYS:O	28:D6:21:TYR:HA	1.89	0.72
1:AA:583:G:H5''	16:A1:10:ARG:NH1	2.04	0.72
4:AE:31:CYS:SG	4:AE:51:PHE:HB2	2.29	0.72
34:CG:190:ASP:HB3	34:CG:193:ASP:OD1	1.89	0.72
6:DG:180:PHE:C	6:DG:182:LYS:H	1.90	0.72
1:AA:654(C):G:H3'	1:AA:654(D):G:C8	2.25	0.72
17:D2:52:VAL:CG2	17:D2:55:ALA:HB3	2.20	0.72
48:BU:22:VAL:HG12	48:BU:55:ARG:O	1.88	0.72
1:AA:1098:A:H3'	1:AA:1099:G:C5'	2.19	0.72
42:BO:27:LEU:HD11	42:BO:60:LEU:HB3	1.70	0.72
55:DA:445:C:H2'	55:DA:446:G:O4'	1.89	0.72
8:DK:94:ALA:HA	8:DK:97:ILE:HG12	1.70	0.72
55:DA:1416:G:HO2'	55:DA:1417:C:H6	1.34	0.72
31:BA:8:A:H1'	35:BH:102:ALA:CA	2.18	0.72
55:DA:627:A:O2'	55:DA:628:G:C8	2.42	0.72
1:AA:226:G:H1'	1:AA:228:A:H61	1.53	0.72
55:DA:871:U:H2'	55:DA:871:U:O2	1.89	0.72
56:DI:9:LYS:C	56:DI:11:GLU:N	2.42	0.72
56:DJ:13:SER:HB3	56:DJ:17:VAL:HG13	1.67	0.72
1:AA:895:U:H4'	1:AA:896:A:H8	1.54	0.72
49:BV:41:VAL:HG23	49:BV:44:MET:HE3	1.71	0.72
55:DA:879:G:O6	55:DA:898:C:N4	2.21	0.72
40:BM:22:LYS:HE2	40:BM:90:LEU:HD13	1.70	0.72
21:DV:151:HIS:CD2	21:DV:169:GLU:O	2.42	0.72
28:D6:28:ARG:HB3	28:D6:28:ARG:HH11	1.54	0.72
4:AE:47:VAL:HG12	4:AE:48:GLN:H	1.55	0.72
54:CA:1399:C:C4'	54:CA:1400:C:O5'	2.35	0.72
32:CE:172:ILE:HD12	32:CE:172:ILE:H	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CP:3:ARG:NH1	43:CP:7:VAL:HG22	2.04	0.72
21:AV:6:LYS:HD3	21:AV:8:TYR:OH	1.89	0.72
54:CA:376:G:H5''	46:CS:5:ARG:HD2	1.70	0.72
27:D5:4:HIS:HB3	27:D5:5:PRO:HD3	1.70	0.72
37:CJ:113:GLU:CB	37:CJ:119:ARG:HG2	2.19	0.72
1:AA:1053:C:H3'	1:AA:1054:A:H5''	1.72	0.72
55:DA:1510:A:O2'	55:DA:1511:A:H5'	1.88	0.72
55:DA:1510:A:H2	55:DA:1513:C:H42	1.37	0.72
55:DA:1887:C:H3'	55:DA:1888:G:H5''	1.71	0.72
21:AV:150:LEU:HB3	21:AV:172:ALA:HB3	1.72	0.72
33:CF:84:ILE:O	33:CF:88:ARG:HG3	1.89	0.72
21:AV:118:GLN:NE2	21:AV:118:GLN:HA	2.04	0.72
56:DJ:14:GLN:HA	56:DJ:16:THR:N	2.04	0.72
57:DY:135:ARG:NH1	57:DY:138:LEU:HG	2.00	0.72
52:CC:44:G:H3'	52:CC:45:U:H6	1.51	0.72
11:AO:63:PRO:HB3	30:A8:13:ARG:HG2	1.71	0.72
54:CA:1025:U:HO2'	54:CA:1026:G:H8	1.37	0.72
31:BA:407:G:O2'	34:BG:116:GLN:HG3	1.89	0.72
9:DM:22:THR:HG22	9:DM:23:LEU:N	2.03	0.72
23:AZ:91:LYS:HG3	23:AZ:92:LYS:H	1.54	0.72
31:BA:1443:G:H3'	31:BA:1446:A:C5'	2.19	0.72
8:DK:92:VAL:HG13	8:DK:120:ILE:CG2	2.17	0.72
55:DA:654(S):G:H2'	55:DA:654(T):A:C8	2.25	0.72
50:CW:50:GLU:HA	50:CW:100:ILE:HG21	1.70	0.72
5:AF:178:PRO:HG2	5:AF:179:GLU:OE1	1.90	0.72
55:DA:1718:G:C2'	55:DA:1725:G:H5''	2.19	0.72
52:BD:41:C:C3'	52:BD:42:C:H5''	2.19	0.72
33:BF:47:LEU:HD23	33:BF:52:LEU:HD13	1.70	0.72
17:D2:95:LEU:HD13	17:D2:97:LYS:HE3	1.69	0.72
55:DA:1012:U:H5	9:DM:28:THR:HG21	1.55	0.72
1:AA:1750:G:O2'	1:AA:1751:C:H5'	1.88	0.72
55:DA:701:G:H2'	55:DA:702:G:H5''	1.70	0.72
1:AA:776:G:H4'	1:AA:777:A:O5'	1.89	0.72
12:DP:109:VAL:HG13	12:DP:113:GLN:HB3	1.70	0.72
52:BC:7:A:H4'	52:BC:8:U:OP2	1.88	0.72
1:AA:1429:G:H2'	1:AA:1430:C:C6	2.25	0.72
55:DA:1963:U:O2	55:DA:1963:U:H2'	1.87	0.72
47:CT:55:ASP:HA	47:CT:79:SER:HA	1.71	0.72
58:DL:18:THR:HG23	58:DL:42:ASN:ND2	2.03	0.72
57:DY:134:LEU:O	57:DY:137:GLU:HG2	1.89	0.72
57:DY:87:VAL:HG13	57:DY:91:LYS:CG	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:115:GLY:N	21:AV:177:PRO:CB	2.52	0.72
21:DV:190:GLU:O	21:DV:191:VAL:CB	2.37	0.72
21:DV:194:PRO:CG	21:DV:196:VAL:HG11	2.18	0.72
1:AA:886:C:H4'	1:AA:886:C:OP1	1.89	0.72
1:AA:247:G:H4'	1:AA:386:G:C5	2.24	0.72
1:AA:1926:U:H2'	1:AA:1928:A:OP2	1.89	0.72
1:AA:2311:A:C8	6:AG:82:LEU:HD11	2.24	0.72
55:DA:1535:U:O2	55:DA:1535:U:H3'	1.90	0.72
13:A0:37:THR:CG2	13:A0:39:PRO:HD2	2.19	0.72
52:CC:47:U:H2'	52:CC:47:U:O2	1.88	0.72
39:CL:111:ARG:HD2	44:CQ:61:TRP:OXT	1.89	0.72
1:AA:2129:C:H2'	1:AA:2130:U:H5'	1.70	0.72
49:CV:81:ARG:CG	49:CV:82:GLY:H	2.02	0.72
54:CA:557:G:H2'	54:CA:558:G:C8	2.24	0.72
34:CG:129:ASN:N	34:CG:145:GLU:HB2	2.05	0.72
55:DA:547:A:H2'	55:DA:548:A:C8	2.25	0.72
31:BA:765:G:H1	31:BA:812:C:H2'	1.55	0.72
1:AA:2693:A:H2'	1:AA:2694:G:H8	1.54	0.72
21:DV:148:ASP:O	21:DV:173:ALA:HA	1.89	0.72
18:AS:80:PRO:O	18:AS:100:THR:HG22	1.88	0.72
50:BW:8:ARG:HH11	50:BW:8:ARG:HG3	1.54	0.72
54:CA:1513:A:H2'	54:CA:1514:C:C6	2.24	0.72
56:DI:24:ILE:O	56:DI:27:LEU:HB2	1.89	0.72
56:DI:26:ALA:O	56:DI:27:LEU:C	2.27	0.72
57:DY:52:PHE:C	57:DY:53:VAL:HG22	2.10	0.72
57:DY:94:VAL:O	57:DY:94:VAL:HG12	1.89	0.72
28:A6:38:LYS:HA	28:A6:48:VAL:O	1.90	0.72
26:D4:69:LYS:CD	26:D4:70:GLY:N	2.52	0.72
1:AA:910:A:C5	12:AP:13:GLN:HG3	2.24	0.72
21:DV:111:VAL:CG2	21:DV:146:ILE:HG13	2.20	0.72
54:CA:625:G:H4'	46:CS:16:HIS:CD2	2.23	0.72
6:AG:67:LYS:HD2	6:AG:67:LYS:N	2.05	0.72
49:CV:44:MET:O	49:CV:62:ILE:HG21	1.90	0.72
40:BM:33:GLN:H	40:BM:75:ILE:CD1	2.02	0.72
20:DU:63:LYS:HA	20:DU:63:LYS:HZ3	1.55	0.72
9:AM:42:TRP:HA	9:AM:48:MET:HE1	1.69	0.72
31:BA:409:G:OP1	34:BG:24:GLU:CG	2.36	0.72
1:AA:1225:C:C4'	17:A2:85:LYS:HB2	2.18	0.72
2:DB:75:G:H5'	2:DB:75:G:C8	2.24	0.72
11:DO:138:LEU:C	11:DO:140:ALA:H	1.93	0.72
20:AU:40:GLU:HA	20:AU:64:GLU:OE1	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:139:G:N2	1:AA:1596:A:H4'	2.05	0.72
1:AA:686:G:H5'	29:A7:11:LYS:HE2	1.71	0.72
11:DO:71:VAL:CG1	11:DO:72:PRO:HD3	2.19	0.72
46:BS:18:ARG:HD3	46:BS:35:LYS:HD2	1.72	0.72
1:AA:1171:G:O2'	1:AA:1173:G:O4'	2.08	0.72
2:DB:52:A:H62	14:DQ:33:LYS:CG	2.02	0.72
24:AW:17:SER:CB	24:AW:18:PRO:HA	2.20	0.72
55:DA:26:G:H1'	55:DA:514:A:N6	2.05	0.72
55:DA:1496:A:H8	55:DA:1577:C:HO2'	1.35	0.72
31:BA:537:G:H5''	42:BO:113:ARG:NH1	2.05	0.72
54:CA:1490:C:O2'	54:CA:1491:G:H5'	1.89	0.72
45:CR:74:ASP:HB3	45:CR:77:ARG:HG2	1.71	0.72
3:AD:26:LYS:H	3:AD:26:LYS:HD2	1.53	0.72
42:BO:40:VAL:HG21	42:BO:78:GLN:HA	1.71	0.72
33:CF:42:LEU:HD11	33:CF:46:GLU:OE2	1.89	0.72
58:DL:13:PRO:HG2	58:DL:15:GLY:H	1.54	0.72
57:DY:131:MET:O	57:DY:133:GLU:N	2.22	0.72
21:AV:146:ILE:C	21:AV:148:ASP:N	2.38	0.72
44:BQ:15:LYS:HZ3	44:BQ:16:PHE:H	1.37	0.72
28:A6:26:ASN:O	28:A6:28:ARG:HG2	1.88	0.72
1:AA:1899:G:N2	1:AA:1902:C:C4	2.58	0.72
52:CB:19:G:H22	52:CB:56:C:H42	1.37	0.72
54:CA:105:G:H2'	54:CA:106:C:C6	2.24	0.72
54:CA:1027:C:H2'	54:CA:1028:C:C5	2.25	0.72
34:BG:3:ARG:HB2	34:BG:3:ARG:HH21	1.54	0.72
31:BA:1278:U:H5''	31:BA:1279:A:O4'	1.90	0.72
1:AA:1047:G:H2'	1:AA:1110:G:N2	2.05	0.72
52:CD:23:A:H2'	52:CD:24:G:C8	2.24	0.72
5:DF:63:LYS:HA	5:DF:76:GLY:O	1.90	0.72
9:DM:14:VAL:HG13	9:DM:135:PRO:O	1.90	0.72
14:DQ:10:ARG:O	14:DQ:14:VAL:HG12	1.89	0.72
55:DA:1813:G:H1'	3:DD:50:THR:OG1	1.89	0.72
23:AZ:53:VAL:HB	23:AZ:58:ILE:HD12	1.72	0.72
49:BV:49:ILE:HD12	49:BV:49:ILE:N	2.04	0.72
36:CI:23:LYS:O	36:CI:27:GLN:HG2	1.89	0.72
54:CA:33:A:H2'	54:CA:34:C:H6	1.55	0.72
1:AA:1309:G:H4'	29:A7:7:PRO:HB2	1.70	0.72
34:CG:129:ASN:HA	34:CG:145:GLU:HB2	1.70	0.72
55:DA:27:G:H22	55:DA:512:G:H2'	1.53	0.72
2:AB:12:C:H2'	22:A3:74:ARG:HB3	1.71	0.72
45:CR:74:ASP:CG	45:CR:77:ARG:HD3	2.10	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BH:126:ARG:HA	35:BH:131:ILE:HD11	1.69	0.72
55:DA:1956:U:H1'	55:DA:2552:U:OP1	1.90	0.72
58:DL:60:TYR:OH	58:DL:66:THR:HG22	1.90	0.72
57:DY:116:ILE:O	57:DY:117:LEU:HB2	1.88	0.72
55:DA:1075:C:H5''	21:DV:195:GLU:OE2	1.89	0.72
1:AA:2286:A:H5''	1:AA:2287:A:O4'	1.89	0.72
2:AB:95:U:H2'	2:AB:96:G:C8	2.23	0.72
2:AB:40:U:C6	26:A4:1:MET:HE1	2.24	0.72
30:A8:49:VAL:HG12	30:A8:50:LEU:HD23	1.69	0.72
55:DA:1179:C:C3'	55:DA:1180:C:H5''	2.20	0.72
15:DR:90:GLN:HE21	15:DR:90:GLN:CA	1.91	0.72
6:DG:107:LEU:O	26:D4:38:LYS:CG	2.38	0.72
5:AF:4:VAL:HA	5:AF:19:GLU:HB3	1.71	0.72
32:BE:16:HIS:CD2	32:BE:209:ARG:HD2	2.24	0.72
55:DA:2311:A:H3'	55:DA:2312:U:C5	2.25	0.72
31:BA:1158:C:N3	31:BA:1160:G:N7	2.38	0.72
55:DA:2656:U:H5	55:DA:2664:G:N2	1.87	0.72
54:CA:736:C:OP1	48:CU:68:LYS:HE3	1.90	0.72
15:AR:62:THR:CG2	15:AR:75:ILE:HG12	2.20	0.72
13:A0:104:ARG:HH12	13:A0:109:ALA:HB3	1.55	0.72
38:CK:116:LYS:CA	38:CK:116:LYS:HE2	2.20	0.72
3:DD:70:TRP:CH2	3:DD:150:LYS:HA	2.25	0.72
1:AA:1796:U:H2'	1:AA:1797:C:C6	2.25	0.72
36:BI:77:ARG:NH1	36:BI:77:ARG:HB3	2.05	0.72
54:CA:872:A:O2'	54:CA:873:A:H3'	1.89	0.72
1:AA:1899:G:H22	1:AA:1902:C:H41	0.85	0.72
21:DV:140:ASP:CG	21:DV:141:VAL:H	1.91	0.72
34:BG:12:CYS:HB3	34:BG:21:LEU:HD22	1.70	0.72
4:AE:66:HIS:C	4:AE:68:ALA:H	1.93	0.72
32:CE:5:ILE:HD12	32:CE:224:GLN:HG2	1.72	0.72
52:CD:9:A:N6	52:CD:23:A:H62	1.87	0.72
39:BL:43:ALA:HA	39:BL:74:ILE:HD13	1.72	0.72
54:CA:96:G:H5'	54:CA:96:G:H8	1.54	0.72
55:DA:671:C:OP1	11:DO:42:SER:O	2.08	0.72
1:AA:13:A:H5''	1:AA:14:A:OP1	1.90	0.72
54:CA:152:A:H62	54:CA:169:C:N4	1.88	0.72
49:BV:76:PRO:HB2	49:BV:78:ARG:HD3	1.72	0.72
1:AA:2735:G:H2'	1:AA:2736:G:H8	1.54	0.72
54:CA:17:U:H2'	54:CA:18:C:C6	2.25	0.72
54:CA:1352:C:H2'	54:CA:1353:G:C8	2.25	0.72
52:BC:39:U:H2'	52:BC:40:C:H6	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AW:68:ARG:HH11	24:AW:68:ARG:HG3	1.52	0.72
4:AE:108:SER:HB3	4:AE:165:VAL:HG21	1.70	0.72
33:BF:100:ALA:O	33:BF:101:LEU:HB2	1.89	0.72
5:DF:24:LEU:HD23	5:DF:115:ALA:HA	1.71	0.72
57:DY:89:ALA:HB3	56:DJ:15:ALA:HB1	0.72	0.71
28:A6:9:LEU:HD13	28:A6:11:LEU:HD21	1.72	0.71
26:D4:60:GLN:C	26:D4:61:ARG:HD2	2.11	0.71
57:DY:142:LEU:CG	57:DY:143:GLN:H	1.96	0.71
22:D3:3:HIS:O	22:D3:4:LYS:HB2	1.89	0.71
37:BJ:16:LEU:HD12	39:BL:42:ARG:HA	1.72	0.71
26:D4:58:ARG:CA	26:D4:62:ARG:HB3	2.17	0.71
55:DA:1318:C:C2'	55:DA:1319:G:H5''	2.19	0.71
55:DA:2061:G:H5''	55:DA:2503:A:C2	2.25	0.71
36:CI:100:ASN:OD1	48:CU:27:GLY:HA2	1.90	0.71
55:DA:1013:C:O2'	55:DA:1014:U:H5'	1.90	0.71
18:AS:9:TYR:H	18:AS:102:HIS:HD2	1.37	0.71
35:CH:53:LEU:O	35:CH:57:LYS:HG2	1.89	0.71
22:D3:68:GLU:HG2	22:D3:80:HIS:HB2	1.71	0.71
31:BA:1394:A:H5''	31:BA:1395:C:OP2	1.90	0.71
47:BT:3:LYS:HB3	47:BT:61:GLU:HB3	1.72	0.71
22:A3:55:ARG:HB3	22:A3:55:ARG:NH1	2.05	0.71
1:AA:2189:U:C3'	1:AA:2190:G:H5''	2.20	0.71
32:BE:98:LEU:O	32:BE:101:MET:HG2	1.89	0.71
55:DA:1084:A:H5'	55:DA:1085:A:OP2	1.90	0.71
58:DL:10:LEU:HD21	58:DL:55:VAL:HG11	1.71	0.71
58:DL:57:ILE:CD1	58:DL:58:THR:N	2.40	0.71
58:DL:76:TYR:O	58:DL:78:ILE:N	2.22	0.71
57:DY:25:PHE:CG	57:DY:82:PHE:CZ	2.77	0.71
3:DD:69:ARG:HH21	3:DD:192:THR:HB	1.55	0.71
54:CA:1024:G:H3'	54:CA:1025:U:H5''	1.72	0.71
54:CA:1027:C:H2'	54:CA:1028:C:C6	2.24	0.71
55:DA:481:G:H1'	55:DA:506:G:H21	1.54	0.71
4:DE:55:ASN:C	4:DE:57:LYS:H	1.90	0.71
7:DH:87:LEU:HD13	7:DH:148:ILE:HG21	1.72	0.71
1:AA:1048:A:H2	1:AA:1112:G:H21	1.35	0.71
45:CR:82:ILE:HD11	45:CR:88:ARG:CB	2.18	0.71
12:DP:88:GLY:O	12:DP:90:VAL:N	2.23	0.71
11:AO:75:ILE:CD1	11:AO:75:ILE:H	1.92	0.71
8:AK:110:ASP:OD2	8:AK:113:ARG:HB2	1.89	0.71
21:AV:60:GLU:HG3	21:AV:61:LEU:N	2.03	0.71
7:AH:92:ILE:CD1	7:AH:92:ILE:H	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:3:GLU:O	5:AF:19:GLU:HB2	1.89	0.71
1:AA:654(J):A:O2'	1:AA:654(K):C:O5'	2.07	0.71
21:DV:10:ARG:NH2	21:DV:26:GLY:H	1.87	0.71
21:DV:24:LEU:HD21	21:DV:86:VAL:CG2	2.20	0.71
26:D4:46:GLN:CG	26:D4:48:ARG:HG2	2.20	0.71
55:DA:2475:C:N4	55:DA:2529:G:H1	1.86	0.71
3:DD:182:LEU:H	3:DD:272:ALA:HB3	1.55	0.71
48:CU:25:THR:C	48:CU:26:LEU:HD23	2.10	0.71
34:CG:22:LYS:HB2	34:CG:26:CYS:HB2	1.71	0.71
22:A3:72:ARG:HH11	22:A3:72:ARG:HG3	1.56	0.71
21:AV:14:LYS:O	21:AV:17:ALA:HB3	1.89	0.71
7:AH:83:TYR:HA	7:AH:134:SER:HB3	1.71	0.71
18:DS:80:PRO:O	18:DS:100:THR:HG22	1.89	0.71
55:DA:1079:C:H2'	55:DA:1080:A:O4'	1.90	0.71
58:DL:124:ALA:O	58:DL:126:MET:HE3	1.90	0.71
57:DY:94:VAL:O	57:DY:95:GLN:HB2	1.90	0.71
1:AA:959:A:H62	12:AP:82:ARG:NH2	1.88	0.71
3:DD:66:ASP:OD2	3:DD:69:ARG:HG2	1.90	0.71
9:DM:58:ASP:H	9:DM:60:ILE:CD1	2.03	0.71
7:DH:101:ARG:HG2	7:DH:117:PRO:HG3	1.71	0.71
20:AU:39:VAL:HG23	20:AU:40:GLU:H	1.55	0.71
54:CA:1323:G:H2'	54:CA:1324:A:C8	2.25	0.71
35:CH:81:GLU:HG2	35:CH:90:VAL:HG13	1.71	0.71
31:BA:216:G:O2'	31:BA:217:C:O5'	2.08	0.71
1:AA:1786:A:C2	1:AA:2606:C:H1'	2.25	0.71
13:A0:2:ARG:HH11	13:A0:2:ARG:HG3	1.56	0.71
14:AQ:23:ARG:HG2	14:AQ:23:ARG:HH11	1.54	0.71
33:BF:27:LYS:HD3	33:BF:28:GLN:OE1	1.89	0.71
54:CA:524:G:H2'	54:CA:525:C:C6	2.26	0.71
1:AA:5:A:O4'	1:AA:5:A:P	2.47	0.71
13:D0:12:ARG:HH11	13:D0:12:ARG:HG3	1.53	0.71
1:AA:1880:C:H6	1:AA:1880:C:H5'	1.54	0.71
1:AA:415:A:H2'	1:AA:416:C:C6	2.25	0.71
8:DK:25:TYR:HE2	8:DK:29:TYR:HD2	1.37	0.71
54:CA:652:U:H1'	54:CA:653:A:H2	1.54	0.71
55:DA:870:A:OP1	12:DP:6:ARG:HG2	1.90	0.71
56:DJ:7:ARG:HH11	56:DJ:7:ARG:CG	2.02	0.71
1:AA:2415:G:O3'	11:AO:66:GLY:HA3	1.91	0.71
21:DV:177:PRO:O	21:DV:178:GLU:CB	2.36	0.71
51:BX:9:ARG:HH21	51:BX:10:ARG:HE	1.38	0.71
55:DA:481:G:H1'	55:DA:506:G:N2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DM:62:VAL:HG13	9:DM:66:LYS:HD2	1.71	0.71
31:BA:986:A:H2'	31:BA:987:G:C8	2.25	0.71
7:AH:86:GLU:HG3	7:AH:165:ALA:HB2	1.71	0.71
54:CA:486:U:H2'	54:CA:487:A:C8	2.25	0.71
50:BW:56:MET:HG3	50:BW:84:LEU:CD1	2.21	0.71
54:CA:1508:G:H2'	54:CA:1509:C:C6	2.26	0.71
55:DA:2355:C:C4'	22:D3:36:ILE:HD11	2.20	0.71
1:AA:2103:C:H2'	1:AA:2104:G:C8	2.25	0.71
57:DY:138:LEU:HD12	57:DY:139:VAL:N	2.04	0.71
57:DY:8:GLU:O	57:DY:11:ALA:HB3	1.90	0.71
11:AO:64:LYS:HE3	30:A8:30:ARG:NH2	2.04	0.71
1:AA:2267:A:H5''	1:AA:2268:A:C5'	2.20	0.71
7:DH:154:PRO:HG2	7:DH:162:ILE:O	1.91	0.71
40:CM:6:ILE:HG22	40:CM:98:ILE:HG13	1.71	0.71
1:AA:1251:C:H4'	1:AA:1252:G:OP1	1.91	0.71
12:DP:86:GLY:C	12:DP:88:GLY:H	1.94	0.71
55:DA:1332:G:C2	55:DA:1609:A:H2'	2.25	0.71
55:DA:2308:G:N1	55:DA:2311:A:H2	1.89	0.71
55:DA:607:U:O4	55:DA:608:A:N7	2.24	0.71
6:DG:146:TYR:O	6:DG:149:VAL:HG22	1.90	0.71
37:BJ:23:VAL:HG13	37:BJ:43:PHE:CE2	2.26	0.71
55:DA:1188:U:O2'	55:DA:1189:A:H5'	1.91	0.71
10:AN:87:ILE:HG21	10:AN:91:LEU:HA	1.72	0.71
31:BA:366:C:O2'	31:BA:367:U:P	2.48	0.71
31:BA:875:C:O2'	38:BK:14:ARG:HD2	1.90	0.71
12:DP:20:ALA:H	21:DV:79:ARG:HH22	1.36	0.71
1:AA:363(A):A:C2'	1:AA:363(B):G:H5''	2.20	0.71
45:CR:7:GLU:O	45:CR:11:VAL:HG23	1.91	0.71
1:AA:969:U:OP1	25:AX:17:LYS:HG2	1.91	0.71
31:BA:47:C:H4'	31:BA:48:C:O5'	1.90	0.71
48:BU:31:LEU:HG	48:BU:65:ILE:HD13	1.72	0.71
55:DA:1955:U:O2'	55:DA:1956:U:H5'	1.90	0.71
34:BG:63:LYS:HD2	34:BG:198:VAL:HG12	1.73	0.71
31:BA:1032:A:H3'	31:BA:1032(A):G:C5'	2.21	0.71
54:CA:713:G:N2	54:CA:777:A:H1'	2.06	0.71
55:DA:883:G:O5'	55:DA:883:G:H8	1.70	0.71
47:CT:77:VAL:O	47:CT:78:GLU:HB2	1.90	0.71
30:A8:62:LEU:HB3	30:A8:63:PRO:HD3	1.72	0.71
20:DU:20:TYR:CE1	20:DU:42:VAL:HA	2.26	0.71
54:CA:1363:A:H1'	54:CA:1365:G:C5	2.25	0.71
55:DA:2785:C:O2'	4:DE:64:LYS:HD3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:A1:92:ARG:HB2	17:A2:11:GLN:HE22	1.53	0.71
55:DA:654(K):C:H2'	55:DA:654(L):G:C8	2.24	0.71
1:AA:993:G:OP1	16:A1:50:ARG:NH2	2.24	0.71
33:CF:105:GLU:HG2	33:CF:106:VAL:H	1.54	0.71
6:DG:151:ALA:HB3	6:DG:153:ARG:NH1	2.05	0.71
42:BO:46:LYS:HG2	42:BO:47:LYS:N	2.04	0.71
16:D1:95:LEU:CD1	17:D2:11:GLN:HE21	2.02	0.71
8:DK:77:LEU:O	8:DK:78:THR:HG23	1.91	0.71
3:AD:35:LYS:NZ	3:AD:65:ILE:HA	2.04	0.71
48:CU:18:ARG:H	48:CU:18:ARG:HD3	1.54	0.71
38:BK:103:VAL:CG2	38:BK:110:ALA:HB2	2.21	0.71
39:BL:37:PHE:HB3	39:BL:43:ALA:HB1	1.72	0.71
1:AA:1056:G:H4'	1:AA:1086:A:C1'	2.19	0.71
10:AN:47:ILE:CG1	10:AN:48:PRO:HD2	2.21	0.71
55:DA:1112:G:H2'	55:DA:1113:U:C6	2.25	0.71
54:CA:827:U:H5'	54:CA:828:A:OP2	1.91	0.71
7:AH:125:VAL:HG22	7:AH:126:PRO:HB3	1.73	0.71
36:CI:99:ALA:HB3	48:CU:29:PHE:HE2	1.55	0.71
36:CI:69:GLU:O	36:CI:72:VAL:HG12	1.90	0.71
34:BG:127:THR:HG21	34:BG:149:ALA:HB2	1.72	0.71
54:CA:112:G:H5'	54:CA:389:A:H4'	1.72	0.71
49:BV:76:PRO:HB2	49:BV:78:ARG:NH1	2.05	0.71
49:BV:17:GLU:O	49:BV:21:GLU:HG2	1.91	0.71
54:CA:658:G:H2'	54:CA:659:U:H6	1.55	0.71
18:AS:14:PRO:HB3	18:AS:18:ARG:HH21	1.55	0.71
32:CE:40:HIS:C	32:CE:41:ILE:HD12	2.11	0.71
31:BA:707:C:H2'	31:BA:708:C:H6	1.56	0.71
56:DJ:1:MET:SD	56:DJ:2:ALA:CB	2.79	0.71
58:DL:90:LYS:N	58:DL:91:PRO:HA	2.06	0.71
21:AV:116:VAL:H	21:AV:177:PRO:HG3	1.55	0.71
49:BV:16:LEU:HA	49:BV:19:VAL:HB	1.73	0.71
11:AO:52:GLU:CD	11:AO:54:GLY:H	1.94	0.71
31:BA:887:G:C2'	31:BA:888:G:C5'	2.61	0.71
3:DD:62:TYR:HA	3:DD:87:ASN:ND2	2.06	0.71
20:DU:84:ARG:HH12	20:DU:97:ARG:CB	2.04	0.71
23:AZ:86:SER:H	23:AZ:87:PRO:CD	2.04	0.71
23:AZ:7:ILE:HG12	23:AZ:91:LYS:NZ	2.06	0.71
1:AA:484:C:H2'	1:AA:485:C:C6	2.24	0.71
55:DA:2469:A:N1	55:DA:2481:G:N3	2.39	0.71
1:AA:686:G:H21	1:AA:788:A:H61	1.38	0.71
1:AA:61:G:H5'	24:AW:50:ILE:HG12	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:C1:34:G:H2'	53:C1:35:A:C8	2.26	0.71
31:BA:1067:A:O2'	31:BA:1068:G:H8	1.73	0.71
6:AG:115:ARG:NH1	43:BP:7:VAL:HG21	2.05	0.71
55:DA:1047:G:H2'	55:DA:1110:G:H22	1.54	0.71
1:AA:907:U:O2'	12:AP:101:ARG:NH2	2.24	0.71
31:BA:366:C:C4'	31:BA:367:U:OP1	2.36	0.71
16:D1:50:ARG:HG2	16:D1:53:ARG:HH21	1.55	0.71
22:A3:7:LEU:HA	52:BC:2:C:C5'	2.20	0.71
4:AE:137:HIS:HB3	4:AE:138:PRO:HD2	1.70	0.71
31:BA:353:A:H8	31:BA:353:A:H5'	1.54	0.71
36:BI:55:ASP:OD1	36:BI:56:PRO:HD2	1.91	0.71
41:BN:21:ILE:HD13	41:BN:94:ALA:HB1	1.71	0.71
38:CK:25:ASP:HA	38:CK:59:LEU:O	1.90	0.71
1:AA:270(E):G:H2'	1:AA:270(F):U:C6	2.26	0.71
21:DV:19:ARG:NH1	21:DV:84:GLU:O	2.23	0.71
56:DJ:6:GLU:C	56:DJ:10:GLU:HG2	2.11	0.71
57:DY:21:GLN:NE2	57:DY:21:GLN:CA	2.52	0.71
1:AA:2344:U:OP1	28:A6:38:LYS:HE3	1.90	0.71
54:CA:523:A:H61	42:CO:92:ASP:HB2	1.55	0.71
3:DD:69:ARG:NH2	3:DD:128:GLY:O	2.20	0.71
54:CA:1305:G:HO2'	54:CA:1306:A:H8	1.37	0.71
54:CA:38:G:C2	54:CA:397:A:C2	2.73	0.71
55:DA:631:A:OP2	30:D8:46:ARG:NH2	2.21	0.71
9:DM:43:THR:HG22	9:DM:45:ASN:ND2	2.06	0.71
9:DM:96:GLU:O	9:DM:98:VAL:N	2.24	0.71
52:BD:15:G:H1	52:BD:48:C:N4	1.89	0.71
13:D0:56:LYS:HE2	13:D0:94:TYR:CZ	2.26	0.71
17:D2:49:THR:OG1	17:D2:50:PRO:HD2	1.91	0.71
54:CA:188:U:H2'	54:CA:189:U:C5'	2.19	0.71
55:DA:676:A:H2	55:DA:802:A:H61	1.37	0.71
53:C1:29:G:H2'	53:C1:30:C:C4	2.25	0.71
55:DA:2580:U:H4'	4:DE:130:GLY:CA	2.21	0.71
54:CA:1321:C:H5'	54:CA:1322:C:H5"	1.72	0.71
2:DB:81:G:N7	2:DB:96:G:N3	2.38	0.71
10:AN:87:ILE:CG2	10:AN:91:LEU:HA	2.20	0.71
48:CU:43:PHE:HE2	48:CU:58:LEU:HD11	1.55	0.71
31:BA:689:C:H2'	31:BA:690:G:H5'	1.72	0.71
55:DA:196:A:H2'	55:DA:805:G:O6	1.89	0.71
1:AA:1286:A:H2'	1:AA:1288:U:OP2	1.90	0.71
39:CL:45:ALA:O	39:CL:48:GLU:HG2	1.90	0.71
33:BF:73:PRO:O	33:BF:76:VAL:HG22	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:658:C:H2'	55:DA:659:C:C6	2.26	0.71
14:AQ:106:ARG:O	14:AQ:107:GLU:HB3	1.90	0.71
4:DE:101:ARG:HG2	4:DE:169:ASN:OD1	1.90	0.71
45:CR:39:LEU:HD12	45:CR:59:MET:CE	2.20	0.71
1:AA:669:G:N3	1:AA:669:G:H2'	2.06	0.71
48:BU:43:PHE:HA	48:BU:51:LEU:HD12	1.72	0.71
8:AK:72:LEU:HD21	8:AK:107:VAL:HG21	1.72	0.71
55:DA:2030:A:H4'	55:DA:2031:A:H8	1.56	0.71
4:AE:10:GLY:O	4:AE:11:MET:HB2	1.90	0.71
56:DJ:15:ALA:C	56:DJ:16:THR:CG2	2.59	0.71
56:DJ:20:LEU:N	56:DJ:20:LEU:HD12	2.06	0.71
1:AA:894:C:H3'	1:AA:895:U:C6	2.14	0.71
55:DA:1359:A:H2'	55:DA:1360:A:C5'	2.20	0.71
12:AP:10:ARG:O	12:AP:11:LYS:HB2	1.89	0.71
54:CA:105:G:H2'	54:CA:106:C:H6	1.54	0.71
3:DD:30:GLU:HG3	3:DD:63:ARG:NE	2.05	0.71
30:A8:50:LEU:CG	30:A8:51:ALA:H	1.94	0.71
54:CA:1028(A):C:H2'	54:CA:1028(B):C:C6	2.26	0.71
4:DE:50:GLY:HA3	4:DE:74:PRO:HG3	1.73	0.71
28:D6:48:VAL:O	28:D6:49:HIS:HB2	1.89	0.71
1:AA:454:A:H4'	1:AA:455:C:OP2	1.90	0.71
1:AA:2790:A:H1'	1:AA:2893:G:O2'	1.90	0.71
31:BA:279:A:C4'	31:BA:280:C:H5''	2.16	0.71
45:CR:82:ILE:HG23	45:CR:83:GLU:N	2.05	0.71
3:AD:147:LEU:CD2	3:AD:155:LEU:HD11	2.19	0.71
37:BJ:108:ALA:O	37:BJ:111:ARG:HG3	1.89	0.71
1:AA:99:U:O2	1:AA:99:U:H2'	1.89	0.71
46:CS:19:ILE:HG22	46:CS:36:ILE:HG13	1.71	0.71
55:DA:229:A:N6	55:DA:417:C:O2'	2.19	0.71
54:CA:192:U:H4'	50:CW:102:GLY:O	1.90	0.71
1:AA:1799:G:N2	1:AA:1818:U:O2'	2.24	0.71
54:CA:686:U:H1'	41:CN:42:TRP:HE1	1.54	0.71
15:DR:123:GLN:O	15:DR:125:ARG:N	2.23	0.71
55:DA:270(K):C:H2'	55:DA:270(L):U:H5''	1.72	0.71
1:AA:1948:G:H5'	1:AA:1948:G:C8	2.26	0.71
9:AM:112:LEU:HA	9:AM:115:ARG:HB2	1.73	0.71
54:CA:498:A:O2'	54:CA:500:G:O4'	2.09	0.71
10:AN:111:PHE:HB3	10:AN:114:ILE:HD12	1.73	0.71
19:DT:40:LYS:O	19:DT:43:VAL:HG12	1.90	0.71
19:AT:67:GLY:O	19:AT:69:TYR:N	2.23	0.71
47:BT:59:ILE:HD13	47:BT:73:VAL:HA	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1218:C:H2'	54:CA:1219:U:C6	2.26	0.71
55:DA:284:U:H2'	55:DA:285:C:C6	2.26	0.71
22:A3:53:MET:HB3	22:A3:59:LEU:HD23	1.71	0.71
6:DG:21:ARG:HH11	6:DG:21:ARG:HG2	1.55	0.71
1:AA:270(Z):U:HO2'	1:AA:271(A):C:H5	1.38	0.71
56:DI:30:ALA:CA	56:DJ:3:LEU:HD21	2.20	0.71
58:DL:132:ARG:C	58:DL:137:GLU:OE2	2.29	0.71
57:DY:24:PHE:C	57:DY:24:PHE:HD2	1.94	0.71
21:DV:191:VAL:O	21:DV:192:ALA:HB2	1.91	0.71
49:BV:19:VAL:HG13	49:BV:44:MET:HB3	1.71	0.71
1:AA:860:U:O2'	1:AA:861:A:H5'	1.91	0.71
3:DD:35:LYS:HD3	3:DD:63:ARG:HB3	1.73	0.71
6:AG:109:VAL:HA	26:A4:37:SER:CB	2.19	0.71
55:DA:482:A:H4'	20:DU:47:LYS:HD2	1.73	0.71
17:A2:5:VAL:HG23	17:A2:37:VAL:CG1	2.20	0.71
34:CG:173:TRP:CD1	34:CG:174:LEU:HG	2.26	0.71
1:AA:1673:U:C2'	1:AA:1674:G:H5'	2.21	0.71
5:AF:31:HIS:HB2	11:AO:9:ASN:ND2	2.05	0.71
8:DK:60:GLU:HG3	8:DK:61:ARG:HH12	1.56	0.71
11:AO:80:TYR:CD1	11:AO:111:ARG:HB3	2.26	0.71
54:CA:403:C:O2'	54:CA:404:U:H5'	1.91	0.71
55:DA:2189:U:C2'	55:DA:2190:G:H5''	2.21	0.71
1:AA:2741:A:H61	1:AA:2763:G:H2'	1.55	0.71
32:CE:60:ASP:O	32:CE:64:ARG:HG2	1.91	0.71
1:AA:845:G:H21	1:AA:933:A:H61	1.38	0.71
32:BE:115:LEU:HD13	32:BE:145:LEU:HD12	1.73	0.71
3:AD:76:PRO:HG2	3:AD:98:VAL:CG2	2.20	0.71
42:BO:89:ARG:HG2	42:BO:90:VAL:H	1.55	0.71
31:BA:448:A:OP2	31:BA:485:G:N2	2.23	0.71
55:DA:1280:G:H2'	55:DA:1281:G:H5'	1.72	0.71
52:CB:9:A:O2'	52:CB:10:G:OP1	2.08	0.71
55:DA:1385:G:H4'	55:DA:1386:C:OP1	1.91	0.71
31:BA:965:A:H4'	31:BA:966:G:OP1	1.89	0.71
15:AR:11:GLU:N	15:AR:11:GLU:OE1	2.23	0.70
55:DA:1058:U:C2'	55:DA:1059:G:C8	2.68	0.70
55:DA:1082:U:O3'	58:DL:117:THR:CG2	2.38	0.70
56:DJ:18:LEU:HA	56:DJ:21:LYS:CB	2.19	0.70
56:DJ:20:LEU:H	56:DJ:20:LEU:CD1	2.04	0.70
57:DY:134:LEU:C	57:DY:137:GLU:HG2	2.11	0.70
30:A8:38:GLY:O	30:A8:41:ILE:HG22	1.91	0.70
25:AX:52:HIS:HD2	25:AX:52:HIS:H	1.38	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:794:A:H2'	54:CA:795:C:C6	2.26	0.70
49:CV:64:GLU:O	49:CV:67:VAL:HG23	1.90	0.70
28:D6:40:CYS:SG	28:D6:45:LYS:HD3	2.30	0.70
30:D8:23:VAL:HG12	30:D8:46:ARG:HB3	1.71	0.70
14:DQ:60:GLY:O	14:DQ:61:ASN:HB2	1.90	0.70
1:AA:1049:C:N4	7:AH:2:SER:HB2	2.05	0.70
55:DA:639:U:H2'	55:DA:640:C:C6	2.26	0.70
6:DG:112:PRO:HA	26:D4:37:SER:HB2	1.73	0.70
21:AV:28:MET:HG3	21:AV:37:VAL:HG11	1.73	0.70
53:C1:36:G:C3'	53:C1:37:G:H5''	2.20	0.70
13:D0:67:LEU:CD1	13:D0:76:VAL:HG21	2.21	0.70
15:DR:98:LYS:HB3	15:DR:100:TYR:CE1	2.26	0.70
1:AA:1161:C:H1'	17:A2:8:GLY:O	1.90	0.70
32:BE:188:ALA:HB1	32:BE:192:SER:HB2	1.72	0.70
14:AQ:15:ARG:O	14:AQ:19:LYS:HD3	1.91	0.70
54:CA:1116:C:H2'	54:CA:1117:G:C5'	2.20	0.70
6:AG:121:ASN:HD22	6:AG:122:PRO:CD	2.04	0.70
31:BA:628:G:H2'	31:BA:629:G:H8	1.55	0.70
55:DA:1666:G:H4'	10:DN:6:THR:HG23	1.73	0.70
39:BL:111:ARG:HG2	39:BL:112:LYS:N	2.04	0.70
1:AA:655:A:H2'	1:AA:656:G:H5'	1.73	0.70
32:CE:121:LEU:O	32:CE:121:LEU:HD23	1.89	0.70
15:DR:66:VAL:HA	15:DR:71:GLY:HA2	1.72	0.70
44:BQ:26:ARG:HD3	44:BQ:43:CYS:HB3	1.71	0.70
55:DA:1682:G:H2'	55:DA:1683:C:C6	2.26	0.70
4:AE:8:LYS:HG2	4:AE:192:ASN:HA	1.73	0.70
58:DL:77:LEU:HD21	58:DL:111:LYS:NZ	2.07	0.70
57:DY:132:ASP:O	57:DY:134:LEU:CD2	2.38	0.70
1:AA:1899:G:N2	1:AA:1902:C:C5	2.58	0.70
6:AG:97:ASP:H	6:AG:100:TRP:HD1	1.36	0.70
13:D0:33:ARG:HH22	27:D5:55:ARG:CG	1.96	0.70
49:CV:86:GLU:OE2	49:CV:86:GLU:HA	1.89	0.70
8:AK:82:ARG:HG3	8:AK:82:ARG:HH11	1.54	0.70
9:AM:35:ARG:HB3	9:AM:42:TRP:HZ3	1.54	0.70
40:CM:6:ILE:O	40:CM:6:ILE:HD12	1.91	0.70
23:AZ:92:LYS:HZ2	23:AZ:92:LYS:HB3	1.56	0.70
30:D8:36:LYS:HB3	30:D8:40:GLU:CG	2.19	0.70
27:D5:40:LYS:HG2	27:D5:46:CYS:HB3	1.73	0.70
32:BE:208:ILE:HA	32:BE:211:ILE:HD12	1.72	0.70
32:BE:80:ILE:CD1	32:BE:211:ILE:HG22	2.20	0.70
32:BE:7:VAL:HG13	32:BE:8:LYS:HD3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1266:G:OP1	1:AA:1266:G:H4'	1.91	0.70
30:D8:60:LEU:O	30:D8:63:PRO:HD2	1.89	0.70
55:DA:226:G:H1'	55:DA:228:A:N6	2.06	0.70
1:AA:1314:C:H5'	1:AA:1314:C:H6	1.56	0.70
55:DA:1925:C:C6	55:DA:1925:C:C3'	2.63	0.70
8:DK:60:GLU:HG3	8:DK:61:ARG:NH1	2.07	0.70
34:BG:100:ARG:HH12	34:BG:137:SER:CB	2.03	0.70
54:CA:93:U:C2'	54:CA:95:G:H5''	2.20	0.70
34:CG:28:SER:HB3	34:CG:29:PRO:CD	2.20	0.70
42:CO:27:LEU:HD13	42:CO:28:LYS:H	1.54	0.70
27:A5:40:LYS:NZ	27:A5:46:CYS:H	1.88	0.70
21:DV:15:PRO:O	21:DV:19:ARG:HB2	1.91	0.70
55:DA:961:C:H5''	55:DA:962:G:OP2	1.91	0.70
31:BA:539:A:H2'	31:BA:540:G:C8	2.26	0.70
55:DA:270(F):U:H2'	55:DA:270(G):C:C6	2.25	0.70
1:AA:2461:C:H2'	1:AA:2462:U:C6	2.25	0.70
38:BK:89:PRO:HA	38:BK:92:ARG:HH11	1.55	0.70
1:AA:185:U:H4'	1:AA:218:A:H4'	1.71	0.70
15:AR:12:SER:HB3	15:AR:15:VAL:HG13	1.71	0.70
58:DL:76:TYR:C	58:DL:78:ILE:N	2.41	0.70
57:DY:27:VAL:CA	57:DY:111:LEU:H	2.03	0.70
57:DY:27:VAL:HA	57:DY:111:LEU:CD1	2.19	0.70
57:DY:25:PHE:CG	57:DY:82:PHE:CG	2.79	0.70
49:BV:44:MET:HA	49:BV:47:HIS:CD2	2.25	0.70
55:DA:1360:A:C6	55:DA:1372:U:O4	2.43	0.70
11:AO:57:THR:HG23	11:AO:57:THR:O	1.91	0.70
12:AP:12:GLN:HE21	12:AP:73:PRO:CD	2.03	0.70
43:BP:25:ILE:HG22	43:BP:26:GLY:N	2.06	0.70
55:DA:479:A:H4'	55:DA:480:A:OP1	1.90	0.70
28:D6:28:ARG:NH1	28:D6:28:ARG:HB3	2.05	0.70
1:AA:2092:U:N3	1:AA:2225:A:O2'	2.24	0.70
52:BD:48:C:H5	52:BD:59:U:H1'	1.55	0.70
35:BH:32:VAL:HG12	35:BH:33:VAL:N	2.04	0.70
20:AU:38:ILE:HG22	20:AU:66:PRO:CA	2.19	0.70
54:CA:375:U:OP1	46:CS:69:THR:HG21	1.90	0.70
7:DH:20:ALA:HB3	7:DH:21:PRO:HD2	1.73	0.70
55:DA:1043:C:C2'	55:DA:1044:G:H5''	2.22	0.70
55:DA:528:A:H2	55:DA:2043:C:H5'	1.55	0.70
54:CA:992:U:H1'	54:CA:993:G:C2	2.27	0.70
1:AA:704:G:H2'	1:AA:726:G:H22	1.56	0.70
4:DE:101:ARG:CZ	4:DE:171:GLU:HB2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BP:49:THR:HB	43:BP:52:GLU:HG3	1.73	0.70
5:DF:40:GLN:HE22	5:DF:184:TYR:H	1.37	0.70
42:CO:104:VAL:HG12	42:CO:105:TYR:CD1	2.26	0.70
54:CA:1468:A:H2'	54:CA:1469:G:O4'	1.91	0.70
16:A1:5:LYS:HB2	16:A1:5:LYS:NZ	2.07	0.70
1:AA:2824:C:H2'	1:AA:2825:C:H5'	1.71	0.70
7:AH:9:ILE:HD12	7:AH:49:VAL:HG11	1.73	0.70
58:DL:141:ALA:CB	58:DL:142:PRO:HA	2.21	0.70
57:DY:93:LEU:CD2	57:DY:126:ALA:CB	2.64	0.70
57:DY:141:VAL:CG1	57:DY:142:LEU:H	1.92	0.70
28:D6:20:ASN:HD22	28:D6:42:TRP:HH2	1.37	0.70
1:AA:1928:A:C2'	1:AA:1929:G:H5''	2.20	0.70
50:CW:23:ARG:O	50:CW:27:LYS:HB2	1.91	0.70
7:DH:117:PRO:HB3	7:DH:123:PHE:CE1	2.26	0.70
54:CA:1502:A:H5''	54:CA:1503:A:OP2	1.91	0.70
54:CA:1139:G:H4'	54:CA:1140:C:O5'	1.91	0.70
54:CA:1128:C:H5'	39:CL:16:ARG:NH2	2.05	0.70
32:CE:31:TYR:O	32:CE:42:ILE:HG13	1.92	0.70
20:AU:81:LYS:HD3	20:AU:97:ARG:CZ	2.21	0.70
7:AH:152:ARG:O	7:AH:154:PRO:HD3	1.91	0.70
35:BH:51:VAL:HB	35:BH:52:PRO:CD	2.19	0.70
1:AA:654(K):C:H2'	1:AA:654(L):G:H8	1.56	0.70
55:DA:1726:G:O2'	55:DA:1727:U:H5'	1.92	0.70
1:AA:2354:G:O2'	22:A3:36:ILE:HD12	1.91	0.70
10:DN:112:MET:O	10:DN:115:VAL:HG22	1.92	0.70
12:AP:48:GLU:O	12:AP:52:VAL:HG12	1.91	0.70
35:CH:12:LEU:HD23	35:CH:13:ILE:N	2.06	0.70
1:AA:2123:G:O2'	1:AA:2124:G:H5'	1.92	0.70
55:DA:1504:C:H5'	55:DA:1505:C:OP2	1.91	0.70
47:BT:68:ARG:HH11	47:BT:68:ARG:HG2	1.56	0.70
54:CA:194:C:H2'	54:CA:195:A:H5''	1.73	0.70
1:AA:200:U:H4'	23:AZ:34:THR:HG22	1.72	0.70
1:AA:2820:A:H61	4:AE:192:ASN:CB	2.04	0.70
58:DL:108:ALA:HA	58:DL:111:LYS:CE	2.21	0.70
21:AV:177:PRO:C	21:AV:178:GLU:HG3	2.11	0.70
1:AA:946:G:HO2'	1:AA:947:G:C5'	2.03	0.70
21:DV:118:GLN:CA	21:DV:118:GLN:NE2	2.45	0.70
30:A8:48:PHE:C	30:A8:49:VAL:HG23	2.12	0.70
17:A2:49:THR:CB	17:A2:50:PRO:HD3	2.22	0.70
54:CA:1126:U:H1'	54:CA:1280:A:N7	2.06	0.70
12:DP:88:GLY:C	12:DP:90:VAL:N	2.43	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DH:4:ILE:HG13	7:DH:6:ARG:CD	2.21	0.70
1:AA:2531:A:H4'	7:AH:157:TYR:CE2	2.27	0.70
14:DQ:27:SER:HA	14:DQ:88:ASP:HB3	1.73	0.70
34:CG:114:ARG:NH1	34:CG:114:ARG:HG3	2.07	0.70
54:CA:702:A:H5'	54:CA:703:G:N7	2.07	0.70
31:BA:579:G:C5'	31:BA:728:A:H1'	2.21	0.70
31:BA:1176:A:H2'	31:BA:1177:G:H5'	1.74	0.70
34:CG:50:ARG:CZ	53:C1:57:U:O2'	2.40	0.70
31:BA:1330:U:H4'	43:BP:23:TYR:CE2	2.26	0.70
10:DN:71:ARG:HG3	10:DN:71:ARG:HH11	1.55	0.70
12:AP:21:THR:HA	12:AP:98:LYS:HB2	1.74	0.70
55:DA:2656:U:H5	55:DA:2664:G:H21	1.39	0.70
45:CR:39:LEU:HD12	45:CR:59:MET:HE1	1.73	0.70
3:AD:169:GLU:HG2	3:AD:174:ILE:HD11	1.72	0.70
21:DV:76:LEU:CD2	21:DV:76:LEU:H	2.03	0.70
58:DL:59:ILE:C	58:DL:60:TYR:CD1	2.64	0.70
57:DY:23:SER:OG	57:DY:24:PHE:N	2.22	0.70
57:DY:43:ALA:CA	57:DY:47:ASN:ND2	2.55	0.70
57:DY:88:ALA:C	57:DY:92:THR:H	1.95	0.70
57:DY:142:LEU:C	57:DY:142:LEU:HD22	2.10	0.70
54:CA:1225:A:H5"	54:CA:1226:C:OP2	1.91	0.70
1:AA:34:C:HO2'	1:AA:35:G:H8	1.39	0.70
17:A2:82:ARG:HH11	17:A2:82:ARG:HG3	1.57	0.70
40:CM:5:ARG:HH21	40:CM:99:LYS:HD2	1.56	0.70
33:CF:70:VAL:HG12	33:CF:71:ALA:N	2.07	0.70
1:AA:265:A:O2'	1:AA:266:G:C4'	2.38	0.70
6:DG:104:GLU:OE1	26:D4:23:GLU:HB3	1.91	0.70
6:DG:6:ALA:HB3	6:DG:104:GLU:OE2	1.91	0.70
31:BA:399:G:H2'	31:BA:400:C:C6	2.26	0.70
33:CF:148:GLY:HA3	33:CF:172:ARG:O	1.91	0.70
31:BA:922:G:H4'	35:BH:20:GLN:HA	1.74	0.70
12:AP:20:ALA:HB2	21:AV:79:ARG:NH2	2.07	0.70
31:BA:686:U:H2'	31:BA:687:A:C8	2.27	0.70
31:BA:1241:G:H2'	31:BA:1242:C:C6	2.27	0.70
3:AD:131:LEU:HD12	3:AD:131:LEU:N	2.07	0.70
1:AA:1288:U:O2'	1:AA:1647:G:N2	2.24	0.70
1:AA:415:A:H2'	1:AA:416:C:H6	1.56	0.70
8:DK:25:TYR:HE2	8:DK:29:TYR:CD2	2.09	0.70
47:BT:10:VAL:HG13	47:BT:19:VAL:HB	1.74	0.70
1:AA:676:A:H8	1:AA:2069:G:H21	1.37	0.70
55:DA:352:G:H5'	55:DA:353:G:OP2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BK:84:ARG:HH12	38:BK:86:ILE:HD13	1.55	0.70
54:CA:1286:A:OP1	51:CX:26:LYS:HD2	1.90	0.70
56:DI:16:THR:HG23	56:DI:17:VAL:HG22	1.72	0.70
57:DY:70:GLU:O	57:DY:71:LEU:CB	2.39	0.70
57:DY:92:THR:HG22	57:DY:93:LEU:N	2.07	0.70
21:DV:194:PRO:O	21:DV:195:GLU:C	2.29	0.70
1:AA:2286:A:OP2	28:A6:28:ARG:CZ	2.39	0.70
52:CB:57:G:H2'	52:CB:58:A:H5''	1.74	0.70
20:DU:63:LYS:HA	20:DU:63:LYS:NZ	2.07	0.70
20:DU:81:LYS:HB2	20:DU:96:ILE:CG2	2.21	0.70
52:BB:74:C:H1'	52:BB:75:C:H5'	1.74	0.70
31:BA:403:C:O2'	31:BA:404:U:H5'	1.91	0.70
4:AE:48:GLN:CG	4:AE:78:LEU:HD12	2.21	0.70
40:CM:37:PRO:HA	40:CM:72:VAL:HG22	1.72	0.70
11:DO:138:LEU:HD12	11:DO:139:LYS:N	2.06	0.70
4:DE:3:GLY:HA3	4:DE:81:ILE:HG13	1.72	0.70
55:DA:1291:C:H2'	55:DA:1292:U:C6	2.26	0.70
3:AD:62:TYR:CE1	3:AD:64:ILE:HA	2.27	0.70
31:BA:706:A:C1'	41:BN:29:ILE:HD11	2.22	0.70
7:AH:85:LYS:O	7:AH:132:ARG:HB2	1.91	0.70
10:DN:93:PRO:HB3	10:DN:114:ILE:HD11	1.73	0.70
1:AA:1829:A:H3'	1:AA:1830:C:H6	1.57	0.70
19:DT:47:PHE:O	19:DT:49:VAL:HG23	1.92	0.70
31:BA:1435:G:H2'	31:BA:1436:U:H6	1.56	0.70
54:CA:652:U:H1'	54:CA:653:A:C2	2.27	0.70
55:DA:1280:G:H2'	55:DA:1281:G:C5'	2.21	0.70
3:DD:110:GLY:O	3:DD:112:GLN:HG3	1.91	0.70
54:CA:440:A:H3'	54:CA:442:C:H6	1.57	0.70
35:CH:126:ARG:HG3	35:CH:126:ARG:HH11	1.56	0.70
54:CA:564:C:H5'	47:CT:32:TYR:CE2	2.27	0.70
38:BK:10:LEU:HD22	38:BK:83:ILE:HD11	1.72	0.70
45:BR:16:ALA:HB1	45:BR:21:ASP:HB3	1.72	0.70
58:DL:110:GLN:HG3	58:DL:111:LYS:HE3	1.72	0.70
57:DY:43:ALA:HB3	57:DY:47:ASN:HA	1.73	0.70
57:DY:88:ALA:O	56:DJ:15:ALA:HB2	1.92	0.70
21:AV:103:ARG:HE	21:AV:103:ARG:HA	1.57	0.70
21:DV:192:ALA:C	21:DV:193:GLU:OE1	2.30	0.70
31:BA:976:G:N2	31:BA:1362(A):C:OP2	2.20	0.70
55:DA:1899:G:N2	55:DA:1902:C:N4	2.11	0.70
21:DV:175:VAL:HB	21:DV:176:PRO:HA	1.72	0.70
49:BV:6:LYS:N	49:BV:6:LYS:HD2	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:960:U:O2'	54:CA:961:U:OP2	2.06	0.70
32:CE:187:LEU:HD11	32:CE:204:ASN:O	1.91	0.70
43:CP:57:ARG:HH21	26:D4:34:GLU:HB2	1.56	0.70
21:AV:53:ILE:CG2	21:AV:71:VAL:HG13	2.20	0.70
52:BD:37:MIA:H2'	52:BD:38:A:O4'	1.92	0.70
3:AD:159:ALA:H	3:AD:196:VAL:HG11	1.56	0.70
31:BA:1452:C:O2	31:BA:1452:C:H2'	1.92	0.70
33:BF:32:LEU:HB3	33:BF:59:ARG:NH1	2.05	0.70
54:CA:112:G:H4'	54:CA:389:A:H5''	1.73	0.70
31:BA:448:A:H2'	31:BA:449:C:O2	1.92	0.70
55:DA:1879:C:H2'	55:DA:1880:C:H5'	1.72	0.70
55:DA:562:U:O2'	55:DA:572:A:O4'	2.09	0.70
1:AA:1403:C:H5''	1:AA:1471:A:H1'	1.72	0.70
7:AH:168:PRO:O	7:AH:169:VAL:HG12	1.91	0.70
38:CK:1:MET:HE2	38:CK:1:MET:H3	1.56	0.70
58:DL:98:ARG:N	58:DL:98:ARG:HH11	1.89	0.70
7:AH:143:GLN:HE22	7:AH:147:ASN:ND2	1.89	0.70
4:AE:8:LYS:HB3	4:AE:192:ASN:HA	1.74	0.70
57:DY:26:LEU:O	57:DY:111:LEU:CB	2.35	0.70
44:CQ:24:CYS:HB2	44:CQ:40:CYS:N	2.06	0.70
32:CE:178:ARG:HD2	38:CK:71:GLY:O	1.92	0.70
11:DO:115:LEU:HB2	11:DO:131:SER:HB2	1.74	0.70
55:DA:607:U:O4	55:DA:608:A:C5	2.44	0.70
29:A7:46:VAL:C	29:A7:47:ARG:HD3	2.12	0.70
9:AM:15:LEU:HB2	9:AM:134:ARG:CG	2.21	0.70
42:CO:39:VAL:HB	42:CO:57:LYS:HB2	1.74	0.70
31:BA:687:A:H4'	31:BA:688:G:O5'	1.90	0.70
34:BG:149:ALA:O	34:BG:153:ARG:HG2	1.92	0.70
54:CA:48:C:H4'	54:CA:49:U:OP2	1.91	0.70
20:AU:28:LYS:HA	20:AU:28:LYS:CE	2.20	0.70
20:AU:28:LYS:HA	20:AU:28:LYS:NZ	2.05	0.70
1:AA:2849:U:OP1	15:AR:95:ARG:NH1	2.25	0.70
1:AA:2316:C:H1'	6:AG:128:ARG:NH2	2.07	0.70
45:CR:8:LYS:O	45:CR:12:ILE:HG13	1.92	0.70
22:A3:53:MET:HB3	22:A3:59:LEU:CD2	2.22	0.70
31:BA:800:G:H8	31:BA:800:G:O5'	1.75	0.70
19:AT:3:THR:HA	19:AT:6:ASP:OD2	1.91	0.70
8:DK:14:ASP:OD1	8:DK:15:VAL:HG22	1.92	0.70
56:DI:23:LEU:HD12	56:DI:23:LEU:N	2.07	0.70
58:DL:19:PRO:HA	58:DL:25:PRO:HG3	1.72	0.70
58:DL:3:LYS:O	58:DL:4:VAL:CG2	2.35	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:971:G:H5''	31:BA:972:C:H5''	1.73	0.70
49:BV:41:VAL:HG23	49:BV:44:MET:CE	2.22	0.70
1:AA:888:C:O2'	1:AA:889:C:OP2	2.08	0.70
26:A4:34:GLU:HB3	43:BP:57:ARG:HH12	1.57	0.70
28:D6:17:LYS:C	28:D6:19:ARG:H	1.91	0.70
55:DA:654(J):A:O2'	55:DA:654(K):C:O5'	2.08	0.70
34:BG:21:LEU:N	34:BG:21:LEU:HD12	2.07	0.70
17:A2:71:LEU:N	17:A2:86:GLY:CA	2.49	0.70
7:DH:8:PRO:HG2	7:DH:69:ARG:NE	2.07	0.70
5:AF:122:LYS:O	5:AF:123:LEU:HB2	1.92	0.70
39:BL:49:PRO:O	39:BL:53:VAL:HG22	1.92	0.70
9:AM:16:ILE:CD1	9:AM:137:LYS:HB2	2.21	0.70
12:AP:31:ASP:N	12:AP:107:ALA:HB2	2.07	0.70
31:BA:1453:G:O6	50:BW:51:GLU:HB2	1.91	0.70
1:AA:2030:A:H4'	1:AA:2031:A:H8	1.56	0.70
12:DP:1:MET:C	12:DP:2:LEU:HD22	2.12	0.70
1:AA:589:C:H2'	1:AA:590:A:C8	2.26	0.70
31:BA:275:G:H5'	47:BT:14:LYS:HD2	1.72	0.70
33:CF:91:LEU:HD11	33:CF:101:LEU:HD12	1.73	0.70
14:AQ:106:ARG:HA	14:AQ:110:LEU:CD1	2.22	0.70
47:CT:59:ILE:CG2	47:CT:71:PHE:HB3	2.22	0.70
55:DA:1204:A:H2	55:DA:1241:A:N1	1.90	0.70
55:DA:469:G:O6	29:D7:37:LYS:HE2	1.92	0.70
23:DZ:3:LYS:HD3	23:DZ:43:TYR:HD2	1.55	0.70
6:DG:130:ASN:OD1	6:DG:160:VAL:HA	1.92	0.70
7:DH:168:PRO:O	7:DH:169:VAL:HG12	1.91	0.69
58:DL:108:ALA:C	58:DL:111:LYS:CD	2.57	0.69
21:AV:145:GLU:O	21:AV:145:GLU:CD	2.30	0.69
54:CA:792:A:H4'	54:CA:793:U:O5'	1.92	0.69
15:AR:27:THR:O	15:AR:89:VAL:HG22	1.92	0.69
17:A2:5:VAL:CG2	17:A2:37:VAL:HG11	2.18	0.69
20:DU:86:ARG:HB2	20:DU:95:LYS:HD2	1.72	0.69
9:DM:45:ASN:HD22	9:DM:45:ASN:H	1.38	0.69
9:DM:7:LYS:O	9:DM:9:VAL:HG13	1.92	0.69
31:BA:1005:A:H5''	31:BA:1006:C:C5	2.27	0.69
6:DG:112:PRO:CA	26:D4:37:SER:HB2	2.22	0.69
20:AU:39:VAL:HG23	20:AU:41:GLY:H	1.55	0.69
55:DA:2064:C:H2'	55:DA:2065:C:C6	2.26	0.69
55:DA:1786:A:C2	55:DA:2606:C:H1'	2.26	0.69
33:BF:18:TRP:NE1	44:BQ:54:PRO:HA	2.05	0.69
31:BA:1060:C:H5''	40:BM:51:ARG:HG2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DH:30:LYS:HE3	7:DH:81:GLU:HA	1.73	0.69
6:AG:128:ARG:HG3	6:AG:128:ARG:HH21	1.57	0.69
35:CH:42:GLY:CA	35:CH:66:MET:HG2	2.22	0.69
34:CG:105:VAL:HG13	34:CG:110:PHE:HB2	1.73	0.69
55:DA:273(F):C:H3'	55:DA:274:G:H5''	1.72	0.69
56:DI:23:LEU:H	56:DI:23:LEU:HD12	1.57	0.69
57:DY:122:VAL:HA	57:DY:126:ALA:HB2	1.72	0.69
57:DY:129:PRO:HD2	57:DY:131:MET:N	2.07	0.69
57:DY:89:ALA:HB3	56:DJ:15:ALA:HB2	1.66	0.69
2:AB:40:U:C4	26:A4:1:MET:SD	2.85	0.69
54:CA:1028(B):C:H3'	54:CA:1029:G:H5''	1.73	0.69
20:DU:81:LYS:HZ3	20:DU:98:VAL:HG11	1.57	0.69
40:CM:38:ILE:HG12	40:CM:71:LEU:O	1.92	0.69
31:BA:954:G:H21	31:BA:1227:A:N6	1.89	0.69
26:D4:38:LYS:C	26:D4:40:HIS:H	1.95	0.69
31:BA:792:A:H4'	31:BA:793:U:O5'	1.93	0.69
24:DW:40:SER:C	24:DW:42:GLY:H	1.94	0.69
1:AA:140:A:C8	1:AA:1408:C:O2'	2.45	0.69
11:AO:85:LEU:HA	11:AO:88:LEU:CB	2.22	0.69
37:BJ:20:ASP:OD2	37:BJ:23:VAL:HG23	1.92	0.69
33:BF:58:GLU:O	33:BF:64:VAL:HA	1.91	0.69
55:DA:2728:U:O2'	55:DA:2729:G:H5'	1.92	0.69
11:DO:38:GLN:O	11:DO:41:ARG:N	2.23	0.69
54:CA:64:G:H4'	54:CA:65:U:H5'	1.73	0.69
31:BA:736:C:H2'	31:BA:737:A:H8	1.55	0.69
21:DV:48:PHE:HE2	21:DV:71:VAL:HG11	1.56	0.69
54:CA:923:A:OP1	35:CH:21:ALA:HB2	1.92	0.69
52:CB:2:C:H2'	52:CB:3:C:C6	2.27	0.69
55:DA:974:G:O2'	55:DA:975:G:N7	2.24	0.69
54:CA:418:C:H2'	54:CA:419:C:H6	1.57	0.69
58:DL:15:GLY:O	58:DL:16:LYS:HB2	1.90	0.69
58:DL:34:ILE:O	58:DL:34:ILE:HG23	1.92	0.69
58:DL:95:LYS:HB3	58:DL:136:VAL:CG2	2.20	0.69
39:BL:17:VAL:HG11	39:BL:81:ILE:HD13	1.73	0.69
8:DK:76:THR:HG23	8:DK:139:GLN:HE22	1.56	0.69
5:AF:22:ALA:C	5:AF:24:LEU:N	2.44	0.69
3:AD:35:LYS:HZ1	3:AD:65:ILE:HA	1.55	0.69
55:DA:468:G:N7	29:D7:39:ARG:NH2	2.34	0.69
24:AW:51:ARG:HE	24:AW:55:ARG:HH12	1.38	0.69
5:DF:136:THR:O	5:DF:140:LEU:HB2	1.92	0.69
5:DF:198:ALA:CA	5:DF:201:VAL:HG12	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AM:67:LEU:O	9:AM:88:GLU:HB2	1.93	0.69
40:CM:40:LEU:HD12	40:CM:69:ASN:HB3	1.75	0.69
55:DA:1784:A:H4'	55:DA:1785:A:C5'	2.21	0.69
55:DA:1251:C:O2'	55:DA:1252:G:H3'	1.91	0.69
45:BR:82:ILE:HD11	45:BR:87:ILE:O	1.92	0.69
55:DA:205:G:O2'	55:DA:206:U:P	2.49	0.69
55:DA:1762:A:H5''	55:DA:1763:G:OP2	1.91	0.69
1:AA:1657:C:H4'	4:AE:133:LYS:HB3	1.74	0.69
31:BA:1095:U:P	31:BA:1108:G:H1	2.15	0.69
55:DA:752:A:O2'	55:DA:753:C:OP2	2.10	0.69
1:AA:871:U:O2	1:AA:871:U:H2'	1.91	0.69
1:AA:2473:U:H2'	1:AA:2473:U:O2	1.92	0.69
37:CJ:12:LEU:HD22	37:CJ:12:LEU:H	1.57	0.69
3:DD:166:GLN:HE21	3:DD:166:GLN:CA	2.04	0.69
1:AA:1168:G:H2'	1:AA:1169:G:C8	2.28	0.69
56:DI:10:GLU:O	56:DI:14:GLN:HB3	1.92	0.69
56:DI:19:GLU:O	56:DI:20:LEU:C	2.29	0.69
55:DA:1086:A:C2	57:DY:41:ARG:NH2	2.60	0.69
57:DY:52:PHE:HD2	57:DY:52:PHE:N	1.91	0.69
21:AV:106:GLY:C	21:AV:108:PRO:CD	2.49	0.69
31:BA:1306:A:N6	31:BA:1331:G:H1'	2.07	0.69
55:DA:880:G:H2'	55:DA:880:G:N3	2.06	0.69
17:A2:6:LYS:H	17:A2:37:VAL:CG1	2.06	0.69
1:AA:612:G:H5'	1:AA:612:G:C8	2.25	0.69
39:BL:28:VAL:HG13	39:BL:64:THR:HA	1.73	0.69
54:CA:1449:C:C3'	54:CA:1450:U:H5''	2.22	0.69
52:BD:21:A:C2'	52:BD:22:G:H5''	2.22	0.69
43:CP:4:ILE:HG22	43:CP:5:ALA:N	2.08	0.69
6:DG:7:LEU:O	6:DG:7:LEU:HD23	1.92	0.69
55:DA:889:C:H2'	55:DA:889:C:O2	1.92	0.69
3:DD:44:ASN:HD22	3:DD:44:ASN:C	1.92	0.69
55:DA:1113:U:OP1	7:DH:2:SER:N	2.25	0.69
55:DA:2298:A:N6	55:DA:2318:G:H8	1.90	0.69
52:CD:2:C:H2'	52:CD:3:C:C6	2.27	0.69
54:CA:1312:G:N7	49:CV:4:SER:OG	2.22	0.69
24:AW:17:SER:HB2	24:AW:18:PRO:CA	2.21	0.69
23:DZ:41:ARG:HB2	23:DZ:43:TYR:CE1	2.28	0.69
3:DD:236:GLY:C	3:DD:237:GLU:OE2	2.30	0.69
58:DL:141:ALA:HB1	58:DL:142:PRO:C	2.13	0.69
57:DY:26:LEU:O	57:DY:111:LEU:CG	2.40	0.69
57:DY:92:THR:O	57:DY:96:PHE:O	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A4:63:TYR:CE2	49:BV:41:VAL:HA	2.28	0.69
31:BA:1337:G:H5''	31:BA:1338:G:OP1	1.92	0.69
6:AG:101:ILE:HG13	6:AG:102:PHE:N	2.07	0.69
15:AR:90:GLN:HA	15:AR:90:GLN:HE21	1.57	0.69
52:BD:15:G:N1	52:BD:48:C:N4	2.40	0.69
26:D4:32:TYR:C	26:D4:32:TYR:HD2	1.95	0.69
52:BD:35:A:H61	52:BD:37:MIA:H153	1.57	0.69
55:DA:2308:G:H5'	55:DA:2309:A:OP2	1.92	0.69
1:AA:1803:A:H2	1:AA:1822:G:N3	1.89	0.69
8:DK:2:LYS:HA	8:DK:20:ASP:HA	1.72	0.69
1:AA:2051:A:N6	1:AA:2614:A:H2'	2.08	0.69
2:AB:8:U:H6	2:AB:8:U:H5'	1.56	0.69
55:DA:528:A:H2	55:DA:2043:C:C5'	2.05	0.69
31:BA:737:A:H2'	31:BA:738:C:H6	1.57	0.69
1:AA:1164:G:H2'	1:AA:1165:U:H6	1.56	0.69
24:AW:17:SER:CB	24:AW:18:PRO:CA	2.71	0.69
55:DA:386:G:H3'	55:DA:388:G:N2	2.08	0.69
54:CA:713:G:H21	54:CA:777:A:H1'	1.58	0.69
16:A1:27:LEU:HB3	16:A1:31:SER:HB3	1.75	0.69
55:DA:1543:A:O2'	55:DA:1544:C:O5'	2.09	0.69
4:AE:175:VAL:O	4:AE:177:PRO:HD3	1.92	0.69
54:CA:1391:U:H2'	54:CA:1392:G:C8	2.28	0.69
31:BA:982:U:H4'	31:BA:983:A:O5'	1.93	0.69
57:DY:122:VAL:CB	57:DY:126:ALA:HB3	2.23	0.69
57:DY:43:ALA:HB3	57:DY:47:ASN:HD22	0.56	0.69
49:CV:5:LEU:HD22	49:CV:10:PHE:HE1	1.57	0.69
52:CB:19:G:O6	55:DA:881:G:H2'	1.93	0.69
4:DE:197:ILE:HD11	4:DE:199:ARG:HH22	1.56	0.69
20:AU:20:TYR:OH	20:AU:42:VAL:HA	1.93	0.69
32:CE:19:HIS:NE2	32:CE:206:ASP:HB2	2.07	0.69
26:D4:23:GLU:H	26:D4:23:GLU:CD	1.95	0.69
55:DA:1332:G:H22	55:DA:1609:A:H2'	1.56	0.69
39:BL:106:ALA:O	39:BL:108:VAL:HG13	1.93	0.69
55:DA:654(Q):C:H2'	55:DA:654(R):C:C5	2.27	0.69
1:AA:1314:C:H5'	1:AA:1314:C:C6	2.27	0.69
33:BF:148:GLY:HA3	33:BF:203:PHE:HB3	1.75	0.69
50:BW:74:LYS:C	50:BW:76:ALA:H	1.94	0.69
31:BA:652:U:O4	31:BA:752:G:H2'	1.93	0.69
43:CP:116:THR:O	43:CP:117:VAL:HG12	1.92	0.69
32:BE:22:LYS:HA	32:BE:22:LYS:HE3	1.75	0.69
38:BK:121:ASP:HB2	38:BK:125:ARG:HH22	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BF:83:ARG:O	33:BF:87:LEU:HG	1.93	0.69
1:AA:107:C:H2'	1:AA:108:U:H6	1.58	0.69
1:AA:2864:G:OP1	15:AR:119:LYS:HD2	1.92	0.69
3:DD:17:THR:HG22	3:DD:205:VAL:N	2.08	0.69
32:BE:69:LEU:HD21	32:BE:93:VAL:HG23	1.75	0.69
1:AA:2282:G:O2'	1:AA:2283:C:OP2	2.10	0.69
54:CA:1032(A):G:H2'	54:CA:1032(B):G:C8	2.28	0.69
6:DG:118:ARG:HE	6:DG:118:ARG:HA	1.57	0.69
55:DA:910:A:C5	12:DP:13:GLN:HG3	2.27	0.69
55:DA:848:G:H2'	55:DA:849:A:C8	2.26	0.69
6:AG:10:LYS:HD3	6:AG:10:LYS:O	1.93	0.69
56:DJ:17:VAL:O	56:DJ:18:LEU:CB	2.41	0.69
58:DL:62:ASP:O	58:DL:63:ARG:HB2	1.91	0.69
57:DY:118:THR:CG2	57:DY:119:ALA:N	2.37	0.69
57:DY:24:PHE:C	57:DY:24:PHE:CD2	2.64	0.69
57:DY:74:LEU:CD1	57:DY:75:GLN:HG2	2.22	0.69
57:DY:75:GLN:OE1	57:DY:109:SER:OG	2.05	0.69
21:AV:104:PHE:O	21:AV:105:VAL:HG12	1.91	0.69
4:DE:57:LYS:CE	4:DE:59:VAL:HB	2.23	0.69
1:AA:1929:G:H2'	1:AA:1929:G:N3	2.07	0.69
34:BG:21:LEU:N	34:BG:21:LEU:CD1	2.53	0.69
4:AE:76:ARG:HD3	4:AE:195:LEU:HB2	1.75	0.69
1:AA:2602:A:H61	52:BB:76:A:H5'	1.56	0.69
26:D4:37:SER:HB3	26:D4:42:PHE:CD1	2.28	0.69
12:DP:80:GLU:OE2	22:D3:4:LYS:HE3	1.92	0.69
31:BA:1374:A:C2'	31:BA:1375:A:H5'	2.23	0.69
9:AM:16:ILE:HD13	9:AM:137:LYS:HB2	1.75	0.69
55:DA:34:C:O2'	55:DA:35:G:OP2	2.10	0.69
1:AA:323:G:H5''	1:AA:324:A:H5'	1.74	0.69
7:AH:97:ARG:HG2	7:AH:98:LEU:H	1.58	0.69
26:D4:15:ILE:HD13	26:D4:15:ILE:N	2.06	0.69
33:CF:34:LEU:HD21	33:CF:38:ARG:HD2	1.73	0.69
7:DH:46:GLU:OE2	7:DH:51:ARG:HD2	1.91	0.69
3:AD:4:LYS:HZ1	3:AD:20:ASP:HA	1.57	0.69
54:CA:713:G:H21	54:CA:777:A:C1'	2.05	0.69
1:AA:670:A:H4'	1:AA:671:C:OP1	1.92	0.69
55:DA:443:A:H3'	5:DF:45:ARG:NH1	2.08	0.69
38:BK:21:LYS:O	38:BK:63:LEU:HD23	1.92	0.69
32:BE:235:SER:O	32:BE:239:VAL:HG21	1.91	0.69
54:CA:913:A:O2'	54:CA:914:A:OP2	2.10	0.69
16:D1:44:ASN:HD22	16:D1:44:ASN:N	1.89	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:19:PRO:C	58:DL:25:PRO:HG2	2.13	0.69
58:DL:83:GLY:N	58:DL:99:ILE:HG23	2.07	0.69
57:DY:5:ARG:O	57:DY:7:VAL:CG1	2.41	0.69
56:DI:25:ASP:HA	56:DI:28:LYS:HG2	1.75	0.69
58:DL:125:ARG:NE	58:DL:132:ARG:HH22	1.90	0.69
57:DY:74:LEU:HB3	57:DY:120:LYS:N	2.08	0.69
57:DY:56:ASN:HA	57:DY:60:ARG:HG2	1.72	0.69
1:AA:896:A:H1'	21:AV:176:PRO:HG2	1.74	0.69
21:AV:108:PRO:HB3	21:AV:142:SER:O	1.92	0.69
22:A3:2:ALA:O	22:A3:3:HIS:O	2.11	0.69
21:DV:117:LEU:N	21:DV:117:LEU:HD12	2.08	0.69
31:BA:887:G:C3'	31:BA:888:G:H5'	2.22	0.69
55:DA:1568:G:H5''	3:DD:61:LEU:HD22	1.73	0.69
2:AB:48:A:H2'	2:AB:49:C:C6	2.27	0.69
43:BP:10:PRO:HB2	43:BP:18:ALA:CB	2.13	0.69
30:A8:14:VAL:HG11	30:A8:22:VAL:CG1	2.22	0.69
54:CA:1022:G:H2'	54:CA:1023:G:O4'	1.93	0.69
57:DY:141:VAL:HG22	57:DY:142:LEU:H	1.57	0.69
20:DU:39:VAL:HG12	20:DU:40:GLU:N	2.06	0.69
54:CA:56:U:H2'	54:CA:57:G:C8	2.27	0.69
28:D6:36:LEU:HD12	28:D6:50:ARG:HG2	1.74	0.69
21:DV:127:LYS:O	21:DV:161:VAL:CB	2.41	0.69
16:D1:64:ARG:CG	16:D1:64:ARG:HH21	2.04	0.69
31:BA:1127:G:H4'	31:BA:1148:U:O2	1.92	0.69
7:AH:6:ARG:HB2	7:AH:66:GLY:HA2	1.75	0.69
31:BA:243:A:N6	31:BA:281:G:O2'	2.26	0.69
31:BA:1027:C:H2'	31:BA:1028:C:C6	2.28	0.69
55:DA:2168:G:O4'	55:DA:2168:G:OP1	2.11	0.69
43:CP:4:ILE:HG22	43:CP:5:ALA:H	1.56	0.69
37:BJ:18:TYR:CD2	37:BJ:59:LEU:HB2	2.27	0.69
1:AA:1018:C:H2'	1:AA:1019:U:C6	2.28	0.69
20:AU:63:LYS:NZ	20:AU:63:LYS:HA	2.07	0.69
55:DA:2133:G:H2'	55:DA:2157:G:H22	1.57	0.69
32:BE:47:THR:O	32:BE:51:LEU:HG	1.92	0.69
1:AA:27:G:O2'	1:AA:28:A:P	2.51	0.69
24:DW:65:ASN:ND2	24:DW:69:ARG:HH21	1.90	0.69
55:DA:1212:G:O2'	55:DA:1236:G:N2	2.23	0.69
47:CT:74:LEU:HD12	47:CT:75:ARG:HG2	1.75	0.69
32:BE:22:LYS:HA	32:BE:22:LYS:CE	2.23	0.69
54:CA:412:A:O2'	54:CA:413:G:OP2	2.10	0.69
1:AA:775:G:H4'	1:AA:776:G:O5'	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:869:G:H4'	54:CA:872:A:C1'	2.23	0.69
22:D3:68:GLU:OE1	22:D3:82:ARG:HB2	1.93	0.69
1:AA:2866:U:H2'	1:AA:2866:U:O2	1.91	0.69
45:BR:25:THR:HG21	45:BR:70:LEU:HB2	1.75	0.69
7:DH:59:ARG:HG3	7:DH:59:ARG:HH11	1.58	0.69
51:BX:15:ARG:NH1	51:BX:15:ARG:HB2	2.08	0.69
25:DX:35:ARG:HH21	25:DX:37:LEU:HD21	1.58	0.69
1:AA:654(O):G:H2'	1:AA:654(P):G:H8	1.58	0.69
55:DA:1064:C:O2'	58:DL:89:HIS:HB2	1.93	0.69
58:DL:49:GLY:CA	58:DL:50:ASP:HB3	2.23	0.69
58:DL:56:GLU:HB3	58:DL:68:VAL:HG13	1.73	0.69
57:DY:101:PRO:O	57:DY:102:LYS:HB3	1.92	0.69
57:DY:129:PRO:CD	57:DY:130:THR:H	2.06	0.69
57:DY:13:LEU:HD13	57:DY:13:LEU:O	1.93	0.69
57:DY:18:GLU:CG	57:DY:66:LEU:HD13	2.12	0.69
11:AO:63:PRO:O	11:AO:64:LYS:HB2	1.93	0.69
3:DD:94:LEU:C	3:DD:94:LEU:HD13	2.12	0.69
55:DA:483:A:O2'	20:DU:59:GLY:HA2	1.92	0.69
1:AA:387:U:H4'	1:AA:388:G:O5'	1.93	0.69
21:DV:120:ILE:O	21:DV:171:ILE:HD13	1.93	0.69
1:AA:2061:G:H5''	1:AA:2503:A:N1	2.08	0.69
31:BA:954:G:H4'	43:BP:120:LYS:HG2	1.75	0.69
1:AA:2523:G:H5'	1:AA:2523:G:H8	1.57	0.69
1:AA:480:A:H1'	20:AU:44:ILE:HD13	1.74	0.69
53:B1:34:G:H2'	53:B1:35:A:C8	2.27	0.69
55:DA:1826:G:C4'	3:DD:242:ARG:HH21	2.05	0.69
42:BO:25:PRO:O	42:BO:27:LEU:HD23	1.93	0.69
31:BA:1244:C:H2'	31:BA:1245:A:H8	1.58	0.69
9:AM:68:GLU:HG2	9:AM:88:GLU:OE1	1.92	0.69
36:BI:12:PRO:HG2	36:BI:13:ASN:H	1.57	0.69
41:BN:24:SER:HB3	41:BN:27:ASN:O	1.92	0.69
33:CF:13:GLY:HA3	44:CQ:57:ARG:HE	1.58	0.69
55:DA:2790:A:O2'	55:DA:2791:C:P	2.51	0.69
8:DK:23:PRO:HB2	8:DK:27:ARG:HH12	1.56	0.69
25:DX:19:GLN:HE22	25:DX:52:HIS:CE1	2.10	0.69
54:CA:160:A:H1'	54:CA:344:A:C8	2.27	0.69
24:AW:17:SER:HB2	24:AW:18:PRO:C	2.12	0.69
55:DA:405:U:O2	55:DA:405:U:H2'	1.93	0.69
6:AG:131:TYR:HB3	6:AG:159:VAL:CG1	2.23	0.69
55:DA:1887:C:C3'	55:DA:1888:G:H5''	2.21	0.69
6:DG:126:ASP:CG	6:DG:130:ASN:HB2	2.13	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:443:A:C5	5:DF:45:ARG:HD2	2.28	0.69
12:DP:27:VAL:HA	12:DP:105:GLU:OE1	1.92	0.69
46:CS:68:ASP:C	46:CS:70:ALA:H	1.96	0.69
55:DA:612:G:H2'	55:DA:613:U:O2	1.93	0.69
55:DA:1996:C:H4'	55:DA:1997:G:O5'	1.92	0.69
1:AA:270(K):C:HO2'	1:AA:270(L):U:H5	1.40	0.69
8:AK:56:LYS:HD2	8:AK:60:GLU:HB2	1.75	0.69
21:AV:76:LEU:H	21:AV:76:LEU:HD23	1.56	0.69
10:AN:71:ARG:HH21	10:AN:77:ILE:HG21	1.55	0.69
55:DA:128:C:C4'	29:D7:49:ARG:HH21	2.05	0.69
55:DA:221:A:H4'	55:DA:222:A:O5'	1.92	0.69
55:DA:1076:C:H2'	55:DA:1077:A:C5'	2.02	0.69
56:DJ:19:GLU:OE1	56:DJ:19:GLU:HA	1.93	0.69
57:DY:61:LEU:C	57:DY:63:LEU:H	1.95	0.69
57:DY:25:PHE:CD2	57:DY:82:PHE:CD1	2.80	0.69
1:AA:897:C:H2'	1:AA:898:C:H5'	1.73	0.69
31:BA:977:A:H2'	31:BA:978:A:H5'	1.75	0.69
49:CV:5:LEU:CD1	49:CV:5:LEU:C	2.61	0.69
11:AO:31:ALA:O	11:AO:32:THR:HG23	1.93	0.69
54:CA:789:U:H3'	54:CA:789:U:O2	1.93	0.69
14:DQ:106:ARG:CA	14:DQ:110:LEU:HD11	2.22	0.69
34:BG:34:GLU:C	34:BG:35:ARG:HG3	2.14	0.69
26:D4:32:TYR:HD2	26:D4:33:VAL:N	1.91	0.69
24:DW:41:ILE:HD12	24:DW:41:ILE:C	2.13	0.69
1:AA:2873:A:H8	13:A0:6:SER:N	1.88	0.69
54:CA:703:G:H4'	54:CA:704:A:H5'	1.74	0.69
34:CG:198:VAL:HG12	34:CG:199:ASN:N	2.08	0.69
55:DA:774:A:C2	55:DA:787:U:O2'	2.46	0.69
55:DA:1884:A:C2'	55:DA:1885:A:H5''	2.23	0.69
50:BW:25:ARG:O	50:BW:29:LYS:HE3	1.93	0.69
31:BA:718:G:H5'	41:BN:117:ASN:CG	2.14	0.69
55:DA:2115:G:H21	55:DA:2172:U:H3	1.41	0.69
31:BA:1286:A:H5''	51:BX:25:LYS:HD2	1.74	0.69
55:DA:648:G:O2'	55:DA:649:G:H5'	1.93	0.69
23:DZ:76:ARG:HB2	23:DZ:94:LEU:HD11	1.75	0.69
55:DA:2189:U:C3'	55:DA:2190:G:H5''	2.23	0.69
55:DA:405:U:H5''	55:DA:406:G:OP2	1.93	0.69
55:DA:1431:U:H2'	55:DA:1432:C:C6	2.28	0.69
47:BT:8:GLY:HA3	47:BT:23:VAL:HG22	1.74	0.69
55:DA:1270:C:H5''	55:DA:1271:G:O5'	1.93	0.69
6:DG:8:LYS:O	6:DG:11:TYR:HB3	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:74:LEU:HD13	57:DY:75:GLN:N	2.08	0.68
57:DY:7:VAL:O	57:DY:8:GLU:C	2.30	0.68
21:AV:115:GLY:HA2	21:AV:177:PRO:HG2	0.74	0.68
28:A6:16:CYS:O	28:A6:17:LYS:HB2	1.92	0.68
1:AA:2393:A:OP1	30:A8:30:ARG:HB2	1.92	0.68
21:DV:177:PRO:O	21:DV:177:PRO:HG2	1.91	0.68
3:DD:35:LYS:HG2	3:DD:64:ILE:CG2	2.23	0.68
26:D4:61:ARG:HD2	26:D4:61:ARG:N	2.08	0.68
1:AA:2753:A:H2'	1:AA:2754:U:C5'	2.14	0.68
1:AA:583:G:H5''	16:A1:10:ARG:HH12	1.58	0.68
40:BM:71:LEU:HD12	40:BM:72:VAL:H	1.57	0.68
7:DH:150:ALA:C	7:DH:152:ARG:N	2.42	0.68
31:BA:1007:C:C3'	31:BA:1008:C:H5''	2.24	0.68
52:CD:18:G:H1'	52:CD:58:A:C2	2.29	0.68
43:CP:15:VAL:HG23	43:CP:43:THR:O	1.93	0.68
1:AA:497:A:H2'	1:AA:498:G:O4'	1.94	0.68
32:BE:19:HIS:NE2	32:BE:206:ASP:HB2	2.08	0.68
31:BA:250:A:H1'	31:BA:252:U:C5	2.28	0.68
31:BA:562:C:HO2'	42:BO:15:ARG:HB3	1.55	0.68
25:AX:59:VAL:HG12	25:AX:60:GLU:N	2.07	0.68
33:CF:173:VAL:O	33:CF:175:LEU:HD12	1.92	0.68
33:CF:131:ARG:HG3	33:CF:131:ARG:HH11	1.58	0.68
1:AA:322:A:H3'	5:AF:169:ASN:HD21	1.57	0.68
38:BK:12:ARG:HH11	38:BK:26:VAL:HA	1.59	0.68
55:DA:2657:A:C2	55:DA:2665:A:N7	2.61	0.68
34:BG:152:SER:O	34:BG:155:LEU:HB2	1.93	0.68
55:DA:943:U:OP2	11:DO:36:LYS:HG2	1.91	0.68
11:DO:41:ARG:HH21	11:DO:41:ARG:HG3	1.57	0.68
8:DK:23:PRO:HB2	8:DK:27:ARG:NH1	2.08	0.68
18:DS:29:LEU:HD13	18:DS:69:LEU:HD13	1.75	0.68
55:DA:754:C:H2'	55:DA:755:C:H6	1.56	0.68
55:DA:2271:G:OP1	22:D3:18:ALA:HB1	1.94	0.68
12:DP:35:VAL:CG1	12:DP:130:LYS:HB3	2.22	0.68
1:AA:1296:G:O2'	1:AA:1297:C:H5'	1.93	0.68
7:DH:35:VAL:HG13	7:DH:71:LEU:HG	1.75	0.68
3:AD:267:SER:O	3:AD:269:PHE:N	2.26	0.68
55:DA:780:G:H21	55:DA:783:A:H62	1.41	0.68
1:AA:2154:G:H2'	1:AA:2155:G:H8	1.56	0.68
31:BA:1410:G:H2'	31:BA:1411:C:C6	2.28	0.68
1:AA:407:G:H2'	1:AA:408:G:H8	1.56	0.68
37:CJ:155:ARG:N	37:CJ:155:ARG:HD3	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AN:121:VAL:O	10:AN:122:LEU:HD23	1.92	0.68
38:CK:83:ILE:HG13	38:CK:137:VAL:HG22	1.73	0.68
55:DA:1058:U:O2'	58:DL:115:LEU:HA	1.93	0.68
12:AP:42:ILE:N	12:AP:42:ILE:HD12	2.06	0.68
54:CA:630:G:C2'	54:CA:631:G:C5'	2.59	0.68
8:AK:80:PRO:HA	8:AK:143:SER:HA	1.74	0.68
14:DQ:107:GLU:N	14:DQ:110:LEU:HD11	2.08	0.68
7:AH:20:ALA:HB1	7:AH:23:ARG:HE	1.58	0.68
55:DA:2014:A:HO2'	27:D5:2:ALA:N	1.91	0.68
31:BA:1226:C:O3'	43:BP:111:LYS:HE2	1.93	0.68
1:AA:508:G:O2'	1:AA:509:C:OP1	2.11	0.68
55:DA:905:U:C3'	55:DA:906:G:H5''	2.23	0.68
54:CA:375:U:H4'	46:CS:17:TYR:CE2	2.29	0.68
30:D8:44:LYS:HD2	30:D8:44:LYS:N	2.06	0.68
55:DA:2458:G:O2'	55:DA:2460:U:O4	2.10	0.68
42:BO:75:HIS:CD2	42:BO:77:LEU:HB2	2.27	0.68
55:DA:1138:G:N2	9:DM:106:MET:HE3	2.07	0.68
54:CA:1152:A:H5''	40:CM:13:HIS:CD2	2.28	0.68
49:CV:80:TYR:CZ	49:CV:82:GLY:O	2.46	0.68
8:DK:1:MET:HG3	8:DK:23:PRO:HB3	1.74	0.68
36:CI:97:PHE:O	48:CU:31:LEU:HD23	1.93	0.68
9:AM:18:ALA:O	9:AM:21:LYS:HB2	1.94	0.68
45:CR:17:ARG:HH11	45:CR:17:ARG:HG3	1.57	0.68
46:CS:67:THR:O	46:CS:70:ALA:HB3	1.93	0.68
31:BA:801:U:H5'	31:BA:801:U:H6	1.57	0.68
55:DA:2182:G:H2'	55:DA:2183:C:H6	1.57	0.68
55:DA:828:U:H3	55:DA:2247:A:H4'	1.58	0.68
6:AG:118:ARG:HE	6:AG:118:ARG:HA	1.57	0.68
44:BQ:6:LEU:HD22	44:BQ:23:ARG:NH2	2.08	0.68
55:DA:614:U:H5'	55:DA:614:U:H6	1.57	0.68
57:DY:63:LEU:CD2	57:DY:65:GLU:OE1	2.36	0.68
3:AD:43:ARG:HD2	3:AD:44:ASN:ND2	2.09	0.68
54:CA:39:G:N7	54:CA:547:A:H8	1.91	0.68
39:BL:16:ARG:HH12	39:BL:64:THR:HB	1.58	0.68
21:AV:74:VAL:HG22	21:AV:86:VAL:HG13	1.75	0.68
20:AU:97:ARG:HH21	20:AU:98:VAL:CB	2.03	0.68
10:AN:2:ILE:HG23	10:AN:6:THR:HB	1.74	0.68
1:AA:622:G:O2'	1:AA:623:G:H5'	1.93	0.68
17:D2:25:LEU:HD12	17:D2:94:LEU:HD21	1.74	0.68
12:DP:2:LEU:HB3	12:DP:70:PRO:CG	2.24	0.68
7:AH:101:ARG:HG3	7:AH:117:PRO:HG3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:41:ARG:HH11	38:CK:41:ARG:CB	2.04	0.68
1:AA:2712:U:OP1	1:AA:2714:G:H4'	1.93	0.68
31:BA:1286:A:C5'	51:BX:25:LYS:HD2	2.22	0.68
1:AA:2122:U:H2'	1:AA:2123:G:O4'	1.93	0.68
1:AA:844:C:H2'	1:AA:845:G:O4'	1.93	0.68
34:CG:108:LEU:HB3	34:CG:110:PHE:CE1	2.28	0.68
5:AF:140:LEU:HD13	5:AF:170:LEU:HD21	1.75	0.68
3:AD:139:GLY:H	3:AD:165:ILE:HB	1.57	0.68
42:CO:83:VAL:HG21	42:CO:100:ILE:HG12	1.73	0.68
56:DI:7:ARG:HE	56:DI:8:ILE:CD1	2.07	0.68
56:DJ:17:VAL:HG12	56:DJ:17:VAL:O	1.93	0.68
56:DJ:4:ASP:HA	56:DJ:7:ARG:HB3	1.76	0.68
57:DY:36:GLU:O	57:DY:37:THR:C	2.32	0.68
57:DY:43:ALA:CA	57:DY:47:ASN:HD22	2.07	0.68
57:DY:25:PHE:CA	57:DY:82:PHE:CZ	2.77	0.68
21:AV:105:VAL:CG2	21:AV:106:GLY:N	2.55	0.68
21:DV:194:PRO:O	21:DV:196:VAL:HG12	1.92	0.68
31:BA:1365:G:O2'	31:BA:1366:C:H5'	1.92	0.68
30:A8:32:LEU:HG	30:A8:36:LYS:HG3	1.76	0.68
12:AP:82:ARG:HG2	12:AP:82:ARG:NH1	2.02	0.68
31:BA:1352:C:H2'	31:BA:1353:G:C8	2.29	0.68
55:DA:2636:U:P	4:DE:79:ARG:HA	2.32	0.68
28:D6:19:ARG:HE	28:D6:21:TYR:HE2	1.41	0.68
9:DM:114:ARG:O	9:DM:116:LEU:N	2.25	0.68
31:BA:1132:C:H2'	31:BA:1133:G:C8	2.29	0.68
7:AH:35:VAL:CG1	7:AH:71:LEU:HG	2.23	0.68
32:CE:5:ILE:HG21	32:CE:221:LEU:HA	1.74	0.68
54:CA:1176:A:H2'	54:CA:1177:G:H5'	1.76	0.68
4:DE:24:THR:CG2	4:DE:188:VAL:HG11	2.19	0.68
1:AA:2427:C:H5''	1:AA:2428:G:OP1	1.93	0.68
31:BA:188:U:O2'	31:BA:189:U:H5'	1.93	0.68
55:DA:704:G:C2'	55:DA:726:G:H22	2.05	0.68
4:DE:95:ILE:N	4:DE:95:ILE:HD12	2.07	0.68
43:CP:116:THR:CG2	43:CP:117:VAL:N	2.56	0.68
1:AA:1534:G:N2	1:AA:1538:G:C6	2.59	0.68
55:DA:2173:A:C5	55:DA:2174:C:H1'	2.27	0.68
1:AA:1324:G:H1'	1:AA:1616:A:N6	2.09	0.68
1:AA:1948:G:H8	1:AA:1948:G:H5'	1.59	0.68
54:CA:47:C:C6	54:CA:365:U:H2'	2.29	0.68
52:BC:23:A:H2'	52:BC:24:G:H8	1.59	0.68
55:DA:2086:U:OP1	3:DD:262:ARG:HD3	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:17:THR:HG22	3:DD:205:VAL:H	1.58	0.68
31:BA:1262:C:H2'	31:BA:1263:C:C6	2.28	0.68
55:DA:2273:A:O2'	55:DA:2274:A:H5'	1.93	0.68
21:AV:16:SER:O	21:AV:20:ARG:HG3	1.91	0.68
1:AA:1581:G:H2'	1:AA:1582:C:O4'	1.93	0.68
1:AA:1794:U:H2'	1:AA:1795:C:H6	1.58	0.68
33:BF:54:ARG:HG2	33:BF:54:ARG:HH11	1.59	0.68
39:CL:106:ALA:O	39:CL:108:VAL:HG13	1.93	0.68
1:AA:1444:G:H2'	1:AA:1445:C:C5	2.29	0.68
55:DA:2331:G:H4'	22:D3:43:THR:H	1.58	0.68
58:DL:141:ALA:CB	58:DL:142:PRO:CA	2.71	0.68
58:DL:34:ILE:CD1	58:DL:38:VAL:HG22	2.23	0.68
57:DY:73:GLY:HA3	57:DY:112:LEU:CG	2.23	0.68
57:DY:51:LEU:CD2	57:DY:82:PHE:N	2.57	0.68
31:BA:991:U:H3	31:BA:1213:A:N6	1.91	0.68
21:DV:178:GLU:OE1	21:DV:180:VAL:C	2.32	0.68
26:A4:9:LEU:CD2	26:A4:25:TYR:HB3	2.24	0.68
55:DA:483:A:H3'	55:DA:484:C:H6	1.59	0.68
54:CA:957:U:H1'	54:CA:960:U:C5	2.28	0.68
1:AA:1406:U:H3'	1:AA:1407:C:H6	1.58	0.68
1:AA:1209:G:N2	1:AA:1210:A:H62	1.92	0.68
10:AN:2:ILE:HD11	10:AN:82:ASN:HD22	1.59	0.68
50:CW:49:ALA:HB1	50:CW:99:LEU:HB2	1.76	0.68
20:AU:72:VAL:HG23	20:AU:73:ARG:N	2.09	0.68
54:CA:818:G:H3'	54:CA:819:A:C5'	2.23	0.68
29:A7:30:VAL:HA	29:A7:33:ARG:HH12	1.58	0.68
31:BA:676:A:H2'	31:BA:677:U:C6	2.28	0.68
48:CU:29:PHE:N	48:CU:29:PHE:CD2	2.60	0.68
1:AA:1534:G:H3'	1:AA:1535:U:C5'	2.22	0.68
18:DS:9:TYR:H	18:DS:102:HIS:CD2	2.12	0.68
36:BI:69:GLU:O	36:BI:72:VAL:HG12	1.94	0.68
31:BA:274:A:O2'	31:BA:275:G:O4'	2.10	0.68
1:AA:2557:G:O2'	1:AA:2558:C:H5'	1.93	0.68
31:BA:186(D):C:H2'	31:BA:186(E):C:C6	2.28	0.68
54:CA:498:A:O2'	54:CA:500:G:C8	2.44	0.68
31:BA:48:C:H5'	31:BA:49:U:OP2	1.93	0.68
23:DZ:3:LYS:HD3	23:DZ:43:TYR:CD2	2.28	0.68
5:DF:59:TYR:CD1	5:DF:78:ILE:HB	2.28	0.68
27:D5:48:GLU:HG3	27:D5:59:GLU:HB2	1.75	0.68
48:CU:66:LEU:O	48:CU:70:ILE:HG13	1.92	0.68
55:DA:212:G:O2'	55:DA:213:A:H5'	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:10:PRO:HG2	7:AH:50:VAL:HG13	1.75	0.68
4:AE:9:VAL:CG2	4:AE:10:GLY:H	2.06	0.68
58:DL:119:ASP:O	58:DL:122:ALA:CB	2.40	0.68
57:DY:112:LEU:CD1	57:DY:121:ASP:CB	2.69	0.68
57:DY:40:LEU:HD13	57:DY:41:ARG:HB2	1.76	0.68
57:DY:52:PHE:CD2	57:DY:52:PHE:N	2.61	0.68
57:DY:51:LEU:HD23	57:DY:82:PHE:O	1.88	0.68
55:DA:1075:C:H4'	21:DV:195:GLU:CD	2.14	0.68
31:BA:1218:C:H2'	31:BA:1219:U:C6	2.28	0.68
1:AA:2347:C:H4'	28:A6:39:TYR:CE2	2.29	0.68
21:DV:179:ASP:O	21:DV:180:VAL:HB	1.93	0.68
43:CP:84:ILE:HD11	49:CV:66:MET:HB3	1.74	0.68
55:DA:483:A:H5'	20:DU:49:VAL:HG22	1.75	0.68
20:DU:97:ARG:N	20:DU:97:ARG:HD3	2.08	0.68
1:AA:2552:U:H3'	1:AA:2554:U:OP2	1.93	0.68
31:BA:1148:U:O2'	39:BL:14:VAL:HG11	1.93	0.68
7:DH:152:ARG:HG3	7:DH:153:LYS:HE2	1.74	0.68
31:BA:1347:G:H21	31:BA:1373:G:H2'	1.59	0.68
21:AV:53:ILE:HG22	21:AV:71:VAL:O	1.93	0.68
55:DA:1291:C:C5'	55:DA:1536:A:H5'	2.23	0.68
6:DG:88:ILE:HG23	6:DG:88:ILE:O	1.92	0.68
1:AA:90:U:H2'	1:AA:91:A:H5''	1.74	0.68
46:CS:20:VAL:HG21	46:CS:32:TYR:CD1	2.28	0.68
55:DA:229:A:O2'	55:DA:230:U:OP2	2.12	0.68
6:DG:101:ILE:HG13	6:DG:102:PHE:N	2.08	0.68
1:AA:627:A:H4'	1:AA:628:G:OP1	1.92	0.68
41:CN:21:ILE:HG13	41:CN:30:VAL:HG12	1.76	0.68
7:DH:20:ALA:CB	7:DH:21:PRO:CD	2.71	0.68
50:BW:26:ASN:HD22	50:BW:27:LYS:N	1.91	0.68
31:BA:703:G:O2'	31:BA:704:A:H8	1.77	0.68
34:BG:108:LEU:HB3	34:BG:110:PHE:HE1	1.59	0.68
1:AA:1171:G:H3'	1:AA:1171:G:OP2	1.93	0.68
1:AA:1558:A:H4'	1:AA:1559:G:O5'	1.94	0.68
54:CA:274:A:O2'	54:CA:275:G:H8	1.77	0.68
6:AG:127:GLY:O	6:AG:128:ARG:HG2	1.94	0.68
55:DA:1203:G:H3'	55:DA:1204:A:H5''	1.74	0.68
55:DA:128:C:H4'	29:D7:49:ARG:HH21	1.57	0.68
52:CC:7:A:H4'	52:CC:8:U:OP2	1.93	0.68
55:DA:2620:C:OP1	4:DE:152:LYS:O	2.11	0.68
3:AD:77:ALA:HB2	3:AD:97:TYR:CD2	2.28	0.68
1:AA:1458:C:H5''	1:AA:1459:G:H5'	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:97:ALA:O	57:DY:98:LYS:C	2.32	0.68
12:AP:38:GLU:HB2	12:AP:127:ILE:CG2	2.23	0.68
42:CO:89:ARG:HE	42:CO:91:LYS:NZ	1.91	0.68
57:DY:142:LEU:CD2	57:DY:143:GLN:N	2.56	0.68
4:DE:35:GLN:HE21	4:DE:37:ARG:NE	1.92	0.68
34:BG:21:LEU:HD12	34:BG:21:LEU:H	1.58	0.68
4:AE:50:GLY:HA2	4:AE:78:LEU:HB3	1.74	0.68
9:DM:43:THR:HB	9:DM:46:VAL:CG1	2.24	0.68
1:AA:2061:G:H5''	1:AA:2503:A:C2	2.28	0.68
42:BO:23:LYS:N	42:BO:23:LYS:HD3	2.04	0.68
5:AF:3:GLU:HA	5:AF:24:LEU:CG	2.22	0.68
1:AA:654(Q):C:H2'	1:AA:654(R):C:C5	2.29	0.68
55:DA:1798:U:C5'	3:DD:259:THR:HG22	2.18	0.68
9:DM:137:LYS:CG	9:DM:138:LEU:H	2.06	0.68
9:AM:14:VAL:HG11	9:AM:137:LYS:HG3	1.75	0.68
49:BV:49:ILE:CD1	49:BV:49:ILE:H	2.07	0.68
50:BW:50:GLU:HB2	50:BW:100:ILE:HG12	1.74	0.68
33:BF:63:ASN:N	33:BF:97:LYS:HD2	2.08	0.68
2:DB:81:G:N7	2:DB:96:G:C2	2.62	0.68
7:AH:103:LEU:HD22	7:AH:123:PHE:CE1	2.29	0.68
50:BW:33:ILE:CD1	50:BW:62:LEU:HB3	2.23	0.68
49:CV:80:TYR:CE1	49:CV:82:GLY:O	2.46	0.68
1:AA:1151:G:H5''	16:A1:81:HIS:CE1	2.29	0.68
54:CA:160:A:H1'	54:CA:344:A:N7	2.09	0.68
31:BA:1032:A:H3'	31:BA:1032(A):G:H5''	1.75	0.68
31:BA:625:G:H2'	31:BA:626:U:C6	2.28	0.68
34:CG:110:PHE:HD1	34:CG:110:PHE:H	1.42	0.68
37:CJ:78:ARG:HH11	37:CJ:79:ARG:H	1.41	0.68
54:CA:721:G:H4'	54:CA:722:A:O5'	1.93	0.68
55:DA:345:A:H4'	55:DA:346:A:OP1	1.93	0.68
49:CV:53:ASN:HD21	49:CV:56:GLN:HG2	1.59	0.68
57:DY:112:LEU:H	57:DY:112:LEU:HD23	1.54	0.68
54:CA:630:G:H3'	54:CA:630:G:H8	1.50	0.68
6:AG:67:LYS:HG3	26:A4:6:HIS:CB	2.24	0.68
30:A8:50:LEU:HD12	30:A8:53:PRO:C	2.14	0.68
20:DU:50:ARG:HB3	20:DU:53:PRO:HD2	1.75	0.68
28:D6:47:THR:HG22	28:D6:48:VAL:N	2.08	0.68
30:D8:34:TRP:CG	30:D8:35:GLN:N	2.59	0.68
5:AF:83:PHE:O	5:AF:84:VAL:HB	1.93	0.68
31:BA:1022:G:H2'	31:BA:1023:G:O4'	1.92	0.68
23:AZ:87:PRO:O	23:AZ:91:LYS:N	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:140:A:H8	1:AA:1408:C:O2'	1.74	0.68
1:AA:782:A:O2'	3:AD:225:ALA:O	2.11	0.68
35:CH:101:ILE:N	35:CH:101:ILE:HD13	2.09	0.68
38:CK:103:VAL:HG12	38:CK:108:GLY:HA3	1.75	0.68
54:CA:690:G:H2'	54:CA:691:G:O4'	1.94	0.68
1:AA:1204:A:H1'	1:AA:1206:G:C5	2.29	0.68
39:CL:114:TYR:O	39:CL:114:TYR:HD2	1.77	0.68
55:DA:1510:A:H2	55:DA:1513:C:N4	1.91	0.68
31:BA:677:U:H1'	41:BN:119:CYS:SG	2.34	0.68
46:BS:52:ASP:OD2	46:BS:54:GLU:HG2	1.94	0.68
44:BQ:27:CYS:SG	44:BQ:29:ARG:HB2	2.34	0.68
5:AF:132:VAL:HG13	5:AF:133:ASN:N	2.09	0.68
54:CA:678:U:H2'	54:CA:679:C:C6	2.29	0.68
55:DA:701:G:C2'	55:DA:702:G:H5''	2.23	0.68
1:AA:2745:C:H1'	7:AH:143:GLN:HG2	1.75	0.68
31:BA:577:G:H1'	31:BA:816:A:C4	2.28	0.68
34:CG:111:ALA:HB2	34:CG:120:LEU:HD11	1.76	0.68
41:BN:34:ASP:HB3	41:BN:40:ILE:HD11	1.74	0.68
8:AK:68:LEU:HA	8:AK:71:ILE:HG22	1.76	0.68
57:DY:120:LYS:O	57:DY:121:ASP:CB	2.41	0.68
57:DY:51:LEU:CD1	57:DY:82:PHE:C	2.62	0.68
57:DY:8:GLU:OE2	57:DY:52:PHE:HB3	1.94	0.68
57:DY:58:LEU:H	57:DY:58:LEU:CD2	1.97	0.68
57:DY:91:LYS:HA	57:DY:94:VAL:HB	1.75	0.68
57:DY:8:GLU:O	57:DY:9:LEU:C	2.32	0.68
31:BA:971:G:C5	31:BA:1365:G:H5'	2.29	0.68
3:AD:43:ARG:NH1	3:AD:44:ASN:HD21	1.89	0.68
54:CA:630:G:OP1	54:CA:630:G:H4'	1.94	0.68
3:DD:35:LYS:CG	3:DD:64:ILE:H	2.07	0.68
2:AB:39:A:H2'	26:A4:1:MET:HE2	1.75	0.68
55:DA:483:A:H5''	20:DU:49:VAL:HG13	1.75	0.68
55:DA:2810:A:O3'	4:DE:61:ARG:CG	2.42	0.68
1:AA:387:U:O2'	1:AA:388:G:O5'	2.11	0.68
20:DU:76:CYS:HG	20:DU:77:PRO:HD2	1.55	0.68
4:AE:71:GLY:O	4:AE:73:GLU:N	2.27	0.68
3:AD:155:LEU:HD23	3:AD:177:LEU:HD22	1.76	0.68
20:AU:81:LYS:HD3	20:AU:97:ARG:HE	1.58	0.68
55:DA:796:C:H2'	55:DA:797:C:H6	1.57	0.68
1:AA:70:G:H2'	1:AA:113:G:O2'	1.93	0.68
25:AX:24:LYS:HA	25:AX:24:LYS:HE3	1.74	0.68
31:BA:335:C:H2'	31:BA:336:C:H6	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:D2:89:GLN:HA	17:D2:89:GLN:NE2	2.09	0.68
5:DF:178:PRO:HB2	5:DF:201:VAL:HG11	1.76	0.68
7:DH:37:VAL:HG12	7:DH:38:SER:N	2.07	0.68
55:DA:1244:G:OP1	11:DO:7:ARG:HD3	1.94	0.68
55:DA:1945:G:H2'	55:DA:1946:U:C6	2.27	0.68
54:CA:382:A:H2'	54:CA:383:A:C8	2.28	0.68
43:BP:13:LYS:HA	43:BP:44:ARG:NH1	2.08	0.68
55:DA:2030:A:H4'	55:DA:2031:A:C8	2.28	0.68
14:AQ:66:ALA:O	14:AQ:69:VAL:HG12	1.94	0.68
1:AA:1116:C:H2'	1:AA:1117:G:H8	1.59	0.68
55:DA:1742:C:H5'	55:DA:1743:G:OP2	1.93	0.68
31:BA:1104:G:H4'	32:BE:111:ARG:NH2	2.08	0.68
38:CK:129:VAL:HG23	38:CK:130:GLY:H	1.57	0.68
41:CN:22:HIS:HB3	41:CN:29:ILE:HG23	1.74	0.68
32:CE:98:LEU:O	32:CE:101:MET:HG3	1.92	0.68
55:DA:1057:A:C5	55:DA:1086:A:N3	2.62	0.68
56:DJ:1:MET:SD	56:DJ:2:ALA:N	2.63	0.68
57:DY:93:LEU:CD1	57:DY:97:ALA:O	2.42	0.68
21:AV:145:GLU:OE1	21:AV:174:VAL:HG12	1.93	0.68
31:BA:946:A:H2'	31:BA:947:G:C8	2.29	0.68
2:AB:44:G:H5''	2:AB:45:A:OP1	1.94	0.68
54:CA:794:A:C2	54:CA:795:C:N3	2.62	0.68
15:AR:90:GLN:HA	15:AR:90:GLN:NE2	2.08	0.68
11:DO:65:ARG:NH1	11:DO:65:ARG:HB2	2.09	0.68
1:AA:2810:A:O3'	4:AE:61:ARG:HG3	1.92	0.68
9:DM:58:ASP:HB3	9:DM:95:PRO:HB3	1.75	0.68
9:DM:96:GLU:HG2	9:DM:97:ARG:N	2.08	0.68
7:DH:109:PHE:HZ	7:DH:152:ARG:HG2	1.58	0.68
7:DH:98:LEU:HB2	7:DH:125:VAL:CG1	2.24	0.68
21:AV:131:ARG:CG	21:AV:131:ARG:HH11	1.87	0.68
21:AV:163:LEU:HD23	21:AV:163:LEU:N	1.99	0.68
38:CK:87:SER:HA	38:CK:93:VAL:HG23	1.76	0.68
11:AO:88:LEU:HD11	11:AO:95:VAL:HG21	1.76	0.68
4:AE:36:ARG:NH2	4:AE:88:GLY:CA	2.57	0.68
13:D0:26:LYS:HE2	13:D0:70:LEU:O	1.94	0.68
47:CT:4:LYS:HE3	47:CT:6:LEU:CD2	2.24	0.68
54:CA:430:A:H2'	54:CA:431:A:H5'	1.76	0.68
1:AA:2776:A:H4'	1:AA:2777:G:O5'	1.94	0.68
1:AA:1955:U:O2'	1:AA:1956:U:H5'	1.94	0.68
31:BA:668:G:O4'	45:BR:49:ASP:HB2	1.93	0.68
1:AA:370:G:H4'	1:AA:371:A:OP2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:914:C:H2'	55:DA:915:C:H5'	1.75	0.68
55:DA:1645:G:H5''	55:DA:1646:C:H5'	1.75	0.68
31:BA:121:C:H5'	31:BA:122:G:OP1	1.94	0.68
55:DA:1093:G:H4'	7:DH:170:ARG:NH2	2.08	0.67
56:DI:30:ALA:CA	56:DJ:3:LEU:CD2	2.69	0.67
31:BA:1322:C:HO2'	31:BA:1323:G:H5'	1.58	0.67
49:BV:46:GLY:N	49:BV:62:ILE:HG23	2.08	0.67
2:AB:81:G:N7	2:AB:96:G:N2	2.42	0.67
28:D6:19:ARG:NE	28:D6:21:TYR:HE2	1.92	0.67
55:DA:2345:G:O2'	55:DA:2381:C:H2'	1.93	0.67
30:D8:17:THR:HG21	30:D8:21:LYS:HB2	1.76	0.67
1:AA:34:C:O2'	1:AA:35:G:H8	1.77	0.67
14:DQ:61:ASN:O	14:DQ:65:VAL:HG23	1.92	0.67
33:CF:47:LEU:HD21	33:CF:68:VAL:HG11	1.76	0.67
11:DO:126:VAL:HG12	11:DO:147:LEU:HD22	1.76	0.67
11:DO:147:LEU:O	11:DO:148:LEU:HB2	1.93	0.67
23:AZ:80:LEU:C	23:AZ:81:LYS:HZ3	1.98	0.67
1:AA:1267:U:C5	1:AA:2012:G:N2	2.62	0.67
30:D8:63:PRO:O	30:D8:64:TYR:HB2	1.93	0.67
24:AW:51:ARG:NE	24:AW:55:ARG:HH12	1.92	0.67
30:D8:43:GLN:O	30:D8:44:LYS:HD2	1.93	0.67
35:BH:53:LEU:O	35:BH:57:LYS:HG3	1.93	0.67
18:AS:59:VAL:HG23	18:AS:64:MET:H	1.59	0.67
52:BB:9:A:O2'	52:BB:10:G:OP1	2.12	0.67
6:DG:26:GLN:NE2	6:DG:27:ASN:HB2	2.09	0.67
55:DA:1111:A:H5'	7:DH:3:ARG:NH1	2.09	0.67
1:AA:2468:G:H22	1:AA:2481:G:H2'	1.59	0.67
12:AP:130:LYS:NZ	21:AV:81:ARG:HG2	2.08	0.67
55:DA:2392:A:C8	11:DO:60:MET:HG3	2.29	0.67
36:CI:97:PHE:CD2	48:CU:31:LEU:HD21	2.29	0.67
55:DA:5:A:P	55:DA:5:A:O4'	2.51	0.67
39:CL:5:TYR:HA	39:CL:17:VAL:O	1.93	0.67
14:AQ:106:ARG:HA	14:AQ:110:LEU:HG	1.75	0.67
1:AA:404:C:O2'	1:AA:405:U:H5'	1.94	0.67
31:BA:618:C:N3	31:BA:622:A:N6	2.42	0.67
54:CA:711:G:O2'	54:CA:712:A:H5'	1.94	0.67
41:CN:124:LYS:HD2	41:CN:125:PHE:CE1	2.29	0.67
54:CA:1316:G:N2	54:CA:1318:A:H3'	2.09	0.67
4:AE:105:THR:HG21	4:AE:164:ARG:NH1	2.09	0.67
4:AE:16:ARG:HD2	4:AE:16:ARG:O	1.93	0.67
1:AA:2150:U:H2'	1:AA:2151:G:C8	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:D1:28:ARG:HD3	16:D1:38:THR:OG1	1.94	0.67
31:BA:89:U:H2'	31:BA:90:C:H6	1.59	0.67
52:BD:64:A:C2	52:BD:65:G:H1'	2.29	0.67
10:AN:49:ARG:NH1	31:BA:1422:G:H4'	2.08	0.67
57:DY:130:THR:HG21	56:DJ:14:GLN:CD	2.13	0.67
58:DL:18:THR:CB	58:DL:19:PRO:CD	2.39	0.67
55:DA:1056:G:P	57:DY:35:LYS:HD3	2.34	0.67
55:DA:898:C:H3'	55:DA:899:A:C5'	2.23	0.67
54:CA:1363:A:H4'	54:CA:1364:U:OP1	1.94	0.67
1:AA:1341:U:O4	19:AT:16:LYS:HE2	1.94	0.67
34:BG:38:TYR:CD1	34:BG:45:GLN:HB3	2.29	0.67
18:DS:15:ARG:HA	18:DS:18:ARG:HD2	1.75	0.67
52:CD:9:A:H4'	52:CD:46:G:H4'	1.76	0.67
4:DE:24:THR:HG21	4:DE:188:VAL:CG1	2.19	0.67
21:AV:44:PHE:CZ	21:AV:86:VAL:HG21	2.29	0.67
3:AD:25:THR:HG21	3:AD:81:ALA:HB1	1.76	0.67
55:DA:2148:G:O2'	55:DA:2149:G:H5'	1.93	0.67
25:AX:54:VAL:HG12	25:AX:55:ARG:N	2.08	0.67
38:BK:109:ILE:HG22	38:BK:137:VAL:O	1.95	0.67
55:DA:1211:U:H4'	55:DA:1212:G:OP2	1.94	0.67
5:DF:157:VAL:HB	5:DF:194:MET:HB3	1.75	0.67
54:CA:1047:G:H5''	44:CQ:4:LYS:HD2	1.77	0.67
35:BH:26:PHE:N	35:BH:26:PHE:CD1	2.63	0.67
55:DA:1937:A:O2'	55:DA:1938:A:OP1	2.09	0.67
11:DO:35:HIS:O	11:DO:36:LYS:O	2.13	0.67
1:AA:1171:G:H4'	1:AA:1173:G:OP1	1.94	0.67
54:CA:1240:U:O2'	37:CJ:38:LEU:HD23	1.95	0.67
48:BU:29:PHE:HE1	48:BU:31:LEU:HB3	1.59	0.67
55:DA:1011:G:H4'	55:DA:1012:U:OP1	1.94	0.67
48:CU:50:ILE:H	48:CU:50:ILE:HD12	1.59	0.67
18:AS:39:THR:HG22	18:AS:44:ALA:HB2	1.74	0.67
55:DA:997:G:OP1	16:D1:93:LYS:HD2	1.93	0.67
31:BA:477:G:H2'	31:BA:478:A:C8	2.29	0.67
55:DA:163:U:H2'	55:DA:164:U:H5'	1.75	0.67
53:B1:43:U:H6	53:B1:43:U:H5'	1.59	0.67
48:BU:85:LEU:HD12	48:BU:85:LEU:O	1.93	0.67
1:AA:1638:C:H4'	1:AA:2710:C:O2	1.93	0.67
22:A3:14:ARG:O	22:A3:15:ASP:HB2	1.93	0.67
56:DI:13:SER:O	56:DI:16:THR:HG22	1.95	0.67
56:DJ:5:ILE:HG23	56:DJ:9:LYS:HG3	1.76	0.67
57:DY:56:ASN:HA	57:DY:60:ARG:CG	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:98:LYS:HB3	57:DY:102:LYS:HE3	1.75	0.67
31:BA:1321:C:N4	31:BA:1322:C:H41	1.92	0.67
30:A8:30:ARG:O	30:A8:31:HIS:CG	2.47	0.67
1:AA:2286:A:C5'	1:AA:2287:A:O4'	2.42	0.67
1:AA:2067:G:H4'	1:AA:2068:U:OP2	1.94	0.67
12:AP:75:THR:CA	12:AP:88:GLY:HA2	2.20	0.67
2:AB:39:A:C2	2:AB:44:G:C2	2.82	0.67
51:BX:9:ARG:HH21	51:BX:10:ARG:NE	1.92	0.67
14:DQ:106:ARG:HA	14:DQ:110:LEU:CD2	2.23	0.67
21:DV:9:TYR:CE2	21:DV:61:LEU:HD23	2.29	0.67
26:D4:34:GLU:HG2	26:D4:35:VAL:N	2.08	0.67
55:DA:1288:U:O2'	55:DA:1647:G:N2	2.28	0.67
9:AM:30:ILE:HG22	9:AM:34:LEU:CD2	2.24	0.67
31:BA:57:G:H2'	31:BA:58:C:H6	1.58	0.67
31:BA:1151:A:H1'	40:BM:39:PRO:HB2	1.77	0.67
5:AF:37:VAL:O	5:AF:40:GLN:HB2	1.93	0.67
6:DG:77:ILE:HG22	6:DG:77:ILE:O	1.95	0.67
11:AO:97:PRO:O	11:AO:98:GLU:HB3	1.94	0.67
33:BF:129:ALA:HB3	33:BF:132:ARG:HD3	1.77	0.67
3:DD:10:THR:HG23	3:DD:13:ARG:CB	2.24	0.67
7:AH:137:ASP:HB3	7:AH:141:VAL:HG23	1.74	0.67
34:BG:155:LEU:O	34:BG:159:ARG:HG3	1.94	0.67
1:AA:1249:U:O2	1:AA:1249:U:C2'	2.41	0.67
54:CA:65:U:H5'	54:CA:66:G:OP1	1.94	0.67
54:CA:1297:C:H2'	37:CJ:114:ARG:HH22	1.58	0.67
10:AN:43:VAL:HG23	10:AN:56:ASP:O	1.94	0.67
54:CA:160:A:H2'	54:CA:161:A:O4'	1.94	0.67
55:DA:662:G:OP1	11:DO:15:ARG:NE	2.28	0.67
38:CK:116:LYS:HA	38:CK:116:LYS:HE2	1.76	0.67
54:CA:659:U:OP1	45:CR:8:LYS:HE3	1.94	0.67
55:DA:372:G:O2'	55:DA:373:U:P	2.52	0.67
1:AA:68:G:H3'	1:AA:69:C:H6	1.60	0.67
8:AK:8:PRO:HD3	8:AK:15:VAL:HG23	1.75	0.67
18:DS:70:TYR:HD2	18:DS:70:TYR:H	1.42	0.67
1:AA:1520:U:H2'	1:AA:1521:G:O4'	1.94	0.67
31:BA:328:C:H2'	31:BA:328:C:O2	1.94	0.67
21:AV:75:ASN:O	21:AV:84:GLU:HG2	1.94	0.67
12:AP:28:ALA:HB2	12:AP:67:ARG:NH1	2.08	0.67
55:DA:1060:U:H5	58:DL:74:ALA:HB2	1.58	0.67
57:DY:74:LEU:CB	57:DY:120:LYS:HE2	2.25	0.67
57:DY:26:LEU:O	57:DY:111:LEU:HD22	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:57:THR:HG22	57:DY:58:LEU:N	2.08	0.67
57:DY:25:PHE:C	57:DY:82:PHE:HZ	1.96	0.67
49:CV:5:LEU:N	49:CV:5:LEU:HD12	2.09	0.67
1:AA:1359:A:C8	1:AA:1359:A:C4'	2.77	0.67
7:DH:125:VAL:HA	7:DH:126:PRO:HB3	1.74	0.67
31:BA:1004:A:C2'	31:BA:1005:A:O5'	2.43	0.67
11:DO:84:ASN:HA	11:DO:115:LEU:O	1.92	0.67
1:AA:2645:G:H4'	1:AA:2732:G:HO2'	1.59	0.67
10:AN:2:ILE:HG23	10:AN:6:THR:CB	2.24	0.67
8:DK:88:ILE:HG12	8:DK:122:GLU:N	2.10	0.67
54:CA:192:U:H4'	50:CW:103:GLY:HA2	1.75	0.67
37:CJ:113:GLU:HB2	37:CJ:119:ARG:CG	2.22	0.67
23:AZ:82:LEU:CG	23:AZ:83:GLU:H	2.03	0.67
11:AO:85:LEU:H	11:AO:85:LEU:HD23	1.59	0.67
1:AA:1464:C:O2'	1:AA:1528:A:H8	1.71	0.67
7:AH:102:ALA:CA	7:AH:117:PRO:HD3	2.23	0.67
17:A2:61:VAL:HG13	17:A2:62:LEU:N	2.09	0.67
1:AA:1504:C:C2'	1:AA:1505:C:H5'	2.24	0.67
1:AA:1431:U:H2'	1:AA:1432:C:C6	2.29	0.67
54:CA:1508:G:H2'	54:CA:1509:C:H6	1.58	0.67
52:CB:7:A:H5'	52:CB:8:U:OP2	1.93	0.67
38:CK:82:HIS:CD2	38:CK:82:HIS:C	2.67	0.67
42:CO:55:VAL:HG12	42:CO:56:ALA:H	1.58	0.67
16:A1:25:TRP:O	16:A1:28:ARG:HB2	1.93	0.67
31:BA:843:U:H5'	31:BA:848:C:C6	2.29	0.67
56:DI:5:ILE:O	56:DI:5:ILE:HG22	1.94	0.67
56:DJ:13:SER:CB	56:DJ:17:VAL:HG13	2.21	0.67
21:DV:186:GLU:HG3	21:DV:186:GLU:O	1.95	0.67
26:A4:63:TYR:HE2	49:BV:41:VAL:HG22	1.58	0.67
1:AA:2286:A:OP2	28:A6:28:ARG:NH1	2.27	0.67
54:CA:69:G:N2	54:CA:73:G:C8	2.63	0.67
6:AG:67:LYS:HZ3	26:A4:6:HIS:CE1	2.12	0.67
30:A8:49:VAL:HG13	30:A8:50:LEU:CD2	2.19	0.67
57:DY:142:LEU:CG	57:DY:143:GLN:N	2.56	0.67
55:DA:2347:C:H2'	55:DA:2348:U:C6	2.30	0.67
45:CR:87:ILE:CG2	45:CR:88:ARG:H	2.02	0.67
55:DA:1266:G:OP1	27:D5:19:ARG:HD2	1.93	0.67
27:D5:20:ARG:HA	27:D5:23:HIS:CE1	2.29	0.67
21:DV:61:LEU:HD11	21:DV:65:GLN:HG3	1.75	0.67
4:DE:18:ASP:O	4:DE:19:ARG:O	2.12	0.67
54:CA:130:A:C8	47:CT:63:ARG:HG3	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:24:LEU:HB3	5:AF:25:PRO:CD	2.19	0.67
32:BE:187:LEU:HD13	32:BE:187:LEU:O	1.94	0.67
6:DG:76:SER:O	6:DG:77:ILE:HD12	1.94	0.67
46:CS:22:THR:HA	46:CS:33:ILE:HG12	1.75	0.67
46:CS:4:ILE:HD12	46:CS:4:ILE:N	2.09	0.67
52:BB:10:G:H3'	52:BB:11:C:C5	2.27	0.67
55:DA:1188:U:C5'	17:D2:79:VAL:HG22	2.25	0.67
40:CM:9:ARG:HG2	40:CM:69:ASN:OD1	1.94	0.67
10:DN:93:PRO:HB3	10:DN:114:ILE:CD1	2.24	0.67
1:AA:558:G:OP2	9:AM:111:PRO:HD2	1.94	0.67
45:BR:39:LEU:HD12	45:BR:56:LEU:HB2	1.76	0.67
42:BO:40:VAL:HG21	42:BO:78:GLN:CA	2.25	0.67
31:BA:628:G:H2'	31:BA:629:G:C8	2.30	0.67
5:DF:184:TYR:O	5:DF:188:ARG:HG3	1.94	0.67
21:DV:76:LEU:HD23	21:DV:76:LEU:H	1.59	0.67
55:DA:754:C:H2'	55:DA:755:C:C6	2.29	0.67
8:AK:62:LYS:HD2	8:AK:62:LYS:O	1.94	0.67
1:AA:2585:U:O2'	1:AA:2586:C:H5'	1.94	0.67
31:BA:457:C:H2'	31:BA:458:C:C6	2.30	0.67
40:CM:61:GLU:OE2	44:CQ:45:ARG:NH1	2.28	0.67
1:AA:1348:G:H2'	1:AA:1349:A:H5''	1.76	0.67
1:AA:1177:A:H5'	1:AA:1178:C:OP1	1.94	0.67
57:DY:111:LEU:C	57:DY:112:LEU:HD22	2.13	0.67
55:DA:1084:A:O2'	57:DY:53:VAL:HG21	1.94	0.67
52:CB:19:G:N2	52:CB:56:C:N4	2.41	0.67
40:BM:30:SER:HB3	40:BM:84:GLN:HE21	1.58	0.67
54:CA:1024:G:C3'	54:CA:1025:U:H5''	2.25	0.67
46:CS:50:LYS:HD3	46:CS:51:VAL:N	2.09	0.67
14:DQ:103:GLU:O	14:DQ:106:ARG:HG3	1.93	0.67
34:BG:26:CYS:HA	34:BG:31:CYS:HB2	1.77	0.67
34:BG:31:CYS:C	34:BG:33:MET:N	2.48	0.67
1:AA:994:C:OP1	16:A1:53:ARG:NH2	2.27	0.67
9:DM:6:PRO:HG3	9:DM:41:ASP:HB2	1.75	0.67
5:DF:107:LYS:CD	5:DF:206:ILE:HD13	2.21	0.67
4:DE:170:LEU:CD2	4:DE:185:LYS:HB2	2.22	0.67
1:AA:484:C:H2'	1:AA:485:C:H6	1.57	0.67
55:DA:2131:G:C5'	55:DA:2132:U:H5''	2.21	0.67
32:BE:7:VAL:HG22	32:BE:8:LYS:N	2.10	0.67
1:AA:1610:A:H5''	1:AA:1611:C:OP2	1.94	0.67
31:BA:535:A:H4'	31:BA:536:C:OP1	1.92	0.67
52:BB:9:A:H2	52:BB:11:C:H41	1.41	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:737:A:H2'	54:CA:738:C:H6	1.60	0.67
55:DA:2173:A:H3'	55:DA:2174:C:C6	2.30	0.67
12:AP:56:ARG:HH21	52:BB:52:G:H4'	1.59	0.67
1:AA:1954:G:O2'	1:AA:1956:U:C5	2.45	0.67
2:AB:111:U:H2'	2:AB:112:G:C8	2.30	0.67
55:DA:366:C:H5	55:DA:403:U:O2'	1.77	0.67
12:DP:140:ALA:HB2	21:DV:53:ILE:HD11	1.76	0.67
54:CA:121:C:H5'	54:CA:122:G:OP1	1.95	0.67
23:DZ:80:LEU:O	23:DZ:81:LYS:HE2	1.95	0.67
55:DA:1657:C:H4'	4:DE:133:LYS:HB3	1.76	0.67
37:BJ:155:ARG:HG2	37:BJ:156:TRP:N	2.09	0.67
55:DA:2401:U:H2'	55:DA:2402:C:H5''	1.75	0.67
8:AK:10:GLU:OE1	8:AK:11:ASN:HB2	1.94	0.67
21:DV:194:PRO:HG2	21:DV:196:VAL:HG13	1.70	0.67
49:BV:40:ILE:HG21	49:BV:66:MET:O	1.95	0.67
1:AA:2068:U:N3	1:AA:2430:A:H2	1.92	0.67
16:A1:98:LEU:C	16:A1:100:VAL:N	2.44	0.67
54:CA:1139:G:H1	54:CA:1144:G:H22	1.43	0.67
52:CD:9:A:H4'	52:CD:46:G:C4'	2.24	0.67
23:AZ:76:ARG:HG3	23:AZ:94:LEU:HD13	1.76	0.67
55:DA:1310:G:OP2	29:D7:9:ARG:NH1	2.28	0.67
20:AU:27:VAL:O	20:AU:27:VAL:HG23	1.94	0.67
20:AU:47:LYS:HG3	20:AU:60:PHE:HB3	1.76	0.67
55:DA:1024:G:C3'	55:DA:1025:G:H5''	2.25	0.67
6:DG:81:LYS:O	6:DG:82:LEU:HB2	1.92	0.67
1:AA:2439:A:C8	1:AA:2439:A:H5'	2.29	0.67
1:AA:1970:A:H5'	1:AA:1971:A:OP1	1.94	0.67
50:CW:82:SER:O	50:CW:86:ARG:CB	2.42	0.67
37:CJ:108:ALA:HB2	37:CJ:123:GLU:HG2	1.75	0.67
12:DP:34:LEU:HD23	12:DP:104:PHE:CD1	2.30	0.67
1:AA:1054:A:H2'	1:AA:1055:G:C8	2.29	0.67
6:DG:131:TYR:HB3	6:DG:159:VAL:HG13	1.76	0.67
31:BA:197:A:N6	31:BA:221:C:H5'	2.10	0.67
34:BG:153:ARG:NH1	34:BG:181:MET:HB2	2.09	0.67
1:AA:1534:G:H3'	1:AA:1535:U:H5'	1.77	0.67
12:AP:56:ARG:NH2	52:BB:52:G:H4'	2.09	0.67
54:CA:501:C:H2'	54:CA:502:G:H8	1.59	0.67
1:AA:2387:U:H5'	1:AA:2388:A:OP2	1.94	0.67
41:CN:20:TYR:HB2	41:CN:31:THR:HG23	1.77	0.67
43:BP:95:GLY:O	43:BP:110:ARG:HB3	1.95	0.67
1:AA:2795:G:H3'	1:AA:2797:U:C5'	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:48:PHE:H	30:D8:48:PHE:HD1	1.41	0.67
56:DI:1:MET:SD	56:DI:5:ILE:CG2	2.83	0.67
1:AA:2716:U:O2'	1:AA:2717:G:H5'	1.95	0.67
40:BM:74:ILE:N	40:BM:74:ILE:HD13	2.10	0.67
4:DE:26:ILE:HD13	4:DE:26:ILE:C	2.15	0.67
16:A1:90:VAL:CG2	17:A2:39:LEU:HB3	2.24	0.67
6:DG:112:PRO:HB3	26:D4:37:SER:CB	2.25	0.67
55:DA:886:C:O2	55:DA:887:A:N1	2.27	0.67
20:AU:81:LYS:HB3	20:AU:97:ARG:CD	2.25	0.67
55:DA:1533:C:H3'	55:DA:1534:G:H5''	1.77	0.67
5:AF:124:LEU:HG	5:AF:124:LEU:O	1.93	0.67
1:AA:2391:G:O6	1:AA:2425:A:H8	1.78	0.67
54:CA:1221:G:H4'	49:CV:77:THR:HG21	1.75	0.67
54:CA:1152:A:H2'	54:CA:1153:C:H6	1.59	0.67
55:DA:654(O):G:H2'	55:DA:654(P):G:C8	2.29	0.67
16:D1:52:ARG:HA	16:D1:55:ARG:HE	1.60	0.67
1:AA:2815:C:H2'	1:AA:2816:C:C6	2.30	0.67
54:CA:1301:U:H2'	54:CA:1301:U:O2	1.95	0.67
1:AA:704:G:C2'	1:AA:726:G:H22	2.07	0.67
32:BE:97:TRP:CE2	32:BE:101:MET:HG3	2.30	0.67
38:CK:33:GLU:HG2	38:CK:59:LEU:HD11	1.76	0.67
49:CV:29:ARG:HD3	49:CV:30:LEU:HD13	1.77	0.67
42:BO:117:ARG:HB2	42:BO:122:THR:HB	1.77	0.67
16:D1:81:HIS:NE2	16:D1:117:GLN:HG3	2.09	0.67
37:CJ:13:GLN:O	37:CJ:24:THR:HG21	1.95	0.67
36:BI:68:PRO:HG3	36:BI:71:ARG:HH21	1.60	0.67
3:AD:2:ALA:O	3:AD:3:VAL:HB	1.92	0.67
40:CM:78:ASN:O	40:CM:82:ILE:HG12	1.94	0.67
55:DA:2838:G:H1'	13:D0:45:ARG:HH21	1.60	0.67
49:CV:9:VAL:O	49:CV:9:VAL:HG12	1.94	0.67
15:AR:6:LEU:HA	15:AR:9:LEU:HD12	1.77	0.67
56:DI:11:GLU:O	56:DI:14:GLN:HG2	1.95	0.67
58:DL:110:GLN:HG3	58:DL:111:LYS:CE	2.25	0.67
57:DY:94:VAL:O	57:DY:95:GLN:CB	2.43	0.67
31:BA:949:A:H1'	31:BA:1364:U:H3	1.60	0.67
28:A6:48:VAL:HG13	28:A6:49:HIS:N	2.10	0.67
2:AB:82:G:N2	2:AB:95:U:H1'	2.09	0.67
16:A1:50:ARG:NH1	17:A2:72:VAL:HG11	2.10	0.67
55:DA:518:G:H4'	18:DS:18:ARG:HH12	1.58	0.67
31:BA:1152:A:H2'	31:BA:1153:C:C6	2.30	0.67
40:BM:40:LEU:CG	40:BM:41:PRO:HD2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:28:GLU:HB2	3:AD:29:PRO:CD	2.25	0.67
19:AT:50:LYS:N	19:AT:87:GLN:HE22	1.91	0.67
3:DD:44:ASN:HB3	3:DD:49:ILE:HG22	1.76	0.67
55:DA:793:A:O2'	55:DA:794:G:OP2	2.13	0.67
39:BL:96:LEU:HG	39:BL:102:LEU:HB2	1.75	0.67
1:AA:900:A:H3'	1:AA:901:A:C8	2.24	0.67
9:AM:15:LEU:CG	9:AM:134:ARG:HE	2.05	0.67
41:BN:27:ASN:OD1	41:BN:55:LYS:HB3	1.94	0.67
14:AQ:25:ARG:HH11	14:AQ:25:ARG:CB	2.07	0.67
55:DA:27:G:O2'	55:DA:28:A:H8	1.78	0.67
55:DA:1240:U:O2'	55:DA:1241:A:H5'	1.95	0.67
16:A1:34:LYS:HA	16:A1:34:LYS:HE2	1.75	0.67
1:AA:2094:G:OP1	8:AK:22:LYS:HD2	1.94	0.67
42:BO:86:ARG:HB2	42:BO:101:VAL:CG2	2.24	0.67
44:CQ:8:GLU:OE2	44:CQ:11:LYS:HD2	1.95	0.67
4:DE:105:THR:OG1	4:DE:166:THR:HG23	1.95	0.67
58:DL:10:LEU:CD2	58:DL:55:VAL:HG11	2.25	0.67
58:DL:53:VAL:HG12	58:DL:72:PRO:HG2	1.75	0.67
57:DY:73:GLY:HA2	57:DY:119:ALA:O	1.95	0.67
57:DY:51:LEU:HD11	57:DY:82:PHE:C	2.16	0.67
55:DA:893:C:H2'	55:DA:894:C:C6	2.30	0.67
54:CA:629:G:H5''	54:CA:630:G:P	2.35	0.67
3:DD:35:LYS:CD	3:DD:104:TYR:CD1	2.76	0.67
54:CA:1305:G:OP1	51:CX:2:GLY:HA3	1.95	0.67
44:CQ:29:ARG:HD3	44:CQ:40:CYS:HB2	1.77	0.67
31:BA:406:G:N2	34:BG:119:GLN:HE22	1.90	0.67
31:BA:1125:U:OP2	31:BA:1145:C:N4	2.28	0.67
55:DA:1266:G:O2'	55:DA:1267:U:OP2	2.13	0.67
17:D2:35:LEU:HD23	17:D2:35:LEU:O	1.95	0.67
1:AA:1138:G:H21	9:AM:106:MET:HE3	1.59	0.67
21:AV:30:ASN:O	21:AV:32:HIS:N	2.28	0.67
20:AU:39:VAL:HG23	20:AU:40:GLU:N	2.10	0.67
5:AF:7:TYR:CE1	5:AF:10:PRO:HG3	2.30	0.67
54:CA:192:U:C4'	50:CW:103:GLY:HA2	2.25	0.67
1:AA:2110:G:O2'	1:AA:2111:C:OP1	2.13	0.67
1:AA:2784:C:H1'	4:AE:37:ARG:NH2	2.09	0.67
42:CO:19:ARG:HB3	42:CO:19:ARG:NH1	2.09	0.67
35:CH:51:VAL:HB	35:CH:52:PRO:HD3	1.77	0.67
1:AA:51:G:O2'	1:AA:119:A:N1	2.22	0.67
11:AO:124:LYS:HZ3	11:AO:143:GLY:HA3	1.57	0.67
2:AB:15:A:C3'	2:AB:16:G:H5'	2.22	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2391:G:H1'	55:DA:2429:G:N2	2.09	0.67
54:CA:644:G:C2'	54:CA:645:C:H5'	2.25	0.67
55:DA:2512:C:H4'	4:DE:122:PHE:CE2	2.30	0.67
1:AA:832:G:C5'	11:AO:45:LEU:HD11	2.25	0.67
7:DH:80:SER:O	7:DH:81:GLU:HB2	1.95	0.67
6:AG:131:TYR:HB3	6:AG:159:VAL:HG13	1.75	0.67
15:AR:107:ASP:HB2	31:BA:1432:G:OP1	1.95	0.67
19:DT:43:VAL:CG1	19:DT:51:VAL:HG21	2.25	0.67
12:DP:35:VAL:HG13	12:DP:130:LYS:HB3	1.76	0.67
32:CE:107:THR:HA	32:CE:110:GLN:HG3	1.77	0.67
55:DA:2682:U:H5''	4:DE:11:MET:HB2	1.76	0.67
55:DA:813:U:H2'	55:DA:814:C:C6	2.30	0.67
58:DL:18:THR:CG2	58:DL:19:PRO:HD3	2.24	0.66
58:DL:77:LEU:HD22	58:DL:108:ALA:HB2	1.76	0.66
21:AV:141:VAL:CG1	21:AV:141:VAL:O	2.42	0.66
21:DV:191:VAL:CG1	21:DV:197:ILE:HG13	2.13	0.66
1:AA:956:G:H5'	1:AA:957:A:OP2	1.95	0.66
54:CA:629:G:H5''	54:CA:630:G:OP2	1.94	0.66
49:CV:63:THR:HG23	49:CV:65:ASN:HD21	1.60	0.66
55:DA:1484:G:H2'	55:DA:1485:G:C5'	2.12	0.66
11:AO:18:ARG:O	11:AO:19:VAL:HB	1.95	0.66
16:D1:92:ARG:NH2	16:D1:94:ASN:HD22	1.92	0.66
55:DA:2761:G:H8	55:DA:2761:G:H5'	1.59	0.66
55:DA:265:A:N6	55:DA:427:U:O2'	2.28	0.66
32:BE:20:GLU:HG2	32:BE:189:ASP:OD2	1.95	0.66
6:DG:77:ILE:HG22	6:DG:80:PHE:H	1.60	0.66
8:AK:5:LEU:HD12	8:AK:5:LEU:N	2.10	0.66
24:AW:53:LEU:HD22	24:AW:57:ILE:HD11	1.77	0.66
18:AS:59:VAL:HG23	18:AS:65:LEU:N	2.08	0.66
18:AS:65:LEU:HD22	18:AS:67:ASP:H	1.60	0.66
35:BH:137:GLU:O	35:BH:141:GLN:HG3	1.95	0.66
31:BA:1053:G:O6	31:BA:1199:U:H2'	1.95	0.66
55:DA:2641:G:P	9:DM:74:ARG:HE	2.17	0.66
12:AP:19:GLY:O	12:AP:98:LYS:HD3	1.95	0.66
12:DP:81:VAL:O	12:DP:82:ARG:NE	2.27	0.66
1:AA:2776:A:O2'	1:AA:2777:G:OP2	2.12	0.66
54:CA:644:G:H2'	54:CA:645:C:H5'	1.77	0.66
19:AT:65:ARG:HG3	19:AT:65:ARG:HH11	1.60	0.66
55:DA:2101:G:H2'	55:DA:2102:U:C6	2.30	0.66
1:AA:530:G:O6	1:AA:2023:G:OP1	2.12	0.66
11:DO:11:GLY:O	11:DO:12:ALA:CB	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:9:ILE:HB	7:AH:49:VAL:HB	1.76	0.66
1:AA:2853:C:H2'	1:AA:2854:G:H8	1.59	0.66
19:DT:53:LYS:HB2	19:DT:82:GLN:HB3	1.76	0.66
20:AU:56:PRO:HB2	20:AU:57:GLN:NE2	2.10	0.66
50:BW:14:LYS:O	50:BW:18:GLN:HG3	1.94	0.66
35:BH:135:THR:O	35:BH:138:ALA:HB3	1.95	0.66
54:CA:1014:A:H4'	49:CV:14:HIS:CE1	2.29	0.66
13:D0:105:ARG:O	13:D0:105:ARG:HG3	1.93	0.66
55:DA:1066:U:H3'	55:DA:1066:U:O2	1.95	0.66
55:DA:1077:A:OP1	55:DA:1077:A:H4'	1.94	0.66
58:DL:109:LYS:CA	58:DL:120:LEU:HD21	2.25	0.66
58:DL:133:SER:CA	58:DL:137:GLU:OE1	2.42	0.66
57:DY:137:GLU:HG3	57:DY:138:LEU:N	2.07	0.66
57:DY:6:ASN:O	57:DY:9:LEU:HB3	1.94	0.66
1:AA:829:A:N7	1:AA:2248:C:H5'	2.11	0.66
30:A8:14:VAL:HG12	30:A8:15:LYS:N	2.10	0.66
55:DA:2683:C:P	15:DR:53:ARG:HH22	2.17	0.66
4:AE:4:ILE:HD11	4:AE:28:ALA:HB3	1.76	0.66
7:DH:148:ILE:O	7:DH:151:ILE:HG12	1.95	0.66
5:AF:7:TYR:HE1	5:AF:10:PRO:HG3	1.60	0.66
46:CS:6:LEU:HB3	46:CS:17:TYR:HD2	1.60	0.66
50:CW:96:GLY:O	50:CW:99:LEU:HD21	1.94	0.66
1:AA:1803:A:C2	1:AA:1822:G:N3	2.64	0.66
57:DY:107:VAL:CG1	57:DY:108:LYS:N	2.52	0.66
1:AA:1454:U:O2'	1:AA:1455:G:C8	2.47	0.66
9:AM:55:VAL:HB	9:AM:126:PRO:CB	2.24	0.66
34:CG:198:VAL:HG12	34:CG:199:ASN:H	1.61	0.66
42:BO:32:PHE:HB3	42:BO:84:LEU:CD2	2.25	0.66
33:BF:182:ILE:HG12	33:BF:203:PHE:HA	1.76	0.66
31:BA:173:U:O2'	31:BA:174:C:OP1	2.12	0.66
7:AH:33:LEU:HD13	7:AH:75:ALA:HA	1.77	0.66
27:A5:47:PRO:HB3	27:A5:56:LYS:HZ1	1.60	0.66
54:CA:738:C:H2'	54:CA:739:C:H6	1.61	0.66
34:CG:79:PHE:HD2	34:CG:79:PHE:C	1.98	0.66
55:DA:2790:A:C2	55:DA:2894:G:H5''	2.30	0.66
55:DA:2789:C:C2'	55:DA:2790:A:H5''	2.24	0.66
16:A1:24:TYR:HB2	16:A1:29:SER:HB3	1.77	0.66
55:DA:573:G:N1	55:DA:2031:A:OP2	2.20	0.66
40:CM:92:THR:HG23	40:CM:93:GLY:H	1.58	0.66
45:CR:3:ILE:HD13	45:CR:3:ILE:H	1.58	0.66
55:DA:270(M):U:H1'	55:DA:270(N):G:C6	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:753:A:H4'	54:CA:754:C:O5'	1.96	0.66
6:AG:180:PHE:C	6:AG:182:LYS:H	1.99	0.66
31:BA:85:U:O2	31:BA:85:U:H2'	1.94	0.66
1:AA:1444(A):A:N3	1:AA:1444(A):A:H2'	2.10	0.66
1:AA:535:C:O2'	1:AA:536:A:H5'	1.95	0.66
55:DA:1060:U:H1'	55:DA:1061:U:H3'	1.77	0.66
55:DA:1062:G:O2'	55:DA:1077:A:N6	2.23	0.66
58:DL:59:ILE:HG22	58:DL:60:TYR:H	1.61	0.66
57:DY:16:ASN:O	57:DY:19:ARG:O	2.13	0.66
57:DY:46:GLN:NE2	57:DY:46:GLN:HA	2.10	0.66
57:DY:99:SER:O	57:DY:100:ASN:C	2.34	0.66
21:DV:187:ALA:HB2	21:DV:193:GLU:CG	2.21	0.66
1:AA:644:A:H4'	1:AA:645:C:H5	1.60	0.66
1:AA:2068:U:N3	1:AA:2430:A:C2	2.62	0.66
21:DV:178:GLU:C	21:DV:180:VAL:N	2.49	0.66
49:CV:63:THR:HG23	49:CV:66:MET:HG2	1.78	0.66
8:DK:114:LEU:CD1	8:DK:128:LEU:HD12	2.25	0.66
55:DA:1177:A:C4'	55:DA:1178:C:H5"	2.24	0.66
28:D6:25:LYS:HE2	28:D6:27:LYS:CE	2.24	0.66
54:CA:323:U:H5'	50:CW:23:ARG:HB2	1.76	0.66
34:BG:19:LEU:O	34:BG:21:LEU:N	2.28	0.66
4:AE:60:ASN:O	4:AE:61:ARG:HB2	1.93	0.66
7:DH:150:ALA:O	7:DH:152:ARG:N	2.26	0.66
6:DG:173:LEU:HD22	6:DG:178:PHE:CZ	2.30	0.66
55:DA:2135:A:H3'	55:DA:2136:C:C5	2.30	0.66
3:AD:27:THR:O	3:AD:29:PRO:HD2	1.94	0.66
46:CS:20:VAL:HG23	46:CS:35:LYS:HA	1.75	0.66
55:DA:467:G:OP1	29:D7:33:ARG:NH1	2.27	0.66
31:BA:1175:G:C6	31:BA:1176:A:N6	2.63	0.66
31:BA:511:C:C2	31:BA:512:U:C5	2.83	0.66
1:AA:588:U:H2'	1:AA:589:C:C6	2.30	0.66
55:DA:2591:C:OP1	3:DD:239:ARG:HG3	1.96	0.66
1:AA:603:A:H4'	1:AA:604:G:O5'	1.95	0.66
54:CA:1298:C:N4	37:CJ:114:ARG:HB3	2.10	0.66
13:D0:10:LEU:O	13:D0:12:ARG:HG3	1.94	0.66
1:AA:270(E):G:H2'	1:AA:270(F):U:H6	1.61	0.66
31:BA:87:A:H2'	31:BA:87:A:N3	2.10	0.66
5:DF:180:GLY:O	5:DF:181:LEU:C	2.32	0.66
32:BE:137:ARG:HD3	32:BE:137:ARG:C	2.16	0.66
1:AA:1824:G:O2'	1:AA:1825:A:H5'	1.95	0.66
46:BS:8:ARG:HH11	46:BS:8:ARG:HG2	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:524:G:H2'	31:BA:525:C:C6	2.30	0.66
1:AA:2820:A:H62	4:AE:192:ASN:H	0.68	0.66
55:DA:1060:U:H5	58:DL:74:ALA:CB	2.09	0.66
55:DA:1084:A:N6	57:DY:31:GLY:HA3	2.10	0.66
58:DL:76:TYR:CG	58:DL:77:LEU:N	2.61	0.66
28:A6:14:THR:HG22	28:A6:50:ARG:O	1.95	0.66
23:DZ:87:PRO:O	23:DZ:91:LYS:N	2.19	0.66
54:CA:1320:C:OP1	49:CV:70:LYS:HE3	1.95	0.66
11:DO:111:ARG:HH12	11:DO:148:LEU:HD21	1.60	0.66
21:AV:62:PRO:O	21:AV:63:ASP:C	2.34	0.66
8:DK:92:VAL:HG22	8:DK:92:VAL:O	1.96	0.66
26:D4:4:GLY:O	26:D4:5:ILE:HB	1.96	0.66
3:DD:44:ASN:HB2	3:DD:48:ARG:O	1.96	0.66
3:AD:108:PRO:HB3	3:AD:143:HIS:CE1	2.31	0.66
55:DA:1771:C:H1'	55:DA:1786:A:C8	2.30	0.66
31:BA:706:A:H1'	41:BN:29:ILE:HD11	1.77	0.66
6:DG:113:ARG:NH1	6:DG:142:PRO:HA	2.10	0.66
18:DS:29:LEU:HD21	18:DS:33:ARG:CZ	2.25	0.66
42:CO:7:ILE:O	42:CO:11:VAL:HG23	1.95	0.66
21:AV:11:GLU:HG3	21:AV:12:GLY:H	1.60	0.66
1:AA:1682:G:H2'	1:AA:1683:C:C6	2.30	0.66
35:CH:99:GLY:O	35:CH:117:ASP:HA	1.96	0.66
57:DY:7:VAL:HG13	57:DY:8:GLU:H	1.55	0.66
57:DY:8:GLU:OE1	57:DY:52:PHE:CD1	2.40	0.66
57:DY:93:LEU:CG	57:DY:126:ALA:HB1	2.25	0.66
49:BV:42:PRO:O	49:BV:43:GLU:C	2.33	0.66
1:AA:779:U:OP1	3:AD:49:ILE:HG23	1.96	0.66
6:AG:112:PRO:HB2	26:A4:37:SER:HA	1.77	0.66
43:BP:19:LEU:O	43:BP:22:ILE:HG13	1.95	0.66
23:DZ:60:PHE:HE2	23:DZ:91:LYS:HZ2	1.41	0.66
40:BM:99:LYS:CD	40:BM:100:THR:H	2.08	0.66
54:CA:976:G:N2	54:CA:1362(A):C:OP2	2.28	0.66
4:DE:52:LEU:HB2	4:DE:75:VAL:CG2	2.25	0.66
55:DA:2287:A:N6	55:DA:2344:U:N3	2.40	0.66
40:BM:8:LEU:HG	40:BM:96:ILE:CG2	2.19	0.66
12:DP:80:GLU:OE2	22:D3:4:LYS:NZ	2.28	0.66
31:BA:38:G:H4'	31:BA:547:A:N6	2.11	0.66
21:AV:23:LYS:HD3	21:AV:40:ASP:HA	1.76	0.66
3:AD:27:THR:HG21	3:AD:83:GLU:HG2	1.78	0.66
19:AT:63:LYS:CE	19:AT:63:LYS:H	2.07	0.66
55:DA:2750:A:O2'	55:DA:2751:G:OP1	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:443:A:H5''	1:AA:444:C:OP1	1.96	0.66
27:A5:47:PRO:HB3	27:A5:56:LYS:NZ	2.10	0.66
34:CG:33:MET:CE	34:CG:37:PRO:HA	2.24	0.66
3:AD:206:LEU:HD22	3:AD:211:ARG:HG2	1.76	0.66
11:DO:6:LEU:O	11:DO:7:ARG:HG2	1.95	0.66
32:BE:82:ARG:HA	32:BE:92:TYR:HE1	1.61	0.66
48:BU:41:LYS:HA	48:BU:44:LEU:HD13	1.76	0.66
25:AX:8:LEU:HD13	25:AX:31:LEU:HA	1.76	0.66
25:AX:8:LEU:CD1	25:AX:31:LEU:HD12	2.24	0.66
13:D0:3:HIS:O	13:D0:5:LYS:N	2.22	0.66
15:AR:50:ILE:HD11	15:AR:102:ILE:CG1	2.25	0.66
1:AA:270(Z):U:O2'	1:AA:271(A):C:H5	1.78	0.66
55:DA:1541:U:H2'	55:DA:1542:G:O4'	1.94	0.66
50:BW:89:ARG:NH1	50:BW:104:LEU:HG	2.11	0.66
31:BA:179:A:H2'	31:BA:180:U:C6	2.31	0.66
1:AA:1579:A:H2'	1:AA:1580:A:O4'	1.96	0.66
55:DA:2836:U:H2'	55:DA:2837:G:C8	2.30	0.66
1:AA:1278:A:OP1	13:A0:36:THR:HG22	1.95	0.66
55:DA:2756:U:O2'	55:DA:2757:A:H5''	1.95	0.66
42:BO:18:VAL:HG23	42:BO:19:ARG:H	1.59	0.66
46:BS:82:GLN:O	46:BS:83:GLU:HB2	1.96	0.66
58:DL:132:ARG:CD	58:DL:137:GLU:OE2	2.43	0.66
57:DY:14:LYS:HA	57:DY:14:LYS:CE	2.23	0.66
1:AA:644:A:N6	1:AA:2349:G:H1'	2.11	0.66
3:DD:27:THR:O	3:DD:29:PRO:HD2	1.95	0.66
20:DU:52:SER:OG	20:DU:53:PRO:HD3	1.95	0.66
16:A1:76:TYR:O	16:A1:80:ILE:HG12	1.96	0.66
4:AE:77:ILE:C	4:AE:78:LEU:HD23	2.16	0.66
31:BA:1144:G:H22	31:BA:1146:A:N6	1.93	0.66
1:AA:1043:C:H2'	1:AA:1044:G:C5'	2.25	0.66
55:DA:1266:G:C8	18:DS:15:ARG:NH1	2.64	0.66
55:DA:607:U:N3	55:DA:621:A:C2	2.63	0.66
1:AA:74:A:O2'	1:AA:75:G:OP2	2.11	0.66
5:AF:101:LEU:O	5:AF:106:ARG:NH1	2.29	0.66
5:DF:46:ARG:HH11	5:DF:46:ARG:CG	2.08	0.66
1:AA:1083:U:H1'	1:AA:1086:A:H61	1.59	0.66
50:BW:100:ILE:HD12	50:BW:100:ILE:H	1.60	0.66
34:CG:23:GLY:HA3	34:CG:112:VAL:HG21	1.76	0.66
54:CA:22:G:H5'	54:CA:885:G:O4'	1.96	0.66
54:CA:50:A:O2'	54:CA:52:G:C8	2.49	0.66
39:CL:48:GLU:N	39:CL:49:PRO:HD2	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CF:21:ARG:HD3	33:CF:21:ARG:H	1.61	0.66
24:AW:65:ASN:HD22	24:AW:69:ARG:HH21	1.43	0.66
50:BW:88:VAL:HA	50:BW:91:LEU:HD12	1.76	0.66
3:AD:76:PRO:HG2	3:AD:98:VAL:HG21	1.76	0.66
54:CA:1529:G:H5''	54:CA:1530:G:OP2	1.95	0.66
55:DA:444:C:H4'	5:DF:49:ALA:HB2	1.77	0.66
58:DL:18:THR:CG2	58:DL:42:ASN:OD1	2.43	0.66
26:A4:56:VAL:HA	26:A4:60:GLN:HE22	1.61	0.66
11:AO:62:LEU:O	11:AO:62:LEU:HD13	1.96	0.66
26:D4:68:ARG:CA	26:D4:68:ARG:NH1	2.58	0.66
23:DZ:91:LYS:CE	23:DZ:91:LYS:HA	2.15	0.66
55:DA:2566:A:O2'	55:DA:2567:G:OP2	2.12	0.66
54:CA:953:G:H5'	54:CA:965:A:H61	1.60	0.66
28:D6:37:ARG:HA	28:D6:37:ARG:NE	2.09	0.66
9:AM:35:ARG:HB3	9:AM:42:TRP:CZ3	2.30	0.66
55:DA:654(L):G:N2	55:DA:654(M):C:H1'	2.09	0.66
4:AE:60:ASN:O	4:AE:62:PRO:HD2	1.95	0.66
1:AA:2756:U:H5''	1:AA:2757:A:OP1	1.95	0.66
1:AA:2528:U:C2'	1:AA:2529:G:H5''	2.26	0.66
53:C1:53:U:O2'	53:C1:54:U:H5'	1.95	0.66
12:DP:86:GLY:C	12:DP:88:GLY:N	2.48	0.66
31:BA:1347:G:N2	31:BA:1373:G:H2'	2.10	0.66
55:DA:2308:G:C2	55:DA:2311:A:H2	2.14	0.66
3:AD:35:LYS:NZ	3:AD:64:ILE:O	2.24	0.66
3:AD:65:ILE:HD11	3:AD:67:PHE:CE2	2.30	0.66
12:DP:81:VAL:C	12:DP:82:ARG:HG2	2.15	0.66
32:BE:92:TYR:CD2	32:BE:151:GLY:HA3	2.31	0.66
1:AA:1945:G:H2'	1:AA:1946:U:C6	2.31	0.66
31:BA:17:U:H2'	31:BA:18:C:H6	1.59	0.66
55:DA:701:G:C3'	55:DA:702:G:H5''	2.26	0.66
38:BK:84:ARG:NH1	38:BK:86:ILE:HD13	2.10	0.66
21:DV:48:PHE:CE2	21:DV:71:VAL:HG11	2.31	0.66
31:BA:329:A:H4'	31:BA:330:C:OP1	1.95	0.66
23:AZ:8:SER:HB3	23:AZ:66:HIS:ND1	2.11	0.66
8:DK:69:LYS:HE2	8:DK:73:GLU:OE2	1.96	0.66
40:BM:12:ASP:HB3	40:BM:15:THR:HG23	1.78	0.66
9:AM:71:ILE:H	9:AM:71:ILE:HD12	1.60	0.66
39:BL:127:LYS:O	39:BL:128:ARG:HG2	1.95	0.66
24:DW:28:LYS:HD2	24:DW:53:LEU:HD21	1.78	0.66
19:AT:89:ILE:HG21	19:AT:92:LEU:HG	1.77	0.66
58:DL:93:ARG:HG2	58:DL:135:GLY:HA3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:101:PRO:HG2	57:DY:102:LYS:N	2.10	0.66
57:DY:134:LEU:HA	57:DY:137:GLU:CG	2.24	0.66
21:AV:181:GLU:HG2	21:AV:185:GLU:OE2	1.96	0.66
1:AA:2348:U:C2'	1:AA:2349:G:H5''	2.25	0.66
21:DV:174:VAL:O	21:DV:175:VAL:CG1	2.43	0.66
3:DD:132:PRO:HG3	3:DD:190:TYR:CE1	2.31	0.66
30:D8:52:LYS:N	30:D8:53:PRO:CD	2.41	0.66
55:DA:483:A:H3'	55:DA:484:C:C6	2.30	0.66
17:A2:73:SER:HB3	17:A2:83:ARG:O	1.96	0.66
1:AA:1006:C:H1'	9:AM:106:MET:CE	2.26	0.66
38:CK:87:SER:HB2	38:CK:93:VAL:HB	1.77	0.66
1:AA:1237:A:H4'	1:AA:1238:G:O5'	1.96	0.66
5:AF:24:LEU:CB	5:AF:25:PRO:HD2	2.22	0.66
32:BE:187:LEU:HA	32:BE:201:ILE:O	1.96	0.66
54:CA:186(C):G:H2'	54:CA:186(D):C:C6	2.29	0.66
55:DA:1237:A:H4'	55:DA:1238:G:O5'	1.94	0.66
8:DK:74:ASN:N	8:DK:74:ASN:HD22	1.93	0.66
7:DH:19:VAL:HG12	7:DH:20:ALA:N	2.10	0.66
6:AG:115:ARG:HH12	43:BP:7:VAL:CG2	2.06	0.66
11:AO:15:ARG:O	11:AO:16:ARG:C	2.34	0.66
1:AA:1528:A:N1	1:AA:1543:A:C2	2.64	0.66
22:A3:36:ILE:O	22:A3:36:ILE:HD13	1.96	0.66
7:AH:87:LEU:HD22	7:AH:162:ILE:HG22	1.76	0.66
16:A1:66:ASN:ND2	16:A1:70:ARG:HE	1.94	0.66
1:AA:1729:A:N1	1:AA:1731:G:N7	2.44	0.66
20:AU:12:THR:HG23	20:AU:26:LYS:HE2	1.77	0.66
33:CF:40:ARG:HG2	33:CF:55:VAL:HG11	1.78	0.66
1:AA:2867:G:O2'	1:AA:2868:A:H8	1.79	0.66
55:DA:1431:U:H2'	55:DA:1432:C:H6	1.61	0.66
55:DA:2357:U:OP1	22:D3:20:ARG:NH1	2.29	0.66
49:BV:53:ASN:HB2	49:BV:77:THR:HG22	1.77	0.66
1:AA:1011:G:H2'	1:AA:1013:C:O4'	1.96	0.66
31:BA:1401:G:C2	31:BA:1402:C:H1'	2.31	0.66
54:CA:328:C:O2'	54:CA:329:A:OP2	2.14	0.66
11:DO:26:GLY:O	11:DO:28:GLY:N	2.28	0.66
56:DI:21:LYS:CA	56:DI:24:ILE:HD12	2.25	0.66
56:DJ:10:GLU:O	56:DJ:17:VAL:CG1	2.43	0.66
58:DL:95:LYS:N	58:DL:136:VAL:CG1	2.58	0.66
57:DY:74:LEU:HB3	57:DY:120:LYS:H	1.58	0.66
1:AA:1028:A:N6	1:AA:1125:G:H2'	2.11	0.66
1:AA:1188:U:O2'	1:AA:1189:A:H5'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:630:G:O4'	54:CA:630:G:P	2.53	0.66
55:DA:2810:A:O3'	4:DE:61:ARG:HG2	1.96	0.66
1:AA:1049:C:H42	7:AH:2:SER:HB2	1.60	0.66
31:BA:280:C:O2'	31:BA:281:G:P	2.54	0.66
1:AA:2091:U:C3'	1:AA:2092:U:H5'	2.20	0.66
55:DA:2882:A:OP1	13:D0:96:ARG:NH1	2.28	0.66
50:CW:89:ARG:NH2	50:CW:104:LEU:HD21	2.10	0.66
3:AD:242:ARG:HD2	3:AD:242:ARG:N	2.09	0.66
31:BA:1176:A:H8	31:BA:1176:A:O5'	1.77	0.66
39:BL:40:LEU:HD13	39:BL:74:ILE:HD11	1.76	0.66
55:DA:2752:C:H5'	55:DA:2753:A:OP2	1.96	0.66
55:DA:2751:G:O6	7:DH:2:SER:HB3	1.95	0.66
40:BM:49:VAL:O	40:BM:60:ARG:HB2	1.96	0.66
54:CA:738:C:H5''	36:CI:69:GLU:HB2	1.77	0.66
1:AA:1914:C:H3'	1:AA:1914:C:O2	1.94	0.66
2:DB:15:A:H5'	2:DB:16:G:H8	1.59	0.66
4:DE:120:TRP:CD2	4:DE:155:LYS:HD3	2.30	0.66
11:DO:14:LYS:O	11:DO:15:ARG:C	2.33	0.66
1:AA:2183:C:H2'	1:AA:2184:G:C8	2.29	0.66
35:CH:53:LEU:HD12	35:CH:53:LEU:H	1.61	0.66
39:BL:111:ARG:HD2	44:BQ:61:TRP:OXT	1.96	0.66
23:AZ:8:SER:HB3	23:AZ:66:HIS:CE1	2.30	0.66
1:AA:1918:A:O2'	1:AA:1919:A:N7	2.28	0.66
45:BR:79:ARG:O	45:BR:83:GLU:HB2	1.95	0.66
1:AA:877:U:O5'	1:AA:877:U:H6	1.78	0.66
14:DQ:49:VAL:HG22	14:DQ:80:LEU:HD12	1.78	0.66
32:BE:172:ILE:HD12	32:BE:172:ILE:H	1.61	0.66
58:DL:25:PRO:HA	58:DL:27:LEU:CG	2.21	0.66
1:AA:896:A:C5'	1:AA:897:C:OP2	2.42	0.66
21:AV:176:PRO:O	21:AV:178:GLU:N	2.28	0.66
21:DV:174:VAL:O	21:DV:175:VAL:CG2	2.44	0.66
2:AB:40:U:N1	26:A4:1:MET:HE1	2.11	0.66
4:DE:53:PRO:O	4:DE:74:PRO:HA	1.96	0.66
55:DA:2347:C:H2'	55:DA:2348:U:H6	1.59	0.66
17:A2:38:LEU:HD12	17:A2:55:ALA:C	2.17	0.66
4:DE:14:ILE:O	4:DE:15:PHE:CG	2.49	0.66
31:BA:1347:G:O2'	31:BA:1348:U:OP2	2.13	0.66
46:CS:6:LEU:HG	46:CS:17:TYR:HB3	1.76	0.66
6:DG:133:LEU:HD21	6:DG:157:ILE:HB	1.79	0.66
1:AA:2688:U:H2'	1:AA:2719:G:N2	2.10	0.66
54:CA:1346:A:C5'	39:CL:120:ARG:HH12	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:103:VAL:HG21	38:CK:110:ALA:HB2	1.78	0.66
12:AP:33:GLY:HA2	12:AP:105:GLU:HA	1.75	0.66
55:DA:583:G:H5''	16:D1:10:ARG:HH12	1.59	0.66
33:BF:35:GLU:O	33:BF:39:ILE:HG13	1.96	0.66
55:DA:829:A:N7	55:DA:2248:C:H5'	2.11	0.66
18:AS:4:LYS:HG2	18:AS:106:ILE:HG22	1.77	0.66
1:AA:49:A:H1'	1:AA:51:G:C4	2.31	0.66
26:D4:14:ILE:HG21	26:D4:21:VAL:HB	1.78	0.66
55:DA:142:G:H2'	55:DA:143:C:C6	2.31	0.66
55:DA:609(A):G:H2'	55:DA:610:C:H6	1.61	0.66
18:AS:58:ALA:O	18:AS:62:HIS:HB2	1.95	0.66
20:DU:35:TYR:CE1	20:DU:69:ALA:HB3	2.31	0.66
3:AD:186:HIS:HB3	3:AD:189:CYS:SG	2.36	0.66
55:DA:800:A:H4'	55:DA:801:G:O5'	1.95	0.66
1:AA:2046:G:H5'	27:A5:19:ARG:HG3	1.77	0.66
30:D8:41:ILE:HG13	30:D8:42:ARG:N	2.10	0.66
55:DA:2409:G:H2'	55:DA:2410:G:O4'	1.96	0.66
55:DA:1102:C:O2'	55:DA:1103:A:H5''	1.96	0.65
58:DL:100:THR:C	58:DL:102:GLU:N	2.50	0.65
58:DL:78:ILE:CA	58:DL:82:ALA:HB3	2.25	0.65
57:DY:75:GLN:CG	57:DY:110:GLY:O	2.44	0.65
31:BA:942:G:N2	39:BL:124:GLN:HE22	1.93	0.65
55:DA:1359:A:C4'	55:DA:1359:A:H8	2.04	0.65
28:A6:41:PRO:HD2	28:A6:46:HIS:HA	1.76	0.65
40:BM:4:ILE:HD11	40:BM:77:PRO:HB3	1.78	0.65
4:DE:51:PHE:CD1	4:DE:52:LEU:HG	2.30	0.65
28:D6:15:GLU:CD	28:D6:44:ARG:HH22	2.00	0.65
20:DU:76:CYS:HB3	20:DU:96:ILE:CD1	2.24	0.65
1:AA:581:C:H2'	1:AA:582:G:H8	1.60	0.65
17:D2:58:VAL:CB	17:D2:98:GLU:HB2	2.19	0.65
53:C1:52:U:C2'	53:C1:53:U:C5'	2.73	0.65
26:D4:32:TYR:C	26:D4:32:TYR:CD2	2.70	0.65
31:BA:792:A:C2'	31:BA:794:A:N6	2.42	0.65
54:CA:1176:A:N6	54:CA:1177:G:C6	2.65	0.65
55:DA:1933:G:H2'	55:DA:1934:C:H5''	1.78	0.65
54:CA:129(A):G:C2	54:CA:188:U:O2'	2.48	0.65
37:BJ:113:GLU:CB	37:BJ:119:ARG:HG2	2.25	0.65
11:AO:83:VAL:HG23	11:AO:105:LEU:HD22	1.79	0.65
5:DF:178:PRO:HG2	5:DF:179:GLU:OE2	1.94	0.65
33:BF:118:GLN:O	33:BF:122:GLU:HG3	1.94	0.65
55:DA:1652:A:H3'	55:DA:1653:G:C8	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1112:G:O2'	7:DH:2:SER:HB2	1.96	0.65
33:BF:34:LEU:HG	33:BF:38:ARG:NH2	2.10	0.65
55:DA:2591:C:H2'	55:DA:2592:G:C8	2.30	0.65
31:BA:1241:G:H2'	31:BA:1242:C:H6	1.61	0.65
22:A3:68:GLU:CG	22:A3:80:HIS:HB2	2.25	0.65
11:DO:47:ASP:OD1	11:DO:50:ARG:NH2	2.30	0.65
55:DA:2219:G:H2'	55:DA:2224:G:H5'	1.77	0.65
4:DE:117:MET:O	4:DE:117:MET:CG	2.44	0.65
9:AM:17:ASP:O	9:AM:18:ALA:HB2	1.95	0.65
15:AR:102:ILE:O	15:AR:106:SER:HB3	1.96	0.65
8:DK:32:PRO:C	8:DK:34:GLY:H	1.98	0.65
21:DV:48:PHE:CE2	21:DV:52:SER:HA	2.31	0.65
55:DA:1464:C:HO2'	55:DA:1528:A:H8	1.42	0.65
38:BK:20:TYR:HE2	38:BK:75:ARG:HD2	1.61	0.65
1:AA:877:U:O2'	1:AA:878:A:H5'	1.95	0.65
34:BG:53:ASP:O	34:BG:57:ARG:HG2	1.94	0.65
2:AB:113:C:O2'	14:AQ:46:VAL:HG13	1.96	0.65
11:DO:97:PRO:O	11:DO:98:GLU:HB3	1.97	0.65
1:AA:2818:G:OP2	13:A0:42:LYS:NZ	2.28	0.65
47:BT:87:LYS:O	47:BT:91:ARG:HG3	1.96	0.65
31:BA:1189:C:OP1	33:BF:5:ILE:HG21	1.95	0.65
28:A6:52:VAL:HG13	28:A6:53:LYS:N	2.11	0.65
1:AA:2820:A:O5'	13:A0:4:LEU:HD22	1.97	0.65
56:DI:16:THR:O	56:DI:20:LEU:HD12	1.95	0.65
56:DJ:12:LEU:N	56:DJ:13:SER:HB3	2.02	0.65
56:DJ:11:GLU:HA	56:DJ:17:VAL:HG11	1.78	0.65
57:DY:89:ALA:HB2	57:DY:125:LEU:CD1	2.26	0.65
57:DY:91:LYS:HZ3	57:DY:95:GLN:HE21	1.44	0.65
54:CA:73:G:C2	54:CA:74:C:N4	2.64	0.65
40:BM:78:ASN:C	40:BM:80:LYS:H	1.98	0.65
4:DE:78:LEU:CD2	4:DE:79:ARG:HE	2.10	0.65
21:DV:119:GLU:O	21:DV:119:GLU:CG	2.42	0.65
28:D6:20:ASN:ND2	28:D6:42:TRP:HH2	1.94	0.65
17:A2:57:VAL:HG12	17:A2:99:ILE:HG13	1.77	0.65
20:DU:95:LYS:HB3	20:DU:100:ALA:CA	2.19	0.65
1:AA:2534:A:H5'	1:AA:2534:A:H8	1.61	0.65
31:BA:954:G:H2'	31:BA:955:U:H6	1.61	0.65
8:DK:77:LEU:HD11	8:DK:140:LEU:CA	2.27	0.65
23:AZ:87:PRO:O	23:AZ:88:LYS:C	2.34	0.65
8:AK:97:ILE:O	8:AK:100:ALA:HB3	1.96	0.65
31:BA:828:A:H5''	31:BA:859:A:C2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:111:A:H4'	24:DW:69:ARG:HH22	1.60	0.65
1:AA:620:G:H4'	1:AA:621:A:H5'	1.78	0.65
5:DF:47:GLY:HA3	5:DF:95:ARG:O	1.95	0.65
3:DD:241:PRO:O	3:DD:243:GLY:N	2.29	0.65
23:AZ:82:LEU:HG	23:AZ:83:GLU:N	2.09	0.65
9:AM:137:LYS:HZ3	9:AM:138:LEU:HD23	1.60	0.65
55:DA:686:G:N2	55:DA:788:A:H61	1.94	0.65
55:DA:445:C:O2'	55:DA:446:G:H5'	1.95	0.65
34:BG:49:ARG:NH2	53:B1:57:U:H1'	2.12	0.65
33:BF:76:VAL:HG23	33:BF:77:ILE:N	2.11	0.65
55:DA:2211:G:H2'	55:DA:2211:G:N3	2.11	0.65
39:CL:17:VAL:HG11	39:CL:81:ILE:HA	1.77	0.65
1:AA:405:U:O2	1:AA:405:U:H2'	1.95	0.65
51:BX:15:ARG:HH11	51:BX:15:ARG:HB2	1.59	0.65
55:DA:2725:A:O2'	55:DA:2726:U:O5'	2.13	0.65
33:BF:125:GLU:HG3	33:BF:189:ALA:HB1	1.78	0.65
1:AA:1859:A:N6	1:AA:1883:G:O2'	2.30	0.65
52:CC:28:G:H2'	52:CC:29:G:H5'	1.78	0.65
55:DA:1728:G:N1	55:DA:1730:U:OP2	2.29	0.65
19:DT:70:LEU:H	19:DT:70:LEU:HD23	1.61	0.65
58:DL:41:PHE:CD2	58:DL:41:PHE:C	2.69	0.65
31:BA:977:A:O2'	31:BA:978:A:H5'	1.96	0.65
49:BV:48:THR:HG22	49:BV:61:TYR:HA	1.77	0.65
49:BV:63:THR:HG22	49:BV:66:MET:HE3	1.78	0.65
3:DD:64:ILE:O	3:DD:64:ILE:HG12	1.96	0.65
2:AB:42:C:C4'	6:AG:67:LYS:HD3	2.20	0.65
1:AA:242:G:O2'	1:AA:243:U:OP2	2.13	0.65
55:DA:2667:C:H1'	7:DH:109:PHE:HD2	1.61	0.65
14:DQ:66:ALA:O	14:DQ:69:VAL:HG13	1.96	0.65
50:CW:63:ILE:HG22	50:CW:77:ALA:HB1	1.79	0.65
46:CS:45:THR:CG2	46:CS:47:ASP:H	2.03	0.65
18:DS:88:ARG:HB3	18:DS:92:ARG:HB3	1.77	0.65
53:C1:52:U:O2'	53:C1:53:U:C5'	2.39	0.65
1:AA:307:G:H21	1:AA:330:A:H62	1.43	0.65
55:DA:1796:U:H2'	55:DA:1797:C:C6	2.31	0.65
1:AA:654(L):G:N2	1:AA:654(M):C:H1'	2.12	0.65
39:BL:96:LEU:HD23	39:BL:102:LEU:HD12	1.79	0.65
11:AO:83:VAL:CG1	11:AO:112:LEU:HD21	2.26	0.65
1:AA:1280:G:C2'	1:AA:1281:G:H5''	2.26	0.65
1:AA:1331:A:H2'	1:AA:1333:C:C5	2.32	0.65
1:AA:527:C:OP2	1:AA:2779:U:C5	2.50	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CL:9:ARG:HB2	39:CL:14:VAL:HG22	1.79	0.65
13:D0:74:LYS:O	13:D0:75:LEU:HB3	1.96	0.65
55:DA:1999:C:H4'	55:DA:2723:C:O2	1.96	0.65
55:DA:1578:U:H2'	55:DA:1579:A:H5'	1.79	0.65
12:DP:110:THR:HB	12:DP:112:GLU:HG2	1.78	0.65
55:DA:883:G:O5'	55:DA:883:G:C8	2.49	0.65
10:AN:69:ILE:H	10:AN:69:ILE:HD12	1.60	0.65
54:CA:244:U:O2'	54:CA:245:C:OP2	2.14	0.65
35:CH:41:VAL:CG1	35:CH:113:ALA:HB2	2.26	0.65
55:DA:395:U:O2'	55:DA:396:G:C8	2.48	0.65
1:AA:212:G:O2'	1:AA:213:A:H5'	1.96	0.65
14:DQ:58:LEU:HD23	14:DQ:58:LEU:H	1.61	0.65
31:BA:13:U:H5'	31:BA:14:U:OP2	1.96	0.65
55:DA:1060:U:C5	58:DL:74:ALA:CB	2.79	0.65
58:DL:60:TYR:CD2	58:DL:63:ARG:HB3	2.31	0.65
58:DL:8:VAL:H	58:DL:57:ILE:CG1	2.09	0.65
57:DY:55:LYS:HG2	57:DY:56:ASN:N	2.10	0.65
1:AA:954:G:O2'	1:AA:2274:A:N1	2.24	0.65
6:AG:94:LEU:H	6:AG:94:LEU:HD23	1.62	0.65
54:CA:1053:G:H5'	54:CA:1054:C:C5'	2.24	0.65
54:CA:396:G:O2'	54:CA:398:C:OP1	2.09	0.65
27:A5:3:LYS:HG3	27:A5:4:HIS:H	1.61	0.65
1:AA:581:C:H2'	1:AA:582:G:C8	2.31	0.65
31:BA:412:A:O2'	31:BA:413:G:OP2	2.15	0.65
31:BA:1126:U:O2'	31:BA:1127:G:OP2	2.12	0.65
4:DE:186:GLY:O	4:DE:188:VAL:N	2.30	0.65
20:AU:17:SER:CB	20:AU:71:LYS:HD2	2.26	0.65
6:DG:55:LYS:NZ	6:DG:148:MET:HG3	2.12	0.65
15:DR:39:ARG:CG	15:DR:40:THR:H	2.09	0.65
1:AA:637:A:H4'	1:AA:638:G:O5'	1.96	0.65
33:BF:182:ILE:HG23	33:BF:202:ILE:C	2.17	0.65
41:BN:59:TYR:O	41:BN:62:GLN:HB3	1.97	0.65
42:CO:6:THR:H	42:CO:9:GLN:NE2	1.94	0.65
15:DR:41:ARG:HG2	15:DR:41:ARG:HH11	1.61	0.65
55:DA:1204:A:H1'	55:DA:1206:G:C4	2.31	0.65
43:BP:91:ARG:HH22	43:BP:103:THR:HG21	1.59	0.65
12:DP:134:ARG:O	12:DP:135:ASP:O	2.13	0.65
2:AB:52:A:O2'	2:AB:53:A:N7	2.29	0.65
32:CE:87:ARG:NE	32:CE:233:SER:HB2	2.11	0.65
55:DA:276:A:H2'	55:DA:277:C:C6	2.31	0.65
55:DA:1489:U:HO2'	55:DA:1490:A:H8	1.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1655:A:H3'	55:DA:1656:C:H6	1.60	0.65
1:AA:521:G:H2'	1:AA:522:G:H8	1.62	0.65
31:BA:1057:G:O2'	31:BA:1058:G:H5'	1.97	0.65
31:BA:160:A:H1'	31:BA:344:A:N7	2.11	0.65
56:DJ:14:GLN:N	56:DJ:15:ALA:O	2.30	0.65
58:DL:101:TRP:NE1	58:DL:140:GLY:HA2	2.11	0.65
57:DY:73:GLY:N	57:DY:112:LEU:HG	2.10	0.65
21:AV:177:PRO:O	21:AV:180:VAL:N	2.30	0.65
31:BA:947:G:H2'	31:BA:948:C:C6	2.31	0.65
28:A6:25:LYS:HA	30:A8:34:TRP:CH2	2.32	0.65
54:CA:1364:U:O2	54:CA:1364:U:H2'	1.96	0.65
31:BA:411:A:N7	31:BA:413:G:N3	2.44	0.65
21:DV:128:VAL:HG22	21:DV:129:SER:N	2.12	0.65
1:AA:2789:C:C2'	1:AA:2790:A:H5''	2.26	0.65
1:AA:2892:A:H2'	1:AA:2893:G:O4'	1.95	0.65
1:AA:2758:A:H2'	1:AA:2759:G:C5'	2.23	0.65
7:AH:7:LEU:N	7:AH:8:PRO:CD	2.60	0.65
1:AA:2602:A:O2'	1:AA:2603:G:OP2	2.13	0.65
16:D1:87:GLY:O	17:D2:50:PRO:HD3	1.96	0.65
43:CP:88:ARG:NH1	43:CP:88:ARG:HB3	2.04	0.65
55:DA:265:A:H2'	55:DA:266:G:O4'	1.96	0.65
15:DR:23:ARG:HA	15:DR:52:ILE:HD11	1.79	0.65
55:DA:1479:G:H5'	55:DA:1558:A:H2	1.60	0.65
39:CL:118:LYS:O	39:CL:119:ALA:HB3	1.97	0.65
36:BI:7:ASN:C	36:BI:8:ILE:HD12	2.17	0.65
1:AA:573:G:N1	1:AA:2031:A:OP2	2.25	0.65
34:CG:112:VAL:HG13	34:CG:113:SER:H	1.61	0.65
54:CA:826:C:H2'	54:CA:827:U:O2	1.96	0.65
2:DB:80:U:O2'	2:DB:81:G:H5''	1.97	0.65
48:CU:19:LYS:O	48:CU:20:ALA:HB2	1.95	0.65
1:AA:590:A:H2'	1:AA:591:C:C6	2.31	0.65
55:DA:1735:C:H6	55:DA:1735:C:H5'	1.62	0.65
1:AA:527:C:OP2	1:AA:2779:U:H5	1.79	0.65
55:DA:140:A:H8	55:DA:1408:C:HO2'	1.44	0.65
31:BA:149:A:H2'	31:BA:150:C:C6	2.32	0.65
14:AQ:26:LEU:HD22	14:AQ:87:PHE:CD1	2.31	0.65
54:CA:108:G:H1	50:CW:15:ARG:HH21	1.43	0.65
21:DV:16:SER:O	21:DV:20:ARG:HG3	1.97	0.65
5:AF:53:THR:HG23	5:AF:55:GLY:H	1.61	0.65
8:DK:69:LYS:HG3	8:DK:136:VAL:HB	1.78	0.65
31:BA:1190:G:OP1	33:BF:4:LYS:HA	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:186(A):C:H2'	54:CA:186(B):C:H6	1.62	0.65
31:BA:1293:G:O2'	31:BA:1294:G:H5'	1.97	0.65
15:AR:98:LYS:HE3	15:AR:98:LYS:HA	1.76	0.65
32:CE:35:GLU:O	32:CE:36:ARG:HD3	1.97	0.65
1:AA:1091:G:H2'	1:AA:1092:C:C6	2.32	0.65
1:AA:2820:A:C1'	13:A0:3:HIS:HB3	2.27	0.65
56:DI:11:GLU:HA	56:DI:14:GLN:CD	2.17	0.65
57:DY:101:PRO:O	57:DY:102:LYS:CB	2.43	0.65
57:DY:128:LEU:HD22	57:DY:129:PRO:HB3	1.77	0.65
21:AV:145:GLU:O	21:AV:146:ILE:CG1	2.44	0.65
55:DA:1075:C:C5'	21:DV:195:GLU:CD	2.65	0.65
1:AA:2348:U:H2'	1:AA:2349:G:C5'	2.27	0.65
55:DA:1278:A:O3'	13:D0:34:ILE:HG23	1.97	0.65
54:CA:399:G:H2'	54:CA:400:C:C6	2.32	0.65
20:DU:95:LYS:HE3	20:DU:95:LYS:O	1.96	0.65
17:A2:69:LYS:HG3	17:A2:86:GLY:HA3	1.78	0.65
7:DH:109:PHE:C	7:DH:111:HIS:H	1.99	0.65
33:BF:138:VAL:HG22	33:BF:151:VAL:HG23	1.78	0.65
52:CD:9:A:H62	52:CD:23:A:N6	1.90	0.65
17:D2:41:GLY:HA3	17:D2:46:VAL:HG11	1.79	0.65
1:AA:2657:A:C2	1:AA:2665:A:N7	2.64	0.65
55:DA:1478:G:O2'	55:DA:1479:G:H5'	1.96	0.65
55:DA:1791:A:N6	55:DA:1828:G:O2'	2.30	0.65
54:CA:959:A:H2	54:CA:1221:G:N3	1.95	0.65
31:BA:1296:C:H3'	31:BA:1297:C:C6	2.32	0.65
32:BE:92:TYR:CE2	32:BE:151:GLY:HA3	2.31	0.65
1:AA:177:G:H5''	1:AA:178:G:OP2	1.97	0.65
54:CA:890:G:O2'	54:CA:891:U:P	2.55	0.65
42:BO:117:ARG:HH21	42:BO:124:LYS:HA	1.62	0.65
31:BA:1541:U:O2	31:BA:1541:U:H2'	1.96	0.65
55:DA:2507:C:H5'	55:DA:2507:C:H6	1.62	0.65
9:DM:26:LEU:HG	9:DM:30:ILE:HD11	1.79	0.65
55:DA:1056:G:OP1	57:DY:35:LYS:CD	2.44	0.65
49:BV:41:VAL:H	49:BV:44:MET:CE	2.07	0.65
26:D4:67:TYR:O	26:D4:68:ARG:NH2	2.30	0.65
54:CA:518:C:H2'	54:CA:518:C:O2	1.97	0.65
46:CS:14:ASN:N	46:CS:15:PRO:HD3	2.12	0.65
20:DU:50:ARG:HB3	20:DU:53:PRO:CG	2.27	0.65
4:DE:7:VAL:CG2	4:DE:8:LYS:H	1.99	0.65
8:DK:110:ASP:HB2	8:DK:112:LYS:N	2.12	0.65
28:D6:17:LYS:HG3	28:D6:18:ARG:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:104:ILE:HG13	57:DY:105:PRO:CD	2.09	0.65
1:AA:1225:C:H5''	17:A2:85:LYS:HE2	1.77	0.65
4:AE:66:HIS:CE1	4:AE:73:GLU:HB2	2.28	0.65
7:AH:4:ILE:HB	7:AH:6:ARG:NH1	2.11	0.65
29:D7:9:ARG:HH21	29:D7:48:LYS:HB2	1.61	0.65
1:AA:1022:G:N2	1:AA:1142(A):A:C2	2.63	0.65
43:CP:88:ARG:CB	43:CP:88:ARG:HH11	2.01	0.65
21:AV:133:ILE:N	21:AV:133:ILE:HD12	2.11	0.65
20:AU:86:ARG:HB3	20:AU:88:LYS:NZ	2.12	0.65
3:AD:108:PRO:HD2	3:AD:111:LEU:HG	1.78	0.65
4:AE:200:GLU:CG	4:AE:201:THR:H	2.09	0.65
1:AA:1086:A:C4'	1:AA:1103:A:H61	2.09	0.65
31:BA:129(A):G:O2'	31:BA:189:U:H5''	1.96	0.65
55:DA:1652:A:H2'	55:DA:1653:G:O4'	1.97	0.65
55:DA:1047:G:H2'	55:DA:1110:G:C2	2.31	0.65
50:CW:56:MET:HG3	50:CW:88:VAL:HG21	1.77	0.65
29:A7:30:VAL:HA	29:A7:33:ARG:NH1	2.12	0.65
35:BH:20:GLN:NE2	35:BH:21:ALA:N	2.44	0.65
7:AH:97:ARG:HG2	7:AH:98:LEU:N	2.12	0.65
55:DA:2275:C:O2'	12:DP:83:MET:HG3	1.97	0.65
16:A1:66:ASN:HD21	16:A1:70:ARG:HE	1.45	0.65
15:DR:61:PHE:CE2	15:DR:76:PHE:HB2	2.32	0.65
4:DE:111:ARG:HG2	13:D0:1:MET:SD	2.36	0.65
2:AB:55:U:H1'	6:AG:29:TRP:HE1	1.61	0.65
5:DF:57:VAL:HG12	5:DF:59:TYR:H	1.61	0.65
1:AA:2150:U:H2'	1:AA:2151:G:H8	1.61	0.65
50:BW:12:ALA:H	50:BW:13:LEU:HD12	1.60	0.65
54:CA:243:A:H4'	54:CA:244:U:C5'	2.26	0.65
32:BE:132:LYS:HA	32:BE:135:GLN:HE21	1.61	0.65
19:AT:46:ALA:O	19:AT:48:LYS:HE2	1.97	0.65
35:BH:40:ARG:NH2	35:BH:66:MET:HG2	2.11	0.65
12:AP:140:ALA:O	12:AP:141:GLN:CB	2.45	0.65
46:CS:40:ASP:OD2	46:CS:42:ARG:HB2	1.97	0.65
4:AE:24:THR:HG21	4:AE:188:VAL:HG12	1.79	0.65
58:DL:58:THR:OG1	58:DL:66:THR:HG23	1.96	0.65
55:DA:1070:A:N1	58:DL:9:LYS:HE3	2.12	0.65
57:DY:93:LEU:HD11	57:DY:97:ALA:O	1.97	0.65
1:AA:946:G:HO2'	1:AA:947:G:H5'	1.54	0.65
21:DV:181:GLU:O	21:DV:181:GLU:CG	2.44	0.65
54:CA:126:G:H5'	54:CA:633:G:N2	2.11	0.65
3:DD:35:LYS:HD2	3:DD:104:TYR:CE1	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CM:54:PHE:CE2	40:CM:55:LYS:HD2	2.32	0.65
49:CV:87:ALA:O	49:CV:88:LYS:CD	2.40	0.65
34:BG:12:CYS:SG	34:BG:21:LEU:HD22	2.36	0.65
1:AA:2807:G:C3'	1:AA:2808:U:H5''	2.26	0.65
32:CE:163:PHE:HA	32:CE:185:ILE:HG13	1.78	0.65
32:CE:51:LEU:HD23	32:CE:201:ILE:HD12	1.79	0.65
37:BJ:18:TYR:HD2	37:BJ:59:LEU:HD22	1.61	0.65
24:DW:41:ILE:HD12	24:DW:41:ILE:O	1.97	0.65
20:AU:94:LYS:NZ	20:AU:101:LYS:HZ3	1.94	0.65
5:AF:192:LEU:HD21	5:AF:194:MET:HE3	1.79	0.65
3:AD:35:LYS:HD2	3:AD:104:TYR:CD1	2.31	0.65
29:D7:8:ASN:ND2	29:D7:8:ASN:C	2.46	0.65
55:DA:72:U:C4	55:DA:112:U:H4'	2.32	0.65
50:CW:86:ARG:HG3	50:CW:86:ARG:HH11	1.61	0.65
44:CQ:13:THR:N	44:CQ:14:PRO:CD	2.60	0.65
54:CA:1442:G:H1	54:CA:1461:G:H21	1.43	0.65
55:DA:583:G:OP2	16:D1:10:ARG:NH1	2.27	0.65
36:CI:46:ARG:HB3	36:CI:60:PHE:CE1	2.32	0.65
40:CM:39:PRO:HB3	40:CM:70:ARG:NH1	2.12	0.65
31:BA:690:G:H2'	31:BA:691:G:O4'	1.97	0.65
55:DA:2723:C:H4'	13:D0:1:MET:HG2	1.79	0.65
21:DV:51:ALA:HA	21:DV:55:HIS:CD2	2.31	0.65
47:BT:68:ARG:O	47:BT:69:LYS:HB2	1.97	0.65
54:CA:418:C:H2'	54:CA:419:C:C6	2.32	0.65
54:CA:1032:A:H3'	54:CA:1032(A):G:C5'	2.26	0.65
55:DA:1991:U:H2'	55:DA:1992:G:H5''	1.79	0.65
55:DA:2271:G:H5''	22:D3:20:ARG:NE	2.12	0.65
23:DZ:78:LYS:HD2	23:DZ:80:LEU:HD12	1.79	0.65
55:DA:1844:C:O2'	55:DA:1845:G:H5'	1.96	0.65
54:CA:765:G:H1	54:CA:812:C:H2'	1.59	0.65
45:BR:29:VAL:HG13	45:BR:63:ARG:HG3	1.78	0.65
55:DA:674:G:H1'	5:DF:74:ARG:HD3	1.78	0.65
55:DA:1918:A:O2'	55:DA:1919:A:N7	2.29	0.65
55:DA:2492:U:O2'	55:DA:2493:U:H5'	1.97	0.65
1:AA:2168:G:H2'	1:AA:2168:G:N3	2.11	0.65
19:AT:26:TYR:OH	19:AT:88:LYS:HB2	1.97	0.65
34:BG:165:MET:HE2	34:BG:168:ARG:HB2	1.78	0.65
3:AD:166:GLN:HE21	3:AD:166:GLN:CA	2.08	0.65
52:CD:64:A:C2	52:CD:65:G:H1'	2.31	0.65
15:AR:45:PHE:CE2	15:AR:74:ARG:HB2	2.32	0.65
58:DL:108:ALA:HA	58:DL:111:LYS:NZ	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:38:VAL:HG12	58:DL:42:ASN:OD1	1.97	0.65
58:DL:50:ASP:CG	58:DL:51:ALA:N	2.49	0.65
57:DY:1:MET:CE	57:DY:3:ASN:ND2	2.60	0.65
57:DY:51:LEU:CD1	57:DY:82:PHE:H	1.88	0.65
28:A6:10:LEU:HA	30:A8:34:TRP:CZ3	2.32	0.65
28:A6:14:THR:O	28:A6:49:HIS:HA	1.97	0.65
26:D4:68:ARG:NH1	26:D4:68:ARG:CB	2.60	0.65
42:CO:45:PRO:HB3	42:CO:92:ASP:HB3	1.77	0.65
31:BA:1288:A:H1'	31:BA:1352:C:O2'	1.96	0.65
54:CA:1305:G:O2'	54:CA:1306:A:H8	1.78	0.65
54:CA:1225:A:H2'	54:CA:1225:A:N3	2.10	0.65
54:CA:956:U:OP1	49:CV:87:ALA:HA	1.97	0.65
11:DO:61:ARG:HH12	30:D8:13:ARG:HG3	1.61	0.65
9:DM:35:ARG:HD3	9:DM:37:LYS:CD	2.27	0.65
1:AA:1140:C:C1'	1:AA:1143:A:N7	2.60	0.65
5:AF:37:VAL:HA	5:AF:40:GLN:HG3	1.79	0.65
11:AO:3:LEU:HA	11:AO:6:LEU:HD23	1.78	0.65
11:DO:105:LEU:H	11:DO:105:LEU:HD12	1.62	0.65
15:AR:132:LYS:CG	15:AR:136:GLN:HE22	2.08	0.65
12:DP:34:LEU:HD23	12:DP:104:PHE:HD1	1.62	0.65
8:AK:88:ILE:CG2	8:AK:89:TYR:H	2.02	0.65
6:DG:16:ARG:HB3	6:DG:17:PRO:CD	2.26	0.65
55:DA:33:U:H4'	55:DA:34:C:OP1	1.97	0.65
31:BA:545:C:H5''	34:BG:72:GLU:HG2	1.79	0.65
55:DA:1799:G:N2	55:DA:1818:U:O2'	2.30	0.65
38:CK:41:ARG:NH1	38:CK:41:ARG:HG3	2.08	0.65
52:BC:58:A:H1'	52:BC:60:U:H5	1.62	0.65
54:CA:1116:C:C2'	54:CA:1117:G:H5''	2.27	0.65
6:DG:135:LEU:HD23	6:DG:140:ILE:HD11	1.79	0.65
1:AA:270(G):C:H2'	1:AA:270(H):C:C6	2.31	0.65
55:DA:443:A:H1'	55:DA:1201:C:O4'	1.96	0.65
55:DA:1429:G:H2'	55:DA:1430:C:C6	2.32	0.65
42:BO:117:ARG:HH11	42:BO:117:ARG:HG2	1.61	0.65
55:DA:790:C:H4'	55:DA:791:C:OP1	1.97	0.65
31:BA:908:A:H2'	31:BA:909:A:C8	2.31	0.65
32:BE:78:GLN:CA	32:BE:94:ASN:HD21	2.10	0.65
38:BK:29:SER:HB3	38:BK:32:LYS:CG	2.27	0.65
5:AF:153:SER:HB2	5:AF:190:GLU:H	1.62	0.65
34:BG:170:VAL:HG13	34:BG:174:LEU:O	1.97	0.65
4:AE:171:GLU:HG2	4:AE:185:LYS:HG2	1.79	0.65
31:BA:388:G:O2'	31:BA:389:A:P	2.55	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:865:A:H5'	54:CA:1078:U:O4	1.97	0.65
33:CF:150:LYS:HG3	33:CF:169:ALA:HB2	1.79	0.65
55:DA:1747:G:O2'	55:DA:1748:G:H5'	1.97	0.65
36:BI:87:ARG:HG2	36:BI:87:ARG:HH11	1.62	0.65
17:D2:1:MET:HG3	17:D2:43:GLU:HG2	1.77	0.65
58:DL:52:ILE:CG1	58:DL:76:TYR:HB2	2.23	0.65
58:DL:78:ILE:O	58:DL:82:ALA:HB3	1.97	0.65
57:DY:73:GLY:O	57:DY:74:LEU:HB3	1.97	0.65
31:BA:1358:U:OP1	44:BQ:35:ARG:HG2	1.97	0.65
54:CA:630:G:HO2'	54:CA:631:G:P	2.17	0.65
3:DD:95:LEU:HD12	3:DD:95:LEU:O	1.97	0.65
31:BA:1326:C:OP2	51:BX:6:ARG:HD3	1.96	0.65
23:DZ:86:SER:N	23:DZ:87:PRO:CD	2.59	0.65
54:CA:788:U:H2'	54:CA:789:U:H5'	1.79	0.65
54:CA:792:A:O2'	54:CA:793:U:OP2	2.15	0.65
54:CA:1004:A:H5''	54:CA:1025:U:O4	1.97	0.65
9:DM:45:ASN:HD22	9:DM:45:ASN:N	1.93	0.65
52:BD:46:G:N2	52:BD:48:C:O2	2.29	0.65
26:D4:16:CYS:C	26:D4:18:CYS:N	2.49	0.65
6:DG:116:ASP:O	6:DG:117:PHE:HB3	1.96	0.65
8:DK:77:LEU:HD13	8:DK:78:THR:H	1.62	0.65
17:D2:35:LEU:O	17:D2:37:VAL:N	2.30	0.65
1:AA:1210:A:H4'	1:AA:1211:U:O5'	1.96	0.65
31:BA:1152:A:H2'	31:BA:1153:C:H6	1.62	0.65
32:BE:7:VAL:HG22	32:BE:8:LYS:H	1.61	0.65
1:AA:2258:C:H4'	1:AA:2259:G:OP2	1.94	0.65
8:DK:4:ILE:HG12	8:DK:18:VAL:CG2	2.25	0.65
38:CK:103:VAL:HG23	38:CK:110:ALA:HB2	1.78	0.65
42:BO:27:LEU:HD23	42:BO:27:LEU:N	2.12	0.65
37:BJ:94:ARG:O	37:BJ:97:GLN:HB3	1.97	0.65
55:DA:2317:C:H2'	55:DA:2318:G:C5'	2.26	0.65
7:AH:144:VAL:O	7:AH:148:ILE:HG12	1.96	0.65
54:CA:198:G:H2'	54:CA:199:G:C8	2.32	0.65
55:DA:1496:A:H8	55:DA:1577:C:O2'	1.80	0.65
23:DZ:23:LYS:HE3	23:DZ:29:GLY:N	2.11	0.65
54:CA:17:U:H2'	54:CA:18:C:H6	1.61	0.65
8:AK:56:LYS:HE3	8:AK:60:GLU:HG2	1.79	0.65
31:BA:1262:C:H2'	31:BA:1263:C:H6	1.62	0.65
23:DZ:82:LEU:H	23:DZ:82:LEU:HD22	1.62	0.65
55:DA:1655:A:H3'	55:DA:1656:C:C6	2.32	0.65
1:AA:2304:G:H21	6:AG:156:ASP:CG	1.99	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:998:G:O2'	54:CA:998(A):C:H5'	1.97	0.65
3:DD:206:LEU:HB3	3:DD:211:ARG:HB3	1.79	0.65
34:CG:109:GLY:HA3	34:CG:165:MET:SD	2.37	0.65
55:DA:1444(A):A:H4'	55:DA:1460:A:O2'	1.95	0.65
31:BA:1486:G:H2'	31:BA:1487:G:O4'	1.96	0.65
47:CT:40:LYS:HG2	47:CT:41:LYS:N	2.12	0.65
54:CA:784:C:H4'	55:DA:1837:C:OP1	1.96	0.65
14:AQ:42:ASP:O	14:AQ:43:GLU:HB2	1.97	0.65
41:CN:59:TYR:O	41:CN:62:GLN:HB3	1.97	0.65
1:AA:278:A:H2'	1:AA:279:C:C6	2.32	0.65
4:AE:8:LYS:CB	4:AE:192:ASN:HA	2.27	0.64
55:DA:1079:C:H1'	58:DL:129:GLY:O	1.96	0.64
55:DA:1083:U:O4'	57:DY:41:ARG:HD3	1.97	0.64
56:DJ:10:GLU:C	56:DJ:17:VAL:CG1	2.65	0.64
58:DL:102:GLU:CG	58:DL:103:GLN:N	2.60	0.64
58:DL:112:MET:H	58:DL:113:PRO:HD2	1.58	0.64
58:DL:78:ILE:HG12	58:DL:131:ALA:HB2	1.79	0.64
26:A4:61:ARG:HE	26:A4:61:ARG:HA	1.62	0.64
1:AA:197:A:N6	1:AA:2430:A:H2'	2.12	0.64
52:CB:19:G:O2'	52:CB:20:U:P	2.55	0.64
55:DA:897:C:C5	55:DA:897:C:OP2	2.49	0.64
54:CA:963:G:N2	40:CM:55:LYS:HD3	2.11	0.64
4:DE:35:GLN:CG	4:DE:37:ARG:HG2	2.27	0.64
8:DK:114:LEU:HD22	8:DK:130:TYR:CD1	2.31	0.64
1:AA:1225:C:H5"	17:A2:85:LYS:CE	2.27	0.64
1:AA:1050:A:H1'	1:AA:2751:G:N2	2.12	0.64
1:AA:1212:G:H2'	1:AA:1236:G:H22	1.61	0.64
7:AH:152:ARG:C	7:AH:154:PRO:HD3	2.17	0.64
1:AA:2425:A:H5'	1:AA:2427:C:O4'	1.98	0.64
6:DG:66:GLN:HA	26:D4:6:HIS:CE1	2.32	0.64
54:CA:690:G:N2	41:CN:55:LYS:NZ	2.40	0.64
8:DK:57:ARG:NH1	8:DK:57:ARG:HB2	2.12	0.64
11:AO:146:VAL:HG13	11:AO:147:LEU:HD13	1.80	0.64
55:DA:1165:U:H2'	55:DA:1166:C:H6	1.58	0.64
26:D4:49:PHE:O	26:D4:50:VAL:HB	1.97	0.64
31:BA:532:A:O2'	31:BA:533:A:OP1	2.13	0.64
55:DA:811:U:O2'	55:DA:1250:G:H2'	1.97	0.64
31:BA:197:A:N1	31:BA:221:C:H4'	2.11	0.64
31:BA:366:C:O2'	31:BA:367:U:O5'	2.14	0.64
48:CU:53:ARG:HG2	48:CU:58:LEU:O	1.96	0.64
5:DF:34:TRP:CE2	11:DO:8:PRO:HG3	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2562:U:H4'	10:DN:25:LEU:HD21	1.79	0.64
49:CV:7:LYS:HB3	49:CV:7:LYS:HZ3	1.61	0.64
39:CL:5:TYR:CD2	39:CL:6:GLY:N	2.65	0.64
33:CF:77:ILE:C	33:CF:83:ARG:HB3	2.17	0.64
38:CK:116:LYS:HE2	38:CK:116:LYS:N	2.11	0.64
54:CA:651:C:H2'	54:CA:652:U:C6	2.32	0.64
31:BA:448:A:C2	31:BA:449:C:N3	2.64	0.64
5:DF:185:ASP:HA	5:DF:188:ARG:HD3	1.78	0.64
55:DA:443:A:N7	5:DF:45:ARG:HD2	2.13	0.64
1:AA:757:U:H2'	1:AA:758:C:H6	1.62	0.64
16:A1:8:VAL:HG12	16:A1:11:ARG:NH2	2.13	0.64
1:AA:1215:G:O2'	1:AA:1216:G:H5'	1.97	0.64
19:AT:64:LYS:HD3	19:AT:73:ARG:NE	2.12	0.64
1:AA:874:G:H2'	1:AA:875:G:H8	1.63	0.64
32:BE:179:LYS:NZ	32:BE:179:LYS:HB2	2.13	0.64
4:DE:176:ILE:HD12	4:DE:176:ILE:N	2.12	0.64
57:DY:51:LEU:CG	57:DY:82:PHE:C	2.65	0.64
21:AV:148:ASP:O	21:AV:149:SER:HB3	1.97	0.64
21:DV:191:VAL:HG21	21:DV:197:ILE:CG1	2.26	0.64
28:A6:17:LYS:HA	28:A6:17:LYS:HE3	1.79	0.64
26:D4:69:LYS:HD3	26:D4:70:GLY:CA	2.27	0.64
28:D6:33:LYS:O	28:D6:35:GLU:N	2.27	0.64
1:AA:1967:C:C2'	1:AA:1968:G:H5'	2.27	0.64
31:BA:1132:C:H2'	31:BA:1133:G:H8	1.61	0.64
39:BL:4:TYR:HA	39:BL:88:TYR:CE1	2.32	0.64
1:AA:1110:G:H4'	7:AH:3:ARG:HH22	1.61	0.64
32:CE:12:GLU:C	32:CE:14:GLY:H	2.00	0.64
21:AV:125:LEU:HG	21:AV:164:ALA:HB1	1.77	0.64
21:AV:67:LEU:CD2	21:AV:90:VAL:HG13	2.28	0.64
21:AV:95:PRO:O	21:AV:96:VAL:CB	2.45	0.64
3:AD:34:VAL:O	3:AD:34:VAL:HG13	1.95	0.64
1:AA:1266:G:O6	18:AS:13:SER:OG	2.06	0.64
1:AA:654(K):C:H2'	1:AA:654(L):G:C8	2.33	0.64
5:DF:123:LEU:HD12	5:DF:192:LEU:O	1.97	0.64
5:DF:20:LEU:HD12	5:DF:21:ALA:N	2.12	0.64
11:AO:14:LYS:O	11:AO:15:ARG:C	2.35	0.64
31:BA:676:A:H2'	31:BA:677:U:H6	1.62	0.64
22:A3:49:LYS:HB2	22:A3:80:HIS:HB3	1.79	0.64
25:AX:8:LEU:HB2	25:AX:28:LEU:HD13	1.79	0.64
11:DO:9:ASN:HB2	11:DO:10:PRO:HD2	1.77	0.64
55:DA:2897:U:O2'	55:DA:2898:U:H5'	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:52:A:N6	14:DQ:33:LYS:HG3	2.13	0.64
55:DA:2724:C:OP1	13:D0:1:MET:HE3	1.98	0.64
4:DE:116:VAL:HG22	4:DE:122:PHE:CG	2.32	0.64
1:AA:2335:A:O2'	1:AA:2336:A:H3'	1.97	0.64
54:CA:658:G:H2'	54:CA:659:U:C6	2.31	0.64
31:BA:1498:U:O2'	31:BA:1499:A:OP2	2.12	0.64
33:CF:113:ALA:HB3	33:CF:114:PRO:HD3	1.78	0.64
31:BA:1000:A:H2'	31:BA:1001:G:H5'	1.79	0.64
31:BA:466:C:H5''	31:BA:467:G:OP2	1.97	0.64
20:AU:4:LYS:HE2	20:AU:4:LYS:HA	1.77	0.64
58:DL:86:LYS:CE	58:DL:86:LYS:CA	2.67	0.64
49:BV:40:ILE:HG22	49:BV:67:VAL:O	1.98	0.64
54:CA:1305:G:O2'	54:CA:1306:A:C8	2.50	0.64
46:CS:74:LEU:O	46:CS:79:VAL:HG23	1.96	0.64
28:D6:41:PRO:HD2	28:D6:46:HIS:CA	2.27	0.64
1:AA:33:U:C4'	1:AA:34:C:OP1	2.43	0.64
52:BB:74:C:O2'	52:BB:75:C:P	2.56	0.64
9:DM:42:TRP:O	16:D1:64:ARG:NH2	2.30	0.64
6:DG:109:VAL:CG1	26:D4:33:VAL:HG21	2.26	0.64
21:AV:129:SER:O	21:AV:133:ILE:HD11	1.98	0.64
32:BE:213:LEU:O	32:BE:216:SER:HB3	1.98	0.64
55:DA:307:G:N2	55:DA:310:A:OP2	2.29	0.64
1:AA:662:G:OP1	11:AO:15:ARG:NE	2.31	0.64
33:CF:15:THR:CG2	33:CF:181:ASN:HA	2.27	0.64
25:DX:31:LEU:O	25:DX:32:GLN:HB2	1.95	0.64
54:CA:1152:A:H2'	54:CA:1153:C:C6	2.32	0.64
54:CA:1151:A:N3	40:CM:39:PRO:HG3	2.12	0.64
13:A0:63:ARG:HB2	13:A0:63:ARG:NH1	2.11	0.64
24:AW:17:SER:HA	24:AW:20:GLU:HG3	1.80	0.64
7:DH:30:LYS:HE3	7:DH:81:GLU:HG3	1.79	0.64
46:CS:76:GLN:O	46:CS:76:GLN:HG2	1.96	0.64
39:CL:59:PHE:CZ	39:CL:88:TYR:HE1	2.14	0.64
48:BU:31:LEU:H	48:BU:31:LEU:CD2	2.10	0.64
54:CA:653:A:H1'	38:CK:56:LYS:HD3	1.79	0.64
1:AA:270(F):U:H2'	1:AA:270(G):C:C6	2.32	0.64
55:DA:1880:C:H6	55:DA:1880:C:H5'	1.62	0.64
1:AA:407:G:H2'	1:AA:408:G:C8	2.33	0.64
48:CU:70:ILE:O	48:CU:74:ARG:HG3	1.97	0.64
53:B1:41:U:H5'	53:B1:42:U:OP1	1.97	0.64
22:D3:56:ASP:O	22:D3:57:PHE:HB2	1.98	0.64
51:CX:12:LYS:HB3	51:CX:22:ARG:HD2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2685:G:H1'	1:AA:2726:U:H5	1.62	0.64
19:DT:41:ASN:O	19:DT:45:THR:HG23	1.98	0.64
31:BA:1228:C:OP1	43:BP:115:LYS:HD2	1.96	0.64
33:CF:64:VAL:HG12	33:CF:66:VAL:HG23	1.79	0.64
31:BA:566:G:H4'	31:BA:567:G:OP1	1.97	0.64
54:CA:27:G:H4'	34:CG:209:ARG:HG3	1.79	0.64
55:DA:2011:U:OP1	18:DS:42:ARG:NH1	2.29	0.64
24:AW:30:ARG:HH11	24:AW:30:ARG:HG3	1.61	0.64
1:AA:1694:C:H1'	1:AA:1695:G:C2	2.32	0.64
55:DA:2238:G:H5''	55:DA:2239:G:OP1	1.98	0.64
56:DI:29:GLU:CG	56:DJ:6:GLU:OE1	2.40	0.64
58:DL:11:GLN:CG	58:DL:12:LEU:N	2.57	0.64
1:AA:897:C:OP2	1:AA:897:C:C6	2.50	0.64
21:AV:148:ASP:OD1	21:AV:174:VAL:N	2.30	0.64
49:BV:40:ILE:HD11	49:BV:62:ILE:HD13	1.79	0.64
28:A6:11:LEU:O	28:A6:24:GLU:O	2.15	0.64
32:CE:7:VAL:HG11	32:CE:217:ARG:NH2	2.13	0.64
15:AR:27:THR:HG23	15:AR:90:GLN:HB3	1.79	0.64
1:AA:242:G:O2'	1:AA:243:U:P	2.55	0.64
16:A1:100:VAL:O	16:A1:101:ARG:HG2	1.97	0.64
52:BB:74:C:O2'	52:BB:75:C:OP2	2.16	0.64
4:AE:58:ARG:NE	4:AE:58:ARG:HA	2.09	0.64
9:DM:58:ASP:N	9:DM:60:ILE:CD1	2.60	0.64
31:BA:243:A:H4'	31:BA:244:U:O5'	1.97	0.64
46:CS:45:THR:HG23	46:CS:46:PRO:HD2	1.79	0.64
31:BA:1226:C:C4'	31:BA:1227:A:OP1	2.40	0.64
7:AH:92:ILE:HD12	7:AH:92:ILE:N	2.11	0.64
32:BE:7:VAL:HG13	32:BE:8:LYS:H	1.63	0.64
6:DG:44:GLY:HA2	6:DG:88:ILE:HG12	1.79	0.64
55:DA:654(R):C:O5'	55:DA:654(R):C:H6	1.78	0.64
54:CA:686:U:H2'	54:CA:687:A:H8	1.59	0.64
9:AM:55:VAL:HG23	9:AM:56:ASN:OD1	1.97	0.64
26:A4:52:THR:HG21	43:BP:65:LYS:CD	2.27	0.64
1:AA:299:A:N1	1:AA:322:A:O2'	2.20	0.64
7:AH:125:VAL:HG22	7:AH:126:PRO:CA	2.27	0.64
36:CI:37:VAL:HG12	36:CI:38:GLU:N	2.12	0.64
54:CA:297:G:N2	54:CA:299:G:H3'	2.13	0.64
9:AM:45:ASN:HD22	9:AM:45:ASN:N	1.95	0.64
39:CL:77:ILE:O	39:CL:81:ILE:HG12	1.98	0.64
54:CA:1285:A:O2'	54:CA:1286:A:OP2	2.14	0.64
55:DA:372:G:C2'	55:DA:373:U:OP2	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:D0:44:LEU:HD22	13:D0:48:VAL:HG23	1.79	0.64
54:CA:812:C:O2'	54:CA:813:U:P	2.56	0.64
55:DA:2277:G:H5''	12:DP:85:LYS:HB2	1.80	0.64
2:AB:0:A:H2'	2:AB:1:U:C6	2.32	0.64
31:BA:667:G:H4'	45:BR:51:HIS:CE1	2.32	0.64
27:D5:16:ARG:NH1	27:D5:17:ASP:OD1	2.30	0.64
1:AA:1180:C:H6	1:AA:1180:C:H5'	1.62	0.64
4:AE:95:ILE:HD12	4:AE:95:ILE:N	2.12	0.64
57:DY:132:ASP:OD2	56:DJ:10:GLU:CD	2.35	0.64
57:DY:56:ASN:O	57:DY:60:ARG:HB2	1.98	0.64
57:DY:6:ASN:C	57:DY:7:VAL:HG12	2.17	0.64
21:DV:186:GLU:O	21:DV:187:ALA:CB	2.45	0.64
28:A6:22:ALA:HB3	28:A6:42:TRP:CH2	2.32	0.64
1:AA:1359:A:OP2	1:AA:1359:A:N7	2.30	0.64
1:AA:959:A:N6	12:AP:82:ARG:NH2	2.43	0.64
3:DD:122:ASP:CG	3:DD:123:ALA:H	1.98	0.64
15:AR:86:ILE:HG12	15:AR:86:ILE:O	1.98	0.64
40:BM:74:ILE:HD13	40:BM:74:ILE:H	1.62	0.64
49:CV:85:LYS:CG	49:CV:86:GLU:N	2.57	0.64
34:BG:7:PRO:HB2	34:BG:10:ARG:HD2	1.78	0.64
1:AA:2807:G:H2'	1:AA:2808:U:H5''	1.79	0.64
54:CA:1129:C:H5'	54:CA:1130:A:OP1	1.97	0.64
11:DO:125:VAL:HG13	11:DO:125:VAL:O	1.98	0.64
31:BA:1347:G:OP2	39:BL:107:ARG:HG2	1.98	0.64
21:AV:92:SER:O	21:AV:130:PRO:HG2	1.97	0.64
54:CA:1108:G:H5'	33:CF:176:HIS:CD2	2.31	0.64
1:AA:1281:G:C8	1:AA:1281:G:H5'	2.25	0.64
42:BO:60:LEU:HD22	42:BO:60:LEU:N	2.13	0.64
25:DX:7:LYS:NZ	25:DX:32:GLN:HG3	2.13	0.64
54:CA:1151:A:H1'	40:CM:39:PRO:HB2	1.78	0.64
54:CA:737:A:H2'	54:CA:738:C:C6	2.33	0.64
1:AA:1829:A:H3'	1:AA:1830:C:C6	2.31	0.64
38:CK:60:ARG:HG3	38:CK:60:ARG:NH1	2.13	0.64
18:DS:29:LEU:HD21	18:DS:33:ARG:NH2	2.12	0.64
34:BG:189:PRO:HB2	34:BG:194:LEU:CD2	2.27	0.64
31:BA:1020:U:H2'	31:BA:1021:G:H5''	1.79	0.64
18:AS:18:ARG:HG3	18:AS:76:VAL:HG12	1.80	0.64
39:BL:113:LYS:N	39:BL:113:LYS:HD2	2.11	0.64
3:DD:237:GLU:OE2	3:DD:237:GLU:N	2.30	0.64
12:DP:26:TYR:O	12:DP:27:VAL:HB	1.98	0.64
8:AK:58:LEU:O	8:AK:62:LYS:HB3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2336:A:H61	22:D3:43:THR:HG21	1.63	0.64
3:AD:186:HIS:CD2	3:AD:188:GLU:H	2.15	0.64
52:CC:28:G:C2'	52:CC:29:G:H5'	2.27	0.64
32:BE:142:LEU:O	32:BE:142:LEU:HD23	1.97	0.64
56:DI:20:LEU:HA	56:DI:24:ILE:HG21	1.79	0.64
58:DL:93:ARG:NH1	58:DL:135:GLY:CA	2.58	0.64
57:DY:74:LEU:HB3	57:DY:120:LYS:HE2	1.78	0.64
57:DY:131:MET:O	57:DY:132:ASP:C	2.36	0.64
57:DY:59:ILE:HG13	57:DY:60:ARG:N	2.12	0.64
1:AA:881:G:H5'	1:AA:882:G:OP2	1.97	0.64
49:BV:23:ASN:HB2	49:BV:43:GLU:CD	2.17	0.64
11:AO:64:LYS:C	11:AO:66:GLY:N	2.48	0.64
3:DD:35:LYS:CD	3:DD:104:TYR:HD1	2.10	0.64
6:AG:37:VAL:O	6:AG:94:LEU:HD23	1.98	0.64
4:DE:65:GLY:HA2	4:DE:70:ALA:CB	2.27	0.64
1:AA:2702:U:H2'	1:AA:2702:U:O2	1.96	0.64
1:AA:2748:A:N7	1:AA:2757:A:C6	2.65	0.64
55:DA:1340:U:O2'	55:DA:1602:U:H2'	1.98	0.64
21:AV:6:LYS:HB3	21:AV:8:TYR:CE2	2.32	0.64
31:BA:1442:G:N7	31:BA:1446:A:N1	2.46	0.64
1:AA:654(R):C:H6	1:AA:654(R):C:O5'	1.81	0.64
24:DW:50:ILE:CD1	24:DW:51:ARG:N	2.59	0.64
54:CA:1346:A:H5''	39:CL:120:ARG:HH12	1.62	0.64
23:AZ:51:VAL:HG11	23:AZ:74:VAL:CG2	2.25	0.64
31:BA:1203:C:O2'	31:BA:1204:A:H5'	1.97	0.64
29:D7:5:TRP:HE1	29:D7:7:PRO:HG3	1.61	0.64
32:CE:61:LEU:HG	32:CE:68:ILE:HD11	1.78	0.64
1:AA:2468:G:O2'	1:AA:2469:A:H5''	1.97	0.64
55:DA:1348:G:H2'	55:DA:1349:A:C5'	2.26	0.64
55:DA:2656:U:C5	55:DA:2657:A:N7	2.66	0.64
55:DA:2127:G:C3'	55:DA:2128:C:H5''	2.27	0.64
55:DA:805:G:H4'	55:DA:806:C:OP2	1.97	0.64
41:CN:108:ILE:H	48:CU:87:ARG:HE	1.44	0.64
4:AE:117:MET:HG2	4:AE:117:MET:O	1.97	0.64
32:BE:97:TRP:HZ2	32:BE:102:LEU:HD13	1.60	0.64
1:AA:5:A:H2'	1:AA:6:A:O4'	1.97	0.64
54:CA:1032:A:H3'	54:CA:1032(A):G:H4'	1.80	0.64
54:CA:918:A:H2'	54:CA:919:A:C8	2.32	0.64
1:AA:278:A:H4'	1:AA:279:C:OP1	1.97	0.64
54:CA:179:A:O2'	54:CA:180:U:H5'	1.96	0.64
20:AU:5:MET:HE1	20:AU:32:PRO:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:115:LEU:HD11	58:DL:117:THR:HG1	1.63	0.64
58:DL:19:PRO:C	58:DL:25:PRO:CG	2.65	0.64
58:DL:72:PRO:N	58:DL:73:PRO:HD3	2.13	0.64
57:DY:29:TYR:HD2	57:DY:30:GLN:H	1.45	0.64
57:DY:65:GLU:C	57:DY:66:LEU:HG	2.18	0.64
1:AA:1379:A:O4'	1:AA:1379:A:P	2.56	0.64
4:AE:55:ASN:HD21	4:AE:75:VAL:HA	1.63	0.64
39:BL:4:TYR:O	39:BL:18:PHE:HA	1.98	0.64
32:CE:215:LEU:O	32:CE:218:ALA:HB3	1.97	0.64
1:AA:2602:A:H4'	1:AA:2603:G:C5'	2.27	0.64
21:DV:61:LEU:CD1	21:DV:65:GLN:CB	2.66	0.64
17:D2:44:LYS:O	17:D2:46:VAL:N	2.30	0.64
31:BA:1348:U:H2'	31:BA:1349:A:H8	1.61	0.64
39:BL:11:LYS:H	39:BL:104:ARG:NH2	1.95	0.64
31:BA:827:U:N3	31:BA:872:A:N6	2.43	0.64
55:DA:2469:A:H61	55:DA:2481:G:H1'	1.62	0.64
1:AA:654(H):G:O5'	1:AA:654(H):G:H8	1.81	0.64
6:DG:55:LYS:HZ1	6:DG:148:MET:HG3	1.62	0.64
55:DA:1929:G:C4'	55:DA:1930:G:OP1	2.46	0.64
32:CE:69:LEU:HD13	32:CE:91:PRO:HB2	1.78	0.64
17:D2:76:LYS:O	17:D2:79:VAL:HG12	1.97	0.64
55:DA:270(L):U:H3	8:DK:50:ARG:CZ	2.11	0.64
35:CH:7:GLU:HG2	35:CH:112:LEU:HD22	1.80	0.64
54:CA:163:C:O2'	54:CA:164:U:H5'	1.96	0.64
1:AA:118:A:N3	1:AA:178:G:H1'	2.13	0.64
2:AB:15:A:H3'	2:AB:16:G:C5'	2.28	0.64
7:AH:89:ILE:H	7:AH:89:ILE:HD13	1.62	0.64
4:DE:120:TRP:CE3	4:DE:155:LYS:HD3	2.33	0.64
55:DA:1011:G:O2'	55:DA:1013:C:H5'	1.97	0.64
19:DT:41:ASN:N	19:DT:41:ASN:HD22	1.95	0.64
31:BA:598:U:H2'	31:BA:599:C:H6	1.62	0.64
41:BN:13:GLN:HB2	41:BN:76:GLY:HA3	1.80	0.64
57:DY:139:VAL:CG2	56:DJ:6:GLU:OE2	2.46	0.64
21:AV:175:VAL:CA	21:AV:177:PRO:HD2	2.24	0.64
21:AV:184:ALA:C	21:AV:186:GLU:H	1.99	0.64
26:D4:70:GLY:O	26:D4:71:ARG:CB	2.44	0.64
11:AO:71:VAL:HG13	11:AO:72:PRO:CD	2.27	0.64
22:A3:32:ARG:N	22:A3:35:ASN:HD21	1.90	0.64
49:CV:63:THR:O	49:CV:66:MET:HG3	1.98	0.64
30:D8:51:ALA:HA	30:D8:54:GLU:HG3	1.79	0.64
1:AA:66:C:H5'	1:AA:456:C:O2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:55:PHE:HE1	32:CE:218:ALA:HA	1.62	0.64
52:CD:8:U:H2'	52:CD:13:C:N4	2.00	0.64
17:D2:46:VAL:HG13	17:D2:46:VAL:O	1.97	0.64
1:AA:1025:G:N3	1:AA:1025:G:H2'	2.13	0.64
21:AV:94:GLU:O	21:AV:129:SER:HA	1.97	0.64
35:CH:40:ARG:HH11	35:CH:40:ARG:CB	2.07	0.64
32:BE:221:LEU:HD12	32:BE:221:LEU:C	2.18	0.64
32:BE:5:ILE:HD11	32:BE:221:LEU:HD22	1.80	0.64
35:BH:78:HIS:ND1	38:BK:107:LEU:HD12	2.11	0.64
36:CI:62:TRP:CH2	36:CI:64:GLN:HB2	2.32	0.64
54:CA:542:G:OP1	34:CG:10:ARG:NH2	2.31	0.64
48:BU:72:ARG:O	48:BU:76:LEU:HD12	1.97	0.64
3:DD:70:TRP:HZ3	3:DD:146:GLU:OE2	1.79	0.64
8:AK:27:ARG:HD2	23:AZ:71:TYR:CE1	2.33	0.64
54:CA:950:U:OP2	43:CP:102:ARG:HD2	1.96	0.64
58:DL:146:ASP:OD1	58:DL:146:ASP:N	2.30	0.64
54:CA:1371:G:O3'	39:CL:69:GLY:HA3	1.97	0.64
15:DR:129:ARG:O	15:DR:132:LYS:HB3	1.97	0.64
54:CA:1412:C:H2'	54:CA:1413:A:C8	2.33	0.64
56:DJ:5:ILE:O	56:DJ:9:LYS:HB2	1.98	0.64
58:DL:50:ASP:N	58:DL:53:VAL:CG2	2.57	0.64
58:DL:7:VAL:HG12	58:DL:57:ILE:HD12	0.65	0.64
57:DY:134:LEU:O	57:DY:137:GLU:CG	2.46	0.64
57:DY:22:GLY:O	57:DY:23:SER:CB	2.45	0.64
57:DY:23:SER:OG	57:DY:114:GLY:CA	2.34	0.64
21:AV:142:SER:O	21:AV:144:LEU:N	2.30	0.64
43:CP:123:ALA:HB1	43:CP:124:PRO:CD	2.27	0.64
43:CP:125:ARG:O	43:CP:126:LYS:O	2.16	0.64
1:AA:2393:A:H5'	30:A8:30:ARG:HD3	1.80	0.64
12:AP:43:THR:HA	12:AP:94:VAL:HG12	1.78	0.64
21:DV:183:LEU:O	21:DV:184:ALA:CB	2.45	0.64
54:CA:69:G:N1	54:CA:73:G:N7	2.46	0.64
3:DD:25:THR:HG23	3:DD:27:THR:HB	1.79	0.64
30:A8:23:VAL:CG1	30:A8:47:LYS:HD3	2.28	0.64
30:A8:6:THR:HA	30:A8:61:LEU:HD11	1.79	0.64
20:DU:49:VAL:O	20:DU:51:VAL:N	2.31	0.64
14:DQ:106:ARG:HA	14:DQ:110:LEU:CD1	2.26	0.64
17:A2:5:VAL:HA	17:A2:37:VAL:HB	1.80	0.64
20:DU:78:ALA:HB3	20:DU:81:LYS:HE3	1.79	0.64
6:AG:82:LEU:HD23	6:AG:86:MET:SD	2.37	0.64
31:BA:1130:A:N6	31:BA:1144:G:N2	2.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DH:86:GLU:HG3	7:DH:165:ALA:CB	2.27	0.64
1:AA:1045:A:C3'	1:AA:1046:A:H5''	2.28	0.64
52:BD:20:U:H2'	52:BD:21:A:C5'	2.27	0.64
21:AV:21:ALA:O	21:AV:23:LYS:HG2	1.97	0.64
21:AV:60:GLU:HA	21:AV:66:SER:HA	1.79	0.64
15:DR:109:GLU:OE1	15:DR:112:ARG:HD3	1.98	0.64
24:DW:50:ILE:HD12	24:DW:51:ARG:N	2.09	0.64
24:AW:51:ARG:HH21	24:AW:55:ARG:HH12	1.46	0.64
31:BA:1176:A:C2'	31:BA:1177:G:H5'	2.28	0.64
1:AA:1085:A:H2'	1:AA:1086:A:C8	2.32	0.64
49:BV:31:ILE:HG23	49:BV:49:ILE:HG23	1.79	0.64
31:BA:711:G:O2'	31:BA:712:A:H5'	1.98	0.64
34:BG:150:GLU:H	34:BG:150:GLU:CD	2.00	0.64
1:AA:1496:A:C8	1:AA:1577:C:O2'	2.46	0.64
54:CA:199:G:O2'	54:CA:200:G:H5'	1.96	0.64
10:DN:104:ARG:HH21	15:DR:43:GLN:NE2	1.96	0.64
24:AW:13:ALA:O	24:AW:16:LEU:HG	1.97	0.64
1:AA:2298:A:N6	1:AA:2318:G:H8	1.95	0.64
1:AA:2154:G:H2'	1:AA:2155:G:C8	2.32	0.64
55:DA:2182:G:H2'	55:DA:2183:C:C6	2.33	0.64
48:CU:50:ILE:N	48:CU:50:ILE:HD12	2.13	0.64
32:BE:194:PRO:O	32:BE:196:LEU:N	2.30	0.64
52:CB:44:G:H2'	52:CB:45:U:C6	2.33	0.64
55:DA:2845:G:O2'	55:DA:2846:G:H5'	1.96	0.64
58:DL:69:THR:C	58:DL:70:LYS:HG3	2.18	0.64
57:DY:35:LYS:HE3	57:DY:35:LYS:O	1.98	0.64
57:DY:38:HIS:O	57:DY:96:PHE:CZ	2.51	0.64
11:AO:64:LYS:NZ	30:A8:30:ARG:HA	2.12	0.64
12:AP:12:GLN:HE21	12:AP:73:PRO:HD2	1.61	0.64
3:AD:236:GLY:O	3:AD:237:GLU:CB	2.39	0.64
52:BB:75:C:H6	52:BB:75:C:H3'	1.63	0.64
21:DV:6:LYS:O	21:DV:7:ALA:CB	2.45	0.64
24:DW:15:LYS:O	24:DW:16:LEU:HB3	1.98	0.64
55:DA:1608:A:H4'	55:DA:1609:A:OP1	1.97	0.64
11:AO:9:ASN:HB2	11:AO:10:PRO:HD2	1.78	0.64
30:D8:6:THR:O	30:D8:7:HIS:CB	2.46	0.64
1:AA:1821:A:H2'	1:AA:1822:G:H5'	1.80	0.64
31:BA:1067:A:H4'	31:BA:1068:G:O5'	1.98	0.64
48:CU:56:THR:HB	48:CU:58:LEU:CD1	2.28	0.64
1:AA:999:U:H2'	1:AA:1000:A:C5'	2.27	0.64
4:DE:137:HIS:HB3	4:DE:138:PRO:HD2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.32	0.64
25:AX:44:ARG:O	25:AX:48:GLU:HG3	1.96	0.64
55:DA:958:U:OP2	12:DP:14:ARG:NH1	2.31	0.64
57:DY:122:VAL:CA	57:DY:126:ALA:CB	2.75	0.63
21:AV:178:GLU:O	21:AV:180:VAL:N	2.30	0.63
55:DA:1899:G:N2	55:DA:1902:C:C4	2.63	0.63
27:D5:56:LYS:N	27:D5:56:LYS:HD2	2.11	0.63
54:CA:1227:A:C2	49:CV:84:GLY:HA3	2.33	0.63
21:DV:60:GLU:HG3	21:DV:61:LEU:N	2.13	0.63
31:BA:1116:C:C3'	31:BA:1117:G:H5''	2.29	0.63
8:AK:109:ILE:H	8:AK:109:ILE:CD1	2.04	0.63
27:D5:40:LYS:HG2	27:D5:47:PRO:HD2	1.81	0.63
55:DA:654(C):G:H3'	55:DA:654(D):G:C8	2.31	0.63
3:AD:25:THR:CG2	3:AD:82:ILE:H	2.11	0.63
55:DA:2419:U:C5'	28:D6:23:THR:HG21	2.28	0.63
1:AA:654(I):C:O2'	1:AA:654(J):A:C5'	2.46	0.63
55:DA:2448:A:C4'	55:DA:2449:U:OP2	2.42	0.63
54:CA:687:A:O2'	54:CA:688:G:O4'	2.14	0.63
40:BM:47:PHE:HE1	40:BM:63:PHE:HB2	1.63	0.63
25:DX:6:VAL:HB	25:DX:54:VAL:HG21	1.80	0.63
7:AH:16:SER:HB3	7:AH:26:VAL:O	1.97	0.63
32:BE:56:ARG:CB	32:BE:56:ARG:HH11	2.08	0.63
55:DA:2115:G:H2'	55:DA:2116:G:N7	2.13	0.63
54:CA:641:U:C4'	54:CA:642:A:OP1	2.46	0.63
15:DR:85:LYS:HE2	15:DR:87:ASP:OD2	1.97	0.63
10:DN:2:ILE:HD11	10:DN:82:ASN:ND2	2.11	0.63
55:DA:2716:U:O2'	55:DA:2717:G:H5'	1.98	0.63
1:AA:1431:U:H2'	1:AA:1432:C:H6	1.63	0.63
8:AK:10:GLU:CD	8:AK:11:ASN:HB2	2.18	0.63
55:DA:2472:G:H22	55:DA:2477:C:H5''	1.62	0.63
37:BJ:60:LYS:O	37:BJ:63:LYS:HB3	1.98	0.63
38:BK:7:ALA:HB2	38:BK:85:ARG:CD	2.28	0.63
24:AW:4:SER:OG	24:AW:5:GLU:OE2	2.12	0.63
55:DA:760:G:H2'	55:DA:761:A:O4'	1.98	0.63
1:AA:1813:G:H1'	3:AD:50:THR:OG1	1.98	0.63
55:DA:2610:C:H4'	55:DA:2611:U:OP2	1.98	0.63
56:DI:10:GLU:O	56:DI:14:GLN:CB	2.46	0.63
57:DY:44:LEU:O	58:DL:119:ASP:HB3	1.98	0.63
58:DL:41:PHE:CG	58:DL:42:ASN:N	2.65	0.63
31:BA:1363:A:H4'	31:BA:1364:U:H5''	1.80	0.63
54:CA:530:G:O2'	54:CA:531:U:P	2.56	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1301:A:O2'	55:DA:1302:A:C3'	2.30	0.63
51:BX:9:ARG:O	51:BX:13:ILE:HG13	1.98	0.63
54:CA:792:A:O2'	54:CA:793:U:P	2.57	0.63
54:CA:1006:C:H2'	54:CA:1007:C:H6	1.64	0.63
54:CA:1007:C:H2'	54:CA:1008:C:C5'	2.15	0.63
55:DA:654(M):C:C3'	55:DA:654(N):G:N7	2.52	0.63
11:DO:127:ALA:C	11:DO:147:LEU:HD23	2.18	0.63
7:DH:4:ILE:HD13	7:DH:4:ILE:N	2.12	0.63
1:AA:310:A:OP1	20:AU:17:SER:O	2.17	0.63
1:AA:654(B):C:H2'	1:AA:654(C):G:C1'	2.28	0.63
3:AD:28:GLU:HB2	3:AD:29:PRO:HD3	1.79	0.63
55:DA:2712:U:H2'	55:DA:2712(A):A:O5'	1.96	0.63
55:DA:242:G:O2'	55:DA:243:U:OP2	2.15	0.63
54:CA:1432:G:OP1	15:DR:107:ASP:HB2	1.99	0.63
24:AW:15:LYS:HD3	24:AW:67:LYS:HZ1	1.63	0.63
15:DR:23:ARG:HB2	15:DR:24:PRO:HD2	1.78	0.63
35:BH:144:THR:O	35:BH:148:VAL:HG23	1.98	0.63
52:BB:9:A:H2	52:BB:11:C:N4	1.96	0.63
12:DP:1:MET:HG2	12:DP:1:MET:O	1.96	0.63
38:CK:12:ARG:HH11	38:CK:26:VAL:HA	1.63	0.63
1:AA:1156:A:H5''	1:AA:1157:G:OP2	1.99	0.63
11:AO:48:PRO:O	11:AO:50:ARG:N	2.30	0.63
23:DZ:23:LYS:HE3	23:DZ:29:GLY:HA2	1.79	0.63
14:AQ:23:ARG:HG2	14:AQ:23:ARG:NH1	2.13	0.63
13:A0:104:ARG:NH1	13:A0:109:ALA:HB3	2.14	0.63
52:CB:11:C:O2'	52:CB:12:U:H5'	1.97	0.63
1:AA:2853:C:H2'	1:AA:2854:G:C8	2.33	0.63
54:CA:1072:G:H2'	54:CA:1073:U:C6	2.32	0.63
18:AS:39:THR:CG2	18:AS:44:ALA:HB2	2.27	0.63
13:D0:49:ASP:OD1	13:D0:95:THR:HG22	1.97	0.63
14:DQ:52:SER:HB2	14:DQ:55:ALA:H	1.61	0.63
31:BA:468:A:H2'	31:BA:474:G:O4'	1.99	0.63
54:CA:511:C:H1'	34:CG:43:HIS:HE2	1.63	0.63
55:DA:312:G:H5'	55:DA:331:A:H2'	1.79	0.63
54:CA:714:G:H2'	54:CA:715:A:C8	2.33	0.63
52:CB:68:C:H2'	52:CB:69:G:C8	2.33	0.63
34:CG:144:ASP:HB2	34:CG:146:ILE:HD11	1.80	0.63
42:BO:6:THR:H	42:BO:9:GLN:HE21	1.46	0.63
55:DA:1085:A:O4'	55:DA:1105:U:H1'	1.97	0.63
56:DJ:21:LYS:O	56:DJ:24:ILE:CB	2.45	0.63
57:DY:27:VAL:HG23	57:DY:80:VAL:HG21	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:115:GLY:N	21:AV:177:PRO:HG2	2.10	0.63
31:BA:971:G:N2	31:BA:1363:A:OP2	2.30	0.63
6:AG:101:ILE:HB	26:A4:25:TYR:CD2	2.33	0.63
23:DZ:60:PHE:HE2	23:DZ:91:LYS:NZ	1.96	0.63
15:AR:19:LEU:HD22	15:AR:86:ILE:HG21	1.80	0.63
1:AA:593:G:H1'	30:A8:4:MET:HE2	1.81	0.63
54:CA:1028(A):C:H2'	54:CA:1028(B):C:H6	1.62	0.63
34:BG:12:CYS:CA	34:BG:21:LEU:CD2	2.75	0.63
4:AE:6:GLY:HA2	4:AE:51:PHE:CZ	2.33	0.63
5:DF:32:LEU:HD21	5:DF:108:LYS:HB3	1.80	0.63
16:D1:83:LEU:HA	16:D1:88:ILE:CD1	2.27	0.63
23:AZ:92:LYS:O	23:AZ:94:LEU:N	2.31	0.63
55:DA:2503:A:O2'	55:DA:2505:G:OP2	2.16	0.63
55:DA:468:G:H4'	5:DF:62:ARG:HH12	1.62	0.63
22:A3:82:ARG:HG2	22:A3:84:LEU:HD22	1.80	0.63
31:BA:1055:A:N6	31:BA:1200:C:N3	2.47	0.63
54:CA:1322:C:HO2'	54:CA:1323:G:C5'	2.11	0.63
5:DF:129:PHE:HA	5:DF:142:TRP:NE1	2.13	0.63
19:DT:49:VAL:HG13	19:DT:87:GLN:NE2	2.13	0.63
1:AA:528:A:C8	1:AA:528:A:H3'	2.34	0.63
46:CS:72:ARG:HD3	46:CS:72:ARG:C	2.19	0.63
31:BA:769:G:H4'	31:BA:1513:A:H4'	1.81	0.63
52:BB:2:C:H2'	52:BB:3:C:H6	1.63	0.63
1:AA:1728:G:C6	1:AA:1730:U:OP2	2.50	0.63
55:DA:2:G:O2'	55:DA:3:U:H5'	1.98	0.63
4:DE:150:VAL:CG1	4:DE:154:LYS:HG3	2.29	0.63
55:DA:1203:G:H5'	11:DO:3:LEU:HD12	1.79	0.63
1:AA:869:G:O2'	1:AA:870:A:H5'	1.99	0.63
11:DO:98:GLU:O	11:DO:101:VAL:HG12	1.98	0.63
36:BI:45:LEU:HD23	36:BI:46:ARG:N	2.13	0.63
1:AA:2165:G:N3	1:AA:2165:G:H2'	2.13	0.63
20:DU:14:LEU:HD23	20:DU:14:LEU:C	2.18	0.63
1:AA:616:A:O2'	1:AA:617:G:OP1	2.14	0.63
55:DA:1493:C:O2	55:DA:1493:C:H2'	1.97	0.63
3:AD:228:PRO:HD3	3:AD:234:GLY:O	1.98	0.63
4:AE:14:ILE:HD11	15:AR:14:TYR:OH	1.99	0.63
55:DA:1082:U:OP1	55:DA:1082:U:H4'	1.98	0.63
58:DL:8:VAL:CA	58:DL:57:ILE:HG13	2.26	0.63
26:D4:65:ASP:O	26:D4:67:TYR:N	2.29	0.63
26:D4:68:ARG:HA	26:D4:68:ARG:NH2	2.11	0.63
3:DD:27:THR:O	3:DD:28:GLU:HB2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CQ:40:CYS:N	44:CQ:43:CYS:HB2	2.13	0.63
4:DE:56:PRO:O	4:DE:57:LYS:HB2	1.98	0.63
54:CA:474:G:O2'	54:CA:475:G:H5'	1.98	0.63
8:DK:130:TYR:C	8:DK:131:LYS:HD2	2.18	0.63
1:AA:1926:U:C6	1:AA:1928:A:OP2	2.52	0.63
31:BA:404:U:H2'	31:BA:405:U:H6	1.63	0.63
34:BG:25:ARG:O	34:BG:27:TYR:N	2.31	0.63
16:A1:50:ARG:NH2	16:A1:50:ARG:HB2	2.13	0.63
16:A1:50:ARG:HH11	17:A2:72:VAL:CB	2.12	0.63
55:DA:557:U:H2'	55:DA:558:G:H8	1.64	0.63
9:DM:32:THR:O	9:DM:35:ARG:O	2.16	0.63
11:DO:84:ASN:HB2	11:DO:87:ASP:OD2	1.98	0.63
52:CD:20:U:O2'	52:CD:21:A:H5'	1.98	0.63
31:BA:1374:A:H2'	31:BA:1375:A:C5'	2.27	0.63
1:AA:1022:G:O2'	1:AA:1023:U:P	2.56	0.63
5:AF:31:HIS:O	5:AF:34:TRP:HB3	1.98	0.63
32:BE:63:MET:HG2	32:BE:225:ALA:HB1	1.79	0.63
15:DR:50:ILE:HA	15:DR:99:LEU:HD11	1.80	0.63
1:AA:1820:U:H4'	1:AA:1821:A:OP2	1.99	0.63
26:D4:27:THR:O	26:D4:28:LYS:HB3	1.99	0.63
35:CH:110:LEU:CD2	35:CH:139:LEU:HD21	2.29	0.63
29:A7:24:THR:HG23	29:A7:27:GLY:N	2.10	0.63
19:DT:64:LYS:C	19:DT:65:ARG:HD3	2.19	0.63
40:CM:40:LEU:HB2	40:CM:69:ASN:CB	2.27	0.63
34:BG:152:SER:HA	34:BG:155:LEU:HD12	1.80	0.63
55:DA:303:U:H2'	55:DA:304:G:C8	2.33	0.63
1:AA:2879:C:C4'	1:AA:2880:C:OP1	2.45	0.63
11:AO:124:LYS:HG2	11:AO:145:PRO:HD3	1.80	0.63
31:BA:734:G:N2	48:BU:75:ILE:HD11	2.13	0.63
32:CE:52:GLU:HG2	32:CE:56:ARG:NH1	2.12	0.63
6:AG:123:ASN:HD22	6:AG:123:ASN:N	1.96	0.63
10:DN:107:ARG:NH1	15:DR:36:GLU:HB3	2.13	0.63
45:BR:64:ARG:NH1	45:BR:68:ARG:HH21	1.97	0.63
1:AA:533:G:H5'	16:A1:24:TYR:CE2	2.34	0.63
55:DA:605:C:O2'	55:DA:606:U:H5'	1.98	0.63
55:DA:2506:U:O2'	55:DA:2507:C:C5'	2.46	0.63
32:BE:36:ARG:HG2	32:BE:37:ASN:ND2	2.13	0.63
31:BA:646:U:O2'	31:BA:647:C:H5'	1.98	0.63
31:BA:745:C:H2'	31:BA:746:A:H8	1.64	0.63
36:BI:78:GLU:HA	36:BI:81:ILE:HD11	1.79	0.63
12:DP:58:PHE:CD1	12:DP:61:GLY:HA3	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:731:G:OP1	31:BA:766:A:H1'	1.99	0.63
48:CU:32:ARG:HA	48:CU:69:THR:HG21	1.80	0.63
18:DS:41:LYS:HE3	27:D5:25:LEU:HD11	1.80	0.63
36:CI:82:ARG:HB2	36:CI:85:VAL:HG23	1.81	0.63
34:CG:148:VAL:HG12	34:CG:149:ALA:N	2.13	0.63
31:BA:417:C:O2'	31:BA:418:C:H5'	1.99	0.63
31:BA:892:A:O2'	31:BA:1415:G:H4'	1.99	0.63
1:AA:171:G:H2'	1:AA:172:C:H6	1.61	0.63
55:DA:2895:U:H2'	55:DA:2896:C:H6	1.64	0.63
4:AE:11:MET:SD	4:AE:24:THR:HG22	2.39	0.63
55:DA:1062:G:C2'	55:DA:1077:A:H61	2.10	0.63
58:DL:82:ALA:O	58:DL:85:GLU:HB2	1.98	0.63
57:DY:138:LEU:O	57:DY:140:GLY:N	2.31	0.63
57:DY:50:ARG:NH2	57:DY:83:TYR:HE1	1.96	0.63
54:CA:630:G:O2'	54:CA:631:G:P	2.56	0.63
40:CM:54:PHE:CD2	40:CM:55:LYS:HD2	2.33	0.63
16:A1:92:ARG:O	16:A1:93:LYS:C	2.37	0.63
11:DO:61:ARG:NH1	30:D8:13:ARG:HG3	2.14	0.63
50:CW:36:LEU:HD13	50:CW:39:LYS:HD3	1.79	0.63
32:CE:172:ILE:O	32:CE:175:ARG:HB3	1.97	0.63
32:CE:235:SER:C	32:CE:237:ALA:H	2.02	0.63
31:BA:1004:A:H2'	31:BA:1005:A:O5'	1.98	0.63
31:BA:954:G:H2'	31:BA:955:U:C6	2.34	0.63
16:D1:92:ARG:NH1	16:D1:95:LEU:HD11	2.13	0.63
20:AU:81:LYS:HZ3	20:AU:97:ARG:NH2	1.97	0.63
1:AA:479:A:H4'	1:AA:480:A:OP1	1.98	0.63
55:DA:2158:A:H4'	55:DA:2159:G:O5'	1.99	0.63
14:DQ:19:LYS:O	14:DQ:21:THR:N	2.31	0.63
6:DG:65:GLY:HA3	26:D4:9:LEU:HD12	1.80	0.63
21:DV:27:VAL:CG1	21:DV:87:ASP:HB3	2.28	0.63
21:DV:28:MET:SD	21:DV:37:VAL:HG11	2.39	0.63
1:AA:2468:G:N2	1:AA:2481:G:H2'	2.14	0.63
52:CD:2:C:O4'	52:CD:2:C:OP1	2.17	0.63
1:AA:1955:U:O2'	1:AA:1956:U:OP1	2.14	0.63
54:CA:371:G:H2'	54:CA:372:C:O4'	1.98	0.63
9:AM:120:LEU:HD23	9:AM:120:LEU:O	1.98	0.63
17:D2:28:GLU:O	17:D2:61:VAL:HG11	1.99	0.63
32:CE:140:HIS:O	32:CE:144:ARG:HG2	1.99	0.63
31:BA:50:A:O2'	31:BA:52:G:C8	2.52	0.63
32:CE:39:ILE:HG22	32:CE:40:HIS:O	1.97	0.63
3:AD:267:SER:C	3:AD:269:PHE:H	2.02	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1845:G:OP1	3:DD:258:LYS:NZ	2.30	0.63
39:CL:97:LYS:HB3	39:CL:98:PRO:HD3	1.81	0.63
55:DA:2839:G:C5'	13:D0:46:GLY:HA2	2.28	0.63
55:DA:288:C:O2'	55:DA:289:A:H5'	1.97	0.63
9:DM:61:ARG:HA	9:DM:61:ARG:HE	1.63	0.63
47:CT:100:LYS:O	47:CT:101:ARG:HG3	1.98	0.63
18:DS:110:LYS:HG3	18:DS:111:HIS:ND1	2.13	0.63
58:DL:104:VAL:O	58:DL:107:ILE:HB	1.98	0.63
58:DL:52:ILE:CG1	58:DL:53:VAL:H	2.06	0.63
58:DL:69:THR:HG22	58:DL:70:LYS:N	2.08	0.63
57:DY:19:ARG:CD	57:DY:20:ALA:N	2.62	0.63
57:DY:2:PRO:HG2	57:DY:3:ASN:N	2.02	0.63
57:DY:43:ALA:H	57:DY:47:ASN:ND2	1.95	0.63
21:AV:115:GLY:N	21:AV:177:PRO:CG	2.62	0.63
21:AV:144:LEU:O	21:AV:146:ILE:N	2.31	0.63
28:A6:28:ARG:HB3	28:A6:30:THR:O	1.98	0.63
30:A8:9:GLY:O	30:A8:13:ARG:HG3	1.99	0.63
1:AA:2414:G:H21	11:AO:67:MET:CE	2.12	0.63
6:AG:41:GLN:O	6:AG:89:GLY:HA2	1.99	0.63
49:CV:83:HIS:C	49:CV:85:LYS:N	2.52	0.63
14:DQ:83:LYS:HE3	14:DQ:109:GLY:HA2	1.81	0.63
16:A1:92:ARG:HH12	17:A2:11:GLN:HG3	1.63	0.63
20:DU:79:CYS:O	20:DU:80:GLY:O	2.17	0.63
34:BG:23:GLY:HA2	34:BG:27:TYR:CD1	2.34	0.63
4:AE:57:LYS:HZ3	4:AE:72:VAL:HG22	1.63	0.63
42:BO:41:ARG:CB	42:BO:41:ARG:HH11	2.04	0.63
54:CA:1157:A:H1'	54:CA:1158:C:C4	2.32	0.63
1:AA:1012:U:O4	9:AM:25:ARG:HA	1.99	0.63
21:AV:130:PRO:C	21:AV:133:ILE:HD11	2.19	0.63
21:AV:37:VAL:O	21:AV:38:TYR:HB3	1.97	0.63
1:AA:2657:A:H2'	1:AA:2658:C:H5'	1.79	0.63
52:CB:74:C:O2'	52:CB:75:C:P	2.57	0.63
1:AA:2111:C:O2'	1:AA:2118:U:H4'	1.98	0.63
4:AE:201:THR:HG22	4:AE:202:LYS:N	2.11	0.63
32:CE:122:PHE:HD1	32:CE:139:LYS:NZ	1.93	0.63
40:BM:48:THR:CA	40:BM:62:HIS:HB3	2.25	0.63
1:AA:1332:G:H5'	1:AA:1333:C:OP2	1.99	0.63
36:BI:19:LEU:O	36:BI:23:LYS:HG3	1.98	0.63
7:AH:149:ARG:HG3	7:AH:162:ILE:O	1.99	0.63
7:AH:41:MET:HG3	7:AH:54:ARG:CA	2.29	0.63
55:DA:2173:A:C4	55:DA:2174:C:H1'	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:411:A:N7	54:CA:413:G:N3	2.47	0.63
32:CE:141:GLU:O	32:CE:145:LEU:HD23	1.99	0.63
55:DA:601:C:O2'	55:DA:605:C:OP1	2.17	0.63
31:BA:328:C:O2'	31:BA:329:A:P	2.57	0.63
44:CQ:22:THR:O	44:CQ:23:ARG:HB2	1.97	0.63
31:BA:508:C:H1'	31:BA:509:A:N7	2.14	0.63
1:AA:1747:G:O2'	1:AA:1748:G:H5'	1.98	0.63
31:BA:1468:A:H2'	31:BA:1469:G:O4'	1.98	0.63
54:CA:1293:G:H2'	54:CA:1294:G:H8	1.63	0.63
37:CJ:133:GLY:O	37:CJ:136:LYS:HB2	1.98	0.63
55:DA:1057:A:H4'	55:DA:1058:U:OP1	1.98	0.63
56:DI:10:GLU:O	56:DI:14:GLN:N	2.31	0.63
56:DI:16:THR:O	56:DI:20:LEU:CD1	2.47	0.63
56:DJ:5:ILE:C	56:DJ:7:ARG:N	2.52	0.63
58:DL:95:LYS:CA	58:DL:136:VAL:HG11	2.29	0.63
55:DA:1058:U:OP1	58:DL:5:VAL:CG2	2.46	0.63
55:DA:1077:A:C2'	58:DL:93:ARG:HH22	2.11	0.63
57:DY:21:GLN:HE21	57:DY:21:GLN:C	1.96	0.63
57:DY:5:ARG:HD3	57:DY:7:VAL:HG11	1.79	0.63
30:A8:34:TRP:HD1	30:A8:35:GLN:H	1.45	0.63
21:DV:185:GLU:OE1	21:DV:185:GLU:CA	2.45	0.63
30:A8:60:LEU:C	30:A8:61:LEU:HD12	2.18	0.63
1:AA:2311:A:H3'	1:AA:2312:U:C6	2.34	0.63
39:BL:65:VAL:HG11	39:BL:73:GLN:HB3	1.81	0.63
7:DH:153:LYS:HG3	7:DH:161:GLY:HA2	1.79	0.63
7:DH:89:ILE:HD11	7:DH:129:THR:CB	2.18	0.63
20:AU:43:ASN:N	20:AU:43:ASN:ND2	2.46	0.63
5:AF:117:ARG:NH2	5:AF:187:VAL:HA	2.13	0.63
46:CS:4:ILE:CD1	46:CS:64:ALA:HB1	2.26	0.63
55:DA:860:U:C5	55:DA:917:A:N1	2.59	0.63
55:DA:2318:G:H22	14:DQ:2:ALA:N	1.97	0.63
31:BA:366:C:O2'	31:BA:394:G:N2	2.32	0.63
32:BE:22:LYS:HZ2	32:BE:22:LYS:N	1.95	0.63
41:CN:108:ILE:H	48:CU:87:ARG:NE	1.95	0.63
54:CA:538:G:OP2	42:CO:115:LYS:HG3	1.99	0.63
1:AA:2189:U:H2'	1:AA:2190:G:H5''	1.80	0.63
1:AA:2189:U:C2'	1:AA:2190:G:H5''	2.29	0.63
55:DA:1879:C:H2'	55:DA:1880:C:C5'	2.29	0.63
34:CG:176:LEU:HD12	34:CG:177:ASP:H	1.64	0.63
12:DP:33:GLY:HA2	12:DP:105:GLU:HA	1.81	0.63
8:AK:51:ILE:HG22	8:AK:52:ARG:N	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AN:71:ARG:NH2	10:AN:77:ILE:HG21	2.13	0.63
14:DQ:58:LEU:HD23	14:DQ:58:LEU:N	2.14	0.63
43:BP:108:ARG:HD2	43:BP:108:ARG:N	2.14	0.63
8:AK:87:LYS:HD2	54:CA:359:U:P	2.38	0.63
55:DA:2291:U:H2'	55:DA:2292:C:C6	2.34	0.63
55:DA:2292:C:O2'	55:DA:2293:C:H5'	1.98	0.63
55:DA:1668:A:N6	55:DA:1676:A:H61	1.95	0.63
35:CH:68:GLU:O	35:CH:68:GLU:HG3	1.98	0.63
55:DA:642:G:N2	55:DA:644:A:H3'	2.14	0.63
1:AA:1999:C:H4'	1:AA:2723:C:O2	1.99	0.63
57:DY:16:ASN:HA	57:DY:19:ARG:HD2	1.81	0.63
57:DY:6:ASN:O	57:DY:7:VAL:C	2.36	0.63
57:DY:49:ALA:HA	57:DY:84:GLU:O	1.99	0.63
30:A8:41:ILE:O	30:A8:41:ILE:HD13	1.99	0.63
54:CA:1205:U:O2'	54:CA:1206:G:H5'	1.98	0.63
54:CA:517:G:O2'	54:CA:530:G:H4'	1.98	0.63
3:DD:65:ILE:CD1	3:DD:65:ILE:H	2.12	0.63
54:CA:789:U:C5	54:CA:792:A:OP2	2.52	0.63
40:BM:30:SER:HB3	40:BM:84:GLN:NE2	2.14	0.63
14:DQ:110:LEU:HA	14:DQ:112:PHE:CE1	2.33	0.63
17:A2:43:GLU:C	17:A2:44:LYS:HD3	2.20	0.63
34:BG:112:VAL:HG12	34:BG:116:GLN:OE1	1.98	0.63
34:BG:5:ILE:O	34:BG:5:ILE:HG22	1.99	0.63
12:DP:90:VAL:HG13	12:DP:91:GLU:N	2.13	0.63
21:AV:62:PRO:O	21:AV:64:GLY:N	2.32	0.63
21:AV:6:LYS:O	21:AV:7:ALA:HB3	1.98	0.63
21:AV:94:GLU:HB3	21:AV:95:PRO:CD	2.29	0.63
55:DA:2135:A:H3'	55:DA:2136:C:H5	1.64	0.63
5:AF:4:VAL:CG1	5:AF:17:ARG:HE	2.11	0.63
3:AD:92:ILE:HA	3:AD:107:ALA:H	1.62	0.63
55:DA:2110:G:O2'	55:DA:2111:C:OP1	2.16	0.63
1:AA:1826:G:H2'	1:AA:1827:C:C6	2.34	0.63
55:DA:442:G:C4'	5:DF:46:ARG:HD3	2.29	0.63
9:AM:56:ASN:H	9:AM:126:PRO:HA	1.64	0.63
34:CG:201:GLN:HA	34:CG:201:GLN:HE21	1.63	0.63
31:BA:1200:C:H1'	31:BA:1204:A:N6	2.14	0.63
31:BA:363:A:N7	42:BO:30:ALA:HB1	2.13	0.63
33:BF:53:ALA:HB2	33:BF:115:LEU:HD21	1.81	0.63
55:DA:2474:C:H3'	55:DA:2475:C:H6	1.63	0.63
36:BI:14:LEU:HD21	36:BI:18:GLN:HB2	1.80	0.63
15:DR:74:ARG:HG2	15:DR:74:ARG:NH1	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:95:U:H3'	2:DB:95:U:C6	2.33	0.63
7:AH:86:GLU:O	7:AH:132:ARG:HA	1.99	0.63
16:A1:109:LEU:HD21	17:A2:40:LEU:HD21	1.80	0.63
27:A5:46:CYS:SG	27:A5:47:PRO:HD2	2.38	0.63
46:BS:53:VAL:O	46:BS:57:ARG:HG2	1.98	0.63
2:AB:17:C:H2'	2:AB:18:G:O4'	1.99	0.63
37:CJ:16:LEU:CD1	39:CL:42:ARG:HA	2.29	0.63
11:DO:57:THR:O	11:DO:60:MET:HB2	1.99	0.63
34:BG:61:LYS:HZ1	34:BG:62:GLN:HE21	1.44	0.63
50:CW:13:LEU:HD12	50:CW:13:LEU:C	2.19	0.63
54:CA:502:G:OP1	42:CO:118:SER:HB2	1.99	0.63
1:AA:705:A:N6	1:AA:726:G:H1'	2.14	0.63
41:BN:30:VAL:HG21	41:BN:65:ALA:HA	1.81	0.63
55:DA:444:C:C4'	5:DF:49:ALA:HB2	2.27	0.63
19:AT:8:ILE:HG23	19:AT:28:PHE:HD2	1.64	0.63
8:DK:82:ARG:HG3	8:DK:82:ARG:HH11	1.62	0.63
1:AA:283:A:H4'	1:AA:284:U:OP2	1.98	0.63
52:BB:23:A:H2'	52:BB:24:G:O4'	1.99	0.63
31:BA:1472:U:O2'	31:BA:1473:A:H5'	1.99	0.63
31:BA:932:C:H5"	37:BJ:3:ARG:HD2	1.80	0.63
1:AA:2341:G:H2'	1:AA:2342:C:C6	2.34	0.63
31:BA:9:G:H2'	31:BA:10:A:H8	1.64	0.63
55:DA:2167:U:H6	55:DA:2167:U:OP2	1.82	0.63
55:DA:1058:U:N3	55:DA:1059:G:O6	2.31	0.63
55:DA:1062:G:C2'	55:DA:1077:A:N6	2.61	0.63
58:DL:115:LEU:HD12	58:DL:116:ASN:N	2.14	0.63
58:DL:126:MET:CE	58:DL:126:MET:H	2.08	0.63
58:DL:143:GLU:HA	58:DL:143:GLU:OE1	1.97	0.63
58:DL:63:ARG:HE	58:DL:63:ARG:CA	2.12	0.63
21:AV:144:LEU:HD11	21:AV:148:ASP:HA	1.81	0.63
21:AV:115:GLY:O	21:AV:174:VAL:CG1	2.46	0.63
21:AV:186:GLU:O	21:AV:187:ALA:HB2	1.99	0.63
43:BP:81:LEU:C	43:BP:83:ASP:N	2.51	0.63
3:DD:28:GLU:HB2	3:DD:29:PRO:CD	2.29	0.63
2:AB:34:U:O4	2:AB:44:G:H2'	1.99	0.63
49:CV:65:ASN:HD22	49:CV:65:ASN:N	1.97	0.63
8:AK:144:VAL:O	8:AK:145:VAL:HG22	1.98	0.63
54:CA:466:C:H5"	54:CA:467:G:OP2	1.99	0.63
21:DV:169:GLU:OE1	21:DV:170:THR:N	2.31	0.63
1:AA:1341:U:H5"	19:AT:57:LEU:CG	2.28	0.63
7:DH:147:ASN:N	7:DH:147:ASN:HD22	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:155:LEU:N	3:AD:155:LEU:HD12	2.13	0.63
55:DA:639:U:H2'	55:DA:640:C:H6	1.63	0.63
52:CD:21:A:N3	52:CD:21:A:H3'	2.12	0.63
12:DP:87:LYS:C	12:DP:89:ASN:H	2.02	0.63
14:DQ:20:ARG:HD3	14:DQ:21:THR:N	2.13	0.63
55:DA:242:G:H5''	30:D8:62:LEU:HD13	1.80	0.63
24:AW:48:HIS:C	24:AW:48:HIS:CD2	2.72	0.63
55:DA:1688:U:H1'	55:DA:1701:A:C6	2.34	0.63
55:DA:2543:G:H21	55:DA:2646:C:H5''	1.64	0.63
5:DF:9:ILE:HD11	5:DF:125:LEU:CG	2.28	0.63
33:BF:6:HIS:HD2	33:BF:7:PRO:HD2	1.62	0.63
55:DA:1512:G:H2'	55:DA:1513:C:O4'	1.99	0.63
31:BA:197:A:C6	31:BA:221:C:H4'	2.34	0.63
35:CH:102:ALA:HB1	35:CH:106:PRO:HG2	1.80	0.63
1:AA:557:U:H2'	1:AA:558:G:C8	2.32	0.63
55:DA:649:G:H2'	55:DA:650:C:H6	1.59	0.63
16:D1:75:ASN:HB2	16:D1:78:THR:OG1	1.99	0.63
26:D4:10:VAL:CG2	26:D4:11:PRO:HD2	2.28	0.63
12:DP:30:GLY:CA	12:DP:107:ALA:HB2	2.28	0.63
2:AB:11:C:OP2	2:AB:12:C:N4	2.29	0.63
14:AQ:106:ARG:CB	14:AQ:106:ARG:NH1	2.62	0.63
1:AA:215:G:H4'	1:AA:216:A:O5'	1.99	0.63
41:CN:124:LYS:HD2	41:CN:125:PHE:CZ	2.34	0.63
31:BA:457:C:H2'	31:BA:458:C:H6	1.64	0.63
55:DA:2629:A:O2'	55:DA:2630:G:H5''	1.98	0.63
51:CX:10:ARG:HA	51:CX:13:ILE:HD12	1.80	0.63
1:AA:2228:G:H2'	1:AA:2229:C:C6	2.34	0.63
12:DP:25:ASP:OD1	21:DV:78:LYS:HD3	1.99	0.63
12:DP:39:PRO:HA	12:DP:97:VAL:O	1.98	0.63
1:AA:2801:A:H2'	1:AA:2802:G:O4'	1.99	0.63
56:DI:29:GLU:N	56:DJ:2:ALA:HB1	2.13	0.62
58:DL:112:MET:SD	58:DL:120:LEU:CA	2.87	0.62
21:AV:106:GLY:CA	21:AV:108:PRO:HD2	2.29	0.62
1:AA:919:G:C5'	2:AB:81:G:H1'	2.29	0.62
12:AP:7:MET:HB2	12:AP:10:ARG:HE	1.62	0.62
54:CA:612:C:C2	54:CA:629:G:N2	2.67	0.62
3:DD:27:THR:CG2	3:DD:28:GLU:H	1.97	0.62
6:AG:135:LEU:N	6:AG:135:LEU:HD12	2.14	0.62
54:CA:1234:C:H4'	54:CA:1364:U:C2'	2.29	0.62
15:DR:1:MET:O	15:DR:3:ARG:N	2.32	0.62
15:DR:26:ASP:HB2	15:DR:90:GLN:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:44:ARG:O	28:D6:45:LYS:HB2	1.99	0.62
57:DY:104:ILE:CG1	57:DY:105:PRO:CD	2.72	0.62
4:AE:71:GLY:C	4:AE:73:GLU:H	2.02	0.62
32:CE:187:LEU:HD13	32:CE:187:LEU:O	1.99	0.62
1:AA:329:G:O6	20:AU:19:LYS:HA	1.99	0.62
7:AH:153:LYS:HE3	7:AH:160:LYS:O	1.99	0.62
6:DG:81:LYS:HD3	6:DG:81:LYS:N	2.14	0.62
55:DA:2311:A:C8	6:DG:82:LEU:HD11	2.34	0.62
6:DG:76:SER:OG	6:DG:83:ARG:HA	1.99	0.62
6:DG:67:LYS:CG	26:D4:5:ILE:HG22	2.26	0.62
17:D2:38:LEU:HB3	17:D2:52:VAL:HG22	1.81	0.62
24:AW:51:ARG:NH2	24:AW:55:ARG:HH12	1.97	0.62
55:DA:1906:G:C8	55:DA:1929:G:N3	2.67	0.62
22:D3:51:VAL:HG23	22:D3:81:VAL:CG2	2.29	0.62
6:DG:16:ARG:HG2	6:DG:16:ARG:NH1	2.12	0.62
54:CA:1443:G:C3'	54:CA:1446:A:H5''	2.29	0.62
1:AA:1069:A:H5'	1:AA:1070:A:C8	2.34	0.62
55:DA:704:G:HO2'	55:DA:705:A:P	2.22	0.62
15:DR:51:ARG:CG	15:DR:98:LYS:HG3	2.25	0.62
5:DF:128:ALA:O	5:DF:129:PHE:HB2	1.98	0.62
43:CP:116:THR:HG22	43:CP:117:VAL:H	1.64	0.62
31:BA:920:U:H2'	31:BA:921:U:H6	1.64	0.62
54:CA:30:U:O2'	54:CA:31:G:OP1	2.16	0.62
34:BG:104:VAL:O	34:BG:108:LEU:HB2	1.99	0.62
14:AQ:10:ARG:O	14:AQ:14:VAL:HG12	1.98	0.62
10:DN:2:ILE:HB	10:DN:33:ALA:HB3	1.80	0.62
32:BE:169:LYS:HD3	32:BE:169:LYS:O	1.99	0.62
31:BA:186:C:H1'	50:BW:81:LYS:HZ2	1.64	0.62
38:CK:115:SER:C	38:CK:116:LYS:HE2	2.19	0.62
35:CH:42:GLY:HA3	35:CH:66:MET:HG2	1.81	0.62
32:CE:102:LEU:HB3	32:CE:180:LEU:CD1	2.29	0.62
34:CG:43:HIS:O	34:CG:46:LYS:HG2	1.99	0.62
21:DV:77:ASP:OD2	21:DV:80:ARG:HG3	1.98	0.62
54:CA:748:C:O2'	54:CA:749:C:P	2.57	0.62
22:D3:5:LYS:O	22:D3:5:LYS:HD3	1.99	0.62
6:DG:181:ARG:HG2	6:DG:181:ARG:O	1.98	0.62
39:CL:66:ARG:HH11	39:CL:66:ARG:HB3	1.64	0.62
58:DL:7:VAL:CG1	58:DL:58:THR:CA	2.75	0.62
57:DY:51:LEU:CD2	57:DY:82:PHE:CA	2.72	0.62
57:DY:9:LEU:CD2	57:DY:10:LEU:N	2.62	0.62
21:AV:145:GLU:O	21:AV:145:GLU:CG	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:175:VAL:CB	21:AV:176:PRO:CD	2.76	0.62
21:AV:179:ASP:O	21:AV:179:ASP:CG	2.37	0.62
31:BA:1316:G:H2'	31:BA:1317:C:H5''	1.81	0.62
31:BA:1342:C:H1'	39:BL:124:GLN:HE22	1.64	0.62
1:AA:1359:A:C5'	1:AA:1359:A:C8	2.81	0.62
12:AP:17:LEU:HD21	12:AP:41:TRP:HE1	1.64	0.62
54:CA:632:A:H3'	54:CA:633:G:H8	1.64	0.62
3:DD:35:LYS:CE	3:DD:104:TYR:HB2	2.29	0.62
6:AG:109:VAL:O	6:AG:113:ARG:HG3	2.00	0.62
43:CP:83:ASP:H	43:CP:93:ARG:NH2	1.96	0.62
54:CA:1002:G:C4	54:CA:1003:G:N7	2.66	0.62
54:CA:1055:A:O3'	33:CF:161:GLU:OE2	2.17	0.62
4:DE:51:PHE:HD1	4:DE:52:LEU:HG	1.62	0.62
28:D6:41:PRO:HB2	28:D6:44:ARG:NH1	2.13	0.62
52:BB:74:C:O2'	52:BB:75:C:C6	2.53	0.62
31:BA:1129:C:C5'	31:BA:1130:A:H5'	2.27	0.62
34:CG:173:TRP:CZ3	34:CG:193:ASP:HB3	2.34	0.62
1:AA:2732:G:H3'	1:AA:2733:A:C5'	2.27	0.62
3:AD:27:THR:O	3:AD:28:GLU:HB2	1.99	0.62
1:AA:1267:U:C4	1:AA:2012:G:N3	2.67	0.62
7:AH:106:THR:CG2	7:AH:112:PRO:HB3	2.27	0.62
54:CA:689:C:H2'	54:CA:690:G:H5'	1.82	0.62
1:AA:1096:A:C5	1:AA:1097:U:H1'	2.34	0.62
14:AQ:11:LYS:HD2	14:AQ:15:ARG:NH2	2.14	0.62
3:AD:130:ALA:C	3:AD:131:LEU:HD12	2.19	0.62
55:DA:2789:C:O2'	55:DA:2790:A:C4'	2.48	0.62
11:DO:50:ARG:HH21	11:DO:50:ARG:HB3	1.64	0.62
37:CJ:16:LEU:HD21	39:CL:45:ALA:HB2	1.80	0.62
40:CM:74:ILE:HD13	40:CM:74:ILE:H	1.63	0.62
55:DA:74:A:O2'	55:DA:75:G:OP2	2.18	0.62
31:BA:1190:G:H3'	33:BF:3:ASN:ND2	2.14	0.62
32:BE:131:PRO:O	32:BE:135:GLN:HG3	1.99	0.62
31:BA:1470:G:O2'	31:BA:1471:G:H5'	1.99	0.62
31:BA:440:A:H3'	31:BA:442:C:H6	1.64	0.62
31:BA:1077:G:N2	31:BA:1080:A:OP2	2.31	0.62
21:AV:111:VAL:HG13	21:AV:111:VAL:O	1.99	0.62
31:BA:382:A:H2'	31:BA:383:A:H8	1.64	0.62
1:AA:78:A:H2'	1:AA:79:G:H8	1.64	0.62
13:A0:62:ALA:O	13:A0:66:VAL:HG23	1.98	0.62
1:AA:2364:C:H4'	22:A3:56:ASP:OD2	1.99	0.62
7:DH:136:ILE:O	7:DH:136:ILE:HG22	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1872:A:H5'	55:DA:1878:G:OP2	1.99	0.62
56:DJ:16:THR:OG1	56:DJ:17:VAL:HG23	1.99	0.62
58:DL:106:GLU:HA	58:DL:109:LYS:HB2	1.80	0.62
57:DY:48:GLY:O	57:DY:50:ARG:HB3	2.00	0.62
43:CP:119:GLY:C	43:CP:120:LYS:HD3	2.19	0.62
26:A4:60:GLN:NE2	26:A4:60:GLN:N	2.42	0.62
1:AA:2275:C:O2	12:AP:83:MET:HG3	2.00	0.62
31:BA:1327:C:O2'	31:BA:1328:C:H5'	2.00	0.62
15:AR:94:ALA:C	15:AR:96:ARG:H	2.01	0.62
20:DU:47:LYS:O	20:DU:49:VAL:HG23	1.99	0.62
28:D6:20:ASN:ND2	28:D6:42:TRP:CH2	2.68	0.62
16:A1:61:TRP:O	16:A1:65:ILE:HD13	1.99	0.62
17:A2:35:LEU:O	17:A2:37:VAL:HG22	1.97	0.62
31:BA:411:A:H62	31:BA:413:G:H21	1.47	0.62
1:AA:2749:A:H5''	7:AH:6:ARG:NH1	2.14	0.62
31:BA:1003:G:C3'	31:BA:1004:A:H5''	2.28	0.62
55:DA:1286:A:H2'	55:DA:1288:U:OP2	1.99	0.62
31:BA:1348:U:N3	31:BA:1374:A:H2	1.97	0.62
20:AU:8:LYS:O	20:AU:27:VAL:CG2	2.48	0.62
1:AA:1267:U:O4	1:AA:2012:G:C4	2.52	0.62
55:DA:83:G:HO2'	55:DA:84:A:H8	1.46	0.62
24:AW:24:LEU:HD22	24:AW:60:LEU:CD2	2.29	0.62
5:AF:179:GLU:N	5:AF:179:GLU:OE1	2.31	0.62
53:C1:30:C:C4	53:C1:31:A:N7	2.66	0.62
43:CP:65:LYS:HB3	26:D4:50:VAL:HG21	1.81	0.62
55:DA:1885:A:H3'	55:DA:1886:C:H6	1.63	0.62
55:DA:1652:A:H4'	55:DA:1653:G:OP1	1.99	0.62
55:DA:71:A:H2	19:DT:31:HIS:CE1	2.17	0.62
3:DD:147:LEU:HD11	3:DD:183:ARG:NH1	2.14	0.62
31:BA:1253:G:H2'	31:BA:1254:C:C6	2.34	0.62
39:CL:48:GLU:HB2	39:CL:78:LYS:HE3	1.80	0.62
33:BF:71:ALA:HA	33:BF:106:VAL:HB	1.80	0.62
35:BH:102:ALA:HB1	35:BH:106:PRO:HG2	1.81	0.62
12:DP:109:VAL:CG1	12:DP:110:THR:N	2.62	0.62
39:BL:113:LYS:H	39:BL:113:LYS:HD2	1.64	0.62
32:BE:172:ILE:HD12	32:BE:172:ILE:N	2.13	0.62
54:CA:1245:A:P	51:CX:9:ARG:HH22	2.22	0.62
1:AA:2857:G:N2	1:AA:2859:G:H3'	2.14	0.62
18:DS:82:LEU:HB2	18:DS:98:LYS:HB2	1.81	0.62
1:AA:1396:U:O2	1:AA:1396:U:H2'	1.99	0.62
2:AB:104:A:H2'	2:AB:105:G:O4'	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:655:A:H2'	55:DA:656:G:H5'	1.81	0.62
55:DA:215:G:H4'	55:DA:216:A:O5'	1.99	0.62
4:DE:38:THR:OG1	4:DE:39:PRO:HD2	1.98	0.62
4:DE:39:PRO:HG2	4:DE:40:GLU:OE2	2.00	0.62
56:DJ:1:MET:CG	56:DJ:2:ALA:N	2.62	0.62
57:DY:27:VAL:CG2	57:DY:28:ASN:H	1.83	0.62
28:A6:25:LYS:HB3	30:A8:34:TRP:CH2	2.34	0.62
1:AA:2394:C:OP1	11:AO:63:PRO:CD	2.44	0.62
42:CO:47:LYS:CB	42:CO:48:PRO:CD	2.76	0.62
2:AB:44:G:C2	2:AB:48:A:C2	2.87	0.62
23:DZ:83:GLU:HG2	23:DZ:84:GLY:N	2.12	0.62
1:AA:1406:U:H3'	1:AA:1407:C:C6	2.34	0.62
34:BG:3:ARG:HE	34:BG:118:ARG:HD3	1.64	0.62
6:AG:81:LYS:N	6:AG:81:LYS:HD3	2.13	0.62
1:AA:1043:C:H2'	1:AA:1044:G:H5''	1.80	0.62
31:BA:243:A:H5'	31:BA:245:C:OP1	1.99	0.62
54:CA:1399:C:H4'	54:CA:1400:C:C5'	2.29	0.62
32:CE:71:VAL:CG2	32:CE:164:VAL:HG22	2.29	0.62
32:CE:224:GLN:C	32:CE:226:ARG:H	2.03	0.62
5:DF:65:TRP:HB2	5:DF:66:PRO:HD2	1.80	0.62
36:BI:6:VAL:HG12	36:BI:8:ILE:CD1	2.28	0.62
33:BF:35:GLU:O	33:BF:38:ARG:HG2	2.00	0.62
2:DB:81:G:C2	2:DB:82:G:C5	2.87	0.62
48:CU:56:THR:HB	48:CU:58:LEU:HD13	1.81	0.62
2:AB:50:G:P	14:AQ:62:LYS:HB2	2.39	0.62
54:CA:595:G:H5''	54:CA:596:C:OP1	1.99	0.62
10:DN:7:TYR:C	10:DN:8:LEU:HD22	2.19	0.62
26:D4:10:VAL:HG23	26:D4:11:PRO:HD2	1.80	0.62
26:D4:14:ILE:CG2	26:D4:21:VAL:HB	2.29	0.62
4:DE:119:ARG:HD3	4:DE:160:TYR:HB2	1.82	0.62
9:DM:30:ILE:HG22	9:DM:34:LEU:CD2	2.29	0.62
55:DA:322:A:H4'	55:DA:323:G:OP2	1.99	0.62
41:BN:99:GLN:OE1	41:BN:105:VAL:HG21	1.99	0.62
54:CA:1464:G:OP1	15:DR:108:ARG:HD2	1.99	0.62
31:BA:961:U:O2	31:BA:1201:A:N1	2.32	0.62
13:D0:91:GLN:HE21	13:D0:91:GLN:N	1.96	0.62
31:BA:1510:U:H2'	31:BA:1511:G:C8	2.34	0.62
58:DL:34:ILE:HD12	58:DL:37:PHE:O	1.98	0.62
57:DY:130:THR:C	57:DY:132:ASP:H	2.03	0.62
57:DY:58:LEU:CA	57:DY:62:ALA:HB2	2.29	0.62
21:AV:105:VAL:O	21:AV:140:ASP:HA	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A6:9:LEU:HD22	28:A6:11:LEU:CD2	2.29	0.62
1:AA:2344:U:C2	28:A6:37:ARG:HD3	2.34	0.62
1:AA:1111:A:H5'	7:AH:3:ARG:CZ	2.29	0.62
40:CM:7:LYS:HG2	40:CM:71:LEU:HD13	1.81	0.62
31:BA:1004:A:O4'	31:BA:1036:G:C6	2.52	0.62
1:AA:1252:G:O4'	16:A1:33:ARG:HD2	1.99	0.62
31:BA:1529:G:H5'	31:BA:1530:G:P	2.40	0.62
52:BD:35:A:H62	52:BD:37:MIA:H153	1.63	0.62
5:AF:29:ASN:N	5:AF:112:MET:HE1	2.15	0.62
14:DQ:86:ALA:O	14:DQ:87:PHE:HB3	1.99	0.62
2:DB:21:G:H8	2:DB:21:G:H5'	1.64	0.62
24:AW:54:LYS:O	24:AW:57:ILE:HG12	2.00	0.62
55:DA:1828:G:H8	55:DA:1828:G:OP2	1.82	0.62
54:CA:1095:U:P	54:CA:1108:G:H1	2.22	0.62
9:AM:126:PRO:O	9:AM:127:ASP:HB2	1.98	0.62
55:DA:1249:U:O2	55:DA:1249:U:C2'	2.37	0.62
9:DM:65:LYS:CB	9:DM:69:GLN:HE21	2.10	0.62
34:CG:119:GLN:HG3	34:CG:123:HIS:HD2	1.62	0.62
1:AA:320:A:H4'	1:AA:322:A:C8	2.35	0.62
1:AA:442:G:O4'	5:AF:46:ARG:HD3	2.00	0.62
50:BW:73:HIS:O	50:BW:76:ALA:HB3	2.00	0.62
31:BA:752:G:H1'	31:BA:754:C:H41	1.65	0.62
54:CA:738:C:H2'	54:CA:739:C:C6	2.34	0.62
3:DD:183:ARG:HG2	3:DD:183:ARG:NH1	2.12	0.62
12:AP:54:MET:HE1	12:AP:118:LEU:HD22	1.80	0.62
40:CM:64:GLU:HG2	44:CQ:59:ALA:HB2	1.82	0.62
28:A6:31:PRO:C	28:A6:33:LYS:H	2.02	0.62
55:DA:2051:A:N6	55:DA:2614:A:H2'	2.14	0.62
15:DR:95:ARG:HH11	15:DR:95:ARG:HG3	1.64	0.62
41:BN:41:THR:HG21	41:BN:71:LYS:HB2	1.81	0.62
47:CT:52:LYS:HD2	47:CT:55:ASP:OD1	1.99	0.62
4:DE:101:ARG:NH1	4:DE:171:GLU:HB2	2.15	0.62
16:D1:85:LYS:NZ	16:D1:117:GLN:HG2	2.14	0.62
54:CA:511:C:H1'	34:CG:43:HIS:NE2	2.13	0.62
10:DN:53:LYS:HD2	10:DN:53:LYS:N	2.13	0.62
54:CA:148:G:H2'	54:CA:149:A:H8	1.64	0.62
1:AA:30:G:H2'	1:AA:31:C:C6	2.35	0.62
55:DA:1078:U:C1'	55:DA:1088:A:C2	2.82	0.62
55:DA:1099:G:H8	55:DA:1099:G:H5'	1.64	0.62
58:DL:93:ARG:HG2	58:DL:135:GLY:HA2	1.81	0.62
58:DL:138:VAL:HG12	58:DL:139:VAL:H	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:DV:194:PRO:HB2	21:DV:196:VAL:HG11	1.80	0.62
26:A4:58:ARG:HA	26:A4:61:ARG:HB2	1.81	0.62
31:BA:1216:G:H2'	31:BA:1217:C:H6	1.63	0.62
31:BA:1306:A:H2'	31:BA:1307:U:O4'	2.00	0.62
49:BV:51:VAL:HB	49:BV:75:ALA:HB2	1.82	0.62
12:AP:4:PRO:HB2	12:AP:10:ARG:NH2	2.14	0.62
52:CB:56:C:C6	55:DA:896:A:O2'	2.51	0.62
54:CA:628:G:C2	54:CA:629:G:C4	2.88	0.62
55:DA:1181:C:H5'	55:DA:1181:C:H6	1.63	0.62
16:A1:90:VAL:HG22	17:A2:39:LEU:HD23	1.82	0.62
23:AZ:87:PRO:CA	23:AZ:90:ILE:HG22	2.22	0.62
23:AZ:91:LYS:O	23:AZ:92:LYS:C	2.38	0.62
55:DA:888:C:C2'	55:DA:889:C:H5'	2.30	0.62
31:BA:1350:A:H2'	31:BA:1351:U:O4'	2.00	0.62
1:AA:310:A:O2'	1:AA:311:A:H3'	1.99	0.62
1:AA:1669:A:C8	10:AN:5:GLN:HG2	2.33	0.62
55:DA:1027:A:N6	55:DA:1126:A:H1'	2.13	0.62
52:CC:46:G:O3'	52:CC:47:U:H4'	2.00	0.62
14:DQ:70:GLY:O	14:DQ:73:LEU:HB3	1.99	0.62
8:AK:5:LEU:HD11	8:AK:19:VAL:CG1	2.25	0.62
37:CJ:113:GLU:CG	37:CJ:119:ARG:HG2	2.29	0.62
54:CA:818:G:H3'	54:CA:819:A:H5'	1.81	0.62
1:AA:851:U:H5'	25:AX:49:LYS:HD2	1.82	0.62
47:BT:34:LYS:O	47:BT:36:ILE:HG23	1.99	0.62
31:BA:1053:G:C5'	31:BA:1054:C:H5'	2.26	0.62
42:BO:70:ILE:HD12	42:BO:77:LEU:HD12	1.80	0.62
55:DA:528:A:C2'	55:DA:529:A:H5''	2.29	0.62
55:DA:389:G:H22	11:DO:72:PRO:CD	2.13	0.62
55:DA:2657:A:H1'	55:DA:2665:A:N6	2.14	0.62
34:CG:79:PHE:CD2	34:CG:79:PHE:C	2.70	0.62
32:BE:89:GLY:O	32:BE:154:LEU:HD13	1.99	0.62
1:AA:9:U:H3	1:AA:2629:A:N6	1.98	0.62
34:BG:61:LYS:NZ	34:BG:62:GLN:NE2	2.47	0.62
20:DU:88:LYS:HB3	20:DU:90:LEU:CD2	2.29	0.62
46:BS:1:MET:HG3	46:BS:1:MET:O	1.99	0.62
3:AD:10:THR:HG23	3:AD:13:ARG:CB	2.29	0.62
55:DA:222:A:N6	55:DA:232:G:O2'	2.32	0.62
55:DA:1427:A:O2'	55:DA:1428:C:OP2	2.14	0.62
37:BJ:69:VAL:HG12	37:BJ:69:VAL:O	1.99	0.62
31:BA:421:U:O2	31:BA:421:U:H2'	1.99	0.62
54:CA:693:G:H2'	54:CA:694:A:C8	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2820:A:N3	13:A0:4:LEU:CD2	2.63	0.62
56:DJ:12:LEU:H	56:DJ:13:SER:CA	2.13	0.62
28:A6:10:LEU:C	28:A6:11:LEU:HD22	2.19	0.62
54:CA:628:G:N2	54:CA:629:G:C2	2.67	0.62
6:AG:41:GLN:HE21	6:AG:60:LEU:HD12	1.64	0.62
27:D5:51:TYR:CB	27:D5:56:LYS:HB3	2.30	0.62
14:DQ:99:LYS:O	14:DQ:102:ALA:HB3	1.99	0.62
57:DY:104:ILE:HG23	57:DY:105:PRO:CD	2.29	0.62
16:A1:88:ILE:C	16:A1:90:VAL:H	2.01	0.62
50:CW:67:ALA:HA	50:CW:72:LEU:O	2.00	0.62
7:DH:86:GLU:O	7:DH:87:LEU:HB2	2.00	0.62
7:AH:7:LEU:HD12	7:AH:8:PRO:N	2.15	0.62
32:CE:201:ILE:HG21	32:CE:214:ILE:HG21	1.81	0.62
1:AA:266:G:C3'	1:AA:267:C:H5''	2.30	0.62
43:CP:3:ARG:NH2	6:DG:139:LEU:HD13	2.15	0.62
21:AV:57:ILE:N	21:AV:57:ILE:HD12	2.14	0.62
7:AH:105:LEU:O	7:AH:107:VAL:HG13	1.99	0.62
31:BA:1382:C:O2'	31:BA:1383:C:H5'	2.00	0.62
55:DA:2158:A:H5''	55:DA:2159:G:OP1	2.00	0.62
19:AT:50:LYS:H	19:AT:87:GLN:HE22	1.48	0.62
55:DA:230:U:OP2	55:DA:230:U:H6	1.82	0.62
4:AE:200:GLU:CG	4:AE:201:THR:N	2.62	0.62
39:BL:78:LYS:HB2	39:BL:78:LYS:NZ	2.14	0.62
33:CF:175:LEU:N	33:CF:175:LEU:HD12	2.14	0.62
35:BH:80:ILE:HG22	38:BK:104:ARG:NE	2.15	0.62
5:DF:198:ALA:HA	5:DF:201:VAL:CG1	2.28	0.62
36:BI:30:LEU:HD23	36:BI:75:LEU:HD11	1.80	0.62
21:DV:30:ASN:OD1	21:DV:33:LEU:HB3	1.99	0.62
54:CA:1443:G:H4'	54:CA:1446:A:OP2	1.99	0.62
1:AA:1784:A:H4'	1:AA:1785:A:C5'	2.29	0.62
7:AH:85:LYS:HA	7:AH:85:LYS:HE2	1.80	0.62
10:AN:87:ILE:HG22	10:AN:88:ASN:O	1.99	0.62
36:CI:41:GLU:O	36:CI:43:LEU:HD12	1.99	0.62
48:CU:26:LEU:HD22	48:CU:42:ARG:CZ	2.30	0.62
27:A5:40:LYS:HD2	27:A5:46:CYS:HB2	1.82	0.62
36:CI:72:VAL:HG13	36:CI:73:ASN:N	2.14	0.62
14:AQ:62:LYS:HB3	14:AQ:97:ARG:HD3	1.81	0.62
1:AA:2002:G:OP1	13:A0:9:LYS:HE2	2.00	0.62
55:DA:2392:A:H2	55:DA:2424:C:N4	1.96	0.62
1:AA:2735:G:N2	1:AA:2770:G:H1'	2.13	0.62
55:DA:718:A:H3'	55:DA:719:C:H6	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:546:C:H3'	55:DA:547:A:C8	2.35	0.62
7:AH:168:PRO:HG2	7:AH:169:VAL:H	1.65	0.62
14:DQ:56:LEU:O	14:DQ:58:LEU:HD22	1.98	0.62
1:AA:171:G:H2'	1:AA:172:C:C6	2.34	0.62
54:CA:422:C:O2'	54:CA:423:G:H5''	2.00	0.62
54:CA:552:U:O2'	54:CA:553:A:H5'	2.00	0.62
1:AA:2065:C:H2'	1:AA:2066:C:C6	2.35	0.62
42:BO:7:ILE:O	42:BO:10:LEU:N	2.33	0.62
1:AA:1726:G:O2'	1:AA:1727:U:H5'	2.00	0.62
6:AG:69:ALA:HB3	6:AG:91:ARG:HH21	1.65	0.62
55:DA:1057:A:O2'	55:DA:1058:U:O5'	2.17	0.62
56:DI:29:GLU:N	56:DJ:2:ALA:CB	2.62	0.62
58:DL:11:GLN:HA	58:DL:23:VAL:HG12	1.82	0.62
57:DY:57:THR:O	57:DY:58:LEU:O	2.17	0.62
52:BB:19:G:H1'	52:BB:57:G:C2	2.35	0.62
49:BV:12:ASP:O	49:BV:16:LEU:HD13	1.99	0.62
26:A4:63:TYR:HE1	49:BV:39:THR:CG2	2.13	0.62
12:AP:12:GLN:HG2	12:AP:73:PRO:HD2	1.81	0.62
54:CA:69:G:N2	54:CA:101:A:C2	2.68	0.62
6:AG:61:ALA:HB2	6:AG:68:PRO:CD	2.29	0.62
1:AA:768:G:O2'	1:AA:1379:A:N6	2.31	0.62
54:CA:37:U:H2'	54:CA:38:G:H8	1.65	0.62
30:D8:17:THR:HG23	30:D8:21:LYS:O	2.00	0.62
4:AE:73:GLU:CG	4:AE:74:PRO:HD2	2.29	0.62
39:BL:17:VAL:CG1	39:BL:81:ILE:HD13	2.29	0.62
55:DA:2840:C:O3'	13:D0:53:HIS:CE1	2.53	0.62
1:AA:2478:A:H5'	1:AA:2479:G:OP2	1.99	0.62
6:DG:97:ASP:O	6:DG:100:TRP:N	2.32	0.62
55:DA:1332:G:H21	55:DA:1610:A:H8	1.47	0.62
30:D8:6:THR:O	30:D8:7:HIS:HB2	2.00	0.62
7:AH:106:THR:HG22	7:AH:112:PRO:CB	2.26	0.62
55:DA:2733:A:H2'	55:DA:2734:A:O4'	1.99	0.62
11:AO:102:ARG:O	11:AO:102:ARG:HD2	2.00	0.62
33:BF:156:ARG:HH21	33:BF:161:GLU:HA	1.64	0.62
32:CE:69:LEU:HD12	32:CE:91:PRO:O	1.99	0.62
47:CT:57:VAL:HG12	47:CT:76:LEU:HA	1.80	0.62
1:AA:5:A:O2'	1:AA:6:A:H5'	2.00	0.62
8:DK:25:TYR:CE2	8:DK:29:TYR:HD2	2.18	0.62
41:BN:91:ARG:HG2	41:BN:91:ARG:HH11	1.64	0.62
5:AF:136:THR:O	5:AF:140:LEU:HB2	1.99	0.62
1:AA:1278:A:H5''	13:A0:36:THR:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CB:76:A:H8	55:DA:2507:C:O4'	1.82	0.62
1:AA:2340:G:O2'	1:AA:2341:G:H5'	2.00	0.62
14:AQ:70:GLY:HA3	14:AQ:104:GLY:HA3	1.80	0.62
1:AA:2698:U:H2'	1:AA:2699:C:C6	2.34	0.62
1:AA:208:C:H2'	1:AA:209:C:H6	1.65	0.62
37:CJ:121:ALA:O	37:CJ:125:MET:HG3	1.99	0.62
1:AA:884:C:O5'	1:AA:884:C:H6	1.83	0.62
43:BP:14:ARG:NH2	43:BP:16:ASP:OD1	2.33	0.62
50:BW:46:GLU:HG2	50:BW:46:GLU:O	2.00	0.62
7:AH:18:GLU:CG	7:AH:25:LYS:HB2	2.29	0.62
7:AH:18:GLU:HB2	7:AH:25:LYS:HB2	1.80	0.62
1:AA:2820:A:H61	4:AE:192:ASN:N	1.93	0.62
4:AE:8:LYS:HE3	4:AE:188:VAL:CG1	2.27	0.62
58:DL:36:GLU:O	58:DL:36:GLU:HG3	1.98	0.62
58:DL:18:THR:HG21	58:DL:38:VAL:HG11	1.80	0.62
58:DL:83:GLY:O	58:DL:84:LEU:C	2.37	0.62
21:DV:190:GLU:C	21:DV:191:VAL:CG2	2.61	0.62
11:AO:56:SER:O	11:AO:57:THR:HB	1.99	0.62
3:DD:36:PRO:O	3:DD:37:LEU:HD23	2.00	0.62
20:DU:57:GLN:HE21	20:DU:57:GLN:C	2.02	0.62
8:AK:82:ARG:HD2	8:AK:146:ALA:HB2	1.81	0.62
21:DV:152:ALA:HB1	21:DV:163:LEU:CD1	2.30	0.62
28:D6:33:LYS:HG3	28:D6:34:LEU:HD13	1.81	0.62
1:AA:1924:C:H2'	1:AA:1925:C:O4'	1.99	0.62
49:CV:49:ILE:O	49:CV:60:VAL:HG22	1.98	0.62
1:AA:2789:C:O2'	1:AA:2790:A:C4'	2.48	0.62
31:BA:792:A:O2'	31:BA:793:U:OP2	2.18	0.62
54:CA:266:G:O2'	54:CA:267:C:OP2	2.13	0.62
31:BA:1347:G:O2'	31:BA:1348:U:P	2.57	0.62
55:DA:654(C):G:C2	55:DA:654(S):G:C2	2.88	0.62
46:CS:20:VAL:HG23	46:CS:34:GLU:O	2.00	0.62
17:D2:55:ALA:HB1	17:D2:101:GLY:HA2	1.82	0.62
6:DG:101:ILE:CD1	26:D4:9:LEU:HD11	2.30	0.62
54:CA:1189:C:OP1	40:CM:51:ARG:NH2	2.26	0.62
4:DE:95:ILE:CD1	4:DE:95:ILE:H	2.12	0.62
48:BU:78:LEU:O	48:BU:79:LEU:HD23	2.00	0.62
34:CG:13:ARG:HB3	34:CG:33:MET:HG2	1.82	0.62
46:BS:49:LEU:HD13	46:BS:73:LEU:HD22	1.81	0.62
31:BA:1240:U:C4	37:BJ:32:ARG:HD2	2.35	0.62
55:DA:2790:A:O2'	55:DA:2791:C:OP2	2.17	0.62
6:DG:41:GLN:HB3	6:DG:43:LEU:CD1	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2391:G:H1'	55:DA:2429:G:H21	1.64	0.62
55:DA:2197:U:O2'	55:DA:2198:A:C8	2.52	0.62
16:D1:74:LEU:HD13	16:D1:75:ASN:O	2.00	0.62
55:DA:27:G:N2	55:DA:512:G:O2'	2.33	0.62
36:BI:99:ALA:H	48:BU:31:LEU:HD22	1.65	0.62
31:BA:8:A:H1'	35:BH:102:ALA:N	2.15	0.62
55:DA:1012:U:C5	9:DM:28:THR:HG21	2.34	0.62
39:BL:112:LYS:HD3	39:BL:112:LYS:C	2.20	0.62
47:BT:7:THR:O	47:BT:23:VAL:HG13	1.99	0.62
55:DA:2754:U:C5'	55:DA:2755:C:OP2	2.48	0.62
55:DA:609(A):G:H2'	55:DA:610:C:C6	2.34	0.62
55:DA:1728:G:C6	55:DA:1730:U:OP2	2.53	0.62
20:AU:5:MET:CE	20:AU:32:PRO:HB3	2.30	0.62
14:DQ:41:ASP:OD2	14:DQ:44:LYS:HB2	2.00	0.62
1:AA:2162:G:O2'	1:AA:2163:C:H5'	2.00	0.62
55:DA:1644:C:O2	55:DA:1644:C:H2'	1.99	0.62
49:BV:80:TYR:CZ	49:BV:82:GLY:HA2	2.35	0.62
57:DY:26:LEU:O	57:DY:111:LEU:CD1	2.48	0.62
57:DY:25:PHE:CZ	57:DY:82:PHE:CG	2.82	0.62
1:AA:896:A:H1'	21:AV:176:PRO:CG	2.29	0.62
21:AV:114:GLY:C	21:AV:177:PRO:CB	2.68	0.62
1:AA:2273:A:O2'	1:AA:2274:A:H5'	2.00	0.62
54:CA:1004:A:H2'	54:CA:1005:A:O4'	1.99	0.62
20:DU:50:ARG:HB3	20:DU:53:PRO:HG2	1.82	0.62
54:CA:1055:A:N6	54:CA:1200:C:N3	2.48	0.62
8:DK:133:HIS:O	8:DK:134:PRO:C	2.38	0.62
9:AM:9:VAL:HG11	9:AM:39:ARG:HH12	1.65	0.62
1:AA:1966:A:H1'	1:AA:2593:U:H5'	1.82	0.62
1:AA:2505:G:O2'	1:AA:2506:U:H6	1.83	0.62
32:CE:97:TRP:CH2	32:CE:173:ALA:HA	2.35	0.62
52:BD:57:G:H2'	52:BD:58:A:H5''	1.82	0.62
21:DV:9:TYR:CE2	21:DV:61:LEU:CD2	2.82	0.62
55:DA:885:C:C2	55:DA:890:A:N6	2.68	0.62
55:DA:890:A:C8	55:DA:892:G:C8	2.87	0.62
9:AM:30:ILE:HG22	9:AM:34:LEU:HD21	1.82	0.62
8:AK:103:ARG:HH11	8:AK:103:ARG:HG2	1.65	0.62
1:AA:1668:A:N6	1:AA:1676:A:H61	1.98	0.62
55:DA:1538:G:O5'	55:DA:1538:G:H8	1.83	0.62
24:AW:70:GLN:HG2	24:AW:71:ASN:N	2.10	0.62
1:AA:1353:A:H4'	3:AD:38:LYS:HZ2	1.65	0.62
48:BU:22:VAL:HA	48:BU:25:THR:OG1	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:585:G:H4'	42:BO:8:ASN:ND2	2.12	0.62
54:CA:1067:A:H1'	54:CA:1068:G:O4'	2.00	0.62
1:AA:1996:C:H5	10:AN:32:TYR:HH	1.48	0.62
55:DA:1820:U:C4'	55:DA:1821:A:OP2	2.48	0.62
1:AA:589:C:H2'	1:AA:590:A:H8	1.62	0.62
31:BA:704:A:H5'	31:BA:705:U:OP2	2.00	0.62
12:DP:21:THR:O	12:DP:22:LYS:O	2.18	0.62
31:BA:968:A:C4'	31:BA:969:A:OP2	2.48	0.62
33:CF:52:LEU:H	33:CF:52:LEU:HD23	1.63	0.62
5:AF:63:LYS:CE	5:AF:67:GLN:HB2	2.29	0.62
31:BA:742:G:OP2	45:BR:35:ARG:NH2	2.32	0.62
14:AQ:106:ARG:HH11	14:AQ:106:ARG:HB3	1.63	0.62
55:DA:386:G:H3'	55:DA:388:G:H22	1.64	0.62
31:BA:8:A:H1'	35:BH:102:ALA:C	2.20	0.62
55:DA:2031:A:C6	55:DA:2498:C:H1'	2.35	0.62
1:AA:2328:A:H2'	1:AA:2329:G:C8	2.35	0.62
31:BA:1423:G:H2'	31:BA:1424:C:C6	2.35	0.62
42:CO:55:VAL:HG12	42:CO:56:ALA:N	2.14	0.62
39:BL:127:LYS:HG3	39:BL:127:LYS:O	1.99	0.62
1:AA:877:U:H4'	1:AA:878:A:OP1	2.00	0.62
1:AA:2009:G:O2'	1:AA:2010:G:H5'	2.00	0.62
38:BK:116:LYS:HD2	38:BK:129:VAL:HG11	1.81	0.62
34:CG:52:SER:H	34:CG:55:ALA:HB3	1.65	0.62
54:CA:853:G:O2'	54:CA:854:G:H5'	2.00	0.62
38:BK:77:GLU:HG2	38:BK:78:GLN:H	1.64	0.62
11:AO:92:GLU:HA	11:AO:123:LEU:HD13	1.80	0.62
4:AE:23:VAL:HG23	4:AE:24:THR:H	1.64	0.61
55:DA:1059:G:OP1	58:DL:4:VAL:CG1	2.48	0.61
58:DL:108:ALA:HA	58:DL:111:LYS:HD3	1.82	0.61
58:DL:53:VAL:CG1	58:DL:72:PRO:HB2	2.30	0.61
57:DY:138:LEU:CG	57:DY:139:VAL:N	2.63	0.61
57:DY:49:ALA:HA	57:DY:84:GLU:H	1.65	0.61
21:AV:145:GLU:OE1	21:AV:145:GLU:C	2.38	0.61
49:BV:64:GLU:O	49:BV:67:VAL:HG23	2.00	0.61
1:AA:1190:G:H5'	11:AO:32:THR:HA	1.82	0.61
3:DD:35:LYS:HG2	3:DD:64:ILE:HG23	1.81	0.61
20:DU:81:LYS:HD3	20:DU:97:ARG:HE	1.63	0.61
11:DO:61:ARG:O	11:DO:62:LEU:CD2	2.46	0.61
55:DA:556:G:H2'	55:DA:557:U:C6	2.35	0.61
1:AA:2746:U:O4	1:AA:2756:U:O4	2.18	0.61
9:DM:68:GLU:HG2	9:DM:88:GLU:CD	2.20	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CP:3:ARG:HG2	43:CP:9:ILE:HG12	1.82	0.61
12:DP:90:VAL:O	12:DP:91:GLU:C	2.38	0.61
23:AZ:91:LYS:HG3	23:AZ:92:LYS:N	2.15	0.61
1:AA:1020:A:N1	1:AA:1141:U:H2'	2.14	0.61
20:AU:95:LYS:HB2	20:AU:95:LYS:NZ	2.14	0.61
1:AA:2531:A:H4'	7:AH:157:TYR:HE2	1.62	0.61
1:AA:2425:A:H5''	1:AA:2426:A:H3'	1.82	0.61
55:DA:83:G:O2'	55:DA:84:A:H8	1.82	0.61
6:DG:98:ARG:O	6:DG:101:ILE:HG12	2.00	0.61
24:AW:51:ARG:HB2	24:AW:55:ARG:HH11	1.62	0.61
55:DA:860:U:O2	55:DA:860:U:O4'	2.17	0.61
41:CN:79:SER:HB2	41:CN:106:LYS:CD	2.27	0.61
55:DA:2318:G:N2	14:DQ:2:ALA:N	2.48	0.61
33:BF:64:VAL:HG23	33:BF:97:LYS:HE3	1.82	0.61
55:DA:1188:U:H5'	17:D2:79:VAL:HG22	1.82	0.61
55:DA:1509:C:H3'	55:DA:1510:A:H4'	1.82	0.61
42:CO:25:PRO:C	42:CO:27:LEU:H	2.01	0.61
50:BW:33:ILE:HD13	50:BW:62:LEU:HB3	1.82	0.61
55:DA:2175:C:H2'	55:DA:2176:A:H5''	1.80	0.61
34:CG:12:CYS:HA	34:CG:19:LEU:HD23	1.79	0.61
6:DG:94:LEU:HD23	6:DG:94:LEU:N	2.14	0.61
14:AQ:14:VAL:HG21	14:AQ:89:ARG:NH1	2.14	0.61
1:AA:449:A:H4'	16:A1:3:ARG:HH11	1.65	0.61
7:AH:89:ILE:HD13	7:AH:90:LYS:H	1.63	0.61
31:BA:818:G:H3'	31:BA:819:A:C5'	2.29	0.61
54:CA:678:U:H2'	54:CA:679:C:H6	1.64	0.61
54:CA:806:C:O2'	54:CA:807:A:H5'	1.99	0.61
54:CA:161:A:H2'	54:CA:162:A:C8	2.35	0.61
55:DA:27:G:O2'	55:DA:28:A:C8	2.53	0.61
35:BH:127:ASN:O	35:BH:131:ILE:HG12	1.99	0.61
32:BE:97:TRP:CZ2	32:BE:102:LEU:HD13	2.35	0.61
45:CR:8:LYS:HB2	45:CR:8:LYS:NZ	2.15	0.61
45:CR:39:LEU:HD13	45:CR:56:LEU:HB2	1.82	0.61
34:BG:187:ARG:HG2	34:BG:188:LEU:N	2.14	0.61
1:AA:207:A:H2'	1:AA:208:C:O4'	2.00	0.61
17:D2:66:ARG:NH1	17:D2:88:ARG:HD3	2.15	0.61
52:BC:28:G:H2'	52:BC:29:G:H5'	1.82	0.61
54:CA:366:C:O2'	54:CA:394:G:N2	2.33	0.61
34:BG:141:ARG:N	34:BG:144:ASP:OD2	2.33	0.61
41:BN:54:ARG:HG2	41:BN:54:ARG:HH11	1.64	0.61
55:DA:2245:U:H5'	55:DA:2246:G:H5'	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:69:G:H2'	2:DB:70:C:H6	1.65	0.61
15:AR:3:ARG:HG2	15:AR:6:LEU:CB	2.29	0.61
55:DA:1079:C:C3'	55:DA:1080:A:H8	2.11	0.61
56:DI:21:LYS:C	56:DI:26:ALA:HB2	2.20	0.61
58:DL:125:ARG:O	58:DL:126:MET:C	2.38	0.61
58:DL:60:TYR:OH	58:DL:65:PHE:C	2.37	0.61
58:DL:79:ARG:C	58:DL:81:ALA:N	2.53	0.61
58:DL:86:LYS:N	58:DL:86:LYS:HE2	2.14	0.61
55:DA:1077:A:C4'	58:DL:93:ARG:HH22	2.13	0.61
1:AA:894:C:C5	1:AA:895:U:C5	2.88	0.61
1:AA:897:C:OP2	1:AA:897:C:O4'	2.18	0.61
21:AV:184:ALA:O	21:AV:186:GLU:N	2.33	0.61
43:CP:125:ARG:O	43:CP:126:LYS:C	2.39	0.61
1:AA:196:A:H5'	1:AA:197:A:OP2	1.99	0.61
1:AA:944:G:H2'	1:AA:944:G:N3	2.13	0.61
21:DV:111:VAL:CG2	21:DV:146:ILE:N	2.63	0.61
55:DA:1301:A:H4'	55:DA:1302:A:OP1	2.00	0.61
54:CA:69:G:C2	54:CA:73:G:N7	2.68	0.61
13:D0:33:ARG:NH2	27:D5:55:ARG:CG	2.55	0.61
55:DA:481:G:HO2'	55:DA:507:A:H61	1.48	0.61
21:DV:150:LEU:HD23	21:DV:151:HIS:N	2.08	0.61
1:AA:2306:C:C3'	1:AA:2307:G:H5''	2.19	0.61
1:AA:2311:A:OP1	1:AA:2312:U:O4	2.19	0.61
9:DM:42:TRP:CD1	16:D1:63:VAL:HG11	2.35	0.61
22:D3:32:ARG:O	22:D3:35:ASN:ND2	2.33	0.61
11:DO:136:GLU:HA	11:DO:139:LYS:HE3	1.81	0.61
55:DA:1288:U:H4'	55:DA:1289:C:OP2	1.99	0.61
1:AA:1005:C:H2'	1:AA:1006:C:H6	1.63	0.61
55:DA:2134:A:H2'	55:DA:2135:A:C8	2.35	0.61
1:AA:2439:A:O2'	1:AA:2440:C:OP2	2.19	0.61
1:AA:686:G:H1'	29:A7:6:GLN:O	1.99	0.61
55:DA:111:A:H4'	24:DW:69:ARG:NH2	2.15	0.61
4:AE:102:VAL:HB	4:AE:199:ARG:O	2.00	0.61
55:DA:29:U:H2'	55:DA:30:G:C8	2.34	0.61
53:C1:29:G:H2'	53:C1:30:C:C5	2.35	0.61
8:DK:74:ASN:ND2	8:DK:74:ASN:H	1.97	0.61
40:BM:54:PHE:CE1	40:BM:55:LYS:HE3	2.35	0.61
43:BP:70:LEU:HD13	43:BP:71:ARG:N	2.15	0.61
55:DA:1049:C:C2	55:DA:2751:G:O6	2.53	0.61
55:DA:1406:U:H2'	55:DA:1407:C:C6	2.35	0.61
33:BF:7:PRO:O	33:BF:11:ARG:HG2	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:89:VAL:HG12	5:AF:90:PHE:H	1.64	0.61
42:CO:117:ARG:O	42:CO:119:LYS:O	2.19	0.61
38:BK:14:ARG:O	38:BK:18:ARG:HD3	1.99	0.61
34:BG:49:ARG:HH22	53:B1:57:U:C1'	2.10	0.61
1:AA:2712:U:HO2'	1:AA:2712(A):A:H8	1.42	0.61
32:BE:165:VAL:HG23	32:BE:166:ASP:N	2.14	0.61
34:BG:146:ILE:H	34:BG:146:ILE:HD12	1.65	0.61
1:AA:2102:U:H2'	1:AA:2103:C:C6	2.35	0.61
38:BK:20:TYR:HA	38:BK:65:TYR:CE2	2.35	0.61
5:AF:170:LEU:HD23	5:AF:172:TRP:HE1	1.65	0.61
3:AD:165:ILE:HA	3:AD:175:LEU:HD23	1.81	0.61
37:CJ:79:ARG:HH12	37:CJ:82:GLY:HA2	1.63	0.61
31:BA:86:U:H2'	31:BA:87:A:OP1	2.00	0.61
31:BA:1469:G:H2'	31:BA:1470:G:H8	1.65	0.61
31:BA:946:A:H2'	31:BA:947:G:H8	1.64	0.61
55:DA:897:C:H6	55:DA:897:C:P	2.21	0.61
49:CV:41:VAL:HG12	49:CV:44:MET:H	1.65	0.61
49:CV:41:VAL:HG23	49:CV:67:VAL:HG13	1.81	0.61
4:DE:48:GLN:O	4:DE:49:LEU:HD12	1.99	0.61
30:D8:33:ASN:O	30:D8:34:TRP:C	2.38	0.61
17:A2:44:LYS:O	17:A2:46:VAL:N	2.33	0.61
55:DA:2779:U:H1'	55:DA:2781:A:C5	2.35	0.61
7:DH:125:VAL:HA	7:DH:126:PRO:CB	2.30	0.61
1:AA:2520:C:C6	1:AA:2567:G:H1'	2.35	0.61
4:DE:14:ILE:O	4:DE:15:PHE:CB	2.47	0.61
23:AZ:86:SER:H	23:AZ:87:PRO:HD3	1.65	0.61
7:DH:6:ARG:NE	7:DH:54:ARG:HH12	1.99	0.61
21:AV:6:LYS:HB3	21:AV:8:TYR:HE2	1.64	0.61
55:DA:254:G:O6	30:D8:5:LYS:HG2	1.99	0.61
1:AA:95:G:H1'	24:AW:47:ASN:OD1	2.00	0.61
54:CA:690:G:H22	41:CN:55:LYS:HZ3	1.46	0.61
48:BU:53:ARG:HA	48:BU:56:THR:OG1	2.00	0.61
31:BA:1181:G:C4	31:BA:1182:G:N2	2.68	0.61
55:DA:1718:G:C3'	55:DA:1725:G:H5''	2.30	0.61
34:CG:199:ASN:OD1	34:CG:201:GLN:HB3	2.01	0.61
23:DZ:56:GLN:N	23:DZ:56:GLN:NE2	2.45	0.61
7:AH:118:PRO:HG2	7:AH:121:ILE:HG13	1.83	0.61
7:AH:137:ASP:OD2	7:AH:140:LYS:HE2	2.00	0.61
42:CO:28:LYS:HD2	42:CO:30:ALA:HB2	1.82	0.61
1:AA:443:A:H1'	1:AA:1201:C:O4'	2.01	0.61
1:AA:2562:U:H1'	10:AN:23:ARG:HH12	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:528:A:H8	1:AA:528:A:H3'	1.64	0.61
55:DA:943:U:OP2	11:DO:36:LYS:CE	2.48	0.61
46:BS:43:LYS:HA	46:BS:48:TRP:CB	2.31	0.61
1:AA:118:A:OP2	1:AA:119:A:H5''	1.99	0.61
55:DA:2723:C:OP1	13:D0:3:HIS:CD2	2.52	0.61
14:AQ:106:ARG:HA	14:AQ:110:LEU:CG	2.29	0.61
6:AG:173:LEU:O	6:AG:178:PHE:HB2	2.00	0.61
54:CA:511:C:O2'	54:CA:512:U:O5'	2.19	0.61
1:AA:2228:G:H2'	1:AA:2229:C:H6	1.64	0.61
5:DF:133:ASN:O	5:DF:135:LYS:N	2.32	0.61
55:DA:1693:U:O2'	3:DD:14:ARG:NH2	2.27	0.61
56:DJ:16:THR:OG1	56:DJ:17:VAL:N	2.30	0.61
58:DL:53:VAL:CA	58:DL:72:PRO:HB2	2.30	0.61
21:AV:114:GLY:O	21:AV:116:VAL:N	2.33	0.61
12:AP:42:ILE:HD11	12:AP:127:ILE:HD11	1.82	0.61
21:DV:108:PRO:O	21:DV:109:ALA:HB3	1.99	0.61
3:DD:131:LEU:HB2	3:DD:136:ILE:HD11	1.83	0.61
44:CQ:24:CYS:HB2	44:CQ:39:LEU:C	2.21	0.61
55:DA:2348:U:H4'	28:D6:42:TRP:CD1	2.35	0.61
1:AA:2611:U:O2	27:A5:3:LYS:HE2	2.00	0.61
9:DM:58:ASP:N	9:DM:60:ILE:HD11	2.15	0.61
52:CD:15:G:N1	52:CD:48:C:N4	2.48	0.61
55:DA:2112:G:N1	55:DA:2169:A:N6	2.47	0.61
16:D1:91:ASP:O	16:D1:92:ARG:C	2.38	0.61
17:D2:41:GLY:HA3	17:D2:46:VAL:CG1	2.31	0.61
31:BA:794:A:H2'	31:BA:795:C:H6	1.64	0.61
55:DA:890:A:H2'	55:DA:892:G:O4'	2.00	0.61
5:AF:27:GLU:O	5:AF:28:ILE:HG13	2.01	0.61
1:AA:654(C):G:C3'	1:AA:654(D):G:H8	2.12	0.61
32:BE:59:GLU:HA	32:BE:221:LEU:HD13	1.82	0.61
1:AA:2012:G:H5''	18:AS:96:ILE:HD11	1.82	0.61
31:BA:1160:G:C6	31:BA:1177:G:N2	2.67	0.61
54:CA:1541:U:O2	53:C1:32:A:C6	2.53	0.61
42:BO:33:ARG:O	42:BO:85:ILE:HG22	1.99	0.61
55:DA:1111:A:O2'	55:DA:1112:G:C4'	2.46	0.61
55:DA:1113:U:H5'	7:DH:2:SER:HB2	1.81	0.61
44:BQ:47:LEU:HA	44:BQ:50:LYS:HB2	1.81	0.61
11:AO:11:GLY:O	11:AO:12:ALA:HB3	2.01	0.61
40:BM:51:ARG:HB2	40:BM:60:ARG:HA	1.82	0.61
55:DA:704:G:H2'	55:DA:726:G:N2	2.12	0.61
4:DE:1:MET:HG2	4:DE:83:ASP:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:70:G:H21	55:DA:71:A:H62	1.48	0.61
55:DA:2162:G:H4'	55:DA:2173:A:OP2	1.99	0.61
38:BK:97:VAL:HG21	38:BK:128:GLY:HA2	1.83	0.61
1:AA:2173:A:N3	1:AA:2173:A:H2'	2.15	0.61
1:AA:1494:A:H2'	1:AA:1495:A:C8	2.35	0.61
55:DA:2258:C:O2'	55:DA:2427:C:OP2	2.17	0.61
32:BE:166:ASP:OD1	32:BE:169:LYS:HB2	2.00	0.61
1:AA:2331:G:O2'	22:A3:43:THR:HG22	2.00	0.61
40:CM:63:PHE:HD1	44:CQ:58:LYS:HA	1.66	0.61
55:DA:2021:C:H5''	55:DA:2022:U:OP2	2.00	0.61
30:A8:46:ARG:HB2	30:A8:46:ARG:HH11	1.65	0.61
4:AE:8:LYS:HB3	4:AE:193:GLY:H	1.66	0.61
15:AR:8:LYS:HA	15:AR:11:GLU:OE1	2.01	0.61
56:DJ:21:LYS:C	56:DJ:23:LEU:H	2.03	0.61
57:DY:28:ASN:HB2	57:DY:81:VAL:O	2.01	0.61
57:DY:8:GLU:OE1	57:DY:8:GLU:HA	2.00	0.61
26:A4:56:VAL:HG21	49:BV:64:GLU:OE2	1.99	0.61
31:BA:1365:G:H2'	31:BA:1366:C:H6	1.65	0.61
15:AR:26:ASP:CB	15:AR:91:ARG:HA	2.31	0.61
13:D0:24:GLN:NE2	13:D0:36:THR:HG21	2.16	0.61
54:CA:1007:C:C3'	54:CA:1008:C:H5''	2.29	0.61
4:DE:21:VAL:HB	4:DE:22:PRO:CA	2.30	0.61
4:AE:57:LYS:NZ	4:AE:72:VAL:HG22	2.15	0.61
7:DH:132:ARG:HB2	7:DH:132:ARG:HH11	1.64	0.61
1:AA:1111:A:C4'	7:AH:3:ARG:HD3	2.29	0.61
55:DA:2760:C:O2'	55:DA:2761:G:H5''	1.99	0.61
21:AV:63:ASP:O	21:AV:63:ASP:CG	2.38	0.61
21:AV:67:LEU:HD22	21:AV:90:VAL:HG13	1.83	0.61
55:DA:1292:U:H2'	55:DA:1293:C:C6	2.36	0.61
24:AW:50:ILE:HD12	24:AW:51:ARG:N	2.10	0.61
55:DA:1906:G:C6	55:DA:1929:G:N2	2.67	0.61
55:DA:857:C:H1'	22:D3:26:TYR:CE2	2.36	0.61
2:DB:31:C:O2	2:DB:31:C:H2'	2.00	0.61
40:BM:63:PHE:HB3	44:BQ:57:ARG:O	2.00	0.61
27:A5:40:LYS:HZ2	27:A5:46:CYS:N	1.98	0.61
1:AA:2129:C:H2'	1:AA:2130:U:C5'	2.30	0.61
4:AE:119:ARG:HG2	4:AE:160:TYR:HB2	1.82	0.61
45:BR:39:LEU:CD1	45:BR:56:LEU:HB2	2.29	0.61
1:AA:531:C:H5''	1:AA:532:A:O4'	1.99	0.61
1:AA:2315:G:H2'	1:AA:2316:C:C6	2.35	0.61
6:DG:21:ARG:HG2	6:DG:21:ARG:NH1	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:237:GLU:OE2	3:DD:237:GLU:CA	2.48	0.61
3:AD:186:HIS:HD2	3:AD:188:GLU:HB2	1.65	0.61
32:BE:178:ARG:HH22	32:BE:196:LEU:C	2.04	0.61
18:AS:5:ALA:HB2	18:AS:54:ALA:HA	1.83	0.61
2:DB:25:A:C2	2:DB:26:A:H1'	2.35	0.61
54:CA:939:G:H5''	37:CJ:102:ARG:NH2	2.14	0.61
34:CG:94:LEU:HA	34:CG:97:LEU:HD12	1.81	0.61
1:AA:2638:G:HO2'	1:AA:2639:A:H8	1.46	0.61
55:DA:1083:U:O5'	57:DY:47:ASN:OD1	2.17	0.61
57:DY:9:LEU:CG	57:DY:10:LEU:N	2.64	0.61
21:DV:194:PRO:CB	21:DV:196:VAL:HG11	2.31	0.61
49:BV:29:ARG:HG3	49:BV:48:THR:HG1	1.64	0.61
54:CA:531:U:H5''	54:CA:532:A:OP1	2.00	0.61
31:BA:66:G:OP2	31:BA:66:G:H8	1.83	0.61
20:DU:84:ARG:NH1	20:DU:97:ARG:HA	2.14	0.61
1:AA:2631:G:N3	1:AA:2810:A:H2	1.98	0.61
1:AA:2755:C:H4'	1:AA:2756:U:C5	2.25	0.61
52:CD:19:G:N2	55:DA:2112:G:H21	1.99	0.61
21:AV:67:LEU:HD23	21:AV:68:PRO:CD	2.25	0.61
21:AV:70:LEU:HB2	21:AV:91:LEU:HD21	1.82	0.61
1:AA:311:A:H1'	1:AA:332:A:C8	2.35	0.61
5:AF:192:LEU:HD21	5:AF:194:MET:CE	2.30	0.61
3:DD:44:ASN:HB3	3:DD:49:ILE:HA	1.81	0.61
20:AU:72:VAL:O	20:AU:73:ARG:HB2	2.00	0.61
1:AA:95:G:H4'	24:AW:46:GLN:HB3	1.83	0.61
31:BA:1176:A:N6	31:BA:1177:G:C6	2.69	0.61
31:BA:1248:A:C2'	39:BL:70:LYS:HZ1	2.12	0.61
7:DH:3:ARG:HE	7:DH:3:ARG:HA	1.66	0.61
6:AG:126:ASP:OD1	6:AG:130:ASN:HB2	2.01	0.61
31:BA:723:U:H3	31:BA:1537:U:HO2'	1.47	0.61
31:BA:687:A:N6	31:BA:703:G:H1'	2.15	0.61
55:DA:2531:A:H2	55:DA:2658:C:O2	1.84	0.61
54:CA:1238:A:H62	54:CA:1299:A:N6	1.99	0.61
55:DA:702:G:H5'	55:DA:702:G:H8	1.65	0.61
52:BC:39:U:H2'	52:BC:40:C:C6	2.34	0.61
1:AA:2329:G:H2'	1:AA:2330:G:C8	2.36	0.61
21:AV:11:GLU:CG	21:AV:12:GLY:H	2.13	0.61
55:DA:1728:G:C2	55:DA:1730:U:OP2	2.54	0.61
21:DV:102:LEU:O	21:DV:103:ARG:HD2	2.01	0.61
14:AQ:67:ARG:NH1	14:AQ:67:ARG:HB2	2.15	0.61
3:DD:263:ARG:CB	3:DD:263:ARG:HH11	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CM:91:PRO:HB2	40:CM:94:VAL:HB	1.80	0.61
31:BA:115:G:O2'	31:BA:116:A:OP2	2.15	0.61
41:BN:23:ALA:HB1	41:BN:88:GLY:H	1.66	0.61
54:CA:313:A:H2'	54:CA:314:C:C6	2.35	0.61
2:DB:116:G:H4'	14:DQ:54:LEU:HD12	1.82	0.61
55:DA:1085:A:C2'	55:DA:1086:A:N7	2.60	0.61
55:DA:1086:A:C4'	55:DA:1103:A:H61	2.12	0.61
58:DL:90:LYS:N	58:DL:91:PRO:CA	2.64	0.61
57:DY:101:PRO:CG	57:DY:102:LYS:N	2.63	0.61
57:DY:138:LEU:O	57:DY:139:VAL:CG1	2.44	0.61
1:AA:881:G:O3'	52:BB:19:G:N7	2.34	0.61
21:DV:191:VAL:HG12	21:DV:197:ILE:HG21	1.63	0.61
31:BA:1319:A:H5'	31:BA:1320:C:OP1	2.01	0.61
1:AA:1359:A:H5'	1:AA:1359:A:C8	2.35	0.61
1:AA:805:G:H4'	1:AA:806:C:OP2	2.00	0.61
16:A1:79:PHE:O	16:A1:79:PHE:HD2	1.83	0.61
16:A1:90:VAL:O	16:A1:92:ARG:N	2.33	0.61
34:BG:25:ARG:CB	34:BG:25:ARG:HH11	1.99	0.61
4:AE:61:ARG:C	4:AE:63:LEU:H	2.04	0.61
7:DH:89:ILE:HD13	7:DH:89:ILE:C	2.19	0.61
31:BA:281:G:H5''	31:BA:282:A:OP1	2.01	0.61
32:CE:75:LYS:HD3	32:CE:75:LYS:C	2.21	0.61
11:DO:140:ALA:O	11:DO:141:ALA:CB	2.49	0.61
52:BD:59:U:H2'	52:BD:60:U:H5'	1.82	0.61
21:DV:63:ASP:O	21:DV:65:GLN:HG2	2.01	0.61
20:AU:52:SER:H	20:AU:53:PRO:HD3	1.64	0.61
39:BL:37:PHE:HB3	39:BL:43:ALA:CB	2.31	0.61
11:AO:82:GLY:HA2	11:AO:113:LYS:O	2.00	0.61
33:BF:182:ILE:HG23	33:BF:202:ILE:O	2.01	0.61
33:BF:20:SER:O	44:BQ:54:PRO:HG3	2.01	0.61
3:DD:181:GLU:OE1	3:DD:270:ILE:HG23	2.00	0.61
55:DA:2175:C:C3'	55:DA:2176:A:H5''	2.31	0.61
55:DA:304:G:H2'	55:DA:305:U:C6	2.36	0.61
14:AQ:11:LYS:HD3	14:AQ:91:PRO:HD3	1.83	0.61
54:CA:1350:A:H2'	54:CA:1351:U:C6	2.36	0.61
32:BE:168:THR:HA	32:BE:171:ALA:HB2	1.82	0.61
31:BA:625:G:H2'	31:BA:626:U:H6	1.66	0.61
31:BA:1109:C:H2'	31:BA:1110:A:O4'	2.00	0.61
31:BA:668:G:O2'	45:BR:46:HIS:HD2	1.83	0.61
54:CA:328:C:H2'	54:CA:328:C:O2	2.01	0.61
55:DA:1728:G:H5'	55:DA:1729:A:OP2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1391:U:H2'	31:BA:1392:G:C8	2.35	0.61
39:CL:62:TYR:C	39:CL:63:ILE:HD12	2.20	0.61
55:DA:270(O):U:H5''	55:DA:270(P):C:OP2	2.01	0.61
19:DT:29:TRP:CZ3	19:DT:78:LYS:HG3	2.35	0.61
55:DA:1085:A:H2'	55:DA:1086:A:H8	1.60	0.61
57:DY:47:ASN:O	57:DY:48:GLY:O	2.18	0.61
49:BV:62:ILE:HA	49:BV:66:MET:CE	2.31	0.61
28:A6:48:VAL:O	28:A6:49:HIS:HB2	1.99	0.61
54:CA:1205:U:H1'	33:CF:195:VAL:CG2	2.31	0.61
27:D5:55:ARG:HG3	27:D5:57:VAL:N	2.10	0.61
49:CV:41:VAL:CG1	49:CV:44:MET:HB2	2.28	0.61
55:DA:2378:A:H4'	14:DQ:23:ARG:NH1	2.15	0.61
7:DH:109:PHE:CZ	7:DH:152:ARG:HG2	2.36	0.61
45:CR:78:TYR:OH	45:CR:88:ARG:HG3	2.00	0.61
11:DO:126:VAL:HG12	11:DO:147:LEU:HD21	1.82	0.61
16:D1:91:ASP:OD2	16:D1:96:ALA:HB2	2.00	0.61
55:DA:1311:G:H21	55:DA:1603:A:H62	1.48	0.61
54:CA:1160:G:C6	54:CA:1177:G:N2	2.68	0.61
21:AV:4:ARG:NH1	21:AV:58:VAL:HG11	2.16	0.61
5:AF:4:VAL:HG11	5:AF:17:ARG:HE	1.66	0.61
1:AA:2571:C:C5'	1:AA:2572:A:H5''	2.30	0.61
9:AM:13:TRP:O	9:AM:135:PRO:HD2	2.00	0.61
55:DA:654(B):C:H2'	55:DA:654(C):G:C1'	2.30	0.61
1:AA:1826:G:C4'	3:AD:242:ARG:HH21	2.13	0.61
52:CD:72:C:C3'	52:CD:73:A:H5''	2.30	0.61
11:AO:107:LYS:O	11:AO:109:GLY:N	2.34	0.61
12:AP:133:ARG:O	12:AP:134:ARG:HB2	2.01	0.61
37:BJ:137:LYS:O	37:BJ:137:LYS:HE2	2.01	0.61
43:CP:110:ARG:O	43:CP:110:ARG:HG2	2.01	0.61
32:CE:66:GLY:O	32:CE:67:THR:HG23	2.01	0.61
6:AG:115:ARG:NH2	43:BP:7:VAL:HB	2.16	0.61
54:CA:1190:G:OP1	33:CF:4:LYS:HA	2.00	0.61
39:CL:114:TYR:CD2	39:CL:114:TYR:O	2.53	0.61
7:AH:122:THR:O	7:AH:133:VAL:HG13	2.01	0.61
7:AH:125:VAL:HG22	7:AH:126:PRO:CB	2.31	0.61
10:AN:23:ARG:HH11	10:AN:23:ARG:HG2	1.66	0.61
37:CJ:21:VAL:HG23	37:CJ:22:LEU:N	2.14	0.61
50:CW:13:LEU:CD1	50:CW:17:ARG:HH12	2.13	0.61
15:DR:94:ALA:O	15:DR:95:ARG:CB	2.49	0.61
55:DA:366:C:C5	55:DA:403:U:O2'	2.50	0.61
38:CK:111:ILE:HG22	38:CK:112:LEU:N	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BI:97:PHE:O	48:BU:31:LEU:HD23	2.01	0.61
45:CR:17:ARG:NH1	45:CR:77:ARG:NH1	2.48	0.61
14:DQ:49:VAL:HG21	14:DQ:77:ALA:HA	1.82	0.61
55:DA:1565:C:H5'	3:DD:18:VAL:HG11	1.83	0.61
3:DD:206:LEU:HA	3:DD:211:ARG:HH11	1.66	0.61
8:DK:41:GLU:CD	8:DK:41:GLU:H	2.04	0.61
1:AA:492:A:H2'	1:AA:493:G:O4'	2.00	0.61
37:BJ:86:GLN:HB2	37:BJ:148:ASN:OD1	2.01	0.61
55:DA:2062:A:H2'	55:DA:2062:A:N3	2.15	0.61
14:DQ:13:ARG:O	14:DQ:13:ARG:HD2	2.01	0.61
54:CA:85:U:O2'	54:CA:86:U:O5'	2.16	0.61
54:CA:89:U:C2'	54:CA:90:C:O5'	2.49	0.61
1:AA:1810:A:H2'	1:AA:1811:G:H5'	1.81	0.61
1:AA:1338:G:N3	1:AA:1393:A:H2	1.99	0.61
55:DA:1082:U:O3'	58:DL:117:THR:HG23	2.01	0.61
56:DI:3:LEU:HD21	56:DI:7:ARG:HD2	1.76	0.61
58:DL:53:VAL:HG12	58:DL:72:PRO:HB2	1.81	0.61
57:DY:31:GLY:O	57:DY:32:LEU:HD13	2.01	0.61
57:DY:41:ARG:O	57:DY:41:ARG:HD2	2.01	0.61
57:DY:71:LEU:CB	57:DY:112:LEU:C	2.61	0.61
28:A6:17:LYS:C	28:A6:19:ARG:H	2.04	0.61
1:AA:2404:C:H2'	1:AA:2405:G:O4'	2.01	0.61
1:AA:971:C:H2'	1:AA:972:G:H5'	1.81	0.61
54:CA:1205:U:H1'	33:CF:195:VAL:HG23	1.83	0.61
3:DD:25:THR:O	3:DD:27:THR:N	2.33	0.61
15:AR:96:ARG:CZ	15:AR:96:ARG:HB2	2.31	0.61
34:BG:21:LEU:CD1	34:BG:21:LEU:H	1.80	0.61
54:CA:1127:G:N2	54:CA:1145:C:C2	2.69	0.61
54:CA:1139:G:H5'	54:CA:1140:C:OP1	2.00	0.61
1:AA:2091:U:C3'	1:AA:2092:U:C5'	2.73	0.61
55:DA:1332:G:N2	55:DA:1609:A:C2'	2.58	0.61
31:BA:1348:U:H3	31:BA:1374:A:H2	1.49	0.61
9:AM:57:ALA:O	9:AM:60:ILE:HG13	2.01	0.61
1:AA:2656:U:O4	1:AA:2657:A:C5	2.54	0.61
32:BE:5:ILE:HD12	32:BE:59:GLU:HB2	1.83	0.61
31:BA:250:A:O2'	31:BA:251:G:OP2	2.16	0.61
4:AE:197:ILE:O	4:AE:197:ILE:HG13	2.00	0.61
5:DF:46:ARG:HG2	5:DF:46:ARG:NH1	2.11	0.61
31:BA:134:A:N6	46:BS:25:ARG:NH1	2.43	0.61
23:AZ:44:PRO:HG2	23:AZ:46:LEU:CD1	2.29	0.61
1:AA:851:U:C5'	25:AX:49:LYS:HD2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2030:A:H4'	1:AA:2031:A:C8	2.34	0.61
31:BA:1067:A:O2'	31:BA:1068:G:C8	2.50	0.61
55:DA:1050:A:H8	55:DA:2751:G:H2'	1.66	0.61
33:BF:35:GLU:HA	33:BF:38:ARG:CZ	2.30	0.61
42:CO:28:LYS:CE	42:CO:33:ARG:HH22	2.13	0.61
10:AN:88:ASN:OD1	10:AN:92:GLU:HB2	2.00	0.61
55:DA:2531:A:H61	55:DA:2662:A:H61	1.48	0.61
46:BS:70:ALA:O	46:BS:74:LEU:HD12	2.00	0.61
8:AK:76:THR:OG1	8:AK:77:LEU:N	2.33	0.61
5:AF:132:VAL:HG22	5:AF:133:ASN:N	2.16	0.61
12:DP:37:LEU:HD21	12:DP:130:LYS:HE3	1.81	0.61
5:DF:57:VAL:CG1	5:DF:58:ALA:N	2.64	0.61
32:BE:111:ARG:HH11	32:BE:111:ARG:HA	1.66	0.61
55:DA:1729:A:H2'	55:DA:1730:U:H5''	1.82	0.61
32:BE:78:GLN:CB	32:BE:94:ASN:HD21	2.14	0.61
3:DD:206:LEU:HA	3:DD:211:ARG:NH1	2.16	0.61
54:CA:781:A:OP1	54:CA:1523:G:H5'	2.00	0.61
5:AF:20:LEU:HD23	5:AF:21:ALA:N	2.15	0.61
10:DN:86:ILE:CG2	10:DN:94:ARG:HD2	2.30	0.61
55:DA:192:C:H2'	55:DA:193:U:H5'	1.81	0.61
1:AA:2648:C:H2'	1:AA:2649:U:C6	2.35	0.61
32:CE:24:TRP:CZ3	32:CE:26:PRO:HA	2.34	0.61
1:AA:2291:U:H2'	1:AA:2292:C:C6	2.35	0.61
55:DA:1105:U:H2'	55:DA:1106:G:H8	1.64	0.61
57:DY:35:LYS:HA	57:DY:35:LYS:CE	2.22	0.61
57:DY:87:VAL:O	57:DY:91:LYS:CB	2.46	0.61
52:BB:19:G:C1'	52:BB:57:G:N2	2.64	0.61
21:DV:193:GLU:N	21:DV:194:PRO:HD2	2.14	0.61
1:AA:864:G:H2'	1:AA:865:C:C6	2.36	0.61
55:DA:1794:U:H2'	55:DA:1795:C:H6	1.65	0.61
21:DV:105:VAL:O	21:DV:140:ASP:HA	2.01	0.61
3:DD:62:TYR:HA	3:DD:87:ASN:HD21	1.64	0.61
6:AG:104:GLU:HG2	26:A4:23:GLU:HG2	1.82	0.61
44:CQ:40:CYS:SG	44:CQ:43:CYS:N	2.68	0.61
4:DE:35:GLN:HG2	4:DE:37:ARG:HG2	1.83	0.61
8:AK:82:ARG:HG3	8:AK:146:ALA:H	1.65	0.61
1:AA:387:U:H6	1:AA:387:U:O5'	1.84	0.61
54:CA:399:G:H2'	54:CA:400:C:H6	1.66	0.61
1:AA:1928:A:O2'	1:AA:1929:G:H5''	2.00	0.61
34:BG:31:CYS:SG	34:BG:31:CYS:O	2.59	0.61
9:DM:39:ARG:HB3	9:DM:39:ARG:NH1	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2092:U:C6	1:AA:2092:U:H5''	2.36	0.61
55:DA:890:A:H8	55:DA:892:G:C8	2.19	0.61
20:AU:83:THR:HG21	20:AU:94:LYS:HG2	1.83	0.61
52:CB:74:C:O2'	52:CB:75:C:H5'	2.01	0.61
1:AA:2439:A:H8	1:AA:2439:A:H5'	1.65	0.61
1:AA:1099:G:H2'	1:AA:1100:C:C6	2.36	0.61
55:DA:859:G:O2'	55:DA:860:U:P	2.59	0.61
36:BI:8:ILE:HG21	36:BI:26:ILE:HD11	1.83	0.61
7:AH:127:GLU:OE1	7:AH:130:ARG:HB3	1.99	0.61
36:CI:99:ALA:HB3	48:CU:29:PHE:CE2	2.36	0.61
48:CU:43:PHE:CE2	48:CU:58:LEU:HD11	2.36	0.61
32:BE:231:GLU:HB3	32:BE:232:PRO:CD	2.29	0.61
29:A7:19:ARG:HG2	29:A7:19:ARG:NH1	2.10	0.61
2:AB:15:A:H5'	2:AB:16:G:C8	2.35	0.61
45:BR:82:ILE:O	45:BR:82:ILE:HD13	2.01	0.61
33:CF:101:LEU:HD23	33:CF:102:ASN:N	2.16	0.61
33:CF:99:VAL:O	33:CF:99:VAL:HG23	2.01	0.61
24:AW:13:ALA:HA	24:AW:16:LEU:HD21	1.83	0.61
1:AA:111:A:H4'	24:AW:69:ARG:NH2	2.16	0.61
1:AA:414:C:H1'	1:AA:1864:U:O2'	2.00	0.61
1:AA:1794:U:H2'	1:AA:1795:C:C6	2.35	0.61
23:DZ:80:LEU:O	23:DZ:80:LEU:HD22	2.00	0.61
18:AS:55:ALA:O	18:AS:58:ALA:HB3	2.01	0.61
19:DT:41:ASN:HD22	19:DT:41:ASN:H	1.47	0.61
54:CA:157:G:O2'	54:CA:158:G:H5'	2.01	0.61
45:BR:2:PRO:HG2	45:BR:3:ILE:H	1.66	0.61
1:AA:1275:A:H4'	1:AA:1276:A:O5'	1.99	0.61
55:DA:1060:U:C1'	55:DA:1061:U:H3'	2.31	0.60
58:DL:11:GLN:HA	58:DL:23:VAL:CG1	2.31	0.60
58:DL:59:ILE:CG2	58:DL:60:TYR:N	2.59	0.60
21:AV:175:VAL:HG22	21:AV:176:PRO:HD3	1.83	0.60
28:A6:24:GLU:OE1	28:A6:24:GLU:HA	1.99	0.60
1:AA:821:A:H2'	1:AA:946:G:H5''	1.82	0.60
1:AA:955:C:OP1	12:AP:13:GLN:HA	2.00	0.60
52:CB:19:G:HO2'	52:CB:20:U:P	2.22	0.60
54:CA:629:G:H5''	54:CA:630:G:O5'	2.01	0.60
49:CV:39:THR:HG22	49:CV:40:ILE:N	2.14	0.60
40:BM:33:GLN:HB2	40:BM:75:ILE:HG21	1.83	0.60
57:DY:141:VAL:CG2	57:DY:142:LEU:N	2.53	0.60
28:D6:28:ARG:HG3	28:D6:31:PRO:HD2	1.83	0.60
52:BB:74:C:C1'	52:BB:75:C:H5'	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BG:34:GLU:O	34:BG:35:ARG:HG3	2.01	0.60
54:CA:1400:C:H4'	54:CA:1401:G:OP2	2.00	0.60
18:DS:92:ARG:O	18:DS:93:ALA:HB3	2.01	0.60
9:DM:63:THR:HG22	9:DM:66:LYS:HZ2	1.66	0.60
16:D1:65:ILE:HG12	16:D1:96:ALA:HB1	1.82	0.60
54:CA:1158:C:N3	54:CA:1160:G:N7	2.49	0.60
55:DA:1535:U:C5	55:DA:1537:C:O2	2.54	0.60
32:BE:19:HIS:CE1	32:BE:204:ASN:HB3	2.34	0.60
46:CS:4:ILE:HD11	46:CS:64:ALA:CB	2.26	0.60
50:CW:101:GLY:O	50:CW:103:GLY:N	2.34	0.60
55:DA:1688:U:O2	55:DA:1700:A:H5''	2.01	0.60
1:AA:847:U:H2'	1:AA:848:G:H5''	1.83	0.60
9:AM:128:HIS:NE2	9:AM:134:ARG:HD2	2.16	0.60
11:AO:101:VAL:HA	11:AO:105:LEU:O	2.01	0.60
31:BA:973:G:H1'	40:BM:55:LYS:HG2	1.82	0.60
42:CO:62:SER:O	42:CO:64:TYR:HD1	1.83	0.60
11:DO:71:VAL:HG13	11:DO:72:PRO:CD	2.29	0.60
54:CA:370:C:O2'	54:CA:371:G:H5'	2.01	0.60
55:DA:273(F):C:H3'	55:DA:274:G:C5'	2.31	0.60
37:CJ:79:ARG:NH1	37:CJ:82:GLY:HA2	2.16	0.60
1:AA:878:A:N3	1:AA:878:A:H5'	2.16	0.60
31:BA:1540:U:H2'	31:BA:1541:U:O4'	2.01	0.60
31:BA:667:G:H4'	45:BR:51:HIS:ND1	2.16	0.60
1:AA:1181:C:O2'	1:AA:1182:A:H5'	2.01	0.60
54:CA:1371:G:OP1	39:CL:12:GLU:HB2	2.01	0.60
5:AF:51:THR:HG23	5:AF:92:PRO:HG2	1.83	0.60
38:CK:16:ALA:HB2	38:CK:24:THR:HG21	1.83	0.60
54:CA:726:C:O2'	54:CA:727:G:H5'	2.01	0.60
31:BA:748:C:O2'	31:BA:749:C:OP2	2.17	0.60
55:DA:636:G:OP1	11:DO:132:LYS:HB2	2.01	0.60
31:BA:119:A:O2'	31:BA:120:A:OP2	2.15	0.60
1:AA:2087:G:O2'	1:AA:2088:G:H5'	2.01	0.60
39:CL:41:VAL:O	39:CL:41:VAL:HG12	2.01	0.60
56:DI:20:LEU:O	56:DI:24:ILE:HG22	2.00	0.60
56:DI:24:ILE:HD13	56:DI:26:ALA:N	2.15	0.60
57:DY:116:ILE:O	57:DY:116:ILE:CG1	2.49	0.60
57:DY:35:LYS:CE	57:DY:35:LYS:CA	2.79	0.60
57:DY:93:LEU:HD13	57:DY:97:ALA:C	2.22	0.60
31:BA:1363:A:C4'	31:BA:1364:U:OP1	2.49	0.60
43:BP:79:LYS:HE2	43:BP:82:MET:HE1	1.82	0.60
12:AP:85:LYS:HG3	12:AP:86:GLY:N	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:877:U:H2'	55:DA:878:A:O5'	2.01	0.60
3:DD:34:VAL:C	3:DD:35:LYS:HG3	2.21	0.60
4:DE:26:ILE:HD13	4:DE:27:LEU:N	2.15	0.60
17:A2:14:VAL:CB	17:A2:96:ILE:HG13	2.28	0.60
32:CE:204:ASN:HD22	32:CE:205:ASP:N	1.99	0.60
31:BA:1024:G:N3	31:BA:1024:G:H3'	2.15	0.60
11:DO:113:LYS:HG2	11:DO:115:LEU:HD23	1.82	0.60
11:DO:122:PRO:CB	11:DO:141:ALA:HB1	2.25	0.60
18:DS:88:ARG:HH11	18:DS:88:ARG:HG2	1.66	0.60
52:CD:59:U:H3'	52:CD:60:U:H6	1.65	0.60
16:D1:96:ALA:C	16:D1:98:LEU:H	2.03	0.60
1:AA:309:G:O3'	20:AU:18:GLY:HA3	2.01	0.60
1:AA:2531:A:H61	1:AA:2662:A:H61	1.47	0.60
1:AA:2657:A:O2'	7:AH:160:LYS:HE3	2.01	0.60
55:DA:2060:A:O2'	55:DA:2061:G:P	2.59	0.60
55:DA:2060:A:HO2'	55:DA:2061:G:P	2.24	0.60
35:BH:51:VAL:O	35:BH:55:VAL:HG23	2.02	0.60
1:AA:1820:U:H2'	3:AD:158:ALA:O	2.00	0.60
1:AA:74:A:C5'	1:AA:75:G:O4'	2.49	0.60
39:BL:46:ALA:HA	39:BL:78:LYS:HB2	1.83	0.60
39:BL:82:ALA:HB1	39:BL:96:LEU:HD11	1.82	0.60
55:DA:917:A:H2'	55:DA:918:A:H5'	1.83	0.60
55:DA:775:G:O5'	55:DA:777:A:H1'	2.01	0.60
1:AA:1688:U:H5'	1:AA:1689:A:OP1	2.01	0.60
5:DF:127:GLU:OE1	5:DF:127:GLU:HA	2.01	0.60
36:CI:72:VAL:CG2	36:CI:90:VAL:HG11	2.30	0.60
47:BT:57:VAL:HG12	47:BT:76:LEU:HA	1.83	0.60
14:AQ:59:LYS:HG2	14:AQ:60:GLY:N	2.15	0.60
48:BU:50:ILE:CD1	48:BU:70:ILE:HG21	2.30	0.60
1:AA:1324:G:O2'	1:AA:1616:A:N7	2.28	0.60
31:BA:376:G:OP2	46:BS:67:THR:HG21	2.00	0.60
15:AR:95:ARG:HG3	15:AR:95:ARG:HH11	1.65	0.60
55:DA:784:A:C5	3:DD:229:VAL:HG21	2.36	0.60
1:AA:813:U:H2'	1:AA:814:C:H6	1.64	0.60
36:BI:77:ARG:HB3	36:BI:77:ARG:HH11	1.65	0.60
1:AA:414:C:H2'	1:AA:415:A:H8	1.66	0.60
31:BA:1410:G:H2'	31:BA:1411:C:H6	1.65	0.60
1:AA:2584:U:C5	1:AA:2585:U:C5	2.89	0.60
54:CA:186(A):C:H2'	54:CA:186(B):C:C6	2.35	0.60
31:BA:509:A:H5''	34:BG:55:ALA:HB2	1.82	0.60
46:CS:75:ARG:C	46:CS:77:ALA:H	2.04	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:65:TYR:HA	38:CK:79:VAL:HG23	1.82	0.60
55:DA:2688:U:C5	55:DA:2720:U:OP2	2.54	0.60
44:CQ:44:LEU:HD12	44:CQ:44:LEU:C	2.22	0.60
32:BE:67:THR:C	32:BE:68:ILE:HD12	2.22	0.60
32:CE:29:ALA:HA	32:CE:32:ILE:HG22	1.83	0.60
56:DJ:7:ARG:CG	56:DJ:7:ARG:NH1	2.62	0.60
58:DL:102:GLU:CG	58:DL:103:GLN:H	2.14	0.60
57:DY:131:MET:O	57:DY:133:GLU:HG3	2.02	0.60
57:DY:87:VAL:HG13	57:DY:91:LYS:HG3	1.82	0.60
2:AB:39:A:N1	26:A4:1:MET:HB3	2.16	0.60
54:CA:1330:U:H5'	54:CA:1331:G:OP2	2.01	0.60
43:CP:23:TYR:HE1	43:CP:70:LEU:HD12	1.64	0.60
55:DA:2518:A:H5''	55:DA:2519:U:OP2	2.01	0.60
57:DY:142:LEU:HD13	57:DY:143:GLN:CA	2.31	0.60
20:DU:97:ARG:HH21	20:DU:98:VAL:CB	2.08	0.60
9:DM:35:ARG:HD3	9:DM:37:LYS:HD2	1.84	0.60
31:BA:1126:U:H4'	31:BA:1127:G:C8	2.37	0.60
1:AA:2746:U:H5''	7:AH:138:LYS:HE3	1.83	0.60
1:AA:1252:G:N7	16:A1:36:ARG:NH1	2.49	0.60
52:BD:19:G:H4'	52:BD:57:G:H21	1.64	0.60
55:DA:1142(A):A:O2'	55:DA:1143:A:O5'	2.16	0.60
24:DW:15:LYS:H	24:DW:67:LYS:HE2	1.65	0.60
37:BJ:16:LEU:CD1	39:BL:42:ARG:HA	2.30	0.60
1:AA:85:G:OP1	20:AU:30:VAL:HG21	2.02	0.60
1:AA:84:A:H5''	20:AU:8:LYS:HG2	1.83	0.60
55:DA:1537:C:C5	55:DA:1538:G:C5	2.89	0.60
32:BE:54:THR:HB	32:BE:201:ILE:HD11	1.83	0.60
55:DA:2712:U:O2	55:DA:2712:U:H5''	2.01	0.60
1:AA:620:G:H4'	1:AA:621:A:C5'	2.31	0.60
1:AA:627:A:O2'	1:AA:628:G:C8	2.54	0.60
35:BH:76:ILE:CG2	35:BH:77:PRO:HD2	2.29	0.60
42:BO:25:PRO:HD2	42:BO:98:TYR:OH	2.01	0.60
55:DA:686:G:H21	55:DA:788:A:H61	1.49	0.60
34:CG:150:GLU:O	34:CG:152:SER:N	2.34	0.60
31:BA:716:A:N3	41:BN:117:ASN:O	2.35	0.60
8:DK:93:THR:O	8:DK:96:ASP:HB2	2.01	0.60
35:CH:32:VAL:HG23	35:CH:58:ALA:HB1	1.82	0.60
54:CA:50:A:O2'	54:CA:51:A:P	2.59	0.60
34:CG:129:ASN:HA	34:CG:145:GLU:CB	2.31	0.60
1:AA:2734:A:H5'	1:AA:2735:G:OP2	2.01	0.60
39:CL:53:VAL:O	39:CL:54:ASP:HB2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:DP:110:THR:HB	12:DP:112:GLU:OE2	2.02	0.60
54:CA:657:G:O2'	54:CA:658:G:H5'	2.01	0.60
55:DA:752:A:HO2'	55:DA:753:C:P	2.24	0.60
54:CA:245:C:O2	54:CA:283:C:N3	2.34	0.60
54:CA:1070:U:H2'	54:CA:1071:C:H6	1.65	0.60
1:AA:2219:G:H2'	1:AA:2224:G:H5'	1.83	0.60
52:BB:5:G:H2'	52:BB:6:G:H8	1.65	0.60
31:BA:857:C:H2'	31:BA:858:G:O4'	2.02	0.60
55:DA:654(F):C:C2'	55:DA:654(G):C:OP1	2.48	0.60
31:BA:347:G:O2'	31:BA:348:G:H5'	2.00	0.60
55:DA:1059:G:OP2	55:DA:1060:U:H3'	2.01	0.60
55:DA:1071:G:H5'	55:DA:1088:A:O2'	2.00	0.60
55:DA:1092:C:H2'	55:DA:1093:G:O4'	2.01	0.60
56:DI:4:ASP:OD2	56:DI:5:ILE:HD12	2.02	0.60
58:DL:3:LYS:C	58:DL:4:VAL:HG23	2.22	0.60
57:DY:27:VAL:CG1	57:DY:110:GLY:HA3	2.19	0.60
57:DY:71:LEU:CA	57:DY:113:GLN:CB	2.69	0.60
21:AV:107:THR:N	21:AV:108:PRO:CD	2.52	0.60
31:BA:1321:C:C3'	31:BA:1322:C:H5''	2.32	0.60
44:BQ:15:LYS:NZ	44:BQ:16:PHE:H	1.98	0.60
51:BX:8:THR:O	51:BX:12:LYS:HB2	2.02	0.60
54:CA:1305:G:H22	54:CA:1331:G:C2'	2.02	0.60
26:D4:61:ARG:HA	26:D4:64:GLY:H	1.64	0.60
40:BM:6:ILE:HG22	40:BM:98:ILE:HA	1.84	0.60
28:D6:11:LEU:HG	28:D6:51:GLU:OE2	2.01	0.60
7:AH:20:ALA:CB	7:AH:23:ARG:HE	2.13	0.60
32:CE:4:GLU:O	32:CE:5:ILE:HG23	2.00	0.60
10:AN:11:ALA:HB1	10:AN:99:PHE:O	2.01	0.60
55:DA:1538:G:O2'	55:DA:1539:G:H5'	2.01	0.60
5:AF:114:VAL:HG21	5:AF:202:PHE:CE1	2.36	0.60
32:BE:17:PHE:CZ	32:BE:44:LEU:HA	2.36	0.60
30:D8:61:LEU:O	30:D8:62:LEU:HB2	2.01	0.60
1:AA:514:A:O2'	1:AA:515:A:H5'	2.01	0.60
53:B1:36:G:C3'	53:B1:37:G:H5''	2.31	0.60
31:BA:1174:G:H2'	31:BA:1175:G:C8	2.36	0.60
21:AV:122:ARG:HH11	21:AV:122:ARG:HG2	1.66	0.60
35:BH:75:THR:HG23	35:BH:76:ILE:N	2.17	0.60
42:BO:25:PRO:C	42:BO:27:LEU:H	2.03	0.60
33:BF:129:ALA:CB	33:BF:132:ARG:HB3	2.30	0.60
21:AV:170:THR:O	21:AV:171:ILE:HB	2.02	0.60
1:AA:2296:U:C4'	1:AA:2297:C:OP1	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CU:53:ARG:NH2	48:CU:60:ALA:N	2.49	0.60
31:BA:820:U:C4'	31:BA:821:G:OP2	2.49	0.60
50:CW:13:LEU:HD12	50:CW:17:ARG:HH12	1.66	0.60
15:AR:95:ARG:HG3	15:AR:95:ARG:NH1	2.17	0.60
14:AQ:106:ARG:HB2	14:AQ:106:ARG:CZ	2.32	0.60
55:DA:548:A:H2'	55:DA:549:G:C5'	2.31	0.60
1:AA:2745:C:H4'	7:AH:142:GLY:O	2.02	0.60
24:DW:57:ILE:HG22	24:DW:61:LEU:HD12	1.83	0.60
4:AE:101:ARG:HD2	4:AE:169:ASN:O	2.01	0.60
55:DA:968:G:H2'	55:DA:969:U:C6	2.36	0.60
16:A1:16:LYS:O	16:A1:20:LEU:HD23	2.01	0.60
19:AT:30:VAL:HG12	19:AT:31:HIS:N	2.16	0.60
52:CC:50:U:O2'	52:CC:51:U:H5'	2.01	0.60
54:CA:662:G:O2'	54:CA:836:G:H5''	2.01	0.60
2:AB:78:A:H2'	2:AB:79:C:O4'	2.02	0.60
55:DA:2677:G:H2'	55:DA:2678:C:C6	2.36	0.60
34:CG:96:LEU:HD12	34:CG:139:ARG:CZ	2.32	0.60
36:BI:82:ARG:HG2	36:BI:82:ARG:HH11	1.67	0.60
14:AQ:49:VAL:HG21	14:AQ:77:ALA:HA	1.83	0.60
57:DY:73:GLY:HA2	57:DY:119:ALA:C	2.21	0.60
21:AV:175:VAL:HG22	21:AV:176:PRO:CD	2.32	0.60
55:DA:878:A:N3	55:DA:878:A:H5''	2.16	0.60
6:AG:104:GLU:HG2	26:A4:23:GLU:HG3	1.83	0.60
6:AG:171:ALA:O	6:AG:175:LEU:HG	2.01	0.60
55:DA:2875:C:H4'	15:DR:5:ALA:HB2	1.81	0.60
54:CA:39:G:N7	54:CA:547:A:C8	2.69	0.60
55:DA:2347:C:P	28:D6:39:TYR:HH	2.24	0.60
55:DA:630:G:OP2	30:D8:15:LYS:NZ	2.35	0.60
31:BA:1145:C:O2	31:BA:1145:C:H2'	2.02	0.60
55:DA:118:A:H5'	55:DA:119:A:H8	1.67	0.60
31:BA:1028(B):C:H3'	31:BA:1029:G:H5''	1.82	0.60
40:CM:48:THR:HA	40:CM:62:HIS:CB	2.20	0.60
19:AT:34:ALA:CB	19:AT:39:ILE:HD11	2.28	0.60
24:AW:24:LEU:HD21	24:AW:28:LYS:HE2	1.84	0.60
8:DK:60:GLU:HG3	8:DK:61:ARG:CZ	2.31	0.60
8:DK:74:ASN:ND2	8:DK:75:LEU:N	2.46	0.60
31:BA:531:U:C4'	31:BA:532:A:OP1	2.49	0.60
3:DD:10:THR:HG23	3:DD:13:ARG:HB3	1.84	0.60
36:CI:38:GLU:HB2	36:CI:64:GLN:O	2.02	0.60
54:CA:411:A:C5	54:CA:413:G:H1'	2.37	0.60
12:AP:52:VAL:O	12:AP:55:VAL:HG12	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1171:G:H3'	1:AA:1171:G:P	2.42	0.60
36:BI:91:VAL:HG11	48:BU:72:ARG:HH12	1.66	0.60
46:BS:1:MET:HE1	46:BS:65:GLN:HB2	1.84	0.60
11:AO:47:ASP:HB3	11:AO:48:PRO:CA	2.31	0.60
32:BE:101:MET:HE2	32:BE:108:ILE:HG21	1.83	0.60
1:AA:518:G:H4'	18:AS:18:ARG:HH11	1.66	0.60
31:BA:965:A:C4'	31:BA:966:G:OP1	2.48	0.60
55:DA:222:A:H3'	55:DA:421:U:H5''	1.83	0.60
54:CA:1293:G:H2'	54:CA:1294:G:C8	2.36	0.60
31:BA:115:G:H1'	31:BA:116:A:N7	2.16	0.60
21:DV:23:LYS:HE2	21:DV:40:ASP:OD2	2.01	0.60
1:AA:2707:G:H5''	13:A0:68:ARG:NH2	2.16	0.60
22:D3:27:GLU:HA	22:D3:67:VAL:HG12	1.83	0.60
1:AA:2820:A:N3	13:A0:4:LEU:HD23	2.16	0.60
56:DI:4:ASP:HA	56:DI:8:ILE:CG1	2.32	0.60
58:DL:20:ALA:HB3	58:DL:21:PRO:CD	2.31	0.60
57:DY:25:PHE:CD1	57:DY:82:PHE:CD1	2.82	0.60
21:AV:178:GLU:C	21:AV:180:VAL:N	2.55	0.60
55:DA:1075:C:H5''	21:DV:195:GLU:CD	2.22	0.60
33:BF:30:ARG:HD3	44:BQ:35:ARG:O	2.01	0.60
28:A6:9:LEU:HD22	28:A6:11:LEU:HD22	1.82	0.60
28:A6:25:LYS:NZ	28:A6:27:LYS:HD2	2.16	0.60
55:DA:894:C:H2'	55:DA:895:U:H6	1.65	0.60
55:DA:893:C:H3'	55:DA:894:C:H5	1.63	0.60
21:DV:178:GLU:C	21:DV:179:ASP:OD1	2.39	0.60
3:DD:130:ALA:C	3:DD:131:LEU:HD12	2.22	0.60
23:DZ:53:VAL:HB	23:DZ:58:ILE:HD12	1.82	0.60
20:DU:74:PRO:O	20:DU:80:GLY:HA2	2.01	0.60
54:CA:324:G:N2	54:CA:326:G:H3'	2.16	0.60
34:BG:24:GLU:H	34:BG:27:TYR:CB	2.14	0.60
34:BG:3:ARG:HB2	34:BG:3:ARG:NH2	2.16	0.60
31:BA:1023:G:H2'	31:BA:1024:G:OP1	2.01	0.60
13:D0:87:TYR:CE1	13:D0:118:GLU:HB3	2.36	0.60
43:CP:7:VAL:CB	6:DG:115:ARG:HH22	2.14	0.60
1:AA:1005:C:H2'	1:AA:1006:C:C6	2.37	0.60
9:AM:99:LEU:O	9:AM:103:VAL:HG23	2.02	0.60
7:DH:8:PRO:HG2	7:DH:69:ARG:HE	1.66	0.60
8:AK:98:ALA:HA	8:AK:109:ILE:HD11	1.83	0.60
31:BA:37:U:O2'	31:BA:38:G:H5'	2.01	0.60
20:AU:17:SER:HB2	20:AU:71:LYS:HD2	1.84	0.60
27:D5:33:CYS:HB2	27:D5:40:LYS:CD	2.23	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CW:96:GLY:O	50:CW:97:ALA:HB3	2.01	0.60
45:CR:54:ARG:HH11	45:CR:54:ARG:HG2	1.66	0.60
32:CE:122:PHE:HA	32:CE:139:LYS:NZ	2.17	0.60
48:BU:23:LYS:HD2	48:BU:23:LYS:C	2.22	0.60
18:AS:65:LEU:HD21	18:AS:67:ASP:OD2	2.01	0.60
24:AW:26:ARG:HB3	24:AW:26:ARG:HH11	1.67	0.60
55:DA:1309:G:H4'	29:D7:7:PRO:HB2	1.84	0.60
43:BP:67:GLU:HG3	43:BP:68:GLY:H	1.66	0.60
34:CG:25:ARG:NH1	34:CG:30:LYS:HG3	2.16	0.60
7:AH:117:PRO:HB3	7:AH:123:PHE:HE1	1.67	0.60
21:AV:80:ARG:O	21:AV:81:ARG:HG3	2.01	0.60
18:AS:88:ARG:NH1	18:AS:94:ASP:OD1	2.34	0.60
35:CH:33:VAL:HG12	35:CH:112:LEU:HD12	1.83	0.60
3:AD:134:ARG:HG3	3:AD:135:PHE:CE2	2.37	0.60
1:AA:1497:U:H5''	1:AA:1498:C:OP2	2.02	0.60
4:AE:111:ARG:HD2	4:AE:118:LYS:HE3	1.83	0.60
10:DN:104:ARG:HG2	10:DN:104:ARG:HH11	1.66	0.60
2:AB:12:C:H4'	2:AB:13:A:H5''	1.83	0.60
55:DA:386:G:H4'	55:DA:387:U:OP2	2.02	0.60
2:DB:77:U:P	21:DV:19:ARG:HH22	2.25	0.60
10:AN:69:ILE:HD12	10:AN:69:ILE:N	2.16	0.60
13:D0:38:VAL:HB	13:D0:39:PRO:HD3	1.83	0.60
55:DA:2165:G:N3	55:DA:2165:G:H2'	2.16	0.60
1:AA:2009:G:OP1	18:AS:41:LYS:HE3	2.02	0.60
31:BA:951:G:H1'	31:BA:970:C:O2'	2.01	0.60
54:CA:1170:A:H2'	54:CA:1171:G:O4'	2.02	0.60
37:CJ:26:PHE:O	37:CJ:30:ILE:HG12	2.01	0.60
2:DB:104:A:H2'	2:DB:105:G:O4'	2.01	0.60
39:BL:47:LEU:HD12	39:BL:47:LEU:N	2.17	0.60
19:DT:8:ILE:N	19:DT:8:ILE:HD12	2.17	0.60
16:D1:58:ARG:HA	16:D1:61:TRP:CE3	2.37	0.60
54:CA:1327:C:H2'	54:CA:1328:C:C6	2.36	0.60
55:DA:1077:A:N3	55:DA:1077:A:H2'	2.17	0.60
56:DI:24:ILE:O	56:DI:26:ALA:N	2.35	0.60
56:DJ:20:LEU:HA	56:DJ:23:LEU:HB3	1.84	0.60
56:DJ:25:ASP:O	56:DJ:29:GLU:OE1	2.19	0.60
57:DY:26:LEU:O	57:DY:111:LEU:N	2.30	0.60
21:DV:106:GLY:O	21:DV:107:THR:HG23	2.02	0.60
21:DV:175:VAL:HB	21:DV:176:PRO:CA	2.32	0.60
8:DK:133:HIS:CB	8:DK:134:PRO:HD2	2.31	0.60
21:DV:120:ILE:O	21:DV:171:ILE:HA	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:38:G:N3	54:CA:397:A:C2	2.70	0.60
11:AO:29:LYS:HD2	11:AO:30:THR:HG23	1.84	0.60
22:A3:5:LYS:HD2	52:BC:74:C:H5	1.65	0.60
9:DM:134:ARG:O	9:DM:136:GLU:N	2.35	0.60
20:AU:87:LYS:CB	20:AU:92:ASN:HB3	2.28	0.60
24:AW:10:LEU:O	24:AW:14:ARG:HB2	2.02	0.60
1:AA:654(F):C:C2'	1:AA:654(G):C:OP1	2.50	0.60
1:AA:1454:U:H1'	13:A0:60:LEU:HD11	1.83	0.60
15:AR:136:GLN:HG2	15:AR:136:GLN:O	2.01	0.60
23:AZ:53:VAL:HG22	23:AZ:74:VAL:HG13	1.84	0.60
31:BA:1158:C:C2	31:BA:1160:G:N7	2.69	0.60
31:BA:1176:A:C6	31:BA:1177:G:C5	2.89	0.60
34:CG:196:LEU:N	34:CG:196:LEU:HD12	2.12	0.60
7:DH:3:ARG:HA	7:DH:3:ARG:NE	2.17	0.60
55:DA:2665:A:O2'	55:DA:2666:C:H5'	2.01	0.60
18:AS:92:ARG:HH11	18:AS:92:ARG:HG2	1.66	0.60
32:BE:88:ALA:HB2	32:BE:219:VAL:HG23	1.84	0.60
1:AA:557:U:H2'	1:AA:558:G:H8	1.66	0.60
55:DA:2426:A:O2'	55:DA:2427:C:OP1	2.19	0.60
54:CA:279:A:H5''	54:CA:280:C:H3'	1.84	0.60
46:BS:5:ARG:NH2	46:BS:24:ALA:HA	2.16	0.60
1:AA:2867:G:HO2'	1:AA:2868:A:H8	1.46	0.60
3:AD:10:THR:HG23	3:AD:13:ARG:HB2	1.82	0.60
1:AA:2693:A:H2'	1:AA:2694:G:C8	2.37	0.60
47:BT:45:HIS:O	47:BT:73:VAL:HG12	2.02	0.60
42:BO:89:ARG:CG	42:BO:90:VAL:H	2.14	0.60
20:AU:56:PRO:HB2	20:AU:57:GLN:HE22	1.66	0.60
1:AA:2065:C:H2'	1:AA:2066:C:H6	1.66	0.60
1:AA:2581:G:H4'	1:AA:2582:G:N7	2.14	0.60
10:DN:36:GLY:HA3	10:DN:109:LYS:HG3	1.83	0.60
1:AA:2:G:O2'	1:AA:3:U:H5'	2.01	0.60
31:BA:73:G:H2'	31:BA:74:C:C6	2.36	0.60
55:DA:2053:G:H5'	4:DE:144:ARG:O	2.00	0.60
9:AM:89:LYS:NZ	9:AM:89:LYS:HB3	2.17	0.60
14:AQ:52:SER:O	14:AQ:56:LEU:CD2	2.49	0.60
55:DA:492:A:C2'	55:DA:493:G:H5'	2.32	0.60
31:BA:191(F):U:H5'	31:BA:191(F):U:H6	1.66	0.60
19:DT:67:GLY:O	19:DT:69:TYR:N	2.34	0.60
1:AA:2842:G:O2'	1:AA:2843:G:H5'	2.01	0.60
4:AE:11:MET:HA	4:AE:24:THR:HA	1.82	0.60
4:AE:27:LEU:HB2	4:AE:181:LEU:HD13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DI:9:LYS:O	56:DI:11:GLU:C	2.39	0.60
57:DY:29:TYR:CZ	57:DY:32:LEU:HD11	2.33	0.60
21:AV:146:ILE:HG23	21:AV:147:GLY:N	2.00	0.60
44:BQ:12:ARG:CZ	44:BQ:14:PRO:HG3	2.32	0.60
1:AA:2285:C:N4	28:A6:27:LYS:HE3	2.17	0.60
30:A8:32:LEU:CD2	30:A8:34:TRP:N	2.62	0.60
54:CA:74:C:O5'	54:CA:74:C:H6	1.85	0.60
26:A4:10:VAL:HG13	26:A4:11:PRO:HD2	1.82	0.60
40:BM:6:ILE:HA	40:BM:97:GLU:O	2.01	0.60
9:AM:38:HIS:ND1	9:AM:39:ARG:N	2.49	0.60
34:BG:20:TYR:HB3	34:BG:27:TYR:CE1	2.36	0.60
1:AA:2505:G:O2'	1:AA:2506:U:C6	2.55	0.60
54:CA:1129:C:C5'	54:CA:1130:A:H5'	2.32	0.60
55:DA:1332:G:N2	55:DA:1610:A:H8	2.00	0.60
21:AV:125:LEU:HG	21:AV:164:ALA:HB3	1.82	0.60
38:CK:6:ILE:HD12	38:CK:6:ILE:N	2.17	0.60
20:AU:86:ARG:HB3	20:AU:88:LYS:HZ1	1.67	0.60
7:AH:152:ARG:O	7:AH:153:LYS:HB2	2.01	0.60
31:BA:1380:U:H5''	31:BA:1381:U:OP1	2.01	0.60
55:DA:654(S):G:O3'	55:DA:654(T):A:H8	1.84	0.60
3:AD:91:ARG:O	3:AD:107:ALA:HB3	2.01	0.60
55:DA:774:A:H2	55:DA:787:U:O2'	1.84	0.60
1:AA:2050:C:H1'	4:AE:156:MET:CE	2.32	0.60
41:CN:79:SER:CB	41:CN:106:LYS:HD2	2.28	0.60
33:CF:180:ALA:O	33:CF:181:ASN:HB3	2.02	0.60
1:AA:752:A:C5	1:AA:1781:C:O4'	2.55	0.60
17:A2:20:LEU:O	17:A2:93:GLU:HA	2.02	0.60
10:DN:98:VAL:HG13	10:DN:117:LEU:HB2	1.82	0.60
34:CG:11:LEU:C	34:CG:13:ARG:H	2.05	0.60
1:AA:1248:G:C4	16:A1:3:ARG:HG3	2.37	0.60
40:CM:74:ILE:HD13	40:CM:74:ILE:N	2.17	0.60
10:DN:4:PRO:O	10:DN:5:GLN:CB	2.50	0.60
57:DY:115:GLN:CG	57:DY:115:GLN:O	2.50	0.60
1:AA:2035:G:H4'	1:AA:2036:C:OP2	2.02	0.60
55:DA:2848:G:O2'	55:DA:2849:U:O5'	2.19	0.60
38:CK:91:ARG:HH11	38:CK:91:ARG:CG	2.15	0.60
31:BA:8:A:O2'	35:BH:103:GLY:N	2.35	0.60
21:AV:154:ASP:O	21:AV:155:LEU:O	2.19	0.60
12:DP:108:GLY:O	12:DP:109:VAL:HG23	2.02	0.60
1:AA:932:G:H4'	1:AA:933:A:O5'	2.01	0.60
31:BA:965:A:O2'	31:BA:966:G:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DF:134:GLY:H	5:DF:162:LEU:HD22	1.65	0.60
31:BA:1085:U:H4'	31:BA:1086:U:OP1	2.01	0.60
54:CA:619:U:O2	34:CG:135:LEU:HD21	2.02	0.60
34:CG:135:LEU:H	34:CG:135:LEU:HD22	1.66	0.60
31:BA:926:G:N1	53:B1:45:U:H2'	2.16	0.60
55:DA:182:A:H2'	55:DA:183:C:O4'	2.01	0.60
55:DA:1299:G:H5''	55:DA:1300:U:OP1	2.01	0.60
57:DY:128:LEU:HA	57:DY:129:PRO:HB3	1.82	0.60
57:DY:96:PHE:O	57:DY:97:ALA:CB	2.50	0.60
43:BP:84:ILE:HG22	43:BP:85:GLY:H	1.66	0.60
1:AA:2494:G:OP1	22:A3:2:ALA:O	2.20	0.60
20:DU:47:LYS:C	20:DU:49:VAL:H	2.05	0.60
54:CA:1053:G:O6	54:CA:1199:U:H2'	2.02	0.60
54:CA:948:C:C5	43:CP:106:ASN:ND2	2.69	0.60
49:CV:86:GLU:OE2	49:CV:86:GLU:CA	2.48	0.60
4:DE:51:PHE:HD1	4:DE:52:LEU:CD1	2.14	0.60
1:AA:1008:C:N4	1:AA:1136:G:N1	2.50	0.60
4:AE:31:CYS:HB3	4:AE:49:LEU:HB3	1.82	0.60
1:AA:1111:A:O2'	1:AA:1112:G:H4'	2.02	0.60
32:CE:93:VAL:HG11	32:CE:97:TRP:HD1	1.66	0.60
55:DA:887:A:OP2	55:DA:887:A:O4'	2.19	0.60
20:AU:43:ASN:H	20:AU:43:ASN:HD22	1.49	0.60
20:AU:75:ILE:HB	20:AU:80:GLY:N	2.16	0.60
20:AU:9:LYS:O	20:AU:27:VAL:HG22	2.02	0.60
50:CW:98:PRO:O	50:CW:100:ILE:N	2.32	0.60
15:DR:102:ILE:HA	15:DR:105:LEU:HD21	1.83	0.60
53:B1:31:A:H2'	53:B1:32:A:C8	2.37	0.60
1:AA:2687:U:C4	1:AA:2688:U:C5	2.90	0.60
49:CV:15:LEU:H	49:CV:15:LEU:CD2	2.13	0.60
6:DG:131:TYR:HB3	6:DG:159:VAL:CG1	2.32	0.60
1:AA:1161:C:O2'	1:AA:1162:G:H5'	2.02	0.60
12:DP:20:ALA:HB1	12:DP:99:PRO:HB2	1.84	0.60
43:CP:116:THR:C	43:CP:117:VAL:CG1	2.70	0.60
55:DA:1735:C:C5'	55:DA:1735:C:H6	2.14	0.60
15:DR:16:ARG:HD3	15:DR:19:LEU:HG	1.82	0.60
15:DR:16:ARG:HH12	15:DR:81:PRO:HA	1.67	0.60
35:CH:11:ILE:HG13	35:CH:31:LEU:HD12	1.82	0.60
55:DA:2790:A:H2	55:DA:2894:G:C5'	2.13	0.60
4:AE:134:ILE:O	4:AE:134:ILE:HG12	2.01	0.60
1:AA:1286:A:C2'	1:AA:1288:U:OP2	2.49	0.60
33:CF:23:TYR:CG	33:CF:24:ALA:N	2.70	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AM:120:LEU:HD23	9:AM:120:LEU:C	2.21	0.60
33:CF:92:ALA:HB2	33:CF:99:VAL:HG22	1.84	0.60
15:DR:34:VAL:HG12	15:DR:35:LYS:N	2.16	0.60
25:DX:26:LEU:HD21	25:DX:46:ASN:HB2	1.84	0.60
31:BA:135:C:O2	46:BS:1:MET:HB3	2.01	0.60
31:BA:359:U:H2'	31:BA:360:A:C8	2.36	0.60
11:AO:42:SER:O	11:AO:43:GLY:C	2.40	0.60
21:DV:52:SER:O	21:DV:54:HIS:N	2.35	0.60
31:BA:327:A:O2'	31:BA:329:A:O4'	2.13	0.60
42:BO:18:VAL:O	42:BO:19:ARG:CB	2.50	0.60
54:CA:243:A:H4'	54:CA:244:U:H5''	1.83	0.60
6:DG:15:VAL:HG13	6:DG:175:LEU:HB2	1.84	0.60
34:CG:63:LYS:HD3	34:CG:197:PRO:O	2.01	0.60
36:BI:3:ARG:HH22	36:BI:36:ARG:HH22	1.50	0.60
24:AW:23:LYS:O	24:AW:27:GLU:HG3	2.02	0.60
5:DF:167:ALA:HB1	5:DF:173:VAL:HG11	1.83	0.60
2:DB:65:C:O2'	2:DB:66:A:H5'	2.02	0.60
56:DI:29:GLU:CA	56:DJ:2:ALA:CB	2.67	0.60
58:DL:57:ILE:HD12	58:DL:58:THR:O	2.02	0.60
58:DL:75:SER:O	58:DL:79:ARG:HD3	2.01	0.60
57:DY:23:SER:HB2	57:DY:67:GLY:O	2.02	0.60
28:A6:35:GLU:O	28:A6:36:LEU:HB2	2.02	0.60
12:AP:42:ILE:HD13	12:AP:97:VAL:CG2	2.32	0.60
32:CE:7:VAL:HG21	32:CE:217:ARG:HH11	1.65	0.60
54:CA:789:U:C2	54:CA:791:G:OP2	2.55	0.60
43:CP:81:LEU:O	43:CP:84:ILE:HG22	2.02	0.60
30:D8:54:GLU:O	30:D8:58:ILE:HG13	2.02	0.60
54:CA:1004:A:O4'	54:CA:1036:G:C6	2.55	0.60
21:DV:162:GLU:CG	21:DV:163:LEU:N	2.63	0.60
28:D6:44:ARG:O	28:D6:45:LYS:CB	2.50	0.60
1:AA:2312:U:O5'	1:AA:2312:U:H6	1.85	0.60
32:CE:17:PHE:CB	32:CE:44:LEU:HD11	2.32	0.60
24:DW:18:PRO:O	24:DW:21:LEU:HB2	2.01	0.60
6:DG:107:LEU:HD11	6:DG:178:PHE:CE1	2.37	0.60
54:CA:265:G:H2'	54:CA:267:C:H5	1.66	0.60
1:AA:1140:C:H5'	1:AA:1143:A:N6	2.17	0.60
55:DA:2312:U:O5'	55:DA:2312:U:H6	1.85	0.60
37:BJ:73:MET:HA	37:BJ:91:VAL:HG23	1.82	0.60
29:A7:47:ARG:H	29:A7:47:ARG:HH11	1.49	0.60
54:CA:703:G:O2'	54:CA:704:A:P	2.60	0.60
1:AA:846:C:H4'	1:AA:847:U:O5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CP:65:LYS:NZ	26:D4:52:THR:HB	2.17	0.60
55:DA:304:G:H2'	55:DA:305:U:H6	1.67	0.60
34:CG:59:ARG:NH2	34:CG:62:GLN:HG3	2.17	0.60
1:AA:363(C):G:H2'	1:AA:363(D):G:O4'	2.02	0.60
40:CM:27:ALA:HB3	40:CM:34:VAL:HG21	1.83	0.60
55:DA:2723:C:H5''	13:D0:1:MET:HG2	1.82	0.60
52:CB:5:G:H2'	52:CB:6:G:H8	1.67	0.60
5:AF:150:GLY:HA2	5:AF:172:TRP:CE3	2.37	0.60
1:AA:1579:A:H5'	1:AA:1579:A:H8	1.66	0.60
1:AA:2341:G:H2'	1:AA:2342:C:H6	1.67	0.60
34:CG:96:LEU:HD12	34:CG:139:ARG:NH1	2.17	0.60
14:AQ:49:VAL:HG12	14:AQ:73:LEU:HD22	1.84	0.60
35:BH:110:LEU:O	35:BH:115:VAL:HG22	2.02	0.60
21:DV:82:ARG:HH11	21:DV:82:ARG:HG2	1.66	0.60
14:DQ:42:ASP:O	14:DQ:43:GLU:HB2	1.99	0.60
55:DA:2023:G:H5'	55:DA:2617:C:H4'	1.84	0.60
35:CH:122:GLU:OE1	35:CH:131:ILE:HG13	2.01	0.60
55:DA:1838:C:H4'	55:DA:1839:G:C8	2.36	0.60
1:AA:1082:U:H3'	1:AA:1082:U:C6	2.37	0.60
26:A4:15:ILE:N	26:A4:15:ILE:HD12	2.16	0.60
11:DO:119:GLU:HA	11:DO:119:GLU:OE1	2.01	0.60
4:AE:25:VAL:HA	4:AE:182:LEU:O	2.02	0.59
58:DL:63:ARG:HD3	58:DL:64:SER:O	2.02	0.59
57:DY:128:LEU:HA	57:DY:129:PRO:CB	2.32	0.59
57:DY:71:LEU:C	57:DY:71:LEU:HD13	2.22	0.59
49:BV:40:ILE:CG2	49:BV:67:VAL:HA	2.31	0.59
11:AO:62:LEU:HD12	30:A8:27:THR:HG22	1.82	0.59
21:DV:105:VAL:HG13	21:DV:140:ASP:HB3	1.82	0.59
21:DV:111:VAL:HG22	21:DV:145:GLU:HA	1.83	0.59
3:DD:94:LEU:HD11	3:DD:96:HIS:CE1	2.37	0.59
54:CA:1004:A:O5'	54:CA:1036:G:O6	2.20	0.59
57:DY:141:VAL:CG2	57:DY:142:LEU:H	2.10	0.59
55:DA:481:G:O2'	55:DA:482:A:OP2	2.12	0.59
8:DK:95:LYS:CA	8:DK:111:PRO:HG3	2.27	0.59
28:D6:30:THR:N	28:D6:31:PRO:O	2.35	0.59
31:BA:411:A:H3'	31:BA:411:A:OP2	2.02	0.59
32:CE:194:PRO:O	32:CE:196:LEU:N	2.34	0.59
1:AA:2807:G:H3'	1:AA:2808:U:H5''	1.83	0.59
20:AU:42:VAL:HG22	20:AU:65:ALA:HB3	1.83	0.59
18:DS:15:ARG:HE	27:D5:20:ARG:CZ	2.15	0.59
20:AU:45:VAL:HA	20:AU:61:ILE:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1803:A:H4'	3:DD:259:THR:CG2	2.31	0.59
55:DA:1805:U:O2	3:DD:50:THR:HB	2.02	0.59
30:D8:29:LYS:HZ2	30:D8:44:LYS:HB2	1.65	0.59
8:DK:17:GLN:O	8:DK:18:VAL:HB	2.02	0.59
9:AM:15:LEU:HD13	9:AM:16:ILE:N	2.17	0.59
31:BA:939:G:H2'	31:BA:940:C:C6	2.37	0.59
31:BA:535:A:H5''	31:BA:536:C:OP2	2.02	0.59
55:DA:2751:G:N3	7:DH:3:ARG:HB3	2.17	0.59
7:AH:117:PRO:HB3	7:AH:123:PHE:CE1	2.37	0.59
7:AH:136:ILE:HD12	7:AH:136:ILE:N	2.17	0.59
50:BW:23:ARG:O	50:BW:26:ASN:ND2	2.34	0.59
1:AA:1829:A:C8	1:AA:1830:C:C6	2.90	0.59
52:BD:72:C:C2'	52:BD:73:A:H5''	2.30	0.59
1:AA:2712:U:O2'	1:AA:2712(A):A:H3'	2.01	0.59
54:CA:447:G:O6	54:CA:485:G:H2'	2.02	0.59
33:BF:77:ILE:O	33:BF:83:ARG:HB3	2.02	0.59
10:DN:1:MET:HE3	10:DN:67:LYS:HG2	1.83	0.59
22:A3:43:THR:O	22:A3:43:THR:HG23	2.01	0.59
24:AW:65:ASN:ND2	24:AW:69:ARG:HH21	1.99	0.59
19:DT:54:VAL:HG22	19:DT:81:VAL:HB	1.84	0.59
31:BA:628:G:O2'	31:BA:629:G:H5'	2.02	0.59
16:A1:5:LYS:HB2	16:A1:5:LYS:HZ2	1.67	0.59
31:BA:254:G:OP1	47:BT:67:LYS:O	2.19	0.59
58:DL:98:ARG:NH1	58:DL:98:ARG:N	2.50	0.59
3:DD:17:THR:CG2	3:DD:204:ILE:HA	2.32	0.59
38:BK:20:TYR:HD1	38:BK:65:TYR:CD2	2.19	0.59
55:DA:2726:U:O2'	55:DA:2727:G:H5'	2.02	0.59
35:CH:41:VAL:HG13	35:CH:113:ALA:HB2	1.83	0.59
1:AA:278:A:H2'	1:AA:279:C:H6	1.67	0.59
55:DA:2698:U:H2'	55:DA:2699:C:C6	2.37	0.59
1:AA:1316:U:O2'	1:AA:1317:A:H5'	2.02	0.59
57:DY:122:VAL:O	57:DY:125:LEU:N	2.36	0.59
57:DY:71:LEU:HA	57:DY:113:GLN:HA	1.83	0.59
1:AA:1373:A:C6	1:AA:1374:G:C4	2.90	0.59
52:CB:57:G:H4'	21:DV:182:LYS:HZ3	1.67	0.59
20:DU:47:LYS:HA	20:DU:60:PHE:HD1	1.67	0.59
54:CA:1319:A:H5'	54:CA:1320:C:OP1	2.03	0.59
55:DA:2377:A:H4'	14:DQ:111:GLU:O	2.02	0.59
1:AA:391:G:H2'	1:AA:392:C:H6	1.67	0.59
21:DV:139:VAL:HG22	21:DV:155:LEU:HD22	1.85	0.59
1:AA:1341:U:H5''	19:AT:57:LEU:HD22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:178:ARG:HH22	32:CE:196:LEU:C	2.05	0.59
7:DH:151:ILE:O	7:DH:151:ILE:HG22	2.02	0.59
52:CD:13:C:H2'	52:CD:14:A:H5'	1.83	0.59
52:CD:56:C:N3	55:DA:2112:G:N2	2.49	0.59
16:D1:108:GLU:CG	17:D2:44:LYS:HE3	2.33	0.59
17:D2:41:GLY:N	17:D2:46:VAL:HG13	2.17	0.59
22:D3:3:HIS:O	22:D3:4:LYS:CB	2.50	0.59
54:CA:265:G:H4'	47:CT:66:SER:HA	1.82	0.59
27:D5:40:LYS:NZ	27:D5:46:CYS:HB3	2.16	0.59
32:BE:12:GLU:HB3	32:BE:213:LEU:HD11	1.83	0.59
35:BH:78:HIS:HA	38:BK:105:ARG:HG3	1.84	0.59
42:BO:84:LEU:HD22	42:BO:85:ILE:O	2.01	0.59
32:CE:67:THR:C	32:CE:68:ILE:HD12	2.23	0.59
36:CI:99:ALA:HB1	48:CU:23:LYS:HZ2	1.64	0.59
48:CU:25:THR:O	48:CU:26:LEU:HD23	2.01	0.59
55:DA:2250:G:C5	12:DP:82:ARG:HD3	2.36	0.59
33:BF:90:GLU:O	33:BF:93:LYS:HB3	2.02	0.59
49:CV:24:ALA:C	49:CV:26:GLY:H	2.05	0.59
6:AG:147:ASP:HB3	43:BP:11:ARG:HH22	1.66	0.59
21:DV:20:ARG:NH1	21:DV:20:ARG:HG2	2.10	0.59
1:AA:559:G:H22	16:A1:49:HIS:CD2	2.20	0.59
4:DE:131:ALA:HB1	4:DE:135:HIS:CE1	2.36	0.59
31:BA:765:G:N2	31:BA:812:C:O2'	2.35	0.59
31:BA:324:G:N2	31:BA:326:G:H3'	2.16	0.59
55:DA:1151:G:H5''	16:D1:81:HIS:CE1	2.37	0.59
38:BK:29:SER:HB3	38:BK:32:LYS:HD2	1.82	0.59
31:BA:9:G:H2'	31:BA:10:A:C8	2.37	0.59
5:AF:21:ALA:C	5:AF:23:ASP:H	2.05	0.59
1:AA:2037:G:H2'	1:AA:2038:G:C8	2.37	0.59
55:DA:2823:A:OP1	4:DE:113:PHE:HB2	2.02	0.59
32:CE:16:HIS:HD2	32:CE:210:SER:HA	1.68	0.59
1:AA:220:G:O2'	1:AA:233:A:N3	2.28	0.59
52:CD:37:MIA:C11	52:CD:38:A:H1'	2.32	0.59
17:D2:45:THR:HG22	17:D2:45:THR:O	2.02	0.59
31:BA:757:U:H2'	31:BA:758:G:O4'	2.02	0.59
31:BA:164:U:H2'	31:BA:165:C:C6	2.37	0.59
34:CG:188:LEU:HD23	34:CG:189:PRO:HD2	1.85	0.59
58:DL:123:ALA:HA	58:DL:126:MET:SD	2.42	0.59
58:DL:95:LYS:H	58:DL:136:VAL:CG1	2.15	0.59
26:A4:63:TYR:CE2	49:BV:41:VAL:CA	2.85	0.59
49:CV:67:VAL:N	26:D4:59:PHE:HE1	1.97	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1363:A:C4'	54:CA:1364:U:H5''	2.24	0.59
5:AF:84:VAL:HG12	5:AF:85:GLY:N	2.16	0.59
31:BA:408:A:O3'	34:BG:24:GLU:CD	2.40	0.59
34:BG:112:VAL:HG22	34:BG:112:VAL:O	2.01	0.59
6:AG:81:LYS:O	6:AG:82:LEU:HB2	2.02	0.59
31:BA:1148:U:C2'	31:BA:1149:C:H5'	2.33	0.59
7:DH:152:ARG:HE	7:DH:153:LYS:HE3	1.65	0.59
35:BH:32:VAL:HG12	35:BH:33:VAL:H	1.65	0.59
23:AZ:86:SER:N	23:AZ:87:PRO:HD2	2.17	0.59
24:DW:43:GLN:O	24:DW:44:LEU:HG	2.02	0.59
21:AV:130:PRO:CA	21:AV:133:ILE:HD11	2.32	0.59
5:AF:155:LEU:CD2	5:AF:186:ILE:HD13	2.30	0.59
27:D5:4:HIS:CB	27:D5:5:PRO:CD	2.77	0.59
6:DG:67:LYS:O	6:DG:67:LYS:HD2	2.02	0.59
55:DA:1904:G:O2'	55:DA:1905:C:H5'	2.02	0.59
8:DK:2:LYS:HB3	8:DK:20:ASP:HB3	1.83	0.59
8:DK:38:LEU:HD12	8:DK:38:LEU:N	2.07	0.59
37:CJ:23:VAL:HG12	37:CJ:27:ILE:CD1	2.31	0.59
12:DP:68:ILE:HD13	12:DP:103:MET:HE3	1.83	0.59
12:DP:104:PHE:CE1	12:DP:125:LEU:HD11	2.35	0.59
44:CQ:15:LYS:HD2	44:CQ:16:PHE:CE2	2.37	0.59
43:CP:90:LEU:HD22	49:CV:78:ARG:NH2	2.12	0.59
5:DF:9:ILE:HD12	5:DF:123:LEU:CD2	2.32	0.59
31:BA:1492:A:H1'	53:B1:50:U:O2'	2.02	0.59
37:BJ:71:PRO:HD3	37:BJ:103:TRP:HZ3	1.67	0.59
55:DA:811:U:OP2	11:DO:21:ARG:O	2.21	0.59
31:BA:1067:A:H1'	31:BA:1068:G:C1'	2.31	0.59
3:DD:155:LEU:HD23	3:DD:177:LEU:HD22	1.85	0.59
1:AA:1914:C:H2'	1:AA:1915:U:O4'	2.02	0.59
46:BS:51:VAL:HG12	46:BS:52:ASP:N	2.17	0.59
37:CJ:16:LEU:HD12	39:CL:42:ARG:HA	1.85	0.59
54:CA:1299:A:C8	54:CA:1301:U:H1'	2.37	0.59
55:DA:2197:U:O2'	55:DA:2198:A:H8	1.85	0.59
35:BH:69:VAL:O	35:BH:71:LEU:HG	2.03	0.59
31:BA:1020:U:O2'	31:BA:1021:G:H5''	2.02	0.59
54:CA:261:U:C5	50:CW:79:ARG:NH1	2.69	0.59
41:BN:21:ILE:HD13	41:BN:94:ALA:CB	2.32	0.59
1:AA:671:C:H6	1:AA:671:C:H5'	1.67	0.59
54:CA:194:C:C2'	54:CA:195:A:H5''	2.32	0.59
55:DA:55:G:N3	55:DA:127:A:H2	1.99	0.59
55:DA:222:A:O2'	55:DA:223:A:P	2.59	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CV:14:HIS:HD2	49:CV:35:SER:HB2	1.67	0.59
3:DD:206:LEU:HA	3:DD:211:ARG:HG2	1.83	0.59
32:BE:142:LEU:HD23	32:BE:146:GLN:HB2	1.84	0.59
52:CB:68:C:H2'	52:CB:69:G:H8	1.67	0.59
31:BA:646:U:H2'	31:BA:647:C:H6	1.67	0.59
42:CO:51:ALA:O	42:CO:52:LEU:HG	2.02	0.59
54:CA:1262:C:H2'	54:CA:1263:C:C6	2.37	0.59
1:AA:1106:G:H2'	1:AA:1107:G:H8	1.66	0.59
52:CC:9:A:O2'	52:CC:10:G:N7	2.30	0.59
55:DA:278:A:O2'	55:DA:279:C:OP1	2.18	0.59
35:BH:12:LEU:HD23	35:BH:13:ILE:H	1.67	0.59
23:AZ:30:VAL:O	23:AZ:31:GLY:O	2.19	0.59
15:AR:36:GLU:O	15:AR:36:GLU:HG3	2.02	0.59
58:DL:93:ARG:C	58:DL:136:VAL:HG12	2.23	0.59
58:DL:66:THR:O	58:DL:67:PHE:HB2	2.03	0.59
57:DY:75:GLN:HB3	57:DY:110:GLY:C	2.21	0.59
1:AA:897:C:H2'	1:AA:898:C:C5'	2.32	0.59
26:A4:63:TYR:O	26:A4:63:TYR:CD2	2.56	0.59
31:BA:975:A:H4'	31:BA:1358:U:H1'	1.84	0.59
31:BA:947:G:H2'	31:BA:948:C:H6	1.67	0.59
49:BV:42:PRO:CA	49:BV:45:VAL:HG13	2.32	0.59
54:CA:630:G:O2'	54:CA:631:G:H5''	2.00	0.59
40:BM:98:ILE:HD12	40:BM:98:ILE:N	2.16	0.59
55:DA:498:G:H21	20:DU:47:LYS:NZ	1.99	0.59
55:DA:2786:U:O2'	4:DE:62:PRO:HA	2.01	0.59
9:AM:46:VAL:O	9:AM:47:ALA:HB3	2.02	0.59
20:DU:76:CYS:SG	20:DU:77:PRO:CD	2.79	0.59
1:AA:458:G:C1'	1:AA:459:U:C5	2.80	0.59
17:A2:77:ALA:C	17:A2:78:LYS:HG2	2.22	0.59
5:AF:68:LYS:HB3	5:AF:69:HIS:CD2	2.37	0.59
32:CE:200:ILE:HD12	32:CE:200:ILE:N	2.13	0.59
31:BA:1005:A:H5''	31:BA:1006:C:C6	2.37	0.59
55:DA:1021:A:C3'	55:DA:1021:A:C8	2.83	0.59
1:AA:483:A:H5'	20:AU:49:VAL:HG22	1.84	0.59
5:DF:102:PRO:O	5:DF:106:ARG:HG2	2.01	0.59
6:DG:38:VAL:HG22	6:DG:93:THR:HG23	1.84	0.59
55:DA:1558:A:H4'	55:DA:1559:G:O5'	2.02	0.59
48:BU:22:VAL:HG22	48:BU:23:LYS:H	1.67	0.59
8:DK:57:ARG:HA	8:DK:60:GLU:HB3	1.83	0.59
31:BA:973:G:H1'	40:BM:55:LYS:CD	2.31	0.59
37:BJ:21:VAL:HG23	37:BJ:22:LEU:H	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:501:C:H2'	31:BA:502:G:H8	1.67	0.59
34:CG:152:SER:HB3	34:CG:155:LEU:CD1	2.32	0.59
1:AA:467:G:OP1	29:A7:33:ARG:NH1	2.36	0.59
48:CU:20:ALA:O	48:CU:22:VAL:N	2.35	0.59
52:CD:2:C:C6	52:CD:2:C:H5'	2.32	0.59
8:AK:76:THR:C	8:AK:77:LEU:HD23	2.23	0.59
1:AA:1771:C:H1'	1:AA:1786:A:C8	2.38	0.59
54:CA:1300:G:O2'	54:CA:1301:U:P	2.61	0.59
38:CK:112:LEU:HD12	38:CK:114:THR:HG23	1.83	0.59
55:DA:1205:U:H4'	55:DA:1206:G:OP2	2.02	0.59
54:CA:1288:A:O4'	54:CA:1353:G:H4'	2.02	0.59
22:D3:43:THR:O	22:D3:43:THR:HG23	2.00	0.59
48:CU:50:ILE:H	48:CU:50:ILE:CD1	2.13	0.59
8:AK:10:GLU:OE2	8:AK:11:ASN:HB2	2.01	0.59
55:DA:2754:U:H5'	55:DA:2755:C:OP2	2.02	0.59
40:CM:96:ILE:HD13	40:CM:96:ILE:H	1.67	0.59
52:BB:5:G:O2'	52:BB:6:G:H5'	2.02	0.59
6:DG:10:LYS:O	6:DG:15:VAL:HG23	2.02	0.59
1:AA:426:C:O2'	1:AA:427:U:H5'	2.03	0.59
55:DA:95:G:H4'	24:DW:46:GLN:HB3	1.85	0.59
52:CB:37:MIA:HN6	52:CB:37:MIA:C16	2.15	0.59
54:CA:1379:G:O6	37:CJ:2:ALA:HB3	2.01	0.59
33:BF:75:VAL:HG12	33:BF:75:VAL:O	2.01	0.59
29:A7:49:ARG:HD3	29:A7:49:ARG:OXT	2.02	0.59
4:AE:13:ARG:HA	4:AE:21:VAL:O	2.02	0.59
58:DL:52:ILE:HD12	58:DL:53:VAL:H	1.66	0.59
57:DY:116:ILE:O	57:DY:116:ILE:HG13	2.02	0.59
57:DY:138:LEU:C	57:DY:140:GLY:N	2.56	0.59
1:AA:2459:A:C2	1:AA:2460:U:H1'	2.37	0.59
1:AA:919:G:H5'	2:AB:81:G:H1'	1.84	0.59
12:AP:127:ILE:HG22	12:AP:128:LYS:N	2.16	0.59
12:AP:14:ARG:HG2	12:AP:41:TRP:HH2	1.66	0.59
12:AP:89:ASN:O	12:AP:91:GLU:N	2.36	0.59
21:DV:117:LEU:CD1	21:DV:117:LEU:N	2.66	0.59
23:DZ:87:PRO:O	23:DZ:88:LYS:C	2.39	0.59
20:DU:53:PRO:O	20:DU:54:LYS:C	2.39	0.59
55:DA:2285:C:N4	28:D6:27:LYS:HE2	2.17	0.59
16:A1:108:GLU:OE1	17:A2:45:THR:HA	2.02	0.59
55:DA:524:U:H2'	55:DA:525:U:C6	2.37	0.59
1:AA:811:U:C4	11:AO:21:ARG:NH2	2.69	0.59
11:DO:96:THR:HG22	11:DO:126:VAL:HG23	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:DV:59:LEU:O	21:DV:61:LEU:N	2.35	0.59
54:CA:267:C:OP1	47:CT:67:LYS:HB2	2.02	0.59
1:AA:84:A:P	20:AU:8:LYS:HD3	2.42	0.59
1:AA:654(I):C:O2	1:AA:654(I):C:C2'	2.50	0.59
1:AA:607:U:O4	1:AA:608:A:C5	2.54	0.59
54:CA:1106:G:H2'	54:CA:1107:C:H6	1.66	0.59
22:D3:50:ASN:HB2	22:D3:81:VAL:HB	1.83	0.59
21:DV:27:VAL:HG12	21:DV:87:ASP:HB3	1.84	0.59
13:D0:9:LYS:O	13:D0:9:LYS:HG2	2.02	0.59
34:CG:119:GLN:NE2	34:CG:123:HIS:NE2	2.50	0.59
55:DA:1049:C:H1'	55:DA:1113:U:H4'	1.83	0.59
7:AH:26:VAL:HG13	7:AH:27:LYS:N	2.18	0.59
50:BW:70:SER:O	50:BW:73:HIS:HB2	2.03	0.59
14:AQ:11:LYS:HD2	14:AQ:15:ARG:HH21	1.67	0.59
31:BA:1285:A:O2'	31:BA:1286:A:OP2	2.18	0.59
51:BX:26:LYS:HZ3	51:BX:26:LYS:HA	1.65	0.59
31:BA:209:U:O2'	31:BA:210:U:P	2.60	0.59
14:AQ:10:ARG:O	14:AQ:12:PHE:N	2.35	0.59
43:BP:90:LEU:CD1	49:BV:78:ARG:HH21	2.14	0.59
10:DN:104:ARG:NH1	15:DR:36:GLU:HG3	2.17	0.59
54:CA:346:G:H4'	15:DR:41:ARG:NH1	2.17	0.59
55:DA:673:C:OP1	5:DF:54:ARG:HD2	2.02	0.59
39:CL:22:GLY:N	39:CL:58:HIS:O	2.33	0.59
55:DA:1204:A:O2'	55:DA:1205:U:C5'	2.51	0.59
22:D3:36:ILE:H	22:D3:36:ILE:HD13	1.66	0.59
55:DA:284:U:H2'	55:DA:285:C:H6	1.65	0.59
38:BK:88:LYS:HB3	38:BK:89:PRO:HD2	1.85	0.59
1:AA:2389:G:H5''	1:AA:2390:U:C5'	2.32	0.59
54:CA:1032:A:H3'	54:CA:1032(A):G:C4'	2.32	0.59
54:CA:913:A:H4'	54:CA:914:A:O5'	2.03	0.59
8:AK:8:PRO:HD3	8:AK:15:VAL:CG2	2.32	0.59
54:CA:245:C:O2'	54:CA:246:A:H5'	2.02	0.59
9:DM:30:ILE:HG22	9:DM:34:LEU:HD21	1.85	0.59
15:AR:74:ARG:CG	15:AR:74:ARG:HH11	2.16	0.59
31:BA:1390:U:H2'	31:BA:1391:U:C6	2.38	0.59
1:AA:1:G:H2'	1:AA:2:G:C8	2.38	0.59
6:DG:161:THR:HG22	6:DG:162:THR:N	2.17	0.59
15:AR:81:PRO:HD2	15:AR:82:LEU:HD12	1.84	0.59
5:DF:155:LEU:CD1	5:DF:174:VAL:HG22	2.33	0.59
55:DA:1030:G:OP2	12:DP:128:LYS:HE2	2.02	0.59
54:CA:135:C:H2'	54:CA:136:C:H5'	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:882:C:O2'	54:CA:883:C:H5'	2.03	0.59
1:AA:1817:G:OP1	3:AD:88:ARG:NH2	2.30	0.59
54:CA:968:A:H4'	54:CA:969:A:OP2	2.03	0.59
55:DA:1062:G:H1'	55:DA:1088:A:C6	2.37	0.59
56:DI:27:LEU:O	56:DI:29:GLU:HB2	2.02	0.59
55:DA:1077:A:C1'	58:DL:93:ARG:HH22	2.15	0.59
57:DY:29:TYR:CD2	57:DY:32:LEU:HD21	2.37	0.59
31:BA:1319:A:H2'	31:BA:1323:G:N7	2.18	0.59
49:BV:33:THR:OG1	49:BV:34:TRP:N	2.36	0.59
2:AB:81:G:C2	2:AB:82:G:C5	2.90	0.59
12:AP:78:PRO:O	12:AP:79:LEU:CB	2.50	0.59
55:DA:894:C:O5'	55:DA:894:C:H6	1.86	0.59
54:CA:971:G:N2	54:CA:1363:A:OP2	2.28	0.59
15:DR:27:THR:CG2	15:DR:90:GLN:HB3	2.27	0.59
57:DY:104:ILE:CB	57:DY:105:PRO:HD2	2.31	0.59
1:AA:1385:G:OP1	1:AA:1385:G:H4'	2.01	0.59
31:BA:426:G:H4'	34:BG:41:GLY:O	2.02	0.59
6:AG:77:ILE:O	6:AG:81:LYS:O	2.20	0.59
9:DM:115:ARG:O	9:DM:118:LYS:HB2	2.02	0.59
32:BE:211:ILE:O	32:BE:215:LEU:HD23	2.02	0.59
55:DA:228:A:C2'	55:DA:229:A:OP1	2.51	0.59
19:AT:63:LYS:HE3	19:AT:63:LYS:N	2.11	0.59
1:AA:1970:A:C5'	1:AA:1971:A:OP1	2.51	0.59
34:CG:117:ALA:O	34:CG:121:VAL:HG23	2.02	0.59
31:BA:1158:C:O2'	32:BE:133:LYS:HE2	2.02	0.59
50:BW:100:ILE:HD12	50:BW:100:ILE:N	2.18	0.59
33:BF:129:ALA:HB3	33:BF:132:ARG:HB3	1.85	0.59
37:BJ:21:VAL:HG23	37:BJ:22:LEU:N	2.17	0.59
1:AA:2319:G:H1'	1:AA:2320:A:C4	2.38	0.59
11:DO:19:VAL:HG22	11:DO:20:GLY:H	1.67	0.59
54:CA:1323:G:H2'	54:CA:1324:A:H8	1.65	0.59
6:AG:115:ARG:CB	43:BP:7:VAL:HG11	2.31	0.59
33:CF:13:GLY:HA3	44:CQ:57:ARG:NE	2.16	0.59
12:AP:25:ASP:OD1	12:AP:102:VAL:HB	2.02	0.59
17:A2:64:HIS:HD2	17:A2:92:THR:HA	1.66	0.59
55:DA:2654:A:N9	55:DA:2656:U:O2	2.36	0.59
55:DA:2656:U:C5	55:DA:2664:G:N2	2.70	0.59
35:CH:10:MET:SD	35:CH:13:ILE:HD11	2.43	0.59
49:CV:81:ARG:HG2	49:CV:82:GLY:N	2.17	0.59
31:BA:559:A:H4'	31:BA:560:U:C5'	2.31	0.59
54:CA:992:U:O2'	54:CA:993:G:OP2	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BC:44:G:H3'	52:BC:45:U:C6	2.38	0.59
50:CW:17:ARG:HH11	50:CW:17:ARG:HG3	1.68	0.59
18:DS:52:GLU:O	18:DS:55:ALA:HB3	2.03	0.59
1:AA:2376:A:H2	14:AQ:112:PHE:HB2	1.67	0.59
22:A3:27:GLU:OE1	22:A3:69:PHE:HB2	2.02	0.59
50:BW:38:LYS:O	50:BW:41:ILE:HG12	2.02	0.59
19:DT:40:LYS:HG3	19:DT:51:VAL:HB	1.84	0.59
31:BA:538:G:H3'	42:BO:115:LYS:NZ	2.17	0.59
58:DL:146:ASP:O	58:DL:147:ALA:CB	2.51	0.59
38:CK:64:LYS:HG2	38:CK:79:VAL:HG21	1.85	0.59
54:CA:881:G:P	42:CO:12:ARG:HH22	2.25	0.59
55:DA:458:G:O2'	55:DA:459:U:OP2	2.21	0.59
23:AZ:19:GLN:HB2	23:AZ:35:THR:O	2.02	0.59
31:BA:1229:A:H2'	31:BA:1230:C:C6	2.38	0.59
7:DH:42:ARG:HG2	7:DH:42:ARG:HH11	1.67	0.59
7:DH:60:ARG:HG2	7:DH:60:ARG:HH11	1.68	0.59
58:DL:101:TRP:C	58:DL:104:VAL:HB	2.23	0.59
58:DL:63:ARG:HE	58:DL:63:ARG:C	2.06	0.59
57:DY:123:GLU:O	57:DY:127:GLU:HB2	2.01	0.59
43:CP:124:PRO:CB	43:CP:125:ARG:CA	2.81	0.59
11:AO:59:LEU:O	11:AO:61:ARG:HG2	2.03	0.59
1:AA:914:C:C2'	1:AA:915:C:H5'	2.28	0.59
2:AB:81:G:H5'	2:AB:82:G:OP2	2.02	0.59
52:CB:57:G:H5''	21:DV:182:LYS:CE	2.32	0.59
21:DV:176:PRO:O	21:DV:177:PRO:C	2.39	0.59
1:AA:1379:A:C2'	1:AA:1380:G:OP1	2.50	0.59
4:DE:41:LYS:HE2	4:DE:41:LYS:HA	1.82	0.59
28:D6:17:LYS:O	28:D6:18:ARG:HB2	2.02	0.59
20:DU:81:LYS:NZ	20:DU:98:VAL:HG11	2.17	0.59
55:DA:2701:C:H3'	55:DA:2702:U:C5'	2.19	0.59
32:CE:178:ARG:HD2	38:CK:71:GLY:C	2.23	0.59
17:A2:87:HIS:HD1	17:A2:88:ARG:N	2.01	0.59
1:AA:2748:A:H3'	1:AA:2748:A:N3	2.18	0.59
40:CM:6:ILE:CG2	40:CM:98:ILE:HG13	2.33	0.59
32:CE:188:ALA:O	32:CE:202:PRO:HA	2.03	0.59
11:DO:115:LEU:CB	11:DO:131:SER:HB2	2.33	0.59
21:DV:6:LYS:O	21:DV:7:ALA:HB2	2.02	0.59
23:AZ:92:LYS:NZ	23:AZ:97:LEU:HG	2.16	0.59
37:BJ:15:ASP:OD2	37:BJ:16:LEU:N	2.34	0.59
1:AA:654(C):G:H2'	1:AA:654(D):G:C1'	2.33	0.59
32:BE:207:ALA:O	32:BE:211:ILE:HG13	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:142:G:C1'	19:AT:37:THR:HG21	2.32	0.59
33:BF:164:ARG:NE	53:B1:55:U:O4	2.36	0.59
34:CG:98:GLU:OE1	34:CG:194:LEU:HD21	2.03	0.59
31:BA:1112:C:C4	33:BF:178:LEU:HD23	2.38	0.59
33:CF:6:HIS:ND1	44:CQ:49:HIS:HB3	2.18	0.59
2:DB:95:U:C3'	2:DB:95:U:C6	2.86	0.59
42:CO:28:LYS:O	42:CO:29:GLY:C	2.40	0.59
13:D0:67:LEU:HD12	13:D0:76:VAL:HG21	1.85	0.59
54:CA:1151:A:H2'	54:CA:1152:A:H8	1.64	0.59
43:CP:116:THR:CG2	43:CP:117:VAL:H	2.15	0.59
1:AA:2043:C:H1'	1:AA:2779:U:O4	2.02	0.59
1:AA:2882:A:C5'	13:A0:96:ARG:HG3	2.31	0.59
31:BA:631:G:O2'	31:BA:632:A:OP1	2.19	0.59
1:AA:2295:C:OP2	14:AQ:10:ARG:HD2	2.02	0.59
31:BA:740:U:O2'	31:BA:741:G:H5'	2.02	0.59
1:AA:532:A:HO2'	1:AA:533:G:P	2.26	0.59
54:CA:663:A:H2'	54:CA:664:G:O4'	2.01	0.59
47:CT:59:ILE:HG21	47:CT:71:PHE:HB3	1.84	0.59
1:AA:2315:G:H2'	1:AA:2316:C:H6	1.66	0.59
33:CF:79:ARG:HG2	33:CF:79:ARG:HH11	1.66	0.59
54:CA:639:G:O2'	54:CA:640:A:H5'	2.03	0.59
1:AA:2679:A:H5'	4:AE:165:VAL:HG11	1.84	0.59
8:DK:29:TYR:C	8:DK:32:PRO:HD2	2.22	0.59
42:BO:90:VAL:O	42:BO:92:ASP:N	2.34	0.59
21:AV:20:ARG:HH11	21:AV:20:ARG:HG2	1.68	0.59
1:AA:2113:U:H3'	1:AA:2114:A:C5'	2.31	0.59
34:CG:156:GLU:HG2	34:CG:160:GLN:HE21	1.67	0.59
31:BA:474:G:H5''	46:BS:81:ARG:HD3	1.84	0.59
31:BA:599:C:H4'	38:BK:130:GLY:HA3	1.85	0.59
1:AA:78:A:H2'	1:AA:79:G:C8	2.38	0.59
1:AA:883:G:H2'	1:AA:884:C:C5	2.38	0.59
55:DA:1694:C:O2'	55:DA:1695:G:OP2	2.19	0.59
54:CA:1254:C:H41	40:CM:43:ARG:HH12	1.50	0.59
55:DA:54:G:O2'	29:D7:35:ARG:HD3	2.02	0.59
31:BA:155:C:O2'	31:BA:156:G:H5'	2.02	0.59
55:DA:868:U:C4	55:DA:869:G:N7	2.71	0.59
34:BG:68:TYR:OH	34:BG:196:LEU:HD21	2.02	0.59
55:DA:1061:U:H5''	55:DA:1070:A:O2'	2.03	0.59
56:DI:24:ILE:C	56:DI:26:ALA:N	2.51	0.59
56:DJ:10:GLU:OE1	56:DJ:10:GLU:O	2.20	0.59
58:DL:106:GLU:OE1	58:DL:109:LYS:HD2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:7:VAL:HG12	58:DL:8:VAL:H	1.66	0.59
57:DY:23:SER:O	57:DY:25:PHE:N	2.36	0.59
57:DY:48:GLY:O	57:DY:49:ALA:C	2.40	0.59
57:DY:95:GLN:O	57:DY:96:PHE:CD2	2.56	0.59
21:AV:183:LEU:O	21:AV:184:ALA:CB	2.51	0.59
31:BA:1216:G:OP1	44:BQ:2:ALA:HA	2.02	0.59
31:BA:1218:C:OP2	44:BQ:9:LYS:NZ	2.33	0.59
1:AA:864:G:H2'	1:AA:865:C:H6	1.67	0.59
1:AA:1029:A:H5''	12:AP:128:LYS:HE2	1.84	0.59
26:A4:35:VAL:O	26:A4:37:SER:N	2.35	0.59
51:BX:9:ARG:NH1	51:BX:13:ILE:HD12	2.17	0.59
55:DA:1278:A:O2'	13:D0:34:ILE:HD12	2.02	0.59
49:CV:42:PRO:HD3	26:D4:63:TYR:CE2	2.37	0.59
30:D8:22:VAL:HG21	30:D8:53:PRO:HB2	1.85	0.59
54:CA:951:G:O2'	54:CA:972:C:H5	1.85	0.59
40:CM:54:PHE:CZ	40:CM:55:LYS:NZ	2.70	0.59
8:AK:124:GLY:O	8:AK:141:LYS:HA	2.02	0.59
55:DA:1379:A:HO2'	55:DA:1380:G:P	2.25	0.59
9:AM:42:TRP:O	16:A1:64:ARG:NH2	2.36	0.59
30:D8:17:THR:CG2	30:D8:21:LYS:HB2	2.32	0.59
1:AA:2758:A:C3'	1:AA:2759:G:H5''	2.32	0.59
50:CW:59:ALA:HA	50:CW:62:LEU:HD12	1.83	0.59
31:BA:1027:C:H2'	31:BA:1028:C:C5	2.38	0.59
11:DO:112:LEU:HD22	11:DO:113:LYS:N	2.18	0.59
1:AA:925:C:C3'	1:AA:926:A:H5''	2.32	0.59
6:DG:34:LEU:HD13	6:DG:34:LEU:O	2.03	0.59
1:AA:331:A:O2'	1:AA:332:A:OP1	2.17	0.59
5:AF:184:TYR:O	5:AF:188:ARG:HB2	2.02	0.59
5:AF:25:PRO:O	5:AF:26:ALA:HB3	2.03	0.59
1:AA:2147:G:H8	1:AA:2147:G:H3'	1.68	0.59
52:BB:69:G:C2'	52:BB:70:G:H5''	2.29	0.59
31:BA:1535:C:C2'	31:BA:1536:C:H5'	2.33	0.59
55:DA:590:A:H2'	55:DA:591:C:C6	2.37	0.59
31:BA:1181:G:C5	31:BA:1182:G:N2	2.71	0.59
53:C1:31:A:O2'	53:C1:32:A:P	2.60	0.59
11:AO:79:ARG:O	11:AO:111:ARG:HB2	2.03	0.59
31:BA:1452:C:H1'	31:BA:1454:G:C4	2.38	0.59
55:DA:1962:C:O2'	55:DA:1964:G:OP2	2.20	0.59
33:BF:116:VAL:HG11	33:BF:141:VAL:HG21	1.85	0.59
3:DD:10:THR:HG23	3:DD:13:ARG:HB2	1.85	0.59
43:CP:12:ASN:HA	43:CP:46:LYS:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:15:A:H5'	2:AB:16:G:H8	1.68	0.59
54:CA:921:U:O2	35:CH:19:MET:HB2	2.02	0.59
15:AR:56:GLY:O	15:AR:59:THR:HG22	2.02	0.59
26:D4:13:ARG:O	26:D4:14:ILE:HB	2.03	0.59
1:AA:2741:A:H2'	1:AA:2742:C:O4'	2.01	0.59
52:CB:11:C:H2'	52:CB:12:U:C6	2.38	0.59
7:DH:24:VAL:O	7:DH:24:VAL:HG23	2.02	0.59
31:BA:745:C:H2'	31:BA:746:A:C8	2.37	0.59
36:BI:33:TYR:OH	36:BI:78:GLU:HG3	2.03	0.59
1:AA:1810:A:H2'	1:AA:1811:G:C5'	2.33	0.59
10:DN:87:ILE:HD12	10:DN:91:LEU:HD12	1.85	0.59
31:BA:137:C:H1'	46:BS:63:GLY:HA3	1.84	0.59
55:DA:218:A:H2	55:DA:235:U:H4'	1.68	0.59
16:D1:5:LYS:HB2	16:D1:5:LYS:NZ	2.17	0.59
1:AA:633:A:H2'	1:AA:634:C:H5'	1.83	0.59
55:DA:1061:U:C5'	55:DA:1070:A:H1'	2.31	0.59
55:DA:1077:A:C4	55:DA:1078:U:H5''	2.36	0.59
56:DI:7:ARG:NE	56:DI:8:ILE:CD1	2.64	0.59
56:DJ:24:ILE:CG2	56:DJ:25:ASP:N	2.64	0.59
57:DY:18:GLU:CG	57:DY:66:LEU:HD11	2.32	0.59
21:AV:182:LYS:HD3	21:AV:183:LEU:N	2.18	0.59
55:DA:1360:A:H2'	55:DA:1361:G:H5'	1.85	0.59
28:A6:13:CYS:O	28:A6:21:TYR:HB3	2.03	0.59
6:AG:114:ILE:HD13	6:AG:140:ILE:HG21	1.85	0.59
40:BM:82:ILE:HG22	40:BM:86:MET:SD	2.42	0.59
4:DE:197:ILE:HD11	4:DE:199:ARG:CZ	2.32	0.59
1:AA:1010:A:H5'	16:A1:62:ILE:HG21	1.84	0.59
1:AA:1963:U:O2	1:AA:1963:U:H2'	2.03	0.59
34:BG:14:ARG:HG3	34:BG:14:ARG:HH11	1.66	0.59
9:DM:42:TRP:C	16:D1:64:ARG:HH22	2.05	0.59
7:AH:20:ALA:O	7:AH:22:GLY:N	2.35	0.59
1:AA:2225:A:H4'	1:AA:2226:C:O5'	2.01	0.59
43:CP:3:ARG:NE	43:CP:7:VAL:HG13	2.17	0.59
43:CP:7:VAL:CG1	6:DG:115:ARG:HH22	2.16	0.59
55:DA:1313:U:H3'	55:DA:1314:C:H5'	1.84	0.59
54:CA:1181:G:C4	54:CA:1182:G:N2	2.71	0.59
1:AA:1141:U:H5'	9:AM:25:ARG:HH21	1.68	0.59
5:AF:18:ARG:O	5:AF:19:GLU:HB3	2.02	0.59
32:BE:7:VAL:HG13	32:BE:8:LYS:N	2.18	0.59
42:CO:18:VAL:HG23	42:CO:19:ARG:N	2.10	0.59
37:CJ:111:ARG:HH12	37:CJ:113:GLU:CD	2.07	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CH:76:ILE:HB	35:CH:77:PRO:HD2	1.85	0.59
40:BM:54:PHE:CZ	40:BM:55:LYS:HD2	2.37	0.59
5:DF:197:ASP:O	5:DF:198:ALA:HB3	2.03	0.59
33:BF:53:ALA:HB2	33:BF:115:LEU:CD2	2.33	0.59
7:DH:19:VAL:HG12	7:DH:20:ALA:H	1.64	0.59
31:BA:1067:A:C1'	31:BA:1068:G:O4'	2.50	0.59
7:AH:87:LEU:HD21	7:AH:149:ARG:HB2	1.85	0.59
17:A2:22:VAL:CG2	17:A2:23:GLU:H	2.15	0.59
31:BA:687:A:H61	31:BA:703:G:H1'	1.68	0.59
34:CG:79:PHE:CE1	34:CG:207:TYR:HB2	2.37	0.59
5:AF:63:LYS:NZ	5:AF:67:GLN:HB2	2.18	0.59
1:AA:419:C:H2'	1:AA:420:C:O4'	2.02	0.59
2:DB:50:G:OP2	14:DQ:62:LYS:HB2	2.02	0.59
31:BA:877:C:O2'	31:BA:878:G:H5'	2.03	0.59
38:BK:23:SER:HA	38:BK:63:LEU:HD22	1.85	0.59
41:BN:110:ASP:HB3	48:BU:85:LEU:HD21	1.84	0.59
54:CA:765:G:N1	54:CA:812:C:H2'	2.18	0.59
55:DA:1412:A:H2'	55:DA:1413:G:C8	2.38	0.59
5:AF:128:ALA:O	5:AF:130:ALA:N	2.36	0.59
54:CA:911:U:H2'	54:CA:912:C:C6	2.38	0.59
31:BA:1246:C:H2'	31:BA:1247:U:C6	2.38	0.59
4:AE:8:LYS:CG	4:AE:192:ASN:HA	2.32	0.59
58:DL:125:ARG:NE	58:DL:132:ARG:NH2	2.51	0.59
58:DL:63:ARG:HE	58:DL:63:ARG:HA	1.67	0.59
57:DY:96:PHE:O	57:DY:97:ALA:HB3	2.03	0.59
21:AV:104:PHE:C	21:AV:105:VAL:HG12	2.22	0.59
31:BA:1216:G:H2'	31:BA:1217:C:C6	2.37	0.59
49:BV:19:VAL:CG2	49:BV:44:MET:HB3	2.33	0.59
30:A8:32:LEU:HB2	30:A8:36:LYS:NZ	2.18	0.59
3:AD:44:ASN:HB2	3:AD:48:ARG:O	2.02	0.59
54:CA:626:U:C2	54:CA:627:G:C8	2.91	0.59
6:AG:111:LEU:HD11	6:AG:120:LEU:HD11	1.85	0.59
43:CP:82:MET:HE1	43:CP:93:ARG:HA	1.83	0.59
54:CA:1035:A:H3'	54:CA:1036:G:H5''	1.85	0.59
21:DV:152:ALA:O	21:DV:153:SER:C	2.40	0.59
33:CF:70:VAL:HG21	33:CF:76:VAL:HG11	1.84	0.59
17:D2:44:LYS:C	17:D2:46:VAL:H	2.06	0.59
17:D2:49:THR:OG1	17:D2:50:PRO:CD	2.51	0.59
8:DK:139:GLN:C	8:DK:139:GLN:HE21	2.05	0.59
12:DP:80:GLU:HA	22:D3:4:LYS:HZ1	1.67	0.59
3:AD:25:THR:O	3:AD:27:THR:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1169:G:C3'	55:DA:1170:G:H5''	2.33	0.59
24:AW:60:LEU:H	24:AW:60:LEU:HD12	1.67	0.59
9:AM:73:THR:CG2	9:AM:84:LYS:HB3	2.30	0.59
50:CW:83:ARG:HA	50:CW:86:ARG:HB3	1.85	0.59
31:BA:518:C:C4'	31:BA:519:C:O5'	2.49	0.59
31:BA:189:U:N3	47:BT:72:ARG:NH1	2.50	0.59
54:CA:437:U:H5''	34:CG:155:LEU:HD22	1.85	0.59
31:BA:511:C:C2	31:BA:512:U:C4	2.91	0.59
36:CI:61:LEU:HB3	36:CI:63:TYR:HE2	1.68	0.59
48:CU:51:LEU:HB2	48:CU:56:THR:HG23	1.85	0.59
13:A0:10:LEU:O	13:A0:12:ARG:HG3	2.03	0.59
31:BA:633:G:H2'	31:BA:634:C:C6	2.38	0.59
4:DE:111:ARG:HD2	4:DE:160:TYR:CD1	2.37	0.59
15:AR:50:ILE:HD11	15:AR:102:ILE:HG12	1.85	0.59
19:DT:43:VAL:HG13	19:DT:51:VAL:HG21	1.85	0.59
1:AA:1348:G:C2'	1:AA:1349:A:H5''	2.33	0.59
13:D0:42:LYS:HA	13:D0:45:ARG:HH11	1.68	0.59
34:BG:53:ASP:HB3	34:BG:57:ARG:HH12	1.66	0.59
1:AA:2113:U:H5'	1:AA:2114:A:C8	2.37	0.59
31:BA:551:U:H2'	31:BA:552:U:C6	2.38	0.59
12:DP:116:GLU:O	12:DP:120:ILE:HG12	2.03	0.59
54:CA:560:U:H4'	54:CA:561:U:H5''	1.84	0.59
37:BJ:76:ARG:HG2	37:BJ:76:ARG:HH11	1.67	0.59
54:CA:1510:U:H2'	54:CA:1511:G:C8	2.38	0.59
1:AA:1716:U:O2'	1:AA:1717:G:H5'	2.03	0.59
4:AE:24:THR:HG21	4:AE:186:GLY:O	2.02	0.58
55:DA:1058:U:O3'	58:DL:4:VAL:HG11	2.03	0.58
55:DA:1092:C:H2'	55:DA:1093:G:C5'	2.32	0.58
56:DI:15:ALA:O	56:DI:19:GLU:HG2	2.03	0.58
58:DL:69:THR:CG2	58:DL:70:LYS:H	2.07	0.58
55:DA:1082:U:OP2	57:DY:45:LYS:CG	2.51	0.58
1:AA:896:A:H2	21:AV:178:GLU:HG2	1.67	0.58
21:AV:185:GLU:O	21:AV:186:GLU:CB	2.37	0.58
52:BB:19:G:HO2'	52:BB:20:U:P	2.26	0.58
28:A6:23:THR:O	28:A6:24:GLU:HB2	2.02	0.58
1:AA:2406:U:N3	11:AO:72:PRO:HB2	2.18	0.58
55:DA:897:C:O5'	55:DA:897:C:H6	1.86	0.58
54:CA:630:G:H8	54:CA:630:G:H5''	1.67	0.58
2:AB:40:U:O4	2:AB:43:C:OP1	2.21	0.58
31:BA:1328:C:C2'	31:BA:1329:A:H5'	2.33	0.58
43:BP:5:ALA:HB2	43:BP:22:ILE:HD13	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AR:26:ASP:O	15:AR:49:VAL:HG12	2.03	0.58
54:CA:1004:A:H2'	54:CA:1005:A:O5'	2.03	0.58
54:CA:973:G:C1'	40:CM:55:LYS:HE2	2.27	0.58
49:CV:83:HIS:CG	49:CV:84:GLY:H	2.18	0.58
28:D6:30:THR:HG23	28:D6:30:THR:O	2.03	0.58
1:AA:1341:U:H4'	19:AT:56:THR:O	2.03	0.58
34:BG:22:LYS:HG3	34:BG:26:CYS:HB2	1.84	0.58
17:A2:84:LYS:O	17:A2:85:LYS:O	2.20	0.58
1:AA:1041:C:H2'	1:AA:1042:G:H8	1.68	0.58
1:AA:2478:A:O2'	1:AA:2528:U:H1'	2.03	0.58
21:AV:125:LEU:C	21:AV:164:ALA:HB3	2.22	0.58
1:AA:85:G:P	20:AU:30:VAL:HG21	2.42	0.58
55:DA:1454:U:OP1	13:D0:77:ARG:NH1	2.35	0.58
31:BA:1248:A:H2'	39:BL:70:LYS:NZ	2.16	0.58
9:AM:14:VAL:CG1	9:AM:137:LYS:HG3	2.33	0.58
4:AE:130:GLY:O	4:AE:131:ALA:HB3	2.03	0.58
42:BO:70:ILE:CD1	42:BO:100:ILE:HD12	2.33	0.58
31:BA:1106:G:H2'	31:BA:1107:C:H6	1.68	0.58
43:CP:97:PRO:HB2	43:CP:101:GLN:NE2	2.18	0.58
55:DA:1049:C:N3	55:DA:2751:G:C6	2.71	0.58
12:AP:135:ASP:CG	21:AV:81:ARG:HH12	2.06	0.58
55:DA:1735:C:C6	55:DA:1735:C:H5'	2.37	0.58
31:BA:1298:C:H5''	37:BJ:114:ARG:HH22	1.68	0.58
49:CV:81:ARG:O	49:CV:82:GLY:O	2.20	0.58
8:DK:142:VAL:HG23	8:DK:142:VAL:O	2.03	0.58
31:BA:50:A:N6	31:BA:361:G:H4'	2.19	0.58
1:AA:2316:C:H1'	6:AG:128:ARG:HH22	1.68	0.58
55:DA:2087:G:O2'	55:DA:2088:G:H5'	2.03	0.58
18:DS:80:PRO:O	18:DS:100:THR:CG2	2.51	0.58
45:CR:56:LEU:HA	45:CR:59:MET:HE3	1.85	0.58
55:DA:1430:C:H2'	55:DA:1431:U:C6	2.38	0.58
38:CK:80:ILE:HG23	38:CK:137:VAL:CG1	2.33	0.58
54:CA:1378:C:O2	37:CJ:156:TRP:HH2	1.86	0.58
31:BA:1498:U:H1'	31:BA:1499:A:N7	2.17	0.58
1:AA:2169:A:H2	1:AA:2170:A:N1	2.00	0.58
52:CB:37:MIA:H122	52:CB:38:A:N1	2.16	0.58
12:DP:120:ILE:O	12:DP:123:HIS:HB2	2.03	0.58
43:BP:50:GLU:O	43:BP:53:VAL:HB	2.02	0.58
55:DA:2804:C:H2'	55:DA:2805:G:C8	2.38	0.58
3:AD:145:VAL:HG13	3:AD:191:ALA:HB2	1.84	0.58
55:DA:271(B):G:H4'	55:DA:271(C):U:O5'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:106:LEU:O	6:AG:110:ALA:HB3	2.03	0.58
55:DA:1061:U:C2'	55:DA:1062:G:O5'	2.51	0.58
58:DL:52:ILE:O	58:DL:53:VAL:O	2.20	0.58
58:DL:10:LEU:HD11	58:DL:55:VAL:HG21	1.85	0.58
58:DL:52:ILE:HG12	58:DL:76:TYR:CB	2.33	0.58
57:DY:50:ARG:HD3	57:DY:51:LEU:H	1.65	0.58
21:AV:104:PHE:HA	21:AV:139:VAL:O	2.03	0.58
1:AA:385:C:O2	11:AO:71:VAL:HG21	2.03	0.58
42:CO:89:ARG:HE	42:CO:91:LYS:HZ3	1.50	0.58
42:CO:89:ARG:HH21	42:CO:91:LYS:HZ3	1.49	0.58
6:AG:38:VAL:HG22	6:AG:93:THR:HG23	1.85	0.58
54:CA:1102:A:H2'	54:CA:1103:C:C6	2.38	0.58
55:DA:484:C:H2'	55:DA:485:C:C6	2.38	0.58
20:DU:54:LYS:O	20:DU:55:TYR:HB2	2.02	0.58
54:CA:957:U:H1'	54:CA:960:U:H5	1.66	0.58
14:DQ:83:LYS:HG2	14:DQ:109:GLY:N	2.17	0.58
54:CA:38:G:H4'	54:CA:547:A:N6	2.18	0.58
28:D6:17:LYS:C	28:D6:19:ARG:N	2.55	0.58
1:AA:2307:G:H1	6:AG:44:GLY:H	1.51	0.58
32:CE:77:ALA:O	32:CE:81:VAL:HG23	2.03	0.58
55:DA:2113:U:H5'	55:DA:2114:A:H8	1.66	0.58
1:AA:1020:A:H4'	1:AA:1021:A:O5'	2.03	0.58
1:AA:1024:G:H3'	1:AA:1025:G:C5'	2.26	0.58
24:DW:40:SER:C	24:DW:42:GLY:N	2.56	0.58
20:AU:98:VAL:HG13	20:AU:99:CYS:SG	2.42	0.58
27:D5:40:LYS:CG	27:D5:46:CYS:HB3	2.33	0.58
9:DM:134:ARG:N	9:DM:135:PRO:CD	2.63	0.58
26:D4:58:ARG:CB	26:D4:62:ARG:HB3	2.32	0.58
32:BE:42:ILE:HD13	32:BE:203:GLY:HA2	1.85	0.58
20:AU:91:GLU:CG	20:AU:92:ASN:H	2.06	0.58
55:DA:654(A):A:N1	55:DA:654(T):A:N1	2.51	0.58
55:DA:84:A:N6	55:DA:102:G:O2'	2.36	0.58
24:AW:24:LEU:HD22	24:AW:60:LEU:HD21	1.85	0.58
30:D8:29:LYS:HZ3	30:D8:44:LYS:HB2	1.69	0.58
55:DA:1926:U:H2'	55:DA:1928:A:OP2	2.03	0.58
55:DA:442:G:H4'	5:DF:46:ARG:HD3	1.85	0.58
12:AP:134:ARG:HH22	21:AV:122:ARG:NH1	2.01	0.58
31:BA:973:G:H1'	40:BM:55:LYS:CE	2.33	0.58
53:B1:53:U:C2'	53:B1:54:U:OP1	2.51	0.58
32:CE:162:ILE:O	32:CE:162:ILE:HG13	2.02	0.58
2:DB:27:C:H5'	2:DB:28:C:OP2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1050:A:O2'	55:DA:2752:C:H1'	2.03	0.58
55:DA:1048:A:OP2	55:DA:1110:G:N2	2.35	0.58
1:AA:2481:G:HO2'	1:AA:2482:G:P	2.26	0.58
33:BF:36:ASP:OD1	33:BF:57:ILE:HG21	2.03	0.58
6:AG:161:THR:HG22	6:AG:162:THR:N	2.18	0.58
55:DA:528:A:C2	55:DA:2043:C:C5'	2.85	0.58
52:BC:58:A:C1'	52:BC:60:U:H5	2.15	0.58
1:AA:2126:A:O2'	1:AA:2127:G:O5'	2.21	0.58
1:AA:1945:G:H2'	1:AA:1946:U:H6	1.67	0.58
1:AA:119:A:O2'	1:AA:120:U:OP2	2.20	0.58
15:DR:94:ALA:O	15:DR:95:ARG:HB2	2.02	0.58
1:AA:871:U:O2	1:AA:871:U:C2'	2.51	0.58
3:AD:267:SER:C	3:AD:269:PHE:N	2.57	0.58
55:DA:2682:U:H6	55:DA:2682:U:H5'	1.68	0.58
55:DA:969:U:H2'	55:DA:970:C:C6	2.38	0.58
14:AQ:58:LEU:N	14:AQ:58:LEU:HD23	2.17	0.58
15:AR:41:ARG:C	15:AR:42:ILE:HD12	2.23	0.58
36:BI:100:ASN:O	48:BU:28:GLU:HB3	2.02	0.58
18:DS:20:VAL:HG23	18:DS:47:VAL:HG21	1.85	0.58
56:DJ:3:LEU:O	56:DJ:6:GLU:N	2.36	0.58
58:DL:53:VAL:CG1	58:DL:76:TYR:CD2	2.86	0.58
58:DL:95:LYS:CG	58:DL:136:VAL:HG21	2.32	0.58
58:DL:99:ILE:O	58:DL:138:VAL:HG13	2.03	0.58
57:DY:126:ALA:O	57:DY:127:GLU:C	2.42	0.58
57:DY:50:ARG:H	57:DY:83:TYR:CA	2.16	0.58
49:BV:42:PRO:C	49:BV:45:VAL:H	2.03	0.58
54:CA:518:C:C4	54:CA:530:G:N7	2.71	0.58
26:D4:56:VAL:HG13	26:D4:60:GLN:HG3	1.84	0.58
40:BM:33:GLN:N	40:BM:75:ILE:HG12	2.17	0.58
54:CA:963:G:H21	40:CM:55:LYS:CD	2.13	0.58
21:DV:155:LEU:O	21:DV:157:LEU:HD13	2.03	0.58
16:A1:95:LEU:HD12	17:A2:11:GLN:HB3	1.84	0.58
40:BM:8:LEU:CG	40:BM:96:ILE:HG22	2.21	0.58
32:CE:4:GLU:C	32:CE:5:ILE:HD13	2.24	0.58
40:CM:62:HIS:CD2	40:CM:62:HIS:H	2.21	0.58
16:D1:108:GLU:HB2	17:D2:44:LYS:HE3	1.85	0.58
23:AZ:7:ILE:HG12	23:AZ:91:LYS:HZ3	1.68	0.58
37:BJ:16:LEU:O	37:BJ:17:VAL:HG23	2.02	0.58
31:BA:872:A:C4'	31:BA:873:A:OP1	2.47	0.58
5:AF:28:ILE:HA	5:AF:112:MET:HE3	1.86	0.58
1:AA:654(S):G:O3'	1:AA:654(T):A:H8	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1267:U:C5	1:AA:2012:G:N1	2.72	0.58
1:AA:27:G:O2'	1:AA:28:A:OP2	2.21	0.58
15:DR:102:ILE:HA	15:DR:105:LEU:CD2	2.34	0.58
55:DA:1771:C:C1'	55:DA:1786:A:H8	2.15	0.58
8:DK:3:VAL:O	8:DK:18:VAL:HA	2.03	0.58
37:CJ:15:ASP:HB3	37:CJ:19:GLY:N	2.18	0.58
55:DA:1173:G:H4'	55:DA:1174:A:C2	2.39	0.58
48:BU:22:VAL:O	48:BU:23:LYS:CG	2.49	0.58
53:C1:30:C:H3'	53:C1:30:C:H6	1.67	0.58
55:DA:858:U:O2'	55:DA:2268:A:H1'	2.02	0.58
8:AK:120:ILE:HG22	8:AK:122:GLU:H	1.67	0.58
7:DH:92:ILE:N	7:DH:92:ILE:HD12	2.13	0.58
1:AA:2614:A:H4'	1:AA:2615:U:OP1	2.03	0.58
6:AG:161:THR:HG22	6:AG:163:ALA:N	2.14	0.58
42:CO:26:ALA:O	42:CO:27:LEU:O	2.21	0.58
36:CI:60:PHE:C	36:CI:61:LEU:HD12	2.23	0.58
34:CG:19:LEU:HG	34:CG:21:LEU:HG	1.85	0.58
1:AA:2780:G:C2'	1:AA:2781:A:OP1	2.51	0.58
55:DA:270(K):C:O2'	55:DA:270(L):U:H5''	2.02	0.58
35:CH:55:VAL:O	35:CH:58:ALA:HB3	2.04	0.58
54:CA:1117:G:H4'	39:CL:104:ARG:HH21	1.69	0.58
9:AM:111:PRO:HA	9:AM:114:ARG:CZ	2.33	0.58
6:AG:34:LEU:O	6:AG:34:LEU:HD13	2.03	0.58
54:CA:869:G:H4'	54:CA:872:A:H1'	1.84	0.58
50:BW:87:LYS:O	50:BW:90:GLN:N	2.36	0.58
5:DF:184:TYR:CE2	5:DF:188:ARG:HD2	2.38	0.58
8:AK:52:ARG:C	8:AK:52:ARG:HD2	2.23	0.58
31:BA:321:A:N7	31:BA:328:C:O2	2.36	0.58
54:CA:243:A:H4'	54:CA:244:U:O5'	2.01	0.58
21:DV:122:ARG:HH11	21:DV:122:ARG:HG2	1.67	0.58
9:AM:74:ARG:HH12	9:AM:85:ILE:HD11	1.67	0.58
1:AA:654:A:N3	1:AA:654:A:H2'	2.17	0.58
5:AF:60:SER:O	5:AF:61:GLY:C	2.41	0.58
11:AO:86:LYS:HG3	11:AO:87:ASP:N	2.17	0.58
58:DL:111:LYS:C	58:DL:113:PRO:CD	2.71	0.58
21:AV:116:VAL:CG1	21:AV:117:LEU:H	2.13	0.58
21:DV:196:VAL:C	21:DV:197:ILE:HD12	2.23	0.58
1:AA:885:C:H2'	1:AA:886:C:O4'	2.04	0.58
30:A8:62:LEU:CB	30:A8:63:PRO:CD	2.81	0.58
15:DR:88:ILE:HG13	15:DR:88:ILE:O	2.03	0.58
30:D8:35:GLN:HA	30:D8:35:GLN:HE21	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:DO:61:ARG:HB2	11:DO:61:ARG:NH2	2.17	0.58
7:DH:106:THR:HG22	7:DH:112:PRO:CB	2.30	0.58
32:CE:71:VAL:HG12	32:CE:93:VAL:HB	1.83	0.58
11:DO:143:GLY:C	11:DO:144:GLU:HG3	2.24	0.58
52:CD:22:G:O2'	52:CD:23:A:H5'	2.03	0.58
37:BJ:48:LYS:O	37:BJ:52:GLU:HG2	2.02	0.58
20:AU:74:PRO:O	20:AU:80:GLY:HA2	2.03	0.58
1:AA:654(C):G:C2	1:AA:654(S):G:C2	2.91	0.58
32:BE:54:THR:HG22	32:BE:58:ILE:HD11	1.85	0.58
55:DA:2308:G:H1	55:DA:2311:A:H2	1.37	0.58
54:CA:376:G:OP1	46:CS:5:ARG:HB2	2.02	0.58
55:DA:1926:U:C1'	55:DA:1929:G:O6	2.51	0.58
54:CA:600:C:OP1	38:CK:97:VAL:HG12	2.04	0.58
8:DK:57:ARG:HH11	8:DK:57:ARG:HB2	1.68	0.58
42:BO:58:VAL:O	42:BO:65:GLU:HA	2.02	0.58
1:AA:1332:G:N2	1:AA:1609:A:C2'	2.65	0.58
54:CA:983:A:HO2'	54:CA:1049:U:HO2'	1.49	0.58
55:DA:2126:A:O2'	55:DA:2127:G:O5'	2.22	0.58
1:AA:2712:U:H1'	1:AA:2712(A):A:C8	2.38	0.58
46:CS:28:ARG:NH1	46:CS:29:ASP:OD2	2.36	0.58
1:AA:558:G:P	9:AM:111:PRO:HD2	2.42	0.58
33:BF:83:ARG:NE	33:BF:87:LEU:HD11	2.18	0.58
13:D0:2:ARG:HA	13:D0:5:LYS:HD2	1.84	0.58
54:CA:565:U:H5''	54:CA:566:G:H3'	1.85	0.58
1:AA:669:G:H4'	1:AA:670:A:OP1	2.01	0.58
43:BP:49:THR:HG22	43:BP:51:ALA:H	1.69	0.58
1:AA:536:A:H2'	1:AA:537:C:C6	2.38	0.58
19:DT:70:LEU:HD23	19:DT:70:LEU:N	2.18	0.58
36:CI:7:ASN:O	36:CI:88:VAL:HA	2.04	0.58
54:CA:930:C:O2'	54:CA:931:C:H5'	2.03	0.58
32:CE:229:VAL:HG12	32:CE:229:VAL:O	2.03	0.58
26:A4:64:GLY:O	26:A4:70:GLY:HA2	2.02	0.58
58:DL:67:PHE:C	58:DL:68:VAL:HG12	2.24	0.58
57:DY:58:LEU:C	57:DY:62:ALA:CB	2.72	0.58
57:DY:88:ALA:C	57:DY:92:THR:HB	2.24	0.58
1:AA:896:A:O5'	1:AA:897:C:C5	2.56	0.58
54:CA:1313:U:OP1	49:CV:6:LYS:HB3	2.03	0.58
1:AA:1188:U:C2'	1:AA:1189:A:H5'	2.33	0.58
1:AA:859:G:O2'	1:AA:860:U:P	2.61	0.58
2:AB:90:C:OP1	12:AP:16:ARG:HD2	2.02	0.58
55:DA:880:G:C4'	55:DA:880:G:OP1	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A4:2:LYS:HB3	26:A4:6:HIS:CE1	2.37	0.58
54:CA:946:A:H2'	54:CA:947:G:H8	1.66	0.58
1:AA:1008:C:H5''	1:AA:1009:A:OP1	2.04	0.58
55:DA:654(J):A:N1	55:DA:654(L):G:O6	2.36	0.58
31:BA:409:G:H2'	31:BA:410:G:C8	2.37	0.58
17:A2:82:ARG:NH1	17:A2:82:ARG:HG3	2.17	0.58
9:DM:113:GLY:C	9:DM:114:ARG:O	2.40	0.58
31:BA:1139:G:H5'	31:BA:1140:C:OP1	2.04	0.58
31:BA:1277:C:O2'	31:BA:1279:A:H8	1.86	0.58
11:AO:19:VAL:CG2	11:AO:20:GLY:H	1.95	0.58
54:CA:1156:G:H5''	54:CA:1157:A:OP2	2.02	0.58
31:BA:35:G:H2'	31:BA:36:C:C6	2.38	0.58
10:AN:2:ILE:HD11	10:AN:82:ASN:ND2	2.19	0.58
31:BA:192:U:H2'	31:BA:193:C:H6	1.68	0.58
53:B1:52:U:H4'	53:B1:52:U:OP1	2.03	0.58
31:BA:528:C:H5'	31:BA:535:A:N1	2.19	0.58
37:BJ:23:VAL:HG13	37:BJ:43:PHE:HE2	1.67	0.58
15:DR:125:ARG:HG2	15:DR:126:ALA:N	2.18	0.58
43:BP:70:LEU:HD22	43:BP:70:LEU:C	2.24	0.58
43:BP:23:TYR:CE1	43:BP:71:ARG:HD3	2.37	0.58
33:BF:34:LEU:HG	33:BF:38:ARG:HH21	1.68	0.58
13:D0:67:LEU:HD13	13:D0:76:VAL:HG21	1.85	0.58
55:DA:2590:A:O2'	55:DA:2591:C:H5'	2.04	0.58
55:DA:2115:G:N2	55:DA:2172:U:H3	2.01	0.58
37:CJ:94:ARG:HG3	37:CJ:94:ARG:NH1	2.14	0.58
11:DO:38:GLN:HG2	11:DO:45:LEU:HD12	1.86	0.58
16:D1:50:ARG:HG2	16:D1:53:ARG:NH2	2.18	0.58
55:DA:1847:A:H2'	55:DA:1847:A:N3	2.19	0.58
13:D0:1:MET:O	13:D0:2:ARG:HB2	2.02	0.58
41:BN:41:THR:OG1	41:BN:71:LYS:HD3	2.04	0.58
55:DA:1543:A:C8	55:DA:1545:A:H5''	2.38	0.58
31:BA:1261:A:O4'	31:BA:1283:G:H5''	2.04	0.58
8:AK:10:GLU:CD	8:AK:11:ASN:N	2.56	0.58
49:CV:8:GLY:O	49:CV:9:VAL:O	2.21	0.58
50:BW:18:GLN:HE21	50:BW:22:ARG:HH12	1.50	0.58
17:D2:43:GLU:HA	17:D2:43:GLU:OE2	2.03	0.58
1:AA:2672:G:C3'	1:AA:2673:G:H5''	2.34	0.58
1:AA:690:G:H2'	1:AA:691:C:C6	2.38	0.58
9:DM:18:ALA:HB3	9:DM:55:VAL:O	2.03	0.58
1:AA:270(B):A:H5''	1:AA:270(C):C:OP2	2.04	0.58
4:AE:11:MET:O	4:AE:12:THR:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1071:G:H1'	55:DA:1089:G:H3'	1.86	0.58
55:DA:1082:U:OP1	55:DA:1082:U:C4'	2.52	0.58
55:DA:1058:U:C5'	58:DL:4:VAL:HB	2.33	0.58
58:DL:77:LEU:HD21	58:DL:111:LYS:HZ1	1.68	0.58
57:DY:73:GLY:C	57:DY:119:ALA:C	2.60	0.58
57:DY:74:LEU:HG	57:DY:120:LYS:HD3	1.85	0.58
57:DY:121:ASP:OD1	57:DY:122:VAL:N	2.36	0.58
57:DY:26:LEU:HD23	57:DY:112:LEU:HB3	1.86	0.58
54:CA:531:U:H4'	54:CA:532:A:OP1	2.04	0.58
2:AB:40:U:C2	26:A4:1:MET:SD	2.96	0.58
6:AG:43:LEU:HD22	6:AG:90:LEU:HD23	1.86	0.58
31:BA:1326:C:OP1	51:BX:12:LYS:HE2	2.03	0.58
49:CV:42:PRO:O	49:CV:45:VAL:HG13	2.04	0.58
49:CV:41:VAL:N	49:CV:44:MET:SD	2.73	0.58
40:BM:79:ARG:O	40:BM:83:GLU:HB2	2.03	0.58
20:DU:50:ARG:HB3	20:DU:53:PRO:CD	2.32	0.58
54:CA:474:G:OP1	46:CS:81:ARG:HG3	2.03	0.58
14:DQ:109:GLY:O	14:DQ:110:LEU:HB2	2.03	0.58
27:A5:3:LYS:HA	27:A5:3:LYS:CE	2.32	0.58
1:AA:1340:U:C2'	1:AA:1341:U:OP1	2.51	0.58
17:A2:73:SER:HB2	17:A2:82:ARG:O	2.03	0.58
31:BA:279:A:O2'	31:BA:280:C:P	2.62	0.58
55:DA:1934:C:C5'	55:DA:1934:C:H6	2.08	0.58
27:D5:42:PRO:O	27:D5:44:THR:HG23	2.04	0.58
5:AF:155:LEU:HD22	5:AF:185:ASP:O	2.02	0.58
11:DO:79:ARG:HD3	11:DO:110:TYR:CE1	2.38	0.58
55:DA:654(C):G:C3'	55:DA:654(D):G:H8	2.16	0.58
1:AA:1267:U:C4	1:AA:2012:G:N2	2.71	0.58
46:CS:20:VAL:HG22	46:CS:21:VAL:N	2.18	0.58
55:DA:1170:G:H8	55:DA:1170:G:H5'	1.69	0.58
54:CA:1347:G:O2'	54:CA:1348:U:P	2.62	0.58
55:DA:1238:G:O2'	55:DA:1239:G:H5'	2.03	0.58
53:C1:30:C:N4	53:C1:31:A:N7	2.51	0.58
54:CA:91:C:H2'	54:CA:92:G:C5'	2.32	0.58
5:DF:195:ASP:O	5:DF:197:ASP:O	2.22	0.58
33:BF:119:ARG:HH21	33:BF:137:ALA:HA	1.67	0.58
54:CA:1221:G:H4'	49:CV:77:THR:CG2	2.33	0.58
34:CG:106:TYR:HE1	34:CG:112:VAL:O	1.87	0.58
55:DA:1820:U:H2'	3:DD:159:ALA:O	2.03	0.58
10:AN:10:VAL:HG22	10:AN:17:ARG:O	2.03	0.58
53:B1:57:U:H2'	53:B1:57:U:O2	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CO:6:THR:OG1	42:CO:9:GLN:HG3	2.04	0.58
29:A7:8:ASN:ND2	29:A7:10:ARG:H	2.02	0.58
31:BA:1513:A:H2'	31:BA:1514:C:H6	1.69	0.58
40:CM:4:ILE:HB	40:CM:74:ILE:CG1	2.32	0.58
1:AA:2839:G:H5'	13:A0:46:GLY:HA2	1.86	0.58
54:CA:991:U:O2	54:CA:993:G:H8	1.85	0.58
4:DE:116:VAL:HG21	4:DE:122:PHE:CD2	2.39	0.58
47:CT:45:HIS:HE2	47:CT:47:PRO:HG3	1.68	0.58
14:AQ:83:LYS:HG2	14:AQ:109:GLY:H	1.69	0.58
55:DA:414:C:O2	55:DA:1864:U:O2'	2.21	0.58
39:CL:96:LEU:HD23	39:CL:102:LEU:HD12	1.86	0.58
38:BK:84:ARG:HH12	38:BK:86:ILE:CD1	2.16	0.58
55:DA:2315:G:H2'	55:DA:2316:C:C6	2.38	0.58
54:CA:923:A:H2'	54:CA:924:C:C6	2.38	0.58
31:BA:1423:G:H2'	31:BA:1424:C:H6	1.67	0.58
42:BO:86:ARG:HG2	42:BO:86:ARG:O	2.04	0.58
1:AA:1092:C:H2'	1:AA:1093:G:H5'	1.85	0.58
1:AA:244:A:H2'	1:AA:245:G:O4'	2.03	0.58
54:CA:444:C:H2'	54:CA:445:G:H8	1.69	0.58
55:DA:616:A:O2'	55:DA:617:G:O4'	2.20	0.58
42:CO:126:LYS:HE2	42:CO:128:ALA:HB3	1.85	0.58
1:AA:2193:G:H5'	1:AA:2193:G:H8	1.69	0.58
31:BA:609:A:H2'	31:BA:610:G:O4'	2.04	0.58
31:BA:423:G:N2	31:BA:424:G:C8	2.72	0.58
18:AS:22:ASP:HA	18:AS:25:ARG:HH12	1.67	0.58
31:BA:434:U:H2'	31:BA:435:C:C6	2.39	0.58
14:AQ:3:ARG:HG2	14:AQ:4:LEU:N	2.17	0.58
55:DA:1061:U:H2'	55:DA:1062:G:O5'	2.04	0.58
56:DJ:12:LEU:N	56:DJ:13:SER:CA	2.67	0.58
2:AB:46:A:H2'	2:AB:47:C:H6	1.65	0.58
1:AA:769:G:H5'	1:AA:1379:A:N6	2.18	0.58
1:AA:242:G:C2'	1:AA:243:U:OP2	2.51	0.58
54:CA:1002:G:C2'	54:CA:1003:G:H5'	2.34	0.58
55:DA:2285:C:H41	28:D6:27:LYS:HE2	1.68	0.58
16:A1:90:VAL:HA	17:A2:39:LEU:CD2	2.34	0.58
9:AM:36:GLY:O	9:AM:42:TRP:HB2	2.03	0.58
4:AE:3:GLY:C	4:AE:4:ILE:HG23	2.23	0.58
22:D3:33:ALA:HB2	22:D3:63:VAL:HA	1.85	0.58
13:D0:85:PRO:O	13:D0:87:TYR:N	2.37	0.58
52:CD:20:U:H2'	52:CD:20:U:O2	2.03	0.58
31:BA:38:G:H22	31:BA:397:A:H5''	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:69:THR:HA	21:AV:91:LEU:HD23	1.86	0.58
1:AA:307:G:N2	1:AA:309:G:H3'	2.18	0.58
20:AU:95:LYS:HA	20:AU:101:LYS:HB2	1.85	0.58
32:BE:212:GLN:NE2	32:BE:216:SER:HB2	2.17	0.58
55:DA:2712:U:O2'	55:DA:2712(A):A:O5'	2.21	0.58
1:AA:2148:G:O2'	1:AA:2149:G:H5'	2.03	0.58
55:DA:1930:G:O2'	55:DA:1931:U:OP2	2.19	0.58
11:AO:85:LEU:CA	11:AO:88:LEU:HB3	2.32	0.58
55:DA:1166:C:O2'	55:DA:1167:U:H5'	2.04	0.58
42:BO:60:LEU:HB2	42:BO:64:TYR:CB	2.32	0.58
31:BA:530:G:N2	31:BA:1492:A:N1	2.51	0.58
1:AA:1240:U:O2'	1:AA:1241:A:H5'	2.03	0.58
44:BQ:48:ALA:N	44:BQ:53:LEU:HD12	2.18	0.58
55:DA:1510:A:OP1	55:DA:1510:A:H4'	2.03	0.58
21:AV:77:ASP:OD2	21:AV:80:ARG:HB2	2.03	0.58
42:CO:119:LYS:HB2	42:CO:120:TYR:CD1	2.39	0.58
1:AA:13:A:O2'	1:AA:15:G:N7	2.33	0.58
1:AA:2174:C:O2'	1:AA:2175:C:H5'	2.03	0.58
46:BS:74:LEU:O	46:BS:79:VAL:HG23	2.03	0.58
8:AK:76:THR:HG21	8:AK:138:ILE:HG12	1.85	0.58
1:AA:1954:G:O2'	1:AA:1955:U:P	2.60	0.58
43:CP:14:ARG:N	43:CP:44:ARG:HD2	2.19	0.58
54:CA:1300:G:O2'	54:CA:1301:U:O5'	2.19	0.58
54:CA:197:A:N6	54:CA:221:C:H5''	2.18	0.58
54:CA:498:A:O2'	54:CA:500:G:O5'	2.22	0.58
35:BH:41:VAL:HG23	35:BH:69:VAL:HG21	1.86	0.58
31:BA:812:C:O2'	31:BA:813:U:P	2.61	0.58
1:AA:671:C:O2'	1:AA:672:C:H5'	2.04	0.58
52:CB:6:G:H2'	52:CB:7:A:O4'	2.04	0.58
55:DA:373:U:O2	55:DA:423:A:H2	1.85	0.58
5:AF:152:GLU:HA	5:AF:190:GLU:OE2	2.03	0.58
22:D3:53:MET:HA	22:D3:58:THR:O	2.04	0.58
55:DA:1694:C:H1'	55:DA:1695:G:N2	2.18	0.58
55:DA:969:U:OP1	25:DX:17:LYS:HG3	2.03	0.58
55:DA:492:A:H2'	55:DA:493:G:H5'	1.85	0.58
31:BA:1090:U:O2'	31:BA:1091:U:H5'	2.03	0.58
31:BA:710:G:OP1	36:BI:54:LYS:HE3	2.03	0.58
55:DA:18:C:H4'	16:D1:23:GLY:O	2.04	0.58
47:BT:86:GLU:O	47:BT:90:ILE:HG12	2.03	0.58
55:DA:1079:C:H1'	58:DL:129:GLY:HA3	1.84	0.58
58:DL:86:LYS:C	58:DL:88:ALA:H	2.05	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:99:ILE:HG13	58:DL:138:VAL:CG2	2.25	0.58
57:DY:75:GLN:HG3	57:DY:110:GLY:H	1.69	0.58
57:DY:12:THR:HB	57:DY:52:PHE:CD2	2.38	0.58
21:DV:189:ALA:HB2	21:DV:190:GLU:HG2	1.71	0.58
43:BP:85:GLY:O	43:BP:86:CYS:C	2.42	0.58
12:AP:70:PRO:HA	12:AP:94:VAL:O	2.04	0.58
3:DD:35:LYS:HG2	3:DD:64:ILE:CA	2.34	0.58
31:BA:1328:C:O2'	31:BA:1329:A:H5'	2.03	0.58
40:BM:6:ILE:O	40:BM:6:ILE:HG13	2.03	0.58
54:CA:1006:C:H2'	54:CA:1007:C:C6	2.39	0.58
28:D6:9:LEU:HD13	28:D6:11:LEU:CD2	2.33	0.58
16:A1:91:ASP:O	16:A1:92:ARG:HB3	2.04	0.58
55:DA:2702:U:OP1	55:DA:2702:U:O4'	2.22	0.58
1:AA:2060:A:HO2'	1:AA:2061:G:P	2.26	0.58
32:CE:4:GLU:HG2	32:CE:5:ILE:N	2.18	0.58
45:CR:82:ILE:CG2	45:CR:83:GLU:N	2.66	0.58
1:AA:1250:G:O2'	1:AA:1251:C:OP1	2.20	0.58
22:A3:5:LYS:CE	52:BC:73:A:O2'	2.42	0.58
8:AK:114:LEU:HD23	8:AK:130:TYR:HB2	1.86	0.58
32:BE:206:ASP:O	32:BE:211:ILE:HD11	2.04	0.58
55:DA:2443:C:O2'	55:DA:2444:G:H5'	2.03	0.58
1:AA:1427:A:H4'	1:AA:1428:C:O4'	2.04	0.58
1:AA:2720:U:N3	1:AA:2873:A:C2	2.66	0.58
39:BL:82:ALA:HB1	39:BL:96:LEU:HD21	1.85	0.58
53:C1:31:A:O2'	53:C1:32:A:O5'	2.21	0.58
31:BA:335:C:H2'	31:BA:336:C:C6	2.39	0.58
1:AA:1060:U:H5''	1:AA:1061:U:OP1	2.03	0.58
8:AK:117:GLU:CD	8:AK:117:GLU:N	2.50	0.58
10:AN:10:VAL:HG23	10:AN:10:VAL:O	2.03	0.58
1:AA:908:C:O2'	1:AA:909:A:H5'	2.04	0.58
1:AA:1272:A:H3'	1:AA:1273:U:C5'	2.34	0.58
34:BG:149:ALA:O	34:BG:150:GLU:O	2.21	0.58
32:BE:22:LYS:H	32:BE:22:LYS:NZ	2.01	0.58
55:DA:1945:G:H2'	55:DA:1946:U:H6	1.69	0.58
16:D1:52:ARG:HG2	16:D1:52:ARG:HH11	1.69	0.58
54:CA:22:G:H4'	54:CA:885:G:C8	2.38	0.58
3:DD:134:ARG:HB2	3:DD:135:PHE:HD2	1.68	0.58
54:CA:32:A:H2'	54:CA:33:A:C8	2.39	0.58
11:AO:124:LYS:HZ2	11:AO:143:GLY:HA3	1.67	0.58
1:AA:1731:G:C2'	1:AA:1732:A:H5'	2.32	0.58
5:DF:31:HIS:HB2	11:DO:9:ASN:ND2	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1498:U:O2'	54:CA:1499:A:OP2	2.20	0.58
1:AA:1364:G:OP2	23:AZ:2:SER:HA	2.04	0.58
1:AA:2763:G:H5'	1:AA:2764:A:OP2	2.04	0.58
52:CB:46:G:H5''	52:CB:47:U:OP2	2.04	0.58
44:BQ:26:ARG:HD3	44:BQ:43:CYS:CB	2.34	0.58
54:CA:564:C:H5'	47:CT:32:TYR:HE2	1.67	0.58
8:AK:68:LEU:O	8:AK:71:ILE:HG22	2.03	0.58
55:DA:2771:C:H2'	55:DA:2772:C:C6	2.38	0.58
12:AP:140:ALA:O	12:AP:141:GLN:HB2	2.02	0.58
31:BA:1532:U:H2'	31:BA:1533:C:C6	2.39	0.58
55:DA:328:U:O2'	20:DU:71:LYS:HD3	2.04	0.58
43:BP:56:LEU:O	43:BP:60:VAL:HG23	2.03	0.58
43:CP:50:GLU:O	43:CP:54:VAL:HG23	2.02	0.58
45:BR:54:ARG:HG2	45:BR:58:MET:HE2	1.85	0.58
2:DB:113:C:O2'	14:DQ:46:VAL:HG13	2.04	0.58
48:CU:45:SER:HG	48:CU:47:THR:HG1	1.52	0.58
25:AX:23:LEU:HD11	25:AX:53:LEU:CD1	2.33	0.58
1:AA:1705:G:H2'	1:AA:1706:U:O4'	2.04	0.58
19:DT:15:GLU:N	19:DT:15:GLU:OE1	2.26	0.58
4:DE:174:ASP:HB3	4:DE:183:LEU:HD22	1.85	0.58
1:AA:205:G:HO2'	1:AA:206:U:P	2.26	0.58
16:D1:11:ARG:O	16:D1:15:LYS:HG3	2.04	0.58
12:AP:109:VAL:HG12	12:AP:110:THR:N	2.18	0.58
55:DA:1056:G:H2'	55:DA:1057:A:OP2	2.04	0.58
56:DJ:5:ILE:O	56:DJ:9:LYS:N	2.33	0.58
58:DL:14:ALA:CB	58:DL:50:ASP:HB3	2.29	0.58
57:DY:100:ASN:ND2	57:DY:100:ASN:O	2.36	0.58
57:DY:89:ALA:HB2	57:DY:125:LEU:HD11	1.85	0.58
1:AA:897:C:OP2	1:AA:897:C:H6	1.87	0.58
31:BA:972:C:H4'	40:BM:57:LYS:HG3	1.85	0.58
42:CO:48:PRO:O	42:CO:49:ASN:ND2	2.37	0.58
52:CB:57:G:C5'	21:DV:182:LYS:HZ1	2.01	0.58
32:CE:7:VAL:HG22	32:CE:8:LYS:N	2.18	0.58
1:AA:1932:A:H2'	1:AA:1933:G:O4'	2.03	0.58
31:BA:412:A:O2'	31:BA:413:G:P	2.61	0.58
9:DM:4:TYR:CD2	16:D1:100:VAL:HG11	2.38	0.58
40:CM:38:ILE:HG13	40:CM:38:ILE:O	2.04	0.58
32:CE:221:LEU:O	32:CE:221:LEU:HD13	2.03	0.58
32:CE:71:VAL:HG21	32:CE:164:VAL:HG22	1.85	0.58
1:AA:2091:U:H3'	1:AA:2092:U:H5''	1.84	0.58
55:DA:2012:G:H4'	18:DS:96:ILE:HD11	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:DV:60:GLU:CG	21:DV:61:LEU:H	2.14	0.58
24:DW:14:ARG:NH1	24:DW:66:GLU:OE1	2.37	0.58
31:BA:957:U:H1'	31:BA:960:U:C6	2.39	0.58
54:CA:1196:U:O2	33:CF:162:GLN:NE2	2.37	0.58
52:CD:56:C:C6	55:DA:2169:A:N7	2.72	0.58
43:CP:11:ARG:CB	43:CP:11:ARG:HH11	2.16	0.58
43:CP:3:ARG:HH21	6:DG:139:LEU:HD13	1.67	0.58
16:D1:95:LEU:HD12	17:D2:11:GLN:NE2	2.18	0.58
8:AK:130:TYR:O	8:AK:136:VAL:HG13	2.04	0.58
31:BA:77:C:H2'	31:BA:78:G:C5'	2.25	0.58
1:AA:2656:U:C6	1:AA:2656:U:H3'	2.39	0.58
5:AF:7:TYR:CD2	5:AF:18:ARG:HB2	2.39	0.58
55:DA:594:U:OP1	30:D8:61:LEU:HD22	2.04	0.58
6:DG:67:LYS:HG3	26:D4:6:HIS:CE1	2.38	0.58
48:BU:22:VAL:C	48:BU:24:ALA:N	2.57	0.58
39:BL:95:LYS:HA	39:BL:99:LEU:HD23	1.86	0.58
42:BO:60:LEU:HD21	42:BO:66:VAL:CG2	2.33	0.58
1:AA:1060:U:O2	1:AA:1088:A:H8	1.85	0.58
43:CP:97:PRO:HA	43:CP:110:ARG:HD3	1.84	0.58
6:AG:115:ARG:HH22	43:BP:7:VAL:HB	1.69	0.58
3:AD:70:TRP:CH2	3:AD:150:LYS:HA	2.39	0.58
54:CA:1151:A:H2'	54:CA:1152:A:C8	2.38	0.58
31:BA:687:A:O2'	31:BA:688:G:OP2	2.21	0.58
55:DA:2662:A:H2'	55:DA:2663:G:O4'	2.04	0.58
31:BA:95:G:H2'	31:BA:96:G:H5'	1.85	0.58
1:AA:2126:A:HO2'	1:AA:2127:G:C5'	2.16	0.58
54:CA:31:G:O2'	54:CA:32:A:P	2.61	0.58
55:DA:2197:U:H1'	55:DA:2198:A:C8	2.38	0.58
26:D4:13:ARG:HB2	26:D4:30:GLU:HA	1.85	0.58
55:DA:2150:U:H2'	55:DA:2151:G:H8	1.65	0.58
9:AM:45:ASN:ND2	9:AM:45:ASN:H	2.02	0.58
8:DK:21:VAL:HG21	8:DK:25:TYR:CD1	2.39	0.58
7:AH:143:GLN:C	7:AH:143:GLN:HE21	2.07	0.58
50:BW:10:LEU:HD13	50:BW:10:LEU:O	2.04	0.58
24:AW:31:GLU:O	24:AW:34:GLU:N	2.36	0.58
54:CA:88:C:H3'	54:CA:89:U:C6	2.39	0.58
54:CA:1521:G:H2'	54:CA:1522:U:C6	2.39	0.58
55:DA:2688:U:H5	55:DA:2720:U:OP2	1.86	0.58
14:AQ:73:LEU:O	14:AQ:73:LEU:HD13	2.04	0.58
1:AA:1106:G:H2'	1:AA:1107:G:C8	2.39	0.58
55:DA:1973:G:H2'	55:DA:1974:C:C6	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:28:GLY:C	58:DL:30:HIS:H	2.07	0.58
8:DK:144:VAL:HG22	8:DK:145:VAL:N	2.18	0.58
55:DA:2038:G:H2'	55:DA:2039:C:C6	2.39	0.58
4:AE:203:LYS:HD3	4:AE:203:LYS:C	2.24	0.58
6:AG:53:LEU:C	6:AG:53:LEU:HD23	2.24	0.58
31:BA:998(A):C:O2'	31:BA:999:U:H5'	2.04	0.58
56:DJ:13:SER:C	56:DJ:17:VAL:CG2	2.69	0.58
58:DL:76:TYR:O	58:DL:77:LEU:C	2.43	0.58
57:DY:28:ASN:CB	57:DY:81:VAL:O	2.52	0.58
1:AA:387:U:OP2	1:AA:387:U:C6	2.56	0.58
28:D6:13:CYS:HB2	28:D6:22:ALA:O	2.04	0.58
55:DA:2776:A:HO2'	55:DA:2781:A:HO2'	1.52	0.58
32:CE:200:ILE:O	32:CE:201:ILE:HD13	2.04	0.58
43:CP:11:ARG:HH11	43:CP:11:ARG:HB3	1.69	0.58
43:CP:7:VAL:HB	6:DG:115:ARG:HH12	1.69	0.58
54:CA:1181:G:C2	54:CA:1182:G:N2	2.71	0.58
21:AV:92:SER:O	21:AV:94:GLU:N	2.37	0.58
55:DA:2135:A:H2'	55:DA:2136:C:OP1	2.03	0.58
3:AD:25:THR:HG21	3:AD:82:ILE:N	2.19	0.58
55:DA:228:A:O2'	55:DA:229:A:P	2.62	0.58
15:DR:105:LEU:HG	15:DR:105:LEU:O	2.03	0.58
1:AA:1826:G:H2'	1:AA:1827:C:H6	1.68	0.58
55:DA:320:A:H2'	5:DF:136:THR:HG21	1.85	0.58
43:CP:62:ASN:OD1	26:D4:49:PHE:HD2	1.87	0.58
54:CA:1321:C:C5	54:CA:1322:C:N3	2.71	0.58
1:AA:2469:A:H5'	1:AA:2470:G:C8	2.39	0.58
42:CO:38:THR:HG21	42:CO:65:GLU:OE2	2.03	0.58
31:BA:678:U:H2'	31:BA:679:C:C6	2.39	0.58
7:AH:54:ARG:HB2	7:AH:55:PRO:HD2	1.84	0.58
55:DA:2068:U:N3	55:DA:2430:A:H2	1.99	0.58
8:DK:47:LEU:HA	8:DK:50:ARG:HD3	1.86	0.58
35:CH:100:VAL:HG23	35:CH:116:THR:O	2.04	0.58
32:BE:86:GLU:C	32:BE:88:ALA:H	2.07	0.58
1:AA:273(E):U:C2'	1:AA:273(F):C:H5'	2.33	0.58
31:BA:1101:A:H4'	31:BA:1102:A:C4'	2.34	0.58
1:AA:2850:A:H5'	1:AA:2868:A:H2	1.69	0.58
39:CL:50:LEU:HB3	39:CL:55:ALA:O	2.03	0.58
14:AQ:108:GLY:O	14:AQ:110:LEU:N	2.36	0.58
7:AH:83:TYR:HA	7:AH:134:SER:CB	2.33	0.58
22:D3:24:LYS:O	22:D3:25:ARG:HG2	2.04	0.58
31:BA:1187:G:H21	44:BQ:60:SER:HB3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:DV:53:ILE:H	21:DV:71:VAL:CG1	2.16	0.58
10:AN:69:ILE:HD12	10:AN:77:ILE:O	2.02	0.58
55:DA:223:A:O2'	55:DA:420:C:O2	2.21	0.58
3:AD:165:ILE:HD13	3:AD:175:LEU:HD21	1.85	0.58
1:AA:372:G:O2'	1:AA:373:U:OP2	2.22	0.58
42:BO:117:ARG:HH21	42:BO:124:LYS:CA	2.17	0.58
13:A0:44:LEU:C	13:A0:44:LEU:HD13	2.24	0.58
1:AA:208:C:H2'	1:AA:209:C:C6	2.39	0.58
55:DA:270(P):C:H2'	55:DA:270(Q):C:C6	2.39	0.58
15:AR:82:LEU:N	15:AR:82:LEU:HD12	2.18	0.58
55:DA:1970:A:H5'	55:DA:1971:A:OP1	2.03	0.58
55:DA:2186:G:H2'	55:DA:2187:G:H8	1.69	0.58
34:BG:128:VAL:HG12	34:BG:129:ASN:ND2	2.19	0.58
10:DN:96:THR:O	10:DN:97:ARG:O	2.21	0.58
54:CA:838:G:C6	54:CA:842:C:H1'	2.38	0.58
13:A0:78:LYS:O	13:A0:82:GLU:HB3	2.04	0.58
15:AR:8:LYS:HB3	15:AR:8:LYS:NZ	2.18	0.57
55:DA:1059:G:H21	58:DL:126:MET:C	2.07	0.57
55:DA:1083:U:P	57:DY:47:ASN:OD1	2.62	0.57
57:DY:27:VAL:HG22	57:DY:80:VAL:HG11	1.84	0.57
57:DY:88:ALA:O	57:DY:91:LYS:N	2.36	0.57
57:DY:90:ALA:O	57:DY:94:VAL:CG2	2.51	0.57
26:A4:58:ARG:HA	26:A4:61:ARG:CB	2.34	0.57
49:BV:11:VAL:HG23	49:BV:38:SER:HB2	1.86	0.57
11:AO:63:PRO:O	11:AO:64:LYS:CB	2.52	0.57
21:DV:117:LEU:CD1	21:DV:117:LEU:H	2.13	0.57
21:DV:116:VAL:CG1	21:DV:117:LEU:N	2.66	0.57
43:BP:8:GLU:CD	43:BP:22:ILE:HA	2.24	0.57
51:BX:6:ARG:O	51:BX:12:LYS:HE3	2.04	0.57
23:DZ:49:VAL:HG11	23:DZ:70:VAL:HG11	1.86	0.57
40:BM:83:GLU:O	40:BM:86:MET:HB2	2.03	0.57
15:DR:3:ARG:O	15:DR:4:GLY:C	2.43	0.57
55:DA:1178:C:C2'	55:DA:1179:C:C6	2.75	0.57
16:A1:79:PHE:CE2	16:A1:83:LEU:HD13	2.34	0.57
55:DA:654(J):A:HO2'	55:DA:654(K):C:P	2.27	0.57
31:BA:429:U:H1'	31:BA:430:A:H5''	1.86	0.57
14:DQ:101:LEU:HD13	14:DQ:101:LEU:O	2.04	0.57
32:CE:42:ILE:CD1	32:CE:202:PRO:HB2	2.34	0.57
6:DG:106:LEU:HA	6:DG:110:ALA:HB3	1.85	0.57
17:D2:37:VAL:O	17:D2:37:VAL:HG23	2.04	0.57
21:AV:57:ILE:HG22	21:AV:58:VAL:N	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AZ:80:LEU:N	23:AZ:80:LEU:HD22	2.18	0.57
31:BA:1380:U:O2'	31:BA:1381:U:H5''	2.04	0.57
14:DQ:89:ARG:HG3	14:DQ:89:ARG:O	2.04	0.57
19:AT:21:PHE:C	19:AT:23:GLU:H	2.07	0.57
1:AA:1098:A:H2'	1:AA:1099:G:H5''	1.86	0.57
1:AA:638:G:H2'	1:AA:639:U:C6	2.39	0.57
15:DR:125:ARG:HA	15:DR:128:GLU:HB3	1.84	0.57
55:DA:1652:A:C2'	55:DA:1653:G:H5'	2.33	0.57
43:BP:67:GLU:O	43:BP:70:LEU:HD13	2.04	0.57
54:CA:1190:G:O2'	54:CA:1191:A:OP2	2.19	0.57
7:AH:86:GLU:O	7:AH:87:LEU:HG	2.04	0.57
34:BG:117:ALA:O	34:BG:121:VAL:HG23	2.04	0.57
1:AA:1913:A:C8	31:BA:1494:G:H4'	2.39	0.57
46:BS:20:VAL:HG23	46:BS:32:TYR:HB2	1.86	0.57
51:BX:26:LYS:HZ2	51:BX:26:LYS:HA	1.67	0.57
22:A3:6:GLY:O	22:A3:7:LEU:O	2.22	0.57
8:AK:128:LEU:O	8:AK:138:ILE:HG22	2.03	0.57
1:AA:1771:C:C1'	1:AA:1786:A:H8	2.16	0.57
4:AE:132:HIS:O	4:AE:134:ILE:N	2.37	0.57
4:AE:137:HIS:HB3	4:AE:138:PRO:CD	2.34	0.57
55:DA:2199:A:H5'	23:DZ:50:ARG:NH2	2.19	0.57
33:BF:73:PRO:HA	33:BF:76:VAL:HG13	1.85	0.57
18:DS:66:GLU:O	18:DS:68:ARG:N	2.37	0.57
11:AO:47:ASP:HB3	11:AO:48:PRO:O	2.04	0.57
6:AG:127:GLY:HA2	6:AG:166:ASP:CG	2.24	0.57
38:CK:39:LEU:HB3	38:CK:45:ILE:HG12	1.85	0.57
1:AA:2181:G:O2'	1:AA:2182:G:H5'	2.05	0.57
12:DP:109:VAL:CG1	12:DP:113:GLN:HB3	2.34	0.57
50:BW:41:ILE:O	50:BW:44:ALA:HB3	2.04	0.57
47:BT:59:ILE:CD1	47:BT:73:VAL:HA	2.33	0.57
31:BA:878:G:H5'	38:BK:89:PRO:HG2	1.86	0.57
55:DA:1543:A:O2'	55:DA:1544:C:P	2.61	0.57
54:CA:1072:G:H2'	54:CA:1073:U:H6	1.69	0.57
31:BA:84:U:H3'	31:BA:85:U:C5	2.39	0.57
55:DA:2349:G:OP2	30:D8:42:ARG:HD3	2.04	0.57
55:DA:2291:U:O2'	55:DA:2374:C:H1'	2.04	0.57
54:CA:940:C:O2'	54:CA:941:G:H5'	2.04	0.57
10:DN:63:VAL:HG12	10:DN:106:LEU:HD11	1.86	0.57
2:AB:5:C:O2'	2:AB:6:C:H5'	2.04	0.57
1:AA:302:C:O2'	1:AA:303:U:H5'	2.03	0.57
1:AA:19:C:H2'	1:AA:20:C:H6	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:21:VAL:HB	4:AE:22:PRO:HD2	1.86	0.57
4:AE:27:LEU:HA	4:AE:180:ASN:O	2.04	0.57
58:DL:18:THR:HG22	58:DL:38:VAL:HG12	1.70	0.57
58:DL:41:PHE:CD2	58:DL:45:THR:OG1	2.57	0.57
57:DY:29:TYR:CE2	57:DY:32:LEU:HD21	2.39	0.57
21:AV:140:ASP:O	21:AV:141:VAL:HG12	2.03	0.57
26:A4:57:GLU:O	26:A4:61:ARG:N	2.36	0.57
1:AA:1360:A:C5'	1:AA:1361:G:OP2	2.51	0.57
1:AA:2496:C:P	12:AP:81:VAL:HG13	2.44	0.57
3:DD:69:ARG:C	3:DD:71:ASP:H	2.06	0.57
54:CA:794:A:C5'	54:CA:794:A:H8	2.17	0.57
30:A8:62:LEU:HB2	30:A8:63:PRO:HD3	1.86	0.57
54:CA:1004:A:C2'	54:CA:1005:A:O5'	2.52	0.57
4:DE:37:ARG:HD3	4:DE:42:ASP:OD2	2.04	0.57
1:AA:448:U:O2'	5:AF:84:VAL:HG13	2.04	0.57
1:AA:991:C:H6	1:AA:991:C:H5'	1.69	0.57
20:AU:20:TYR:HE2	20:AU:42:VAL:N	2.03	0.57
32:CE:163:PHE:CE1	32:CE:215:LEU:HD22	2.39	0.57
32:CE:239:VAL:HG12	32:CE:240:GLN:NE2	2.19	0.57
52:BD:48:C:N4	52:BD:59:U:C2	2.72	0.57
55:DA:1142(A):A:HO2'	55:DA:1143:A:C5'	2.16	0.57
12:DP:75:THR:HA	12:DP:88:GLY:C	2.24	0.57
8:DK:77:LEU:HD13	8:DK:78:THR:N	2.18	0.57
55:DA:1933:G:C2'	55:DA:1934:C:H5''	2.33	0.57
1:AA:618:G:H5'	5:AF:107:LYS:HE2	1.85	0.57
3:AD:85:ASP:HB2	3:AD:92:ILE:HD13	1.85	0.57
55:DA:2712:U:H1'	55:DA:2712(A):A:N7	2.18	0.57
23:AZ:51:VAL:HG12	23:AZ:53:VAL:HG23	1.85	0.57
1:AA:1096:A:N7	1:AA:1097:U:H1'	2.20	0.57
1:AA:1099:G:H2'	1:AA:1100:C:H6	1.69	0.57
35:BH:101:ILE:HD13	35:BH:101:ILE:N	2.19	0.57
55:DA:298:G:P	20:DU:85:VAL:HG22	2.45	0.57
2:AB:8:U:H6	2:AB:8:U:C5'	2.16	0.57
31:BA:723:U:N3	31:BA:1537:U:O2'	2.37	0.57
31:BA:797:C:OP1	41:BN:124:LYS:HE2	2.04	0.57
55:DA:862:G:H2'	55:DA:863:A:O4'	2.04	0.57
10:AN:24:VAL:HA	10:AN:39:ILE:HG22	1.87	0.57
1:AA:2128:C:O2'	1:AA:2173:A:N3	2.36	0.57
46:BS:72:ARG:HH11	46:BS:73:LEU:HG	1.68	0.57
35:CH:9:LYS:HB3	35:CH:112:LEU:HD11	1.85	0.57
31:BA:216:G:O2'	31:BA:217:C:C5'	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CF:116:VAL:O	33:CF:119:ARG:HB3	2.03	0.57
1:AA:1645:G:C5'	1:AA:1646:C:H5'	2.33	0.57
1:AA:274:G:OP1	1:AA:274:G:O4'	2.22	0.57
10:AN:79:PHE:HE2	10:AN:101:PRO:HB2	1.69	0.57
14:AQ:106:ARG:HB2	14:AQ:106:ARG:NH1	2.18	0.57
1:AA:2298:A:H62	1:AA:2318:G:H8	1.52	0.57
47:BT:10:VAL:HG23	47:BT:55:ASP:O	2.04	0.57
23:DZ:41:ARG:HG3	23:DZ:41:ARG:HH11	1.69	0.57
38:BK:23:SER:HA	38:BK:63:LEU:CD2	2.34	0.57
55:DA:222:A:H3'	55:DA:421:U:C5'	2.33	0.57
55:DA:213:A:H2'	55:DA:214:G:O4'	2.04	0.57
41:CN:20:TYR:HB2	41:CN:31:THR:CG2	2.34	0.57
38:BK:7:ALA:HB2	38:BK:85:ARG:HD2	1.85	0.57
9:AM:74:ARG:HH12	9:AM:85:ILE:CD1	2.17	0.57
54:CA:256:U:H2'	54:CA:257:G:C8	2.39	0.57
50:BW:97:ALA:O	50:BW:99:LEU:HG	2.04	0.57
55:DA:2463:C:O2'	55:DA:2464:C:H5'	2.04	0.57
31:BA:91:C:H2'	31:BA:92:G:H5''	1.86	0.57
54:CA:1001:G:H8	54:CA:1001:G:H5'	1.67	0.57
4:DE:36:ARG:HH21	4:DE:86:PRO:HD2	1.70	0.57
55:DA:1057:A:H3'	55:DA:1058:U:C5	2.38	0.57
7:DH:169:VAL:HG22	7:DH:170:ARG:H	1.69	0.57
58:DL:62:ASP:O	58:DL:63:ARG:CB	2.52	0.57
55:DA:1059:G:O2'	58:DL:73:PRO:HG2	2.04	0.57
58:DL:76:TYR:C	58:DL:78:ILE:H	2.07	0.57
58:DL:8:VAL:O	58:DL:57:ILE:HB	2.04	0.57
57:DY:25:PHE:CD1	57:DY:82:PHE:CZ	2.93	0.57
21:AV:114:GLY:O	21:AV:115:GLY:C	2.42	0.57
21:AV:175:VAL:CB	21:AV:176:PRO:HD2	2.31	0.57
11:AO:62:LEU:HD23	11:AO:64:LYS:HD2	1.86	0.57
12:AP:39:PRO:HA	12:AP:97:VAL:O	2.05	0.57
46:CS:8:ARG:O	46:CS:9:PHE:HD2	1.86	0.57
54:CA:1004:A:C5'	54:CA:1025:U:O4	2.52	0.57
4:DE:75:VAL:O	4:DE:76:ARG:HG3	2.05	0.57
1:AA:1484:G:H2'	1:AA:1485:G:C5'	2.13	0.57
1:AA:2554:U:O2	52:BB:74:C:C5	2.57	0.57
6:AG:81:LYS:H	6:AG:81:LYS:HD3	1.69	0.57
4:AE:34:VAL:CG1	4:AE:64:LYS:HD3	2.34	0.57
9:DM:43:THR:HB	9:DM:46:VAL:HG11	1.84	0.57
39:BL:66:ARG:HB3	39:BL:66:ARG:CZ	2.34	0.57
8:DK:78:THR:O	8:DK:79:ILE:HG12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:329:G:C6	20:AU:19:LYS:HG2	2.39	0.57
20:AU:95:LYS:NZ	20:AU:96:ILE:O	2.37	0.57
55:DA:2815:C:H2'	55:DA:2816:C:H6	1.69	0.57
54:CA:1347:G:C2'	54:CA:1348:U:OP2	2.51	0.57
35:CH:94:ALA:HB2	35:CH:119:LEU:HG	1.85	0.57
35:BH:101:ILE:H	35:BH:101:ILE:HD13	1.68	0.57
1:AA:2319:G:H5''	1:AA:2320:A:OP1	2.04	0.57
33:BF:59:ARG:HG2	33:BF:64:VAL:HG22	1.86	0.57
50:BW:70:SER:O	50:BW:71:THR:C	2.41	0.57
50:BW:74:LYS:C	50:BW:76:ALA:N	2.58	0.57
54:CA:428:G:C2	54:CA:430:A:N6	2.72	0.57
55:DA:943:U:OP2	11:DO:36:LYS:CG	2.52	0.57
26:D4:39:CYS:C	26:D4:41:PRO:HD3	2.23	0.57
55:DA:565:C:H4'	55:DA:1253:A:C6	2.38	0.57
55:DA:2614:A:H4'	55:DA:2615:U:OP1	2.04	0.57
1:AA:2317:C:O2'	1:AA:2318:G:H5'	2.04	0.57
48:BU:31:LEU:HD23	48:BU:31:LEU:H	1.68	0.57
52:BC:38:A:C2'	52:BC:39:U:H5'	2.34	0.57
42:BO:89:ARG:HA	42:BO:97:ARG:HA	1.86	0.57
37:CJ:78:ARG:HG3	37:CJ:79:ARG:N	2.19	0.57
31:BA:328:C:O2'	31:BA:329:A:OP2	2.18	0.57
54:CA:328:C:H4'	54:CA:329:A:C5'	2.34	0.57
31:BA:1059:C:O2	40:BM:53:PRO:HG3	2.05	0.57
31:BA:598:U:H2'	31:BA:599:C:C6	2.38	0.57
55:DA:2895:U:H2'	55:DA:2896:C:C6	2.39	0.57
54:CA:136:C:H2'	54:CA:137:C:C6	2.39	0.57
49:CV:69:HIS:HB3	49:CV:73:GLU:OE2	2.04	0.57
1:AA:2300:G:H2'	1:AA:2301:C:C6	2.39	0.57
6:DG:137:GLU:HB3	6:DG:152:LEU:HD13	1.86	0.57
1:AA:1517:G:O2'	1:AA:1518:C:H5'	2.04	0.57
52:CC:72:C:C2'	52:CC:73:A:H5'	2.34	0.57
7:DH:169:VAL:HG22	7:DH:170:ARG:N	2.18	0.57
58:DL:92:GLY:O	58:DL:135:GLY:O	2.22	0.57
57:DY:46:GLN:HE21	57:DY:46:GLN:HA	1.70	0.57
21:AV:175:VAL:HG12	21:AV:177:PRO:HD3	0.61	0.57
28:A6:29:ASN:N	28:A6:29:ASN:ND2	2.52	0.57
1:AA:1371:G:O2'	1:AA:1372:U:H5	1.87	0.57
12:AP:7:MET:CB	12:AP:10:ARG:HE	2.17	0.57
54:CA:528:C:H41	42:CO:49:ASN:ND2	2.03	0.57
26:A4:7:PRO:O	26:A4:8:LYS:O	2.22	0.57
2:AB:40:U:O4	26:A4:1:MET:HG2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A8:50:LEU:O	30:A8:51:ALA:CB	2.52	0.57
54:CA:1036:G:H3'	54:CA:1037:C:C5	2.38	0.57
4:DE:61:ARG:O	4:DE:63:LEU:N	2.38	0.57
46:CS:53:VAL:O	46:CS:57:ARG:HG2	2.05	0.57
14:DQ:106:ARG:N	14:DQ:110:LEU:HD21	2.20	0.57
1:AA:387:U:H6	1:AA:387:U:P	2.27	0.57
1:AA:1925:C:C2'	1:AA:1925:C:O2	2.48	0.57
34:BG:24:GLU:N	34:BG:27:TYR:CB	2.67	0.57
9:DM:46:VAL:HG13	9:DM:48:MET:HG3	1.85	0.57
7:DH:143:GLN:HE21	7:DH:143:GLN:C	2.08	0.57
32:CE:207:ALA:O	32:CE:209:ARG:N	2.37	0.57
31:BA:1024:G:C2'	31:BA:1025:U:H5''	2.33	0.57
1:AA:2572:A:N7	4:AE:144:ARG:HD2	2.18	0.57
1:AA:654(J):A:N1	1:AA:654(L):G:O6	2.38	0.57
54:CA:689:C:C2'	54:CA:690:G:H5'	2.34	0.57
31:BA:1174:G:H2'	31:BA:1175:G:H8	1.69	0.57
54:CA:1106:G:H2'	54:CA:1107:C:C6	2.39	0.57
21:DV:72:ARG:NH1	21:DV:72:ARG:HG3	2.19	0.57
52:BB:11:C:H2'	52:BB:12:U:C6	2.39	0.57
37:BJ:20:ASP:OD2	37:BJ:22:LEU:HB3	2.04	0.57
54:CA:1322:C:H5'	43:CP:100:GLY:HA2	1.85	0.57
55:DA:2656:U:O4	55:DA:2657:A:C5	2.57	0.57
8:AK:41:GLU:HA	8:AK:44:LEU:HB2	1.87	0.57
19:DT:49:VAL:HG11	19:DT:83:VAL:HG22	1.86	0.57
12:AP:57:HIS:CE1	12:AP:113:GLN:HE21	2.16	0.57
15:DR:33:LYS:HE2	15:DR:84:GLN:HB3	1.86	0.57
1:AA:49:A:H1'	1:AA:51:G:C5	2.38	0.57
32:CE:96:ARG:N	32:CE:96:ARG:HD2	2.19	0.57
24:AW:16:LEU:HD12	24:AW:16:LEU:O	2.03	0.57
55:DA:27:G:N2	55:DA:512:G:H2'	2.19	0.57
31:BA:47:C:H5''	31:BA:48:C:OP1	2.05	0.57
35:BH:102:ALA:HB1	35:BH:106:PRO:CG	2.34	0.57
47:BT:67:LYS:O	47:BT:68:ARG:C	2.42	0.57
31:BA:89:U:H2'	31:BA:90:C:C6	2.39	0.57
55:DA:654(G):C:H2'	55:DA:654(H):G:N7	2.19	0.57
15:AR:36:GLU:OE1	15:AR:41:ARG:HD2	2.04	0.57
18:AS:1:MET:HE2	18:AS:2:GLU:O	2.04	0.57
1:AA:755:C:H2'	1:AA:756:C:C6	2.39	0.57
36:BI:50:TYR:CE2	36:BI:52:ILE:HD11	2.40	0.57
12:DP:32:TYR:CZ	12:DP:111:GLU:HB3	2.39	0.57
1:AA:315:G:H2'	1:AA:316:C:C6	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:148:GLU:HB2	3:DD:151:LYS:HD2	1.86	0.57
42:BO:17:LYS:C	42:BO:17:LYS:HD3	2.25	0.57
31:BA:1041:A:H2'	31:BA:1042:G:O4'	2.05	0.57
1:AA:2472:G:N1	1:AA:2477:C:OP1	2.36	0.57
31:BA:1251:A:H2'	31:BA:1252:A:C8	2.39	0.57
56:DI:3:LEU:CD2	56:DI:4:ASP:N	2.67	0.57
56:DJ:11:GLU:C	56:DJ:17:VAL:HG11	2.25	0.57
58:DL:101:TRP:HD1	58:DL:101:TRP:N	1.95	0.57
58:DL:90:LYS:HE3	58:DL:92:GLY:HA2	1.85	0.57
57:DY:32:LEU:N	57:DY:32:LEU:HD22	2.19	0.57
21:DV:111:VAL:O	21:DV:112:ARG:O	2.22	0.57
54:CA:1054:C:O2'	54:CA:1055:A:H5''	2.04	0.57
1:AA:387:U:O2'	1:AA:388:G:OP2	2.19	0.57
20:DU:75:ILE:C	20:DU:75:ILE:HD13	2.24	0.57
31:BA:404:U:H2'	31:BA:405:U:C6	2.39	0.57
4:AE:87:GLU:O	4:AE:89:ASP:N	2.37	0.57
11:DO:96:THR:HG22	11:DO:126:VAL:CG2	2.34	0.57
17:D2:41:GLY:H	17:D2:46:VAL:HG13	1.69	0.57
17:D2:49:THR:HB	17:D2:50:PRO:HD2	1.84	0.57
54:CA:1347:G:H22	54:CA:1373:G:H2'	1.70	0.57
39:CL:112:LYS:HD3	39:CL:113:LYS:N	2.19	0.57
55:DA:2462:U:H1'	55:DA:2491:U:O4	2.04	0.57
54:CA:91:C:C2'	54:CA:92:G:H5''	2.34	0.57
54:CA:95:G:H2'	54:CA:96:G:H5''	1.87	0.57
43:CP:87:TYR:HA	43:CP:90:LEU:HG	1.86	0.57
1:AA:1088:A:H4'	1:AA:1089:G:C8	2.39	0.57
54:CA:437:U:C2'	54:CA:438:G:H5'	2.34	0.57
54:CA:825:G:O2'	54:CA:826:C:H5'	2.05	0.57
41:BN:116:HIS:O	41:BN:117:ASN:HB2	2.04	0.57
40:CM:13:HIS:HB3	40:CM:68:HIS:CE1	2.40	0.57
52:BC:60:U:H5''	52:BC:61:C:H5	1.70	0.57
55:DA:195:A:OP1	11:DO:46:LYS:HE2	2.03	0.57
4:AE:132:HIS:O	4:AE:134:ILE:HG23	2.05	0.57
14:AQ:9:ARG:O	14:AQ:12:PHE:HB2	2.05	0.57
20:DU:88:LYS:C	20:DU:90:LEU:H	2.07	0.57
7:DH:50:VAL:HG22	7:DH:50:VAL:O	2.05	0.57
15:DR:41:ARG:NH2	15:DR:43:GLN:HB3	2.19	0.57
55:DA:871:U:C2'	55:DA:871:U:O2	2.47	0.57
21:AV:150:LEU:HD23	21:AV:150:LEU:C	2.25	0.57
58:DL:98:ARG:HB3	58:DL:98:ARG:NH1	2.19	0.57
3:DD:166:GLN:HE21	3:DD:166:GLN:N	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BW:13:LEU:HD12	50:BW:13:LEU:N	2.19	0.57
5:DF:110:LEU:HD11	5:DF:181:LEU:CD1	2.35	0.57
15:AR:98:LYS:HE3	15:AR:98:LYS:CA	2.35	0.57
31:BA:345:C:O2'	31:BA:346:G:N3	2.38	0.57
55:DA:271(B):G:O2'	55:DA:271(C):U:OP2	2.22	0.57
25:AX:23:LEU:HG	25:AX:50:VAL:HG11	1.85	0.57
55:DA:874:G:O2'	55:DA:875:G:H5'	2.05	0.57
32:CE:21:ARG:HG3	32:CE:38:GLY:C	2.25	0.57
1:AA:718:A:H2'	1:AA:719:C:O4'	2.04	0.57
48:BU:30:ASP:OD2	48:BU:32:ARG:HB3	2.03	0.57
58:DL:140:GLY:O	58:DL:141:ALA:CB	2.47	0.57
57:DY:122:VAL:O	57:DY:123:GLU:C	2.40	0.57
57:DY:135:ARG:HH11	57:DY:138:LEU:CG	2.06	0.57
57:DY:24:PHE:O	57:DY:25:PHE:C	2.43	0.57
57:DY:50:ARG:N	57:DY:83:TYR:CB	2.68	0.57
31:BA:1316:G:C2'	31:BA:1317:C:H5''	2.35	0.57
31:BA:1320:C:C4	49:BV:36:ARG:HG3	2.39	0.57
49:BV:36:ARG:HH21	49:BV:75:ALA:HB3	1.68	0.57
43:BP:81:LEU:HD21	43:BP:88:ARG:NH1	2.19	0.57
6:AG:99:MET:HG3	6:AG:100:TRP:N	2.18	0.57
1:AA:1379:A:O2'	1:AA:1380:G:P	2.61	0.57
15:AR:16:ARG:HE	15:AR:19:LEU:HD11	1.68	0.57
4:DE:37:ARG:HB3	4:DE:42:ASP:CG	2.25	0.57
16:A1:88:ILE:C	16:A1:90:VAL:N	2.57	0.57
17:A2:49:THR:CB	17:A2:50:PRO:CD	2.81	0.57
9:DM:68:GLU:HG2	9:DM:88:GLU:OE2	2.04	0.57
26:D4:42:PHE:C	26:D4:42:PHE:CD1	2.77	0.57
20:AU:94:LYS:NZ	20:AU:101:LYS:NZ	2.52	0.57
20:AU:62:GLU:CD	20:AU:63:LYS:H	2.08	0.57
20:AU:8:LYS:O	20:AU:27:VAL:HG21	2.04	0.57
1:AA:2531:A:H61	1:AA:2662:A:N6	2.02	0.57
5:AF:122:LYS:HD2	5:AF:191:ARG:HG2	1.85	0.57
5:AF:124:LEU:O	5:AF:126:VAL:N	2.37	0.57
5:AF:113:ALA:HB1	5:AF:186:ILE:HG21	1.86	0.57
5:AF:107:LYS:HB3	5:AF:206:ILE:CG2	2.34	0.57
1:AA:2426:A:C4'	1:AA:2427:C:OP2	2.51	0.57
1:AA:27:G:N2	1:AA:512:G:H2'	2.18	0.57
1:AA:1312:U:H4'	1:AA:1313:U:O5'	2.04	0.57
22:A3:83:PRO:O	22:A3:84:LEU:O	2.23	0.57
38:CK:100:ILE:HB	38:CK:125:ARG:NH1	2.20	0.57
31:BA:1177:G:H2'	31:BA:1178:G:N3	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:59:VAL:CG2	18:AS:65:LEU:H	2.15	0.57
11:AO:106:LEU:O	11:AO:107:LYS:HB2	2.05	0.57
7:DH:12:PRO:HG3	7:DH:48:GLY:O	2.05	0.57
7:DH:13:LYS:CA	7:DH:13:LYS:HE2	2.30	0.57
42:BO:62:SER:O	42:BO:64:TYR:N	2.38	0.57
55:DA:1885:A:H3'	55:DA:1886:C:C6	2.39	0.57
55:DA:1480:G:O6	55:DA:1510:A:C2	2.58	0.57
31:BA:922:G:N3	31:BA:1398:A:H2	2.02	0.57
12:AP:20:ALA:HA	12:AP:99:PRO:HG2	1.87	0.57
52:BC:57:G:H2'	52:BC:58:A:H5''	1.86	0.57
19:DT:49:VAL:HG11	19:DT:83:VAL:CG2	2.35	0.57
1:AA:363(B):G:O2'	1:AA:363(C):G:H5'	2.04	0.57
32:BE:82:ARG:HA	32:BE:92:TYR:CE1	2.40	0.57
1:AA:1320:C:H5	1:AA:1329:U:H5'	1.69	0.57
7:AH:89:ILE:HD11	7:AH:129:THR:CB	2.34	0.57
55:DA:2427:C:H5''	55:DA:2428:G:OP1	2.05	0.57
55:DA:1204:A:O2'	55:DA:1205:U:H5''	2.04	0.57
55:DA:1012:U:O4	9:DM:25:ARG:HA	2.04	0.57
1:AA:1796:U:H2'	1:AA:1797:C:H6	1.67	0.57
32:BE:141:GLU:O	32:BE:145:LEU:HB2	2.04	0.57
15:DR:66:VAL:HG12	15:DR:67:SER:N	2.19	0.57
34:CG:111:ALA:HB2	34:CG:120:LEU:CD1	2.34	0.57
1:AA:68:G:H3'	1:AA:69:C:C6	2.39	0.57
51:CX:10:ARG:HG2	51:CX:13:ILE:HD12	1.86	0.57
1:AA:30:G:H2'	1:AA:31:C:H6	1.68	0.57
54:CA:939:G:H2'	54:CA:940:C:C6	2.38	0.57
52:CD:37:MIA:H131	52:CD:37:MIA:N1	2.20	0.57
34:BG:132:ARG:HG3	34:BG:132:ARG:O	2.05	0.57
36:CI:22:GLU:O	36:CI:26:ILE:HG13	2.05	0.57
11:AO:94:GLU:O	11:AO:96:THR:HG23	2.05	0.57
1:AA:412:A:H2'	1:AA:413:C:H5'	1.87	0.57
55:DA:1472:A:H2'	55:DA:1473:G:O4'	2.04	0.57
6:AG:72:ARG:HG3	6:AG:72:ARG:HH11	1.68	0.57
55:DA:2602:A:OP2	55:DA:2603:G:H5''	2.04	0.57
21:AV:135:GLU:HG3	21:AV:136:PHE:CD2	2.39	0.57
1:AA:2820:A:N6	4:AE:192:ASN:CA	2.66	0.57
56:DJ:13:SER:HG	56:DJ:17:VAL:HG22	1.64	0.57
56:DJ:9:LYS:O	56:DJ:9:LYS:NZ	2.37	0.57
57:DY:49:ALA:C	57:DY:83:TYR:CD1	2.73	0.57
57:DY:75:GLN:HE21	57:DY:75:GLN:CA	2.16	0.57
21:DV:192:ALA:C	21:DV:194:PRO:HD2	2.24	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BQ:12:ARG:HG2	44:BQ:14:PRO:CD	2.28	0.57
1:AA:1371:G:HO2'	1:AA:1372:U:H5	1.51	0.57
1:AA:946:G:H2'	1:AA:947:G:O5'	2.02	0.57
2:AB:86:G:O2'	2:AB:87:G:H5'	2.05	0.57
21:DV:140:ASP:C	21:DV:141:VAL:HG23	2.25	0.57
6:AG:67:LYS:NZ	26:A4:6:HIS:CE1	2.71	0.57
49:BV:6:LYS:H	49:BV:6:LYS:HD2	1.69	0.57
54:CA:1004:A:O4'	54:CA:1036:G:O6	2.22	0.57
4:DE:34:VAL:HG21	4:DE:77:ILE:CG2	2.34	0.57
21:DV:120:ILE:HB	21:DV:171:ILE:N	2.18	0.57
20:DU:77:PRO:O	20:DU:78:ALA:HB2	2.05	0.57
31:BA:413:G:O2'	31:BA:428:G:N2	2.38	0.57
32:CE:17:PHE:HB3	32:CE:44:LEU:HD11	1.87	0.57
32:CE:209:ARG:HD3	32:CE:240:GLN:OE1	2.04	0.57
31:BA:957:U:H1'	31:BA:960:U:C5	2.39	0.57
13:A0:37:THR:HG22	13:A0:39:PRO:CD	2.26	0.57
1:AA:654(D):G:N3	1:AA:654(D):G:H2'	2.18	0.57
32:BE:9:GLU:O	32:BE:12:GLU:HG3	2.03	0.57
3:DD:43:ARG:HD2	3:DD:49:ILE:HG22	1.87	0.57
4:AE:199:ARG:NH1	4:AE:199:ARG:HB2	2.19	0.57
1:AA:75:G:H4'	24:AW:55:ARG:HH21	1.69	0.57
24:AW:48:HIS:O	24:AW:52:ASP:HB2	2.04	0.57
5:AF:178:PRO:HB3	5:AF:198:ALA:HB1	1.87	0.57
54:CA:1376:U:H2'	54:CA:1377:A:H8	1.68	0.57
39:CL:112:LYS:HD3	39:CL:113:LYS:O	2.05	0.57
48:BU:23:LYS:HE2	48:BU:57:GLY:O	2.04	0.57
36:BI:10:LEU:HD12	36:BI:10:LEU:N	2.20	0.57
7:DH:37:VAL:CG1	7:DH:38:SER:H	2.16	0.57
1:AA:322:A:OP1	5:AF:169:ASN:HB2	2.04	0.57
55:DA:1138:G:H21	9:DM:106:MET:CE	2.13	0.57
1:AA:752:A:C6	1:AA:1781:C:O4'	2.58	0.57
7:AH:26:VAL:HG13	7:AH:27:LYS:H	1.70	0.57
54:CA:50:A:HO2'	54:CA:52:G:H8	1.46	0.57
11:DO:50:ARG:HH21	11:DO:50:ARG:HB2	1.67	0.57
11:DO:9:ASN:CB	11:DO:10:PRO:HD2	2.35	0.57
49:CV:7:LYS:HB2	49:CV:7:LYS:NZ	2.20	0.57
39:CL:23:ASN:HB2	39:CL:25:LYS:HG2	1.87	0.57
55:DA:1678:G:N2	55:DA:1989:G:H1	2.02	0.57
24:AW:68:ARG:HG3	24:AW:68:ARG:NH1	2.20	0.57
52:CB:10:G:H3'	52:CB:11:C:H5	1.69	0.57
38:CK:1:MET:CE	38:CK:1:MET:H3	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:401:A:H2'	1:AA:402:A:O4'	2.04	0.57
21:AV:11:GLU:CG	21:AV:12:GLY:N	2.66	0.57
14:AQ:36:TYR:CD2	14:AQ:52:SER:HB3	2.40	0.57
52:CB:37:MIA:C16	52:CB:37:MIA:N6	2.67	0.57
31:BA:1449:C:H3'	31:BA:1450:U:H4'	1.85	0.57
55:DA:2741:A:H2'	55:DA:2742:C:O4'	2.05	0.57
1:AA:1299:G:H5''	1:AA:1300:U:H5''	1.86	0.57
1:AA:1777:U:O2'	1:AA:1778:U:H5'	2.05	0.57
15:DR:56:GLY:C	15:DR:57:PHE:O	2.41	0.57
55:DA:1079:C:C3'	55:DA:1080:A:C8	2.86	0.57
58:DL:106:GLU:HA	58:DL:109:LYS:CB	2.35	0.57
58:DL:7:VAL:CG1	58:DL:58:THR:H	2.03	0.57
57:DY:122:VAL:CG1	57:DY:126:ALA:CB	2.78	0.57
57:DY:30:GLN:OE1	57:DY:79:ALA:HB1	2.05	0.57
21:AV:144:LEU:HD13	21:AV:146:ILE:O	2.05	0.57
1:AA:1359:A:OP2	1:AA:1359:A:C8	2.57	0.57
12:AP:42:ILE:HG22	12:AP:47:ILE:HG13	1.86	0.57
3:DD:65:ILE:CD1	3:DD:65:ILE:N	2.67	0.57
43:BP:4:ILE:HG12	43:BP:5:ALA:N	2.19	0.57
54:CA:1053:G:C4'	54:CA:1054:C:H5'	2.35	0.57
16:A1:83:LEU:HG	16:A1:88:ILE:HG13	1.86	0.57
16:A1:92:ARG:O	16:A1:94:ASN:N	2.37	0.57
55:DA:2683:C:H4'	4:DE:13:ARG:NH2	2.19	0.57
34:BG:11:LEU:C	34:BG:13:ARG:N	2.55	0.57
6:AG:47:LYS:HD3	6:AG:81:LYS:HB2	1.85	0.57
9:DM:36:GLY:O	9:DM:42:TRP:HB2	2.05	0.57
40:BM:7:LYS:HG3	40:BM:71:LEU:HD13	1.85	0.57
2:AB:74:U:C3'	2:AB:75:G:H5''	2.35	0.57
5:AF:123:LEU:CD1	5:AF:192:LEU:HD22	2.34	0.57
39:CL:86:VAL:O	39:CL:90:PRO:HA	2.04	0.57
55:DA:779:U:OP1	3:DD:49:ILE:HG12	2.04	0.57
4:AE:197:ILE:HD11	4:AE:199:ARG:CZ	2.35	0.57
55:DA:1926:U:C6	55:DA:1928:A:OP2	2.57	0.57
35:CH:142:LEU:O	35:CH:143:ARG:NH1	2.29	0.57
9:AM:137:LYS:HZ3	9:AM:137:LYS:HA	1.70	0.57
12:AP:134:ARG:NH2	21:AV:122:ARG:NH1	2.52	0.57
21:AV:122:ARG:HD3	21:AV:123:ASP:OD2	2.04	0.57
31:BA:1055:A:H4'	33:BF:161:GLU:OE2	2.04	0.57
31:BA:1199:U:H4'	40:BM:54:PHE:CE1	2.39	0.57
55:DA:1043:C:H2'	55:DA:1044:G:C5'	2.30	0.57
10:DN:75:SER:CB	15:DR:74:ARG:HH12	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:181:GLU:CA	3:DD:272:ALA:HB3	2.35	0.57
55:DA:729:G:C5	3:DD:208:LYS:HB2	2.40	0.57
31:BA:751:U:H2'	31:BA:752:G:O4'	2.04	0.57
1:AA:1291:C:H5''	1:AA:1536:A:H5''	1.86	0.57
46:BS:18:ARG:O	46:BS:20:VAL:HG12	2.04	0.57
54:CA:164:U:H2'	54:CA:165:C:H6	1.68	0.57
40:CM:46:ARG:HA	40:CM:64:GLU:HA	1.86	0.57
2:AB:31:C:H2'	2:AB:31:C:O2	2.04	0.57
7:DH:28:GLY:HA3	7:DH:79:VAL:HB	1.86	0.57
54:CA:263:A:OP2	50:CW:79:ARG:NH1	2.34	0.57
55:DA:2334:G:H4'	55:DA:2335:A:OP2	2.04	0.57
36:BI:68:PRO:HG3	36:BI:71:ARG:NH2	2.20	0.57
31:BA:85:U:C2'	31:BA:86:U:OP1	2.53	0.57
1:AA:521:G:H2'	1:AA:522:G:C8	2.38	0.57
54:CA:1292:U:O2'	54:CA:1293:G:H5'	2.05	0.57
55:DA:270(P):C:O2'	55:DA:270(Q):C:H5'	2.04	0.57
1:AA:234:C:H2'	1:AA:235:U:H6	1.70	0.57
1:AA:2095:C:H2'	1:AA:2096:U:O4'	2.05	0.57
46:BS:34:GLU:OE2	46:BS:55:ARG:HD3	2.05	0.57
49:CV:11:VAL:HG23	49:CV:38:SER:HB2	1.86	0.57
7:DH:40:GLU:O	7:DH:41:MET:HB2	2.05	0.57
6:AG:23:PHE:HB2	6:AG:25:TYR:CE2	2.40	0.57
55:DA:865:C:H5'	55:DA:866:A:OP1	2.04	0.57
4:AE:179:GLU:HB3	4:AE:181:LEU:HD23	1.86	0.57
56:DI:28:LYS:C	56:DJ:2:ALA:HB1	2.24	0.57
58:DL:111:LYS:CD	58:DL:111:LYS:N	2.67	0.57
58:DL:95:LYS:C	58:DL:97:GLY:N	2.56	0.57
57:DY:61:LEU:C	57:DY:63:LEU:N	2.58	0.57
1:AA:893:C:C2	1:AA:894:C:C5	2.92	0.57
49:BV:20:LEU:HD22	49:BV:43:GLU:HG2	1.85	0.57
1:AA:888:C:HO2'	1:AA:889:C:P	2.24	0.57
12:AP:12:GLN:HE21	12:AP:73:PRO:HD3	1.69	0.57
55:DA:895:U:H5''	55:DA:896:A:OP2	2.05	0.57
21:DV:110:GLY:O	21:DV:111:VAL:C	2.43	0.57
21:DV:110:GLY:HA3	21:DV:144:LEU:O	2.05	0.57
21:DV:179:ASP:O	21:DV:180:VAL:CB	2.52	0.57
3:DD:101:GLU:OE1	3:DD:103:ARG:HD3	2.05	0.57
27:D5:56:LYS:HG2	27:D5:58:LEU:HG	1.87	0.57
26:D4:55:ARG:HD2	26:D4:56:VAL:HG23	1.85	0.57
55:DA:481:G:O2'	55:DA:507:A:N6	2.37	0.57
54:CA:965:A:H4'	54:CA:966:G:O5'	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1485:G:O2'	55:DA:1486:A:H5'	2.05	0.57
1:AA:458:G:O2'	1:AA:459:U:O5'	2.22	0.57
34:BG:11:LEU:O	34:BG:12:CYS:C	2.43	0.57
1:AA:1041:C:H2'	1:AA:1042:G:C8	2.39	0.57
10:AN:99:PHE:CD2	10:AN:99:PHE:N	2.73	0.57
5:AF:187:VAL:HG11	11:AO:6:LEU:HD21	1.86	0.57
54:CA:188:U:C2'	54:CA:189:U:H5''	2.27	0.57
54:CA:190:G:N3	54:CA:190:G:H2'	2.20	0.57
32:BE:45:GLN:O	32:BE:49:GLU:HG2	2.03	0.57
20:AU:13:VAL:HG22	20:AU:14:LEU:O	2.04	0.57
11:AO:80:TYR:CE1	11:AO:111:ARG:HB3	2.40	0.57
1:AA:1281:G:H2'	1:AA:1282:U:O4'	2.04	0.57
55:DA:1165:U:C2	55:DA:1166:C:C5	2.92	0.57
53:C1:56:U:O2	53:C1:56:U:H3'	2.03	0.57
31:BA:501:C:O2'	31:BA:502:G:H5'	2.05	0.57
33:BF:6:HIS:CD2	33:BF:7:PRO:HD2	2.39	0.57
17:D2:76:LYS:HB2	17:D2:81:TYR:HB3	1.84	0.57
12:DP:20:ALA:O	12:DP:21:THR:HG23	2.04	0.57
1:AA:1290:C:H2'	1:AA:1291:C:C6	2.40	0.57
46:BS:38:TYR:CZ	46:BS:50:LYS:HB3	2.40	0.57
1:AA:1954:G:O2'	1:AA:1956:U:H5	1.86	0.57
31:BA:553:A:H2'	31:BA:554:C:C6	2.39	0.57
14:AQ:14:VAL:HG21	14:AQ:89:ARG:HH11	1.70	0.57
54:CA:197:A:N6	54:CA:221:C:C5'	2.68	0.57
55:DA:2723:C:C4'	13:D0:1:MET:HG2	2.34	0.57
31:BA:235:C:H1'	47:BT:61:GLU:OE1	2.05	0.57
1:AA:1168:G:H2'	1:AA:1169:G:H8	1.68	0.57
54:CA:1032:A:N7	54:CA:1032(A):G:H1'	2.19	0.57
31:BA:1469:G:H2'	31:BA:1470:G:C8	2.40	0.57
49:CV:11:VAL:HG13	49:CV:16:LEU:HD22	1.85	0.57
54:CA:337:C:H2'	54:CA:338:A:C8	2.40	0.57
16:D1:62:ILE:HG23	16:D1:76:TYR:CE1	2.40	0.57
31:BA:1273:G:H3'	31:BA:1274:G:H8	1.70	0.57
19:AT:41:ASN:O	19:AT:45:THR:HG23	2.04	0.57
52:CB:62:C:O2'	52:CB:63:G:H5'	2.05	0.57
54:CA:1019:C:O2'	54:CA:1020:U:H5'	2.05	0.57
55:DA:1731:G:H8	55:DA:1731:G:OP2	1.88	0.57
35:CH:147:ASP:O	35:CH:151:LEU:HG	2.04	0.57
55:DA:1079:C:O2	58:DL:129:GLY:HA3	2.04	0.57
56:DI:21:LYS:HA	56:DI:24:ILE:CD1	2.33	0.57
57:DY:130:THR:HG21	56:DJ:14:GLN:OE1	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DI:28:LYS:C	56:DJ:2:ALA:CB	2.74	0.57
57:DY:71:LEU:HB3	57:DY:113:GLN:HB3	0.60	0.57
57:DY:122:VAL:O	57:DY:126:ALA:N	2.31	0.57
57:DY:2:PRO:CG	57:DY:3:ASN:N	2.52	0.57
28:A6:9:LEU:HD23	28:A6:10:LEU:H	1.70	0.57
1:AA:971:C:H2'	1:AA:972:G:C5'	2.35	0.57
52:CB:60:U:H5'	52:CB:61:C:OP2	2.04	0.57
21:DV:178:GLU:OE1	21:DV:180:VAL:CA	2.53	0.57
3:DD:80:ALA:HB3	3:DD:94:LEU:CD1	2.34	0.57
43:BP:48:LEU:HD23	43:BP:48:LEU:H	1.70	0.57
23:DZ:85:LEU:N	23:DZ:85:LEU:HD22	2.20	0.57
54:CA:792:A:H2'	54:CA:794:A:C6	2.37	0.57
15:AR:26:ASP:CB	15:AR:91:ARG:HG2	2.35	0.57
55:DA:2787:C:O2'	4:DE:61:ARG:CD	2.52	0.57
4:DE:54:GLN:O	4:DE:55:ASN:HB2	2.04	0.57
4:DE:62:PRO:O	4:DE:63:LEU:HG	2.05	0.57
1:AA:2554:U:C2	52:BB:74:C:H5	2.23	0.57
4:AE:4:ILE:HA	4:AE:49:LEU:CD1	2.35	0.57
4:AE:77:ILE:O	4:AE:78:LEU:O	2.23	0.57
55:DA:2776:A:O2'	55:DA:2781:A:H4'	2.04	0.57
32:CE:168:THR:HG23	32:CE:169:LYS:N	2.20	0.57
32:CE:82:ARG:O	32:CE:86:GLU:HG3	2.05	0.57
31:BA:1027:C:O2'	31:BA:1028:C:OP1	2.20	0.57
31:BA:1035:A:H3'	31:BA:1036:G:H5''	1.87	0.57
1:AA:99:U:H4'	1:AA:102:G:H1'	1.85	0.57
32:BE:187:LEU:HD23	32:BE:201:ILE:O	2.05	0.57
32:BE:55:PHE:HA	32:BE:58:ILE:HG12	1.86	0.57
20:AU:87:LYS:HA	20:AU:92:ASN:HA	1.86	0.57
20:AU:91:GLU:HG3	20:AU:92:ASN:N	2.09	0.57
50:CW:100:ILE:HG13	50:CW:102:GLY:N	2.08	0.57
3:AD:109:ASP:HB2	3:AD:197:GLY:HA2	1.86	0.57
55:DA:803:U:C2'	55:DA:804:A:H5'	2.35	0.57
54:CA:1374:A:O2'	37:CJ:28:ASN:HB3	2.05	0.57
39:CL:118:LYS:HB3	39:CL:118:LYS:NZ	2.20	0.57
3:DD:242:ARG:N	3:DD:242:ARG:HD2	2.20	0.57
55:DA:860:U:C5	55:DA:917:A:H2	2.20	0.57
53:B1:53:U:H1'	53:B1:54:U:OP1	2.05	0.57
33:BF:119:ARG:O	33:BF:123:GLN:HG3	2.05	0.57
1:AA:2320:A:H1'	1:AA:2321:G:C6	2.40	0.57
12:DP:92:GLY:C	12:DP:93:TYR:CD1	2.78	0.57
55:DA:446:G:H4'	55:DA:449:A:N3	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BF:22:TRP:CB	33:BF:59:ARG:HB2	2.35	0.57
55:DA:1799:G:H4'	55:DA:1800:C:O5'	2.05	0.57
25:DX:7:LYS:HZ1	25:DX:32:GLN:HG3	1.70	0.57
1:AA:1614:A:H61	18:AS:88:ARG:H	1.53	0.57
26:D4:12:ALA:CB	26:D4:29:PRO:HA	2.34	0.57
16:A1:72:HIS:CE1	16:A1:107:ALA:HA	2.37	0.57
1:AA:2377:A:H2'	1:AA:2378:A:C8	2.40	0.57
38:CK:111:ILE:O	38:CK:112:LEU:HB3	2.05	0.57
54:CA:814:A:N7	54:CA:816:A:C4	2.73	0.57
54:CA:865:A:H2'	54:CA:866:C:C6	2.40	0.57
15:DR:54:ARG:HH11	15:DR:54:ARG:HG2	1.69	0.57
52:CC:50:U:H2'	52:CC:51:U:O4'	2.05	0.57
1:AA:2581:G:H4'	1:AA:2582:G:C8	2.40	0.57
14:AQ:24:LEU:HD22	14:AQ:24:LEU:N	2.20	0.57
4:DE:30:PRO:O	4:DE:32:PRO:HD3	2.04	0.57
57:DY:50:ARG:NH2	57:DY:83:TYR:CE1	2.73	0.56
57:DY:71:LEU:HD22	57:DY:72:ASP:HA	1.87	0.56
57:DY:93:LEU:CD2	57:DY:97:ALA:CB	2.71	0.56
21:AV:140:ASP:O	21:AV:141:VAL:CG1	2.53	0.56
52:CB:58:A:H4'	52:CB:59:U:OP1	2.05	0.56
6:AG:104:GLU:O	6:AG:108:ASN:HB2	2.05	0.56
43:CP:82:MET:O	43:CP:84:ILE:N	2.37	0.56
4:DE:78:LEU:HD21	4:DE:79:ARG:NE	2.20	0.56
34:BG:19:LEU:CD1	34:BG:21:LEU:HD23	2.35	0.56
1:AA:2893:G:H8	1:AA:2893:G:OP2	1.88	0.56
7:DH:152:ARG:O	7:DH:153:LYS:CD	2.51	0.56
32:CE:80:ILE:CD1	32:CE:208:ILE:HG23	2.32	0.56
32:CE:86:GLU:C	32:CE:88:ALA:H	2.07	0.56
34:CG:173:TRP:NE1	34:CG:174:LEU:HG	2.19	0.56
11:DO:91:PHE:CE2	11:DO:95:VAL:HG22	2.39	0.56
16:D1:83:LEU:CA	16:D1:88:ILE:HD11	2.30	0.56
55:DA:1797:C:H4'	3:DD:257:LEU:O	2.05	0.56
1:AA:788:A:O2'	1:AA:789:A:OP2	2.23	0.56
24:AW:33:MET:HG2	24:AW:37:PHE:CE1	2.39	0.56
55:DA:803:U:O2'	55:DA:804:A:H5'	2.05	0.56
37:CJ:111:ARG:HB3	37:CJ:111:ARG:NH1	2.20	0.56
5:AF:198:ALA:O	5:AF:201:VAL:HG12	2.05	0.56
1:AA:639:U:H2'	1:AA:640:C:H6	1.69	0.56
35:BH:141:GLN:HA	35:BH:143:ARG:HH21	1.70	0.56
50:BW:48:LYS:HB3	50:BW:51:GLU:CG	2.35	0.56
31:BA:1106:G:H5"	33:BF:172:ARG:CG	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1048:A:C8	55:DA:1049:C:H5	2.23	0.56
33:BF:8:ILE:HG23	33:BF:16:ARG:HG2	1.86	0.56
6:AG:16:ARG:HG2	6:AG:16:ARG:NH1	2.20	0.56
55:DA:196:A:H5'	55:DA:197:A:OP2	2.04	0.56
31:BA:1239:A:H2'	31:BA:1298:C:H42	1.70	0.56
35:CH:90:VAL:O	35:CH:120:THR:HA	2.05	0.56
39:CL:47:LEU:HD22	39:CL:47:LEU:N	2.16	0.56
38:CK:49:GLU:HG3	38:CK:49:GLU:O	2.04	0.56
54:CA:1297:C:C2'	37:CJ:114:ARG:HH22	2.17	0.56
49:BV:76:PRO:HB2	49:BV:78:ARG:CD	2.35	0.56
54:CA:990:C:H2'	54:CA:991:U:C6	2.40	0.56
50:CW:14:LYS:HG3	50:CW:17:ARG:NH2	2.19	0.56
6:AG:145:THR:O	6:AG:146:TYR:HB3	2.05	0.56
6:AG:124:SER:HB2	6:AG:131:TYR:CE1	2.40	0.56
54:CA:1015:A:H2'	54:CA:1016:A:C8	2.39	0.56
31:BA:878:G:C5'	38:BK:89:PRO:HG2	2.35	0.56
6:AG:118:ARG:NH2	26:A4:42:PHE:HZ	2.03	0.56
6:AG:118:ARG:NH2	26:A4:42:PHE:CZ	2.73	0.56
54:CA:328:C:H4'	54:CA:329:A:H5'	1.86	0.56
31:BA:1065:U:O2'	31:BA:1066:C:P	2.62	0.56
32:BE:74:LYS:O	32:BE:78:GLN:HG3	2.05	0.56
2:AB:14:U:H4'	2:AB:106:G:N2	2.20	0.56
5:DF:132:VAL:O	5:DF:133:ASN:C	2.44	0.56
14:AQ:34:HIS:HB3	14:AQ:53:SER:HB3	1.86	0.56
1:AA:1316:U:H2'	1:AA:1317:A:H8	1.70	0.56
1:AA:220:G:H2'	1:AA:427:U:O4	2.05	0.56
5:DF:174:VAL:O	5:DF:174:VAL:HG22	2.03	0.56
31:BA:913:A:O2'	31:BA:914:A:OP2	2.21	0.56
9:DM:120:LEU:CD1	9:DM:122:VAL:HG23	2.35	0.56
51:BX:3:LYS:HA	51:BX:11:GLY:HA2	1.87	0.56
21:DV:165:VAL:O	21:DV:167:PRO:HD3	2.04	0.56
34:CG:131:ARG:H	34:CG:131:ARG:HD3	1.69	0.56
57:DY:72:ASP:OD1	57:DY:74:LEU:C	2.44	0.56
1:AA:2286:A:O5'	28:A6:28:ARG:NE	2.38	0.56
55:DA:877:U:O4	55:DA:899:A:C6	2.58	0.56
15:AR:26:ASP:HB2	15:AR:91:ARG:HG2	1.87	0.56
30:D8:22:VAL:CG2	30:D8:53:PRO:HB2	2.36	0.56
54:CA:973:G:C4	40:CM:55:LYS:HE2	2.40	0.56
14:DQ:106:ARG:CZ	14:DQ:106:ARG:HB2	2.28	0.56
1:AA:1930:G:C2'	1:AA:1931:U:OP2	2.52	0.56
1:AA:1341:U:O4'	19:AT:57:LEU:HD22	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:280:C:H5'	31:BA:281:G:C8	2.39	0.56
40:CM:6:ILE:CD1	40:CM:72:VAL:HB	2.36	0.56
33:CF:70:VAL:HG12	33:CF:71:ALA:H	1.69	0.56
1:AA:2533:A:H2'	1:AA:2534:A:C5'	2.24	0.56
32:CE:4:GLU:HG2	32:CE:5:ILE:H	1.69	0.56
31:BA:1026:G:C6	31:BA:1036:G:C2	2.93	0.56
1:AA:811:U:OP2	11:AO:21:ARG:O	2.22	0.56
9:DM:63:THR:HG22	9:DM:66:LYS:NZ	2.20	0.56
20:AU:75:ILE:HB	20:AU:80:GLY:H	1.70	0.56
7:AH:109:PHE:CE1	7:AH:152:ARG:HD3	2.39	0.56
10:AN:11:ALA:O	10:AN:12:ASP:HB3	2.05	0.56
6:DG:88:ILE:C	6:DG:88:ILE:HD13	2.25	0.56
31:BA:1503:A:O2'	31:BA:1504:G:OP1	2.22	0.56
52:CD:71:G:H2'	52:CD:72:C:H6	1.70	0.56
37:CJ:15:ASP:O	37:CJ:19:GLY:HA2	2.05	0.56
33:CF:175:LEU:H	33:CF:175:LEU:CD1	2.14	0.56
1:AA:1698:A:H1'	1:AA:1699:G:O3'	2.05	0.56
1:AA:1688:U:O2	1:AA:1700:A:H8	1.89	0.56
18:DS:1:MET:HG3	18:DS:2:GLU:N	2.20	0.56
21:DV:67:LEU:HD22	21:DV:90:VAL:HG13	1.87	0.56
33:BF:116:VAL:O	33:BF:119:ARG:HB3	2.04	0.56
54:CA:1446:A:H1'	15:DR:125:ARG:NH2	2.12	0.56
54:CA:1191:A:OP1	33:CF:3:ASN:ND2	2.38	0.56
7:AH:75:ALA:O	7:AH:79:VAL:HG22	2.05	0.56
55:DA:2654:A:C8	55:DA:2656:U:O2	2.57	0.56
1:AA:856:C:H4'	1:AA:857:C:OP1	2.06	0.56
15:DR:16:ARG:NH2	15:DR:83:ILE:O	2.37	0.56
25:AX:8:LEU:CD1	25:AX:31:LEU:HA	2.34	0.56
49:CV:24:ALA:C	49:CV:26:GLY:N	2.58	0.56
2:AB:31:C:H4'	6:AG:29:TRP:CH2	2.41	0.56
9:DM:29:LYS:O	9:DM:33:LEU:HD13	2.05	0.56
3:DD:70:TRP:CZ3	3:DD:146:GLU:OE2	2.57	0.56
54:CA:872:A:C2'	54:CA:873:A:H3'	2.35	0.56
1:AA:270(F):U:H2'	1:AA:270(G):C:H6	1.69	0.56
19:DT:35:THR:O	19:DT:39:ILE:HG13	2.04	0.56
22:A3:53:MET:HA	22:A3:58:THR:O	2.04	0.56
14:AQ:98:VAL:O	14:AQ:101:LEU:HB3	2.06	0.56
54:CA:328:C:O2'	54:CA:329:A:P	2.62	0.56
34:CG:148:VAL:HG12	34:CG:149:ALA:H	1.69	0.56
54:CA:574:A:H5"	54:CA:575:G:OP2	2.05	0.56
37:CJ:102:ARG:O	37:CJ:106:GLN:HG3	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:270(O):U:H2'	55:DA:270(O):U:O2	2.03	0.56
6:DG:22:ARG:HH12	6:DG:175:LEU:HD21	1.70	0.56
55:DA:105:C:H2'	55:DA:106:C:H6	1.70	0.56
55:DA:2564:A:OP1	55:DA:2648:C:H4'	2.05	0.56
55:DA:39:C:H2'	55:DA:40:C:C6	2.41	0.56
33:CF:188:LEU:O	33:CF:189:ALA:HB2	2.05	0.56
58:DL:74:ALA:O	58:DL:75:SER:OG	2.18	0.56
58:DL:82:ALA:HA	58:DL:99:ILE:HG21	1.87	0.56
57:DY:58:LEU:C	57:DY:62:ALA:HB3	2.26	0.56
57:DY:74:LEU:CD1	57:DY:74:LEU:C	2.69	0.56
56:DI:8:ILE:O	56:DI:9:LYS:C	2.44	0.56
58:DL:10:LEU:O	58:DL:23:VAL:CG1	2.54	0.56
55:DA:1082:U:C3'	58:DL:117:THR:HG21	2.35	0.56
21:AV:103:ARG:HG3	21:AV:105:VAL:HG12	1.88	0.56
21:DV:196:VAL:O	21:DV:196:VAL:HG22	2.05	0.56
43:CP:126:LYS:HG3	52:CC:26:A:OP2	2.05	0.56
30:A8:39:LYS:O	30:A8:40:GLU:HB2	2.06	0.56
55:DA:1794:U:H1'	55:DA:1900:A:N3	2.19	0.56
55:DA:1899:G:O2'	55:DA:1900:A:P	2.63	0.56
3:DD:124:PRO:HG2	3:DD:129:ASN:ND2	2.21	0.56
3:DD:129:ASN:O	3:DD:193:VAL:HG12	2.04	0.56
2:AB:40:U:C2	26:A4:1:MET:HE1	2.41	0.56
27:D5:51:TYR:HB2	27:D5:56:LYS:HB3	1.86	0.56
43:CP:23:TYR:CE1	43:CP:70:LEU:HD12	2.39	0.56
40:BM:75:ILE:HG13	40:BM:76:ASN:N	2.20	0.56
54:CA:977:A:C2'	54:CA:978:A:H5'	2.36	0.56
8:AK:79:ILE:O	8:AK:81:VAL:HG23	2.04	0.56
46:CS:51:VAL:HG11	46:CS:74:LEU:HD23	1.88	0.56
55:DA:1177:A:C5'	55:DA:1178:C:H5''	2.36	0.56
17:A2:3:ALA:HB1	17:A2:38:LEU:CD2	2.36	0.56
9:AM:40:PRO:O	16:A1:64:ARG:HG3	2.04	0.56
1:AA:2014:A:HO2'	27:A5:2:ALA:N	2.02	0.56
20:DU:94:LYS:HD2	20:DU:101:LYS:HZ3	1.69	0.56
55:DA:654(J):A:C2	55:DA:654(L):G:N7	2.73	0.56
50:CW:72:LEU:HD23	50:CW:73:HIS:N	2.19	0.56
34:BG:24:GLU:N	34:BG:27:TYR:HB2	2.21	0.56
34:BG:31:CYS:O	34:BG:32:ALA:HB3	2.05	0.56
34:BG:112:VAL:HG12	34:BG:116:GLN:CD	2.26	0.56
34:BG:30:LYS:HB2	34:BG:35:ARG:HH11	1.70	0.56
1:AA:2807:G:C2'	1:AA:2808:U:H5''	2.34	0.56
9:DM:41:ASP:C	16:D1:64:ARG:NH2	2.57	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1129:C:N4	31:BA:1141:C:H41	2.03	0.56
39:BL:63:ILE:HD12	39:BL:63:ILE:N	2.20	0.56
7:DH:152:ARG:HG3	7:DH:153:LYS:HE3	1.84	0.56
1:AA:2749:A:OP1	1:AA:2750:A:H5''	2.06	0.56
5:DF:206:ILE:HD12	5:DF:207:GLY:N	2.21	0.56
32:CE:75:LYS:HA	32:CE:78:GLN:HG3	1.87	0.56
31:BA:1036:G:H3'	31:BA:1037:C:C5	2.41	0.56
31:BA:1037:C:H2'	31:BA:1038:C:C6	2.40	0.56
55:DA:1144:G:H2'	55:DA:1145:C:C6	2.40	0.56
13:D0:117:VAL:CG2	13:D0:118:GLU:H	1.95	0.56
55:DA:2879:C:H4'	55:DA:2880:C:OP1	2.04	0.56
52:CD:61:C:H2'	52:CD:62:C:H6	1.70	0.56
48:BU:18:ARG:O	48:BU:19:LYS:CB	2.41	0.56
8:DK:76:THR:HG22	8:DK:77:LEU:N	2.19	0.56
54:CA:878:G:H5'	38:CK:89:PRO:HG2	1.86	0.56
5:AF:18:ARG:HG2	5:AF:19:GLU:H	1.71	0.56
55:DA:620:G:H4'	55:DA:621:A:O5'	2.05	0.56
55:DA:83:G:N2	55:DA:102:G:O2'	2.39	0.56
35:BH:51:VAL:CB	35:BH:52:PRO:HD3	2.27	0.56
1:AA:2720:U:H3	1:AA:2873:A:H2	1.48	0.56
15:DR:23:ARG:HG2	15:DR:120:ARG:HH12	1.70	0.56
54:CA:1095:U:H2'	54:CA:1096:C:H6	1.70	0.56
55:DA:1164:G:H2'	55:DA:1165:U:C6	2.40	0.56
42:BO:27:LEU:HB2	42:BO:33:ARG:HD2	1.86	0.56
5:DF:9:ILE:HG23	5:DF:20:LEU:O	2.05	0.56
50:BW:57:ARG:HG2	50:BW:102:GLY:O	2.05	0.56
18:AS:68:ARG:HH22	18:AS:112:GLY:HA2	1.70	0.56
33:CF:164:ARG:NH1	53:C1:55:U:O2	2.39	0.56
31:BA:186(F):C:H2'	31:BA:187:C:O4'	2.05	0.56
8:AK:129:THR:HA	8:AK:137:PRO:HA	1.85	0.56
6:AG:115:ARG:HH11	6:AG:115:ARG:HB3	1.69	0.56
33:BF:6:HIS:HE1	44:BQ:50:LYS:HE2	1.70	0.56
50:CW:84:LEU:HD13	50:CW:85:MET:N	2.20	0.56
25:DX:7:LYS:O	25:DX:54:VAL:HG23	2.05	0.56
55:DA:1349:A:N6	55:DA:1598:C:N4	2.53	0.56
36:CI:42:GLU:C	36:CI:44:GLY:H	2.08	0.56
43:CP:116:THR:O	43:CP:117:VAL:CG1	2.54	0.56
55:DA:2127:G:H2'	55:DA:2128:C:C4'	2.36	0.56
34:CG:11:LEU:O	34:CG:13:ARG:N	2.38	0.56
34:CG:11:LEU:O	34:CG:12:CYS:C	2.44	0.56
1:AA:527:C:P	1:AA:2779:U:H5	2.28	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:196:A:OP2	11:DO:46:LYS:NZ	2.38	0.56
34:BG:176:LEU:HD12	34:BG:177:ASP:N	2.16	0.56
31:BA:632:A:H4'	31:BA:633:G:O5'	2.03	0.56
31:BA:634:C:O2'	31:BA:635:G:H5'	2.04	0.56
55:DA:2093:G:OP1	8:DK:23:PRO:HG2	2.04	0.56
55:DA:654(I):C:O2	55:DA:654(I):C:H2'	2.05	0.56
55:DA:719:C:H2'	55:DA:720:C:H6	1.69	0.56
55:DA:1496:A:C8	55:DA:1577:C:O2'	2.57	0.56
33:CF:134:ILE:CG2	33:CF:168:ALA:HB3	2.36	0.56
4:AE:108:SER:HB3	4:AE:165:VAL:CG2	2.35	0.56
1:AA:414:C:H2'	1:AA:415:A:C8	2.40	0.56
43:BP:96:LEU:HB3	43:BP:97:PRO:HD2	1.87	0.56
13:D0:8:ARG:HG3	13:D0:43:GLU:OE2	2.04	0.56
3:AD:186:HIS:CD2	3:AD:188:GLU:HB2	2.39	0.56
30:D8:41:ILE:HG13	30:D8:42:ARG:H	1.70	0.56
32:CE:233:SER:OG	32:CE:234:PRO:HD2	2.05	0.56
1:AA:874:G:H2'	1:AA:875:G:C8	2.40	0.56
37:BJ:138:LYS:HG2	37:BJ:142:GLU:OE1	2.05	0.56
39:CL:26:VAL:HG13	39:CL:61:ALA:O	2.05	0.56
5:AF:20:LEU:O	5:AF:21:ALA:O	2.23	0.56
4:AE:18:ASP:OD1	15:AR:82:LEU:HG	2.05	0.56
54:CA:881:G:OP2	42:CO:12:ARG:NH2	2.38	0.56
9:DM:17:ASP:O	9:DM:18:ALA:HB3	2.05	0.56
54:CA:986:A:H2'	54:CA:987:G:C8	2.40	0.56
45:BR:10:LYS:HA	45:BR:10:LYS:HE3	1.87	0.56
1:AA:2243:U:O2'	1:AA:2244:U:H5'	2.05	0.56
55:DA:1458:C:H5''	55:DA:1459:G:C5'	2.36	0.56
25:AX:12:PRO:HB2	25:AX:20:LYS:HG2	1.87	0.56
1:AA:764:A:OP1	3:AD:208:LYS:HE3	2.04	0.56
32:BE:217:ARG:HH11	32:BE:217:ARG:HG3	1.70	0.56
54:CA:117:G:O5'	54:CA:117:G:H8	1.89	0.56
55:DA:2533:A:C2'	55:DA:2534:A:H5'	2.36	0.56
1:AA:1678:G:N2	1:AA:1989:G:H22	2.03	0.56
1:AA:961:C:H5''	1:AA:962:G:OP2	2.06	0.56
1:AA:121:G:H4'	1:AA:149:A:H5'	1.86	0.56
13:D0:52:ILE:O	13:D0:55:ALA:N	2.38	0.56
1:AA:2093:G:O5'	8:AK:24:GLY:HA3	2.06	0.56
56:DI:7:ARG:HH21	56:DI:8:ILE:HG23	1.71	0.56
58:DL:124:ALA:O	58:DL:126:MET:N	2.38	0.56
58:DL:52:ILE:HG21	58:DL:75:SER:CA	2.34	0.56
57:DY:88:ALA:O	57:DY:89:ALA:C	2.43	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:105:VAL:HG23	21:AV:106:GLY:H	1.71	0.56
31:BA:1307:U:H2'	31:BA:1308:U:C6	2.40	0.56
54:CA:625:G:H2'	54:CA:626:U:C6	2.40	0.56
54:CA:69:G:C2	54:CA:73:G:C8	2.93	0.56
15:AR:24:PRO:HA	15:AR:49:VAL:CG1	2.30	0.56
30:A8:16:ILE:HD13	30:A8:57:ARG:HD2	1.87	0.56
54:CA:1002:G:H2'	54:CA:1003:G:H5'	1.87	0.56
55:DA:481:G:O2'	55:DA:482:A:P	2.61	0.56
4:DE:64:LYS:O	4:DE:70:ALA:HB2	2.04	0.56
28:D6:34:LEU:H	28:D6:34:LEU:CD1	2.17	0.56
55:DA:2346:A:H5'	55:DA:2383:G:O4'	2.06	0.56
50:CW:69:GLY:O	50:CW:73:HIS:CD2	2.59	0.56
34:BG:12:CYS:CB	34:BG:21:LEU:CD2	2.79	0.56
9:DM:45:ASN:ND2	9:DM:45:ASN:H	2.04	0.56
7:DH:151:ILE:C	7:DH:152:ARG:O	2.42	0.56
7:DH:154:PRO:HD3	7:DH:161:GLY:CA	2.35	0.56
40:CM:38:ILE:HD11	40:CM:71:LEU:HB3	1.87	0.56
32:CE:45:GLN:O	32:CE:49:GLU:HG3	2.05	0.56
11:DO:84:ASN:ND2	11:DO:116:GLY:HA3	2.21	0.56
31:BA:1527:C:H2'	31:BA:1528:U:O4'	2.05	0.56
31:BA:1380:U:H4'	31:BA:1381:U:O5'	2.03	0.56
31:BA:1382:C:H1'	37:BJ:79:ARG:NH1	2.21	0.56
39:CL:79:LEU:O	39:CL:79:LEU:HD13	2.06	0.56
55:DA:1026:U:O2	55:DA:1126:A:N1	2.39	0.56
3:AD:27:THR:HG22	3:AD:28:GLU:N	2.19	0.56
54:CA:191(C):G:H2'	54:CA:191(D):U:C6	2.41	0.56
31:BA:1393:U:O4'	31:BA:1502:A:H5''	2.06	0.56
6:DG:67:LYS:HG3	26:D4:6:HIS:ND1	2.21	0.56
55:DA:85:G:OP1	20:DU:30:VAL:HG21	2.06	0.56
26:D4:9:LEU:H	26:D4:27:THR:HG22	1.71	0.56
31:BA:1177:G:H2'	31:BA:1178:G:C2	2.40	0.56
55:DA:1167:U:H2'	55:DA:1168:G:C8	2.41	0.56
31:BA:1200:C:H1'	31:BA:1204:A:H62	1.71	0.56
50:BW:50:GLU:HG3	50:BW:51:GLU:N	2.20	0.56
33:BF:113:ALA:HB3	33:BF:114:PRO:HD3	1.88	0.56
54:CA:1322:C:O2	54:CA:1322:C:C2'	2.54	0.56
1:AA:1203:G:H3'	1:AA:1204:A:H5''	1.87	0.56
19:DT:12:VAL:CG1	19:DT:27:THR:HG23	2.35	0.56
33:BF:178:LEU:C	33:BF:180:ALA:H	2.08	0.56
55:DA:1188:U:C2'	55:DA:1189:A:H5'	2.35	0.56
12:AP:57:HIS:NE2	12:AP:116:GLU:HG3	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1937:A:O2'	1:AA:1938:A:P	2.62	0.56
54:CA:1133:G:H2'	54:CA:1134:G:H8	1.71	0.56
45:BR:78:TYR:O	45:BR:82:ILE:HG22	2.05	0.56
55:DA:2101:G:H2'	55:DA:2102:U:H6	1.70	0.56
10:AN:102:VAL:HB	10:AN:106:LEU:CD1	2.34	0.56
55:DA:1528:A:N1	55:DA:1543:A:C2	2.74	0.56
55:DA:848:G:O6	55:DA:929:G:H2'	2.05	0.56
55:DA:370:G:H4'	55:DA:371:A:OP2	2.04	0.56
43:BP:96:LEU:C	43:BP:110:ARG:HE	2.09	0.56
54:CA:753:A:O2'	54:CA:754:C:OP2	2.19	0.56
36:BI:42:GLU:C	36:BI:44:GLY:H	2.09	0.56
32:BE:41:ILE:N	32:BE:41:ILE:HD12	2.21	0.56
10:DN:86:ILE:HG22	10:DN:94:ARG:HB2	1.87	0.56
32:BE:67:THR:HG22	32:BE:90:MET:SD	2.45	0.56
55:DA:690:G:H2'	55:DA:691:C:C6	2.40	0.56
1:AA:1387:C:C2	1:AA:1388:G:C8	2.93	0.56
40:BM:46:ARG:HG2	40:BM:64:GLU:HB3	1.88	0.56
1:AA:1095:A:H2'	1:AA:1095:A:N3	2.20	0.56
55:DA:1130:U:O2'	55:DA:1131:G:O5'	2.22	0.56
57:DY:27:VAL:HG23	57:DY:110:GLY:HA2	1.76	0.56
21:DV:198:LYS:O	21:DV:199:LYS:CB	2.53	0.56
43:CP:121:LYS:O	43:CP:122:LYS:HB2	2.06	0.56
12:AP:6:ARG:O	12:AP:7:MET:HB2	2.06	0.56
12:AP:81:VAL:O	12:AP:82:ARG:HG2	2.05	0.56
52:CB:57:G:C5'	21:DV:182:LYS:HZ3	2.19	0.56
54:CA:104:G:O2'	54:CA:105:G:H5'	2.05	0.56
3:DD:92:ILE:HD13	3:DD:104:TYR:CE2	2.40	0.56
26:A4:12:ALA:CB	26:A4:24:THR:HG21	2.35	0.56
54:CA:468:A:H4'	46:CS:80:PHE:O	2.06	0.56
28:D6:22:ALA:CB	28:D6:42:TRP:HZ2	2.13	0.56
57:DY:104:ILE:CG2	57:DY:105:PRO:N	2.67	0.56
16:A1:101:ARG:O	16:A1:102:GLU:HG2	2.06	0.56
16:A1:102:GLU:N	16:A1:103:PRO:CD	2.69	0.56
1:AA:1342:A:C8	1:AA:1345:C:C5	2.94	0.56
11:DO:64:LYS:HB3	30:D8:25:MET:HG3	1.88	0.56
4:AE:78:LEU:N	4:AE:78:LEU:CD2	2.69	0.56
7:DH:94:TYR:CD2	7:DH:107:VAL:HG12	2.41	0.56
2:DB:74:U:C3'	2:DB:75:G:H5''	2.35	0.56
50:CW:63:ILE:CG2	50:CW:77:ALA:HB1	2.35	0.56
55:DA:1020:A:N1	55:DA:1141:U:C2'	2.68	0.56
21:AV:158:PRO:O	21:AV:161:VAL:HG22	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:986:A:H1'	49:BV:54:GLY:O	2.05	0.56
31:BA:789:U:H2'	31:BA:791:G:OP2	2.06	0.56
31:BA:1372:U:H2'	31:BA:1373:G:H5'	1.87	0.56
21:AV:130:PRO:HA	21:AV:133:ILE:HD11	1.88	0.56
5:AF:5:ALA:HB1	5:AF:125:LEU:HD21	1.86	0.56
1:AA:138:G:N2	19:AT:44:GLU:OE2	2.39	0.56
4:AE:199:ARG:HG2	4:AE:200:GLU:H	1.71	0.56
39:BL:53:VAL:HG23	39:BL:55:ALA:HB3	1.88	0.56
1:AA:1086:A:H5''	1:AA:1103:A:N1	2.21	0.56
11:AO:111:ARG:HG3	11:AO:128:HIS:ND1	2.20	0.56
1:AA:1996:C:H4'	1:AA:1997:G:O5'	2.05	0.56
31:BA:532:A:O2'	31:BA:533:A:P	2.63	0.56
1:AA:320:A:H4'	1:AA:322:A:H8	1.70	0.56
25:DX:5:LYS:HE2	25:DX:34:GLU:OE1	2.05	0.56
25:DX:7:LYS:HE2	25:DX:32:GLN:HA	1.87	0.56
17:A2:29:PRO:C	17:A2:61:VAL:HG11	2.26	0.56
38:BK:12:ARG:NH1	38:BK:26:VAL:HA	2.20	0.56
55:DA:1937:A:O2'	55:DA:1938:A:P	2.63	0.56
54:CA:372:C:H42	54:CA:389:A:H62	1.54	0.56
2:AB:15:A:H1'	2:AB:109:G:C4	2.40	0.56
26:D4:11:PRO:HB3	26:D4:25:TYR:CE1	2.41	0.56
55:DA:1999:C:H5''	55:DA:2723:C:O2'	2.05	0.56
24:AW:9:GLN:HA	24:AW:12:GLU:HB3	1.86	0.56
55:DA:27:G:H1'	55:DA:513:A:H62	1.70	0.56
2:AB:12:C:H4'	2:AB:13:A:OP1	2.05	0.56
55:DA:718:A:H3'	55:DA:719:C:C6	2.41	0.56
23:DZ:23:LYS:HB3	23:DZ:29:GLY:HA3	1.88	0.56
14:AQ:106:ARG:O	14:AQ:107:GLU:CB	2.53	0.56
55:DA:702:G:H5'	55:DA:702:G:C8	2.41	0.56
22:D3:68:GLU:CG	22:D3:80:HIS:HB2	2.34	0.56
1:AA:518:G:H4'	18:AS:18:ARG:NH1	2.21	0.56
21:DV:75:ASN:O	21:DV:84:GLU:HG2	2.05	0.56
4:AE:105:THR:HG21	4:AE:164:ARG:CZ	2.36	0.56
23:DZ:78:LYS:HD2	23:DZ:78:LYS:O	2.06	0.56
31:BA:85:U:H2'	31:BA:86:U:OP1	2.06	0.56
31:BA:474:G:OP1	46:BS:81:ARG:HB2	2.05	0.56
1:AA:2065:C:H1'	1:AA:2449:U:O2	2.06	0.56
30:A8:46:ARG:HH11	30:A8:46:ARG:CB	2.19	0.56
10:DN:86:ILE:N	10:DN:86:ILE:HD12	2.21	0.56
15:AR:80:SER:HB3	15:AR:83:ILE:CD1	2.36	0.56
45:BR:54:ARG:HG2	45:BR:58:MET:CE	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1041:A:C3'	31:BA:1042:G:H5''	2.36	0.56
1:AA:39:C:H2'	1:AA:40:C:C6	2.41	0.56
5:DF:153:SER:OG	5:DF:189:THR:HA	2.04	0.56
1:AA:460:A:H2'	1:AA:461:C:O4'	2.06	0.56
55:DA:1324:G:C3'	55:DA:1325:G:H5'	2.36	0.56
44:CQ:51:GLY:C	44:CQ:53:LEU:H	2.09	0.56
54:CA:933:G:OP2	37:CJ:3:ARG:HB2	2.05	0.56
46:BS:66:PRO:HG2	46:BS:71:ARG:HG3	1.87	0.56
1:AA:2722:G:H2'	1:AA:2723:C:C6	2.41	0.56
1:AA:2819:G:H2'	1:AA:2820:A:OP2	2.05	0.56
4:AE:176:ILE:HD12	4:AE:176:ILE:N	2.21	0.56
58:DL:106:GLU:CD	58:DL:109:LYS:HD2	2.26	0.56
57:DY:132:ASP:OD1	56:DJ:7:ARG:NH1	2.38	0.56
57:DY:26:LEU:O	57:DY:111:LEU:CD2	2.54	0.56
57:DY:29:TYR:CA	57:DY:81:VAL:CG1	2.45	0.56
12:AP:82:ARG:HH11	12:AP:82:ARG:CG	2.07	0.56
12:AP:75:THR:CG2	12:AP:88:GLY:HA3	2.29	0.56
54:CA:1205:U:H5'	33:CF:190:ARG:NH2	2.20	0.56
54:CA:1057:G:H5''	33:CF:154:SER:O	2.05	0.56
32:CE:70:PHE:CE2	32:CE:163:PHE:HD1	2.24	0.56
11:DO:88:LEU:HD23	11:DO:89:ALA:N	2.21	0.56
52:BD:58:A:H1'	52:BD:60:U:C5	2.41	0.56
31:BA:957:U:H2'	31:BA:959:A:OP2	2.05	0.56
7:AH:94:TYR:HE2	7:AH:153:LYS:HE2	1.71	0.56
1:AA:654(C):G:C2	1:AA:654(D):G:C4	2.94	0.56
50:CW:94:ALA:O	50:CW:95:ALA:HB3	2.04	0.56
6:DG:96:ARG:HH11	6:DG:96:ARG:HG3	1.70	0.56
20:AU:35:TYR:CE1	20:AU:69:ALA:HB3	2.40	0.56
16:D1:34:LYS:HE2	16:D1:34:LYS:CA	2.28	0.56
54:CA:1348:U:H2'	54:CA:1349:A:H8	1.71	0.56
42:BO:8:ASN:ND2	47:BT:34:LYS:HE2	2.13	0.56
31:BA:255:G:H1'	47:BT:16:GLN:HE21	1.69	0.56
26:A4:48:ARG:HG2	26:A4:51:ASP:HB3	1.87	0.56
11:AO:84:ASN:CG	11:AO:116:GLY:HA3	2.25	0.56
15:AR:115:ARG:CD	15:AR:115:ARG:H	2.10	0.56
31:BA:534:U:H5'	31:BA:535:A:OP2	2.06	0.56
37:BJ:137:LYS:O	37:BJ:141:VAL:HG23	2.05	0.56
44:BQ:47:LEU:HB2	44:BQ:53:LEU:HD11	1.87	0.56
19:DT:50:LYS:N	19:DT:87:GLN:HE22	2.00	0.56
15:DR:19:LEU:HD22	15:DR:86:ILE:CG2	2.36	0.56
8:DK:40:THR:O	8:DK:44:LEU:HB2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1:G:H2'	55:DA:2:G:C8	2.41	0.56
1:AA:2331:G:H4'	22:A3:43:THR:N	2.21	0.56
55:DA:661:C:H1'	11:DO:12:ALA:HA	1.88	0.56
39:CL:21:PRO:HA	39:CL:58:HIS:O	2.05	0.56
3:DD:149:PRO:O	3:DD:150:LYS:HB2	2.06	0.56
50:BW:84:LEU:O	50:BW:88:VAL:HG23	2.06	0.56
45:CR:56:LEU:O	45:CR:60:VAL:HG23	2.05	0.56
7:AH:143:GLN:HE22	7:AH:147:ASN:HD21	1.51	0.56
8:AK:62:LYS:HD2	8:AK:62:LYS:C	2.25	0.56
7:AH:10:PRO:CG	7:AH:50:VAL:HG13	2.35	0.56
31:BA:160:A:H1'	31:BA:344:A:C5	2.40	0.56
55:DA:2506:U:O2'	55:DA:2507:C:H5''	2.05	0.56
34:CG:156:GLU:HG2	34:CG:160:GLN:NE2	2.20	0.56
5:DF:133:ASN:O	5:DF:134:GLY:C	2.44	0.56
4:DE:46:ALA:O	4:DE:47:VAL:HG13	2.06	0.56
31:BA:639:G:O2'	31:BA:640:A:H5'	2.06	0.56
1:AA:664:C:H4'	1:AA:941:A:OP1	2.05	0.56
55:DA:1523:U:H2'	55:DA:1524:G:O4'	2.06	0.56
31:BA:658:G:O2'	31:BA:659:U:H5'	2.05	0.56
55:DA:2739:U:O2'	55:DA:2740:A:H5'	2.06	0.56
3:DD:223:GLY:O	3:DD:224:ALA:C	2.44	0.56
38:CK:29:SER:HB3	38:CK:32:LYS:HB2	1.88	0.56
52:BB:42:C:O2'	52:BB:43:C:H5'	2.06	0.56
6:AG:13:GLU:O	6:AG:14:GLU:HB2	2.05	0.56
12:AP:80:GLU:HA	12:AP:80:GLU:OE2	2.06	0.56
16:A1:74:LEU:H	16:A1:74:LEU:HD12	1.69	0.56
11:DO:23:PRO:HB3	17:D2:80:GLN:HG3	1.87	0.56
58:DL:11:GLN:CG	58:DL:41:PHE:HZ	2.10	0.56
26:A4:63:TYR:CE2	49:BV:41:VAL:HG22	2.38	0.56
31:BA:1324:A:C4'	31:BA:1362:C:H4'	2.36	0.56
26:D4:68:ARG:CA	26:D4:68:ARG:NE	2.68	0.56
2:AB:81:G:N2	2:AB:82:G:C5	2.74	0.56
2:AB:96:G:N2	2:AB:97:G:H1'	2.21	0.56
3:DD:131:LEU:CD1	3:DD:131:LEU:N	2.69	0.56
26:A4:18:CYS:SG	26:A4:19:GLY:N	2.77	0.56
54:CA:1025:U:O2'	54:CA:1026:G:H8	1.88	0.56
54:CA:977:A:H2'	54:CA:978:A:H5'	1.87	0.56
49:CV:83:HIS:C	49:CV:85:LYS:H	2.08	0.56
4:DE:52:LEU:N	4:DE:52:LEU:HD12	2.14	0.56
55:DA:1484:G:C3'	55:DA:1485:G:H5''	2.35	0.56
1:AA:34:C:C2'	1:AA:35:G:OP2	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:58:ILE:CG2	32:CE:221:LEU:HD12	2.36	0.56
1:AA:2522:U:O2'	1:AA:2647:U:H5''	2.06	0.56
21:AV:9:TYR:CE2	21:AV:61:LEU:HD13	2.41	0.56
5:AF:124:LEU:O	5:AF:125:LEU:C	2.43	0.56
1:AA:90:U:O2'	1:AA:91:A:H8	1.78	0.56
3:AD:62:TYR:HA	3:AD:87:ASN:HD21	1.71	0.56
1:AA:774:A:H2	1:AA:787:U:HO2'	1.51	0.56
17:D2:55:ALA:HB2	17:D2:101:GLY:OXT	2.06	0.56
31:BA:881:G:P	42:BO:12:ARG:HH22	2.28	0.56
54:CA:1067:A:O2'	54:CA:1068:G:C8	2.41	0.56
34:CG:98:GLU:CD	34:CG:107:ARG:HE	2.07	0.56
42:CO:38:THR:CG2	42:CO:57:LYS:HB3	2.36	0.56
4:DE:92:THR:N	4:DE:95:ILE:HD11	2.20	0.56
1:AA:749:C:C4	1:AA:1618:A:C2	2.94	0.56
1:AA:587:C:O2	11:AO:33:ARG:NH1	2.39	0.56
1:AA:1772:G:N2	1:AA:1774:C:H5''	2.21	0.56
11:DO:38:GLN:O	11:DO:39:LYS:C	2.40	0.56
52:BB:51:U:H2'	52:BB:52:G:C8	2.40	0.56
1:AA:2211:G:OP2	1:AA:2211:G:H3'	2.05	0.56
1:AA:1786:A:N1	1:AA:2606:C:H1'	2.20	0.56
54:CA:50:A:O2'	54:CA:52:G:H8	1.86	0.56
2:AB:110:G:H2'	2:AB:111:U:O4'	2.06	0.56
32:CE:132:LYS:HA	32:CE:135:GLN:CD	2.26	0.56
54:CA:500:G:H2'	54:CA:501:C:C6	2.41	0.56
6:AG:123:ASN:ND2	6:AG:123:ASN:N	2.54	0.56
55:DA:2715:C:O2'	55:DA:2716:U:H5'	2.06	0.56
55:DA:961:C:H42	55:DA:2031:A:H1'	1.71	0.56
38:BK:84:ARG:O	38:BK:135:CYS:HB2	2.06	0.56
5:DF:168:ARG:HG3	5:DF:175:THR:HG21	1.87	0.56
55:DA:211:A:H2'	55:DA:212:G:O4'	2.05	0.56
32:CE:101:MET:HA	32:CE:108:ILE:HG13	1.88	0.56
52:CB:76:A:C8	55:DA:2507:C:O4'	2.58	0.56
31:BA:1229:A:H2'	31:BA:1230:C:H6	1.69	0.56
20:DU:73:ARG:NH2	20:DU:82:PRO:HD3	2.20	0.56
9:DM:131:GLN:HE21	9:DM:131:GLN:H	1.53	0.56
1:AA:2433:A:H5''	1:AA:2434:A:OP1	2.05	0.56
3:AD:58:HIS:HD2	3:AD:59:LYS:O	1.89	0.56
8:AK:94:ALA:HB1	8:AK:112:LYS:H	1.70	0.56
58:DL:110:GLN:O	58:DL:111:LYS:HE2	2.06	0.56
58:DL:111:LYS:CA	58:DL:113:PRO:HD2	2.35	0.56
58:DL:112:MET:CG	58:DL:118:THR:O	2.48	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1217:C:O2'	31:BA:1218:C:H5'	2.04	0.56
31:BA:1234:C:C4'	31:BA:1364:U:O2'	2.54	0.56
1:AA:1372:U:C5'	1:AA:1372:U:C5	2.87	0.56
2:AB:44:G:H1'	2:AB:47:C:N4	2.21	0.56
54:CA:788:U:N3	54:CA:795:C:N4	2.53	0.56
40:BM:6:ILE:CD1	40:BM:23:ILE:HG21	2.36	0.56
40:BM:89:ASP:HB3	40:BM:91:PRO:HD3	1.87	0.56
55:DA:482:A:H4'	20:DU:47:LYS:CD	2.36	0.56
28:D6:31:PRO:O	28:D6:32:ASN:HB3	2.06	0.56
17:A2:84:LYS:HB2	17:A2:84:LYS:NZ	2.21	0.56
39:BL:66:ARG:HB3	39:BL:66:ARG:HH11	1.70	0.56
31:BA:1002:G:H2'	31:BA:1003:G:H8	1.68	0.56
55:DA:1019:U:H2'	55:DA:1020:A:H8	1.71	0.56
54:CA:264:U:O2'	47:CT:64:PRO:HD2	2.05	0.56
21:AV:30:ASN:OD1	21:AV:33:LEU:HB3	2.05	0.56
55:DA:654(C):G:H2'	55:DA:654(D):G:C1'	2.36	0.56
50:CW:93:GLU:OE1	50:CW:94:ALA:N	2.39	0.56
17:D2:38:LEU:O	17:D2:51:VAL:HA	2.05	0.56
55:DA:2447:G:O2'	55:DA:2448:A:OP2	2.23	0.56
37:CJ:15:ASP:H	37:CJ:20:ASP:N	1.95	0.56
35:CH:72:GLN:C	35:CH:74:GLY:H	2.08	0.56
55:DA:1175:U:O2'	55:DA:1176:G:C4'	2.48	0.56
22:D3:50:ASN:CB	22:D3:81:VAL:HB	2.36	0.56
55:DA:1567:A:H3'	3:DD:86:PRO:HG3	1.88	0.56
10:DN:77:ILE:HD13	10:DN:78:ARG:N	2.21	0.56
41:BN:55:LYS:C	41:BN:57:THR:H	2.09	0.56
55:DA:1510:A:OP1	55:DA:1510:A:O3'	2.24	0.56
1:AA:800:A:C4'	1:AA:801:G:O5'	2.52	0.56
34:BG:159:ARG:O	34:BG:163:GLU:HG3	2.06	0.56
55:DA:302:C:O2'	55:DA:303:U:H5'	2.05	0.56
31:BA:15:G:H1'	35:BH:19:MET:CE	2.35	0.56
16:A1:81:HIS:NE2	16:A1:85:LYS:HD2	2.21	0.56
54:CA:1298:C:H41	37:CJ:114:ARG:HB3	1.71	0.56
45:BR:82:ILE:C	45:BR:82:ILE:HD13	2.26	0.56
55:DA:2341:G:H2'	55:DA:2342:C:C6	2.41	0.56
54:CA:1098:C:O2'	54:CA:1099:G:H5'	2.05	0.56
22:A3:74:ARG:HG2	22:A3:75:LEU:HD23	1.87	0.56
34:BG:189:PRO:O	34:BG:190:ASP:HB2	2.06	0.56
1:AA:817:C:O2'	1:AA:839:U:OP1	2.23	0.56
55:DA:1280:G:C2'	55:DA:1281:G:H5''	2.36	0.56
14:AQ:69:VAL:HG13	14:AQ:101:LEU:HD23	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BJ:155:ARG:HG2	37:BJ:156:TRP:H	1.69	0.56
3:AD:3:VAL:HG13	3:AD:3:VAL:O	2.03	0.56
50:BW:10:LEU:HD22	50:BW:10:LEU:C	2.25	0.56
23:DZ:44:PRO:HG2	23:DZ:46:LEU:HD13	1.88	0.56
47:CT:40:LYS:HG2	47:CT:41:LYS:H	1.69	0.56
7:DH:136:ILE:HD12	7:DH:136:ILE:N	2.21	0.56
31:BA:163:C:H2'	31:BA:164:U:O4'	2.06	0.56
37:BJ:76:ARG:HG3	37:BJ:89:MET:HB2	1.88	0.56
1:AA:2798:C:OP2	1:AA:2799:A:N7	2.39	0.56
34:CG:80:GLU:OE2	34:CG:84:LYS:HE2	2.06	0.56
25:AX:18:ASP:O	25:AX:21:ALA:HB3	2.06	0.56
1:AA:706:A:H2'	1:AA:707:G:O4'	2.06	0.56
49:CV:23:ASN:OD1	49:CV:43:GLU:HB2	2.05	0.56
26:A4:69:LYS:C	26:A4:69:LYS:HD3	2.26	0.56
58:DL:137:GLU:HA	58:DL:137:GLU:OE2	2.06	0.56
58:DL:4:VAL:HG12	58:DL:4:VAL:O	2.05	0.56
58:DL:78:ILE:C	58:DL:82:ALA:HB3	2.26	0.56
57:DY:71:LEU:HB3	57:DY:112:LEU:O	1.97	0.56
6:AG:88:ILE:HD13	6:AG:88:ILE:C	2.27	0.56
30:A8:47:LYS:O	30:A8:48:PHE:HB3	2.06	0.56
30:A8:60:LEU:O	30:A8:61:LEU:HD12	2.05	0.56
20:DU:43:ASN:HB3	20:DU:64:GLU:HA	1.88	0.56
31:BA:64:G:H5''	31:BA:65:U:OP1	2.04	0.56
31:BA:495:A:H5'	31:BA:496:A:OP1	2.06	0.56
17:A2:79:VAL:HG23	17:A2:80:GLN:H	1.71	0.56
17:A2:70:ILE:O	17:A2:71:LEU:HB3	2.06	0.56
1:AA:2311:A:H3'	1:AA:2312:U:H5	1.67	0.56
55:DA:1009:A:OP2	9:DM:37:LYS:NZ	2.39	0.56
32:CE:4:GLU:HG2	32:CE:5:ILE:HD13	1.87	0.56
1:AA:2602:A:H4'	1:AA:2603:G:O5'	2.05	0.56
55:DA:2119:A:H8	55:DA:2119:A:O5'	1.89	0.56
21:AV:52:SER:O	21:AV:54:HIS:N	2.39	0.56
55:DA:1934:C:O2'	55:DA:1935:G:H5'	2.06	0.56
55:DA:2135:A:C2'	55:DA:2136:C:OP1	2.54	0.56
1:AA:2571:C:H5'	1:AA:2572:A:H5'	1.87	0.56
11:DO:105:LEU:N	11:DO:105:LEU:HD12	2.20	0.56
3:AD:27:THR:O	3:AD:28:GLU:CB	2.53	0.56
55:DA:99:U:C6	55:DA:102:G:C2	2.94	0.56
30:D8:30:ARG:O	30:D8:31:HIS:CB	2.54	0.56
22:A3:81:VAL:O	22:A3:83:PRO:HD3	2.04	0.56
38:CK:100:ILE:HB	38:CK:125:ARG:HH12	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AM:128:HIS:HE2	9:AM:134:ARG:HD2	1.69	0.56
31:BA:939:G:C6	31:BA:940:C:N4	2.74	0.56
33:BF:112:SER:HB3	33:BF:115:LEU:HD12	1.86	0.56
2:DB:28:C:H2'	2:DB:29:A:O4'	2.05	0.56
1:AA:2130:U:H4'	1:AA:2134:A:H5'	1.87	0.56
1:AA:2159:G:H2'	1:AA:2160:G:C8	2.41	0.56
36:CI:27:GLN:HA	36:CI:27:GLN:NE2	2.17	0.56
54:CA:67:C:O2'	54:CA:171:A:H1'	2.05	0.56
2:AB:111:U:H2'	2:AB:112:G:H8	1.67	0.56
14:AQ:27:SER:HA	14:AQ:88:ASP:CB	2.35	0.56
14:DQ:3:ARG:HG2	14:DQ:4:LEU:H	1.70	0.56
2:AB:11:C:H3'	2:AB:12:C:C6	2.41	0.56
46:CS:48:TRP:O	46:CS:49:LEU:HB2	2.06	0.56
24:AW:69:ARG:HH11	24:AW:69:ARG:HG2	1.70	0.56
47:BT:59:ILE:CG2	47:BT:71:PHE:HB3	2.36	0.56
54:CA:86:U:O3'	54:CA:87:A:O4'	2.24	0.56
54:CA:1070:U:H2'	54:CA:1071:C:C6	2.40	0.56
1:AA:1316:U:H2'	1:AA:1317:A:C8	2.41	0.56
5:AF:61:GLY:O	5:AF:77:ASP:HB2	2.06	0.56
55:DA:90:U:H1'	55:DA:91:A:N7	2.21	0.56
4:DE:159:HIS:HE1	4:DE:162:ALA:HB3	1.71	0.56
38:CK:13:ILE:O	38:CK:17:THR:HG23	2.06	0.56
38:BK:31:PHE:O	38:BK:35:ILE:HG13	2.05	0.56
13:D0:18:LEU:HD22	13:D0:18:LEU:O	2.05	0.56
1:AA:2475:C:H5'	1:AA:2476:A:OP2	2.06	0.56
4:AE:107:THR:O	4:AE:190:GLY:HA2	2.06	0.56
16:D1:110:VAL:O	16:D1:114:LYS:HG2	2.05	0.56
55:DA:1084:A:C6	55:DA:1085:A:N6	2.73	0.56
58:DL:128:ALA:O	58:DL:132:ARG:HB3	2.06	0.56
58:DL:21:PRO:HB2	58:DL:22:PRO:HD2	1.88	0.56
58:DL:51:ALA:HB1	58:DL:79:ARG:HE	1.71	0.56
58:DL:53:VAL:HA	58:DL:72:PRO:HB2	1.88	0.56
31:BA:1306:A:H1'	31:BA:1332:A:C2	2.41	0.56
28:A6:41:PRO:HD2	28:A6:46:HIS:CA	2.36	0.56
21:DV:105:VAL:HG12	21:DV:140:ASP:CB	2.33	0.56
46:CS:7:ALA:O	46:CS:9:PHE:CD2	2.58	0.56
26:A4:24:THR:HG22	26:A4:25:TYR:N	2.21	0.56
26:A4:39:CYS:O	26:A4:40:HIS:CB	2.53	0.56
54:CA:960:U:C2'	54:CA:960:U:O2	2.53	0.56
54:CA:973:G:N3	40:CM:55:LYS:HE2	2.21	0.56
55:DA:2346:A:O2'	55:DA:2347:C:P	2.64	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BG:21:LEU:HD12	34:BG:26:CYS:O	2.05	0.56
4:AE:55:ASN:HD21	4:AE:75:VAL:CA	2.19	0.56
4:AE:6:GLY:HA3	4:AE:28:ALA:HA	1.88	0.56
39:BL:65:VAL:O	39:BL:66:ARG:HB2	2.05	0.56
40:BM:7:LYS:CG	40:BM:71:LEU:HD13	2.36	0.56
33:BF:150:LYS:HB3	33:BF:201:TYR:HB2	1.88	0.56
55:DA:889:C:O2	55:DA:889:C:C2'	2.53	0.56
54:CA:1158:C:O2	54:CA:1158:C:C2'	2.54	0.56
1:AA:85:G:N3	1:AA:103:A:C2	2.74	0.56
55:DA:259:G:N2	55:DA:621:A:H8	1.96	0.56
13:A0:74:LYS:HE2	13:A0:77:ARG:NH2	2.19	0.56
54:CA:191(C):G:H2'	54:CA:191(D):U:O4'	2.06	0.56
25:AX:6:VAL:HG13	25:AX:56:VAL:CG2	2.35	0.56
1:AA:654(G):C:H2'	1:AA:654(H):G:N7	2.20	0.56
20:AU:72:VAL:CG2	20:AU:73:ARG:H	2.07	0.56
35:CH:72:GLN:NE2	35:CH:144:THR:HG22	2.21	0.56
1:AA:1098:A:H3'	1:AA:1099:G:H5'	1.86	0.56
11:AO:85:LEU:H	11:AO:85:LEU:CD2	2.19	0.56
31:BA:973:G:N3	40:BM:55:LYS:HE2	2.20	0.56
12:AP:22:LYS:O	12:AP:24:GLY:N	2.39	0.56
54:CA:84:U:C5'	54:CA:84:U:C6	2.87	0.56
55:DA:389:G:H22	11:DO:72:PRO:HD3	1.70	0.56
55:DA:2068:U:N3	55:DA:2430:A:C2	2.63	0.56
55:DA:2791:C:C5	55:DA:2893:G:C5	2.94	0.56
54:CA:481:G:H1'	54:CA:482:A:N7	2.20	0.56
55:DA:139:G:N3	55:DA:141:A:N1	2.54	0.56
54:CA:1238:A:N6	54:CA:1299:A:N6	2.54	0.56
31:BA:186(D):C:H2'	31:BA:186(E):C:H6	1.69	0.56
10:DN:1:MET:HA	10:DN:33:ALA:O	2.06	0.56
54:CA:807:A:H2'	54:CA:808:C:H6	1.68	0.56
5:AF:9:ILE:HG12	5:AF:15:SER:HA	1.88	0.56
31:BA:539:A:H2'	31:BA:540:G:H8	1.71	0.56
15:AR:97:ALA:HB1	15:AR:98:LYS:HZ3	1.71	0.56
1:AA:616:A:H2'	1:AA:616:A:N3	2.20	0.56
17:D2:66:ARG:CB	17:D2:66:ARG:HH11	2.19	0.56
1:AA:235:U:H2'	1:AA:236:C:C6	2.41	0.56
9:DM:18:ALA:HB2	9:DM:54:VAL:HG13	1.87	0.56
26:A4:67:TYR:O	26:A4:69:LYS:N	2.39	0.56
18:DS:59:VAL:HG12	18:DS:60:ASN:HD22	1.71	0.56
44:BQ:4:LYS:O	44:BQ:7:ILE:HG12	2.06	0.56
31:BA:194:C:H2'	31:BA:195:A:H5''	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:69:LEU:HD12	18:AS:69:LEU:O	2.06	0.56
55:DA:1789:A:OP1	3:DD:221:VAL:HA	2.06	0.56
31:BA:692:U:H2'	31:BA:694:A:OP2	2.06	0.56
55:DA:2082:A:H2'	55:DA:2083:G:O4'	2.06	0.56
58:DL:112:MET:HE3	58:DL:118:THR:C	2.26	0.55
58:DL:93:ARG:CA	58:DL:136:VAL:HG12	2.36	0.55
57:DY:138:LEU:C	57:DY:138:LEU:CD1	2.72	0.55
57:DY:38:HIS:CE1	57:DY:40:LEU:HD12	2.41	0.55
57:DY:38:HIS:O	57:DY:96:PHE:CE2	2.59	0.55
57:DY:91:LYS:HD3	57:DY:94:VAL:HG12	1.87	0.55
21:AV:183:LEU:O	21:AV:184:ALA:HB2	2.05	0.55
31:BA:1321:C:N4	31:BA:1322:C:N4	2.53	0.55
31:BA:1341:U:O2'	31:BA:1342:C:H5'	2.06	0.55
49:BV:23:ASN:O	49:BV:25:LYS:N	2.39	0.55
1:AA:384:U:C3'	1:AA:385:C:H5'	2.34	0.55
55:DA:897:C:H5	55:DA:897:C:OP2	1.87	0.55
6:AG:97:ASP:N	6:AG:100:TRP:HD1	2.02	0.55
31:BA:1327:C:H2'	31:BA:1328:C:H6	1.72	0.55
26:D4:56:VAL:O	26:D4:60:GLN:N	2.39	0.55
30:A8:47:LYS:C	30:A8:48:PHE:HD1	2.09	0.55
4:DE:51:PHE:HD1	4:DE:52:LEU:CG	2.19	0.55
55:DA:2344:U:H4'	55:DA:2345:G:OP1	2.04	0.55
17:A2:41:GLY:HA3	17:A2:46:VAL:CG1	2.36	0.55
17:A2:58:VAL:HB	17:A2:98:GLU:HG3	1.87	0.55
31:BA:438:G:H4'	34:BG:123:HIS:ND1	2.21	0.55
34:BG:9:CYS:HA	34:BG:12:CYS:CB	2.32	0.55
4:AE:4:ILE:C	4:AE:5:LEU:HD23	2.26	0.55
1:AA:1044:G:O3'	1:AA:1045:A:H4'	2.06	0.55
20:AU:20:TYR:C	20:AU:22:GLY:N	2.45	0.55
55:DA:2112:G:O2'	55:DA:2113:U:H5''	2.06	0.55
8:DK:76:THR:HG22	8:DK:77:LEU:HD12	1.87	0.55
8:DK:76:THR:HG22	8:DK:77:LEU:H	1.71	0.55
8:DK:77:LEU:CD1	8:DK:78:THR:N	2.69	0.55
17:D2:35:LEU:N	17:D2:35:LEU:HD22	2.12	0.55
55:DA:1933:G:H2'	55:DA:1934:C:C5'	2.35	0.55
23:AZ:79:GLY:C	23:AZ:80:LEU:HD13	2.26	0.55
31:BA:1381:U:H3	37:BJ:79:ARG:NH2	2.04	0.55
55:DA:2134:A:OP2	55:DA:2157:G:N2	2.38	0.55
55:DA:654(C):G:H2'	55:DA:654(D):G:C8	2.41	0.55
3:AD:27:THR:HG21	3:AD:83:GLU:OE2	2.05	0.55
29:D7:10:ARG:O	29:D7:14:LYS:HB2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DK:11:ASN:O	8:DK:12:LEU:CB	2.51	0.55
39:BL:95:LYS:HZ2	39:BL:96:LEU:HD13	1.71	0.55
39:BL:96:LEU:HD12	39:BL:101:PHE:HB2	1.87	0.55
55:DA:856:C:H4'	55:DA:857:C:OP1	2.06	0.55
31:BA:882:C:O2'	31:BA:883:C:H5'	2.06	0.55
11:AO:105:LEU:O	11:AO:106:LEU:HB2	2.05	0.55
11:AO:128:HIS:O	11:AO:147:LEU:HB3	2.06	0.55
31:BA:973:G:C1'	40:BM:55:LYS:HG2	2.36	0.55
32:CE:68:ILE:N	32:CE:68:ILE:HD12	2.21	0.55
34:CG:150:GLU:N	34:CG:150:GLU:OE1	2.37	0.55
54:CA:1189:C:P	40:CM:51:ARG:HH22	2.29	0.55
4:DE:167:VAL:HG21	4:DE:187:ALA:O	2.06	0.55
7:AH:136:ILE:HD12	7:AH:136:ILE:H	1.69	0.55
50:BW:72:LEU:HD11	50:BW:80:ARG:HD3	1.89	0.55
36:CI:19:LEU:HD11	36:CI:59:TYR:CZ	2.41	0.55
17:A2:22:VAL:CG2	17:A2:23:GLU:N	2.68	0.55
55:DA:2591:C:H2'	55:DA:2592:G:H8	1.69	0.55
47:CT:4:LYS:CE	47:CT:6:LEU:HD21	2.31	0.55
31:BA:1297:C:O2'	31:BA:1298:C:P	2.64	0.55
31:BA:1240:U:OP2	37:BJ:116:ALA:HB2	2.07	0.55
6:DG:41:GLN:HE21	6:DG:60:LEU:CD1	2.19	0.55
52:BB:61:C:O2'	52:BB:62:C:H5'	2.06	0.55
10:DN:104:ARG:HD3	15:DR:36:GLU:CD	2.27	0.55
1:AA:559:G:O2'	1:AA:560:C:H5'	2.06	0.55
14:AQ:110:LEU:HD22	14:AQ:111:GLU:N	2.20	0.55
1:AA:2102:U:H2'	1:AA:2103:C:H6	1.72	0.55
1:AA:2741:A:H61	1:AA:2763:G:C2'	2.19	0.55
55:DA:1385:G:C4'	55:DA:1386:C:OP1	2.54	0.55
54:CA:1260:C:OP1	54:CA:1284:C:H4'	2.06	0.55
55:DA:910:A:H62	12:DP:12:GLN:HA	1.71	0.55
1:AA:654(O):G:H2'	1:AA:654(P):G:C8	2.41	0.55
31:BA:80:G:N2	31:BA:90:C:H1'	2.21	0.55
55:DA:1151:G:H4'	16:D1:81:HIS:CD2	2.40	0.55
54:CA:1251:A:H4'	39:CL:12:GLU:OE1	2.06	0.55
3:DD:263:ARG:HB2	3:DD:263:ARG:NH1	2.21	0.55
31:BA:1091:U:H2'	31:BA:1093:A:OP2	2.06	0.55
46:BS:21:VAL:CG1	46:BS:34:GLU:HB3	2.35	0.55
8:AK:1:MET:HB2	8:AK:21:VAL:O	2.06	0.55
34:BG:59:ARG:HH21	34:BG:66:ARG:NH1	2.04	0.55
36:CI:30:LEU:C	36:CI:35:ALA:HB3	2.26	0.55
7:DH:17:VAL:HG12	7:DH:17:VAL:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:999:U:H5''	55:DA:1154:G:O6	2.06	0.55
41:CN:126:ARG:HG2	41:CN:126:ARG:HH11	1.72	0.55
9:DM:75:TYR:HA	9:DM:81:GLY:O	2.06	0.55
18:AS:70:TYR:H	18:AS:70:TYR:HD2	1.54	0.55
20:DU:33:LYS:HG3	20:DU:34:LYS:H	1.71	0.55
12:DP:23:GLY:HA3	12:DP:101:ARG:HD2	1.88	0.55
1:AA:1400:G:O2'	1:AA:1401:G:H5'	2.06	0.55
55:DA:2670:A:O2'	55:DA:2671:A:H5'	2.06	0.55
55:DA:2028:U:H2'	55:DA:2029:G:O4'	2.05	0.55
55:DA:2141:G:O2'	55:DA:2142:C:H5'	2.05	0.55
1:AA:2271:G:H5''	22:A3:20:ARG:HE	1.70	0.55
55:DA:1079:C:H1'	58:DL:129:GLY:C	2.27	0.55
56:DI:29:GLU:O	56:DI:30:ALA:O	2.25	0.55
58:DL:100:THR:O	58:DL:102:GLU:N	2.39	0.55
58:DL:93:ARG:HA	58:DL:136:VAL:HG12	1.87	0.55
57:DY:35:LYS:HA	57:DY:35:LYS:NZ	2.22	0.55
57:DY:43:ALA:O	57:DY:44:LEU:CB	2.54	0.55
57:DY:50:ARG:HB2	57:DY:50:ARG:CZ	2.36	0.55
57:DY:98:LYS:HG3	57:DY:99:SER:N	2.21	0.55
1:AA:897:C:N3	1:AA:898:C:C5	2.74	0.55
52:BB:58:A:H4'	52:BB:59:U:OP1	2.07	0.55
11:AO:55:ARG:O	11:AO:56:SER:C	2.44	0.55
2:AB:94:C:O2'	2:AB:95:U:H5'	2.06	0.55
1:AA:195:A:OP1	11:AO:46:LYS:HE2	2.06	0.55
55:DA:881:G:H3'	55:DA:882:G:O4'	2.05	0.55
3:DD:124:PRO:HB2	3:DD:126:GLN:HE22	1.70	0.55
2:AB:43:C:H1'	6:AG:93:THR:O	2.06	0.55
27:D5:56:LYS:O	27:D5:57:VAL:HG12	2.06	0.55
40:BM:78:ASN:C	40:BM:80:LYS:N	2.59	0.55
54:CA:1358:U:H5''	44:CQ:33:VAL:O	2.06	0.55
54:CA:963:G:N3	40:CM:55:LYS:NZ	2.54	0.55
16:A1:91:ASP:OD2	16:A1:96:ALA:HB2	2.07	0.55
17:A2:48:GLY:HA3	17:A2:52:VAL:CG2	2.31	0.55
17:A2:70:ILE:HB	17:A2:86:GLY:O	2.05	0.55
7:DH:153:LYS:HG3	7:DH:161:GLY:HA3	1.88	0.55
55:DA:1286:A:C2'	55:DA:1288:U:OP2	2.54	0.55
54:CA:130:A:H1'	54:CA:264:U:C4'	2.36	0.55
21:AV:63:ASP:O	21:AV:65:GLN:N	2.39	0.55
7:AH:105:LEU:HD13	7:AH:105:LEU:N	2.21	0.55
55:DA:2815:C:H2'	55:DA:2816:C:C6	2.41	0.55
30:D8:56:GLU:O	30:D8:59:LYS:N	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:4:HIS:HB3	27:D5:5:PRO:HD2	1.84	0.55
5:AF:164:ARG:HG3	5:AF:175:THR:HG21	1.88	0.55
1:AA:1798:U:H5'	3:AD:259:THR:OG1	2.06	0.55
4:AE:37:ARG:HA	4:AE:42:ASP:OD2	2.06	0.55
55:DA:1558:A:O2'	55:DA:1559:G:OP2	2.23	0.55
1:AA:1098:A:C3'	1:AA:1099:G:C5'	2.85	0.55
55:DA:857:C:H5'	22:D3:77:ARG:NH2	2.21	0.55
31:BA:5:U:C2'	31:BA:6:G:OP2	2.53	0.55
55:DA:2475:C:C2'	55:DA:2475:C:O2	2.52	0.55
1:AA:2158:A:H4'	1:AA:2159:G:O5'	2.07	0.55
55:DA:2563:U:O2'	10:DN:28:SER:HB3	2.07	0.55
31:BA:135:C:H2'	31:BA:136:C:H5'	1.88	0.55
18:DS:29:LEU:HD13	18:DS:69:LEU:CD1	2.36	0.55
11:DO:15:ARG:O	11:DO:17:LYS:N	2.38	0.55
1:AA:2298:A:N6	1:AA:2318:G:C8	2.74	0.55
45:BR:17:ARG:NH1	45:BR:77:ARG:NH1	2.54	0.55
15:AR:62:THR:HG22	15:AR:75:ILE:HG12	1.88	0.55
8:AK:47:LEU:O	8:AK:51:ILE:HG13	2.06	0.55
5:DF:175:THR:O	5:DF:176:LEU:HB2	2.05	0.55
55:DA:2754:U:H2'	55:DA:2756:U:OP1	2.06	0.55
31:BA:1190:G:H5'	33:BF:176:HIS:NE2	2.21	0.55
55:DA:1729:A:C2'	55:DA:1730:U:H5''	2.37	0.55
55:DA:955:C:OP1	12:DP:85:LYS:HE2	2.07	0.55
55:DA:2033:A:H4'	55:DA:2034:U:OP1	2.07	0.55
54:CA:85:U:O2'	54:CA:86:U:P	2.64	0.55
31:BA:951:G:OP2	43:BP:102:ARG:NH2	2.37	0.55
12:DP:24:GLY:HA2	12:DP:67:ARG:NH2	2.21	0.55
54:CA:673:G:H2'	54:CA:674:G:C8	2.41	0.55
7:DH:118:PRO:HG2	7:DH:121:ILE:HD12	1.88	0.55
7:AH:42:ARG:HG2	7:AH:42:ARG:HH11	1.70	0.55
31:BA:157:G:H2'	31:BA:158:G:H8	1.71	0.55
1:AA:643:A:N1	1:AA:2369:A:O2'	2.39	0.55
55:DA:1057:A:C6	55:DA:1086:A:C2	2.94	0.55
56:DI:16:THR:CG2	56:DI:17:VAL:N	2.56	0.55
58:DL:144:VAL:HG13	58:DL:145:LYS:N	2.13	0.55
58:DL:7:VAL:CG1	58:DL:58:THR:C	2.67	0.55
57:DY:9:LEU:CD1	57:DY:10:LEU:N	2.51	0.55
57:DY:9:LEU:CD2	57:DY:9:LEU:C	2.71	0.55
21:AV:103:ARG:HA	21:AV:103:ARG:NE	2.21	0.55
55:DA:1359:A:N7	55:DA:1359:A:OP2	2.38	0.55
11:AO:57:THR:CG2	11:AO:60:MET:HB2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BV:6:LYS:HZ2	49:BV:10:PHE:HZ	1.53	0.55
8:AK:142:VAL:O	8:AK:143:SER:HB2	2.06	0.55
17:A2:46:VAL:HG22	17:A2:46:VAL:O	2.06	0.55
1:AA:2611:U:H6	1:AA:2611:U:H5'	1.72	0.55
1:AA:1929:G:N3	1:AA:1929:G:C2'	2.69	0.55
20:DU:81:LYS:HB3	20:DU:97:ARG:CD	2.36	0.55
55:DA:2700:C:O2'	55:DA:2701:C:H5'	2.05	0.55
31:BA:405:U:H3'	31:BA:406:G:H5'	1.89	0.55
31:BA:1125:U:O4	40:BM:5:ARG:NH1	2.39	0.55
54:CA:1401:G:C2	54:CA:1402:C:H1'	2.42	0.55
55:DA:637:A:P	11:DO:116:GLY:HA2	2.46	0.55
6:DG:180:PHE:C	6:DG:182:LYS:N	2.60	0.55
16:D1:112:ARG:HH11	16:D1:112:ARG:HG2	1.71	0.55
23:AZ:90:ILE:CG2	23:AZ:91:LYS:N	2.68	0.55
55:DA:1332:G:H5''	55:DA:1333:C:OP2	2.07	0.55
20:AU:30:VAL:O	20:AU:36:ALA:O	2.23	0.55
6:DG:145:THR:HG22	26:D4:28:LYS:HZ1	1.71	0.55
55:DA:1162:G:O3'	17:D2:24:LYS:NZ	2.40	0.55
31:BA:1054:C:O2'	31:BA:1055:A:H5''	2.07	0.55
34:CG:29:PRO:O	34:CG:30:LYS:HB3	2.06	0.55
55:DA:1111:A:C5'	7:DH:3:ARG:NH1	2.69	0.55
1:AA:1465:G:H5'	1:AA:1528:A:H1'	1.89	0.55
55:DA:2304:G:N2	6:DG:156:ASP:OD2	2.31	0.55
12:AP:130:LYS:HZ3	21:AV:81:ARG:HG2	1.71	0.55
32:BE:22:LYS:HA	32:BE:22:LYS:NZ	2.21	0.55
54:CA:8:A:O2'	35:CH:103:GLY:N	2.38	0.55
3:DD:134:ARG:HG3	3:DD:187:GLY:C	2.26	0.55
1:AA:1652:A:OP1	13:A0:8:ARG:NH1	2.39	0.55
54:CA:35:G:H2'	54:CA:36:C:C6	2.41	0.55
33:CF:34:LEU:CD2	33:CF:38:ARG:HD2	2.37	0.55
49:BV:76:PRO:CB	49:BV:78:ARG:HD3	2.36	0.55
34:CG:129:ASN:HA	34:CG:145:GLU:CG	2.35	0.55
55:DA:2054:A:H5''	55:DA:2055:C:O5'	2.05	0.55
13:D0:74:LYS:O	13:D0:75:LEU:CB	2.54	0.55
21:DV:20:ARG:C	21:DV:22:GLY:H	2.09	0.55
33:CF:134:ILE:HG22	33:CF:168:ALA:HB3	1.88	0.55
14:AQ:100:ALA:O	14:AQ:103:GLU:HG2	2.06	0.55
14:AQ:83:LYS:O	14:AQ:109:GLY:HA3	2.06	0.55
50:BW:8:ARG:NH1	50:BW:8:ARG:HG3	2.19	0.55
52:CB:7:A:H4'	52:CB:8:U:OP1	2.04	0.55
37:CJ:12:LEU:HD22	37:CJ:12:LEU:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:136:THR:HG23	5:AF:170:LEU:HD11	1.89	0.55
23:DZ:82:LEU:N	23:DZ:82:LEU:HD22	2.22	0.55
1:AA:2449:U:O2'	1:AA:2450:A:H8	1.87	0.55
31:BA:1246:C:H2'	31:BA:1247:U:H6	1.72	0.55
31:BA:913:A:H4'	31:BA:914:A:O5'	2.06	0.55
3:DD:223:GLY:O	3:DD:225:ALA:N	2.38	0.55
9:AM:49:GLY:O	9:AM:119:ARG:NH1	2.39	0.55
47:BT:22:LEU:HD11	47:BT:39:SER:HB2	1.88	0.55
54:CA:177:C:OP2	50:CW:65:LYS:HE2	2.06	0.55
31:BA:67:C:O2'	31:BA:171:A:H1'	2.05	0.55
4:AE:39:PRO:HA	4:AE:43:GLY:H	1.70	0.55
1:AA:500:G:N2	1:AA:502:A:H3'	2.21	0.55
15:AR:88:ILE:HD12	15:AR:88:ILE:C	2.26	0.55
41:BN:69:ALA:O	41:BN:73:MET:HG2	2.06	0.55
9:AM:94:HIS:HB2	9:AM:96:GLU:OE2	2.05	0.55
15:AR:2:ASN:O	15:AR:3:ARG:HB2	2.05	0.55
43:BP:78:ILE:O	43:BP:81:LEU:N	2.38	0.55
21:DV:175:VAL:CB	21:DV:176:PRO:HA	2.36	0.55
26:A4:12:ALA:C	26:A4:24:THR:OG1	2.44	0.55
55:DA:2631:G:N3	55:DA:2810:A:H2	2.05	0.55
55:DA:2876:G:OP1	15:DR:4:GLY:N	2.38	0.55
15:DR:3:ARG:HG3	15:DR:7:ILE:CG1	2.36	0.55
17:A2:2:PHE:CD2	17:A2:42:GLY:HA2	2.42	0.55
1:AA:1340:U:HO2'	1:AA:1341:U:P	2.29	0.55
1:AA:2791:C:C5	1:AA:2893:G:C5	2.94	0.55
40:BM:71:LEU:HD12	40:BM:72:VAL:N	2.21	0.55
7:DH:123:PHE:O	7:DH:125:VAL:HG23	2.06	0.55
54:CA:1450:U:O2	54:CA:1452:C:H5"	2.06	0.55
17:D2:16:PRO:HA	17:D2:96:ILE:HG22	1.89	0.55
40:CM:38:ILE:HD11	40:CM:71:LEU:CD2	2.32	0.55
32:CE:163:PHE:HA	32:CE:185:ILE:CG1	2.35	0.55
8:DK:77:LEU:CD1	8:DK:140:LEU:HB2	2.23	0.55
31:BA:1346:A:O2'	31:BA:1347:G:P	2.64	0.55
39:BL:105:ASP:OD2	39:BL:107:ARG:HD3	2.07	0.55
1:AA:1142(A):A:H4'	9:AM:25:ARG:HH22	1.71	0.55
9:AM:99:LEU:HD13	9:AM:99:LEU:O	2.06	0.55
1:AA:2531:A:H3'	1:AA:2532:G:H8	1.71	0.55
5:AF:17:ARG:O	5:AF:17:ARG:HD3	2.06	0.55
5:AF:4:VAL:HG22	5:AF:19:GLU:OE1	2.07	0.55
8:DK:86:THR:HG22	8:DK:86:THR:O	2.07	0.55
3:AD:27:THR:HG21	3:AD:83:GLU:CG	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:35:LYS:HG2	3:AD:64:ILE:CA	2.36	0.55
1:AA:2425:A:H5''	1:AA:2426:A:O5'	2.07	0.55
1:AA:1798:U:OP1	3:AD:260:ARG:HB2	2.07	0.55
39:BL:99:LEU:HB3	39:BL:101:PHE:HE1	1.71	0.55
54:CA:1190:G:OP2	33:CF:5:ILE:HG23	2.07	0.55
33:BF:42:LEU:HD11	33:BF:46:GLU:OE2	2.06	0.55
1:AA:1779:U:OP2	1:AA:1784:A:N6	2.38	0.55
2:AB:8:U:O2'	14:AQ:40:ILE:HD13	2.07	0.55
54:CA:1152:A:O2'	54:CA:1153:C:H5'	2.06	0.55
1:AA:2776:A:O2'	1:AA:2781:A:H4'	2.06	0.55
52:CD:2:C:H2'	52:CD:3:C:H6	1.70	0.55
1:AA:1945:G:C4	1:AA:1946:U:C5	2.95	0.55
54:CA:1149:C:H2'	54:CA:1150:U:O4'	2.06	0.55
32:CE:144:ARG:O	32:CE:147:LYS:HB3	2.06	0.55
33:BF:70:VAL:HG12	33:BF:72:LYS:N	2.20	0.55
34:BG:189:PRO:CB	34:BG:194:LEU:HD21	2.36	0.55
55:DA:1709:U:H1'	55:DA:2860:A:N3	2.22	0.55
55:DA:1963:U:C2'	55:DA:1963:U:O2	2.53	0.55
31:BA:983:A:H2	31:BA:984:C:C6	2.24	0.55
1:AA:2851:A:O2'	1:AA:2852:G:H5'	2.05	0.55
1:AA:1116:C:H2'	1:AA:1117:G:C8	2.42	0.55
1:AA:372:G:O2'	1:AA:400:G:N1	2.40	0.55
43:BP:97:PRO:CA	43:BP:110:ARG:HD3	2.36	0.55
38:BK:29:SER:O	38:BK:32:LYS:HB2	2.05	0.55
18:DS:82:LEU:HD12	18:DS:82:LEU:N	2.21	0.55
1:AA:191:A:O2'	1:AA:192:C:H5'	2.06	0.55
55:DA:660:G:H5'	5:DF:99:TYR:CD2	2.42	0.55
36:BI:38:GLU:HB3	36:BI:64:GLN:O	2.07	0.55
43:CP:40:ASN:HD21	43:CP:42:ALA:HB3	1.72	0.55
54:CA:432:A:H2'	54:CA:433:C:O4'	2.06	0.55
55:DA:2872:G:H2'	55:DA:2873:A:C8	2.41	0.55
1:AA:1469:A:H2'	1:AA:1470:G:C8	2.41	0.55
31:BA:237:C:O3'	47:BT:25:ARG:NH2	2.40	0.55
55:DA:1259:G:O2'	55:DA:1260:G:H5'	2.07	0.55
33:CF:143:GLU:C	33:CF:145:GLY:H	2.09	0.55
16:D1:17:ILE:HG23	16:D1:39:LEU:HD12	1.88	0.55
36:BI:28:ARG:HA	36:BI:28:ARG:HH11	1.70	0.55
8:AK:13:GLY:HA3	8:AK:17:GLN:OE1	2.07	0.55
4:AE:8:LYS:O	4:AE:9:VAL:HG13	2.06	0.55
58:DL:55:VAL:HA	58:DL:69:THR:OG1	2.06	0.55
57:DY:26:LEU:C	57:DY:111:LEU:H	2.09	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:23:SER:OG	57:DY:68:LEU:CB	2.54	0.55
57:DY:75:GLN:HB3	57:DY:111:LEU:CA	2.33	0.55
1:AA:2285:C:C5'	1:AA:2286:A:OP2	2.55	0.55
21:DV:183:LEU:N	21:DV:183:LEU:HD23	2.22	0.55
20:DU:19:LYS:O	20:DU:20:TYR:CG	2.60	0.55
20:DU:42:VAL:HG12	20:DU:65:ALA:HB3	1.88	0.55
44:CQ:33:VAL:HG13	44:CQ:39:LEU:O	2.06	0.55
16:A1:105:VAL:HG23	16:A1:106:PHE:N	2.21	0.55
3:AD:239:ARG:O	3:AD:240:ALA:CB	2.51	0.55
34:BG:36:ARG:HB2	34:BG:38:TYR:CE2	2.41	0.55
39:BL:3:GLN:NE2	39:BL:20:ARG:HH22	2.05	0.55
32:CE:163:PHE:CD2	32:CE:185:ILE:HG13	2.41	0.55
16:D1:65:ILE:HG12	16:D1:96:ALA:CB	2.36	0.55
16:D1:95:LEU:HD13	17:D2:4:ILE:HG21	1.88	0.55
8:DK:125:GLU:OE1	8:DK:141:LYS:HA	2.05	0.55
55:DA:887:A:O2'	55:DA:888:C:C5'	2.54	0.55
20:AU:84:ARG:HB3	20:AU:95:LYS:HE3	1.89	0.55
37:BJ:84:ASN:OD1	52:BD:37:MIA:H131	2.06	0.55
5:AF:38:ARG:HD3	5:AF:99:TYR:OH	2.06	0.55
55:DA:2311:A:C8	6:DG:88:ILE:HG13	2.41	0.55
55:DA:654(R):C:C2	55:DA:654(S):G:C8	2.94	0.55
55:DA:593:G:H2'	55:DA:594:U:C6	2.41	0.55
1:AA:27:G:C2'	1:AA:28:A:OP2	2.55	0.55
55:DA:1931:U:H5	55:DA:1969:A:N7	2.04	0.55
35:BH:48:ALA:HB2	35:BH:57:LYS:HD3	1.88	0.55
31:BA:192:U:H2'	31:BA:193:C:C6	2.41	0.55
43:CP:65:LYS:HB2	43:CP:69:GLU:CB	2.36	0.55
31:BA:191(C):G:H5'	31:BA:191(D):U:OP2	2.07	0.55
55:DA:811:U:H2'	11:DO:21:ARG:HG3	1.88	0.55
55:DA:2529:G:OP2	55:DA:2530:A:H5''	2.07	0.55
31:BA:498:A:O2'	31:BA:500:G:H8	1.83	0.55
1:AA:289:A:N3	1:AA:289:A:H2'	2.21	0.55
55:DA:990:A:OP2	55:DA:991:C:OP2	2.24	0.55
7:AH:33:LEU:CD1	7:AH:79:VAL:HG13	2.36	0.55
42:CO:27:LEU:HD23	42:CO:64:TYR:OH	2.06	0.55
1:AA:1538:G:O2'	1:AA:1539:G:H5'	2.07	0.55
55:DA:2162:G:O2'	55:DA:2163:C:H5'	2.07	0.55
52:CD:1:G:C2'	52:CD:2:C:OP1	2.55	0.55
31:BA:1285:A:O2'	31:BA:1286:A:P	2.64	0.55
11:DO:47:ASP:C	11:DO:47:ASP:OD2	2.42	0.55
1:AA:1329:U:H5''	1:AA:1330:C:H5	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:51:VAL:HG11	38:CK:60:ARG:CG	2.37	0.55
1:AA:1558:A:HO2'	1:AA:1559:G:P	2.28	0.55
10:DN:1:MET:HE3	10:DN:67:LYS:HE2	1.87	0.55
20:DU:90:LEU:N	20:DU:90:LEU:HD22	2.22	0.55
10:DN:104:ARG:HD3	15:DR:36:GLU:OE2	2.06	0.55
1:AA:2825:C:H2'	1:AA:2826:A:O4'	2.07	0.55
1:AA:870:A:H2'	1:AA:871:U:O4'	2.05	0.55
32:CE:102:LEU:N	32:CE:102:LEU:HD12	2.20	0.55
1:AA:1419:A:H2'	1:AA:1421:G:N7	2.21	0.55
48:CU:30:ASP:C	48:CU:32:ARG:H	2.10	0.55
54:CA:366:C:O2'	54:CA:367:U:P	2.65	0.55
55:DA:270(P):C:H2'	55:DA:270(Q):C:H6	1.72	0.55
2:AB:29:A:H2'	2:AB:30:C:O4'	2.07	0.55
31:BA:24:U:H2'	31:BA:25:C:C6	2.42	0.55
5:DF:114:VAL:HG21	5:DF:202:PHE:CZ	2.41	0.55
35:CH:64:ARG:HG3	35:CH:64:ARG:HH11	1.72	0.55
55:DA:833:U:H1'	11:DO:55:ARG:NH1	2.21	0.55
15:AR:58:ASN:N	15:AR:58:ASN:HD22	2.03	0.55
34:BG:199:ASN:O	34:BG:201:GLN:N	2.38	0.55
32:BE:109:SER:HA	32:BE:112:VAL:HG23	1.87	0.55
4:AE:8:LYS:O	4:AE:9:VAL:CG2	2.52	0.55
57:DY:90:ALA:H	56:DJ:15:ALA:CA	2.18	0.55
56:DJ:3:LEU:O	56:DJ:5:ILE:N	2.40	0.55
58:DL:93:ARG:HA	58:DL:135:GLY:C	2.26	0.55
58:DL:21:PRO:CB	58:DL:22:PRO:CD	2.82	0.55
57:DY:33:PRO:O	57:DY:34:ALA:C	2.44	0.55
57:DY:5:ARG:N	57:DY:5:ARG:HD2	2.21	0.55
21:AV:145:GLU:HA	21:AV:174:VAL:CG1	2.25	0.55
31:BA:1321:C:C5'	31:BA:1322:C:H5''	2.36	0.55
44:BQ:18:VAL:C	44:BQ:20:ALA:H	2.09	0.55
1:AA:2372:G:H1'	28:A6:46:HIS:CE1	2.42	0.55
12:AP:38:GLU:O	12:AP:127:ILE:HD13	2.06	0.55
55:DA:877:U:C2'	55:DA:878:A:O5'	2.53	0.55
55:DA:894:C:C2'	55:DA:895:U:C6	2.85	0.55
54:CA:624:C:O3'	46:CS:10:GLY:HA2	2.06	0.55
26:A4:9:LEU:O	26:A4:9:LEU:HD23	2.07	0.55
6:AG:67:LYS:HG3	26:A4:6:HIS:CG	2.42	0.55
54:CA:1305:G:C5'	51:CX:4:GLY:HA3	2.34	0.55
4:DE:59:VAL:CG1	4:DE:63:LEU:HB3	2.36	0.55
55:DA:1180:C:C2'	55:DA:1181:C:H5'	2.35	0.55
21:DV:152:ALA:C	21:DV:154:ASP:N	2.59	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:27:LYS:CB	28:D6:27:LYS:HZ2	2.13	0.55
11:DO:62:LEU:O	11:DO:62:LEU:CD2	2.41	0.55
34:BG:19:LEU:HD12	34:BG:21:LEU:CD2	2.36	0.55
1:AA:2751:G:O6	7:AH:2:SER:HB3	2.06	0.55
55:DA:1020:A:N6	55:DA:1141:U:HO2'	2.04	0.55
1:AA:2532:G:H4'	1:AA:2657:A:C2	2.42	0.55
55:DA:1026:U:H1'	55:DA:1027:A:O5'	2.07	0.55
32:BE:17:PHE:HZ	32:BE:44:LEU:HA	1.71	0.55
1:AA:87:C:OP2	1:AA:90:U:O4	2.24	0.55
55:DA:1771:C:C1'	55:DA:1786:A:C8	2.89	0.55
42:BO:32:PHE:CB	42:BO:84:LEU:HD21	2.36	0.55
19:DT:63:LYS:O	19:DT:64:LYS:HD2	2.05	0.55
36:BI:14:LEU:HD21	36:BI:18:GLN:CB	2.37	0.55
55:DA:1509:C:N4	55:DA:1511:A:N6	2.54	0.55
31:BA:173:U:H5''	31:BA:197:A:O4'	2.07	0.55
7:AH:118:PRO:HG2	7:AH:121:ILE:CG1	2.37	0.55
42:CO:64:TYR:O	42:CO:65:GLU:HB2	2.07	0.55
50:BW:26:ASN:CB	50:BW:71:THR:HG23	2.34	0.55
31:BA:703:G:O2'	31:BA:704:A:OP2	2.19	0.55
52:BC:19:G:H21	52:BC:57:G:H1'	1.72	0.55
52:BC:58:A:H2'	52:BC:60:U:OP2	2.05	0.55
1:AA:2823:A:OP1	4:AE:113:PHE:HB2	2.06	0.55
11:AO:124:LYS:HA	11:AO:143:GLY:O	2.06	0.55
54:CA:451:A:H4'	54:CA:452:A:O4'	2.06	0.55
52:BC:43:C:O2'	52:BC:44:G:OP1	2.21	0.55
35:BH:87:SER:HB3	35:BH:131:ILE:HD13	1.88	0.55
47:CT:78:GLU:O	47:CT:78:GLU:HG2	2.06	0.55
54:CA:1283:G:O2'	54:CA:1284:C:H5'	2.06	0.55
55:DA:1448:G:H1'	55:DA:1528:A:H62	1.71	0.55
31:BA:1058:G:H2'	31:BA:1059:C:C6	2.42	0.55
1:AA:1694:C:O2'	1:AA:1695:G:OP2	2.23	0.55
31:BA:439:A:OP2	31:BA:493:G:N1	2.35	0.55
1:AA:2648:C:H2'	1:AA:2649:U:H6	1.72	0.55
52:CD:37:MIA:H3'	52:CD:38:A:H8	1.71	0.55
31:BA:551:U:H2'	31:BA:552:U:H6	1.72	0.55
31:BA:432:A:H3'	31:BA:433:C:C6	2.40	0.55
1:AA:38:A:H2'	1:AA:39:C:C6	2.42	0.55
55:DA:1530:G:H2'	55:DA:1531:C:H6	1.72	0.55
55:DA:1341:U:O2'	19:DT:55:ASN:HB3	2.05	0.55
31:BA:75:C:H2'	31:BA:76:G:O4'	2.06	0.55
52:BD:26:A:H61	52:BD:44:G:H1	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1310:G:O2'	54:CA:1311:G:H5'	2.07	0.55
5:DF:11:VAL:HB	5:DF:18:ARG:HG3	1.88	0.55
13:A0:17:ARG:O	13:A0:20:LEU:HB3	2.06	0.55
57:DY:89:ALA:C	56:DJ:15:ALA:HB2	2.26	0.55
56:DJ:18:LEU:O	56:DJ:21:LYS:HB2	2.07	0.55
56:DI:29:GLU:CD	56:DJ:6:GLU:OE2	2.45	0.55
58:DL:78:ILE:HG12	58:DL:131:ALA:CB	2.36	0.55
58:DL:84:LEU:N	58:DL:84:LEU:HD12	2.22	0.55
57:DY:135:ARG:HD2	57:DY:138:LEU:HG	1.88	0.55
57:DY:15:GLU:O	57:DY:15:GLU:CG	2.46	0.55
57:DY:50:ARG:O	57:DY:51:LEU:CD2	2.55	0.55
57:DY:59:ILE:HD11	57:DY:60:ARG:CZ	2.36	0.55
57:DY:73:GLY:CA	57:DY:119:ALA:C	2.74	0.55
1:AA:957:A:C2	1:AA:2458:G:H4'	2.41	0.55
1:AA:960:A:C4'	1:AA:2457:U:H4'	2.36	0.55
25:AX:19:GLN:HE22	25:AX:52:HIS:HE1	1.53	0.55
25:AX:19:GLN:O	25:AX:22:ALA:HB3	2.06	0.55
6:AG:101:ILE:HD13	26:A4:9:LEU:HD11	1.88	0.55
17:A2:43:GLU:O	17:A2:44:LYS:HD3	2.07	0.55
17:A2:58:VAL:HB	17:A2:98:GLU:CG	2.37	0.55
1:AA:2553:G:H2'	1:AA:2554:U:O4'	2.07	0.55
31:BA:430:A:OP2	34:BG:8:VAL:HG22	2.07	0.55
34:BG:23:GLY:C	34:BG:24:GLU:HG2	2.26	0.55
55:DA:524:U:H4'	55:DA:554:U:H4'	1.87	0.55
39:BL:14:VAL:O	39:BL:65:VAL:HG23	2.06	0.55
40:BM:5:ARG:HA	40:BM:73:ASP:OD2	2.07	0.55
40:CM:48:THR:HG23	40:CM:62:HIS:HB3	1.89	0.55
52:BD:59:U:H2'	52:BD:60:U:C5'	2.37	0.55
17:D2:3:ALA:O	17:D2:4:ILE:HD13	2.06	0.55
35:BH:35:GLY:HA3	35:BH:112:LEU:O	2.07	0.55
55:DA:1331:A:H2'	55:DA:1333:C:H5	1.72	0.55
21:AV:98:MET:O	21:AV:125:LEU:HA	2.07	0.55
21:AV:6:LYS:O	21:AV:7:ALA:CB	2.55	0.55
1:AA:1667:G:O2'	1:AA:1669:A:N6	2.39	0.55
11:AO:6:LEU:O	11:AO:7:ARG:HG2	2.07	0.55
14:DQ:18:ILE:C	14:DQ:19:LYS:O	2.43	0.55
55:DA:2061:G:OP2	55:DA:2502:G:H5'	2.07	0.55
55:DA:1904:G:C2'	55:DA:1905:C:H5'	2.37	0.55
47:BT:32:TYR:O	47:BT:34:LYS:N	2.40	0.55
52:BB:8:U:OP2	52:BB:8:U:H6	1.89	0.55
37:BJ:20:ASP:HB3	37:BJ:23:VAL:HG23	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DH:20:ALA:CB	7:DH:21:PRO:HD2	2.34	0.55
33:BF:63:ASN:O	33:BF:64:VAL:HB	2.06	0.55
1:AA:752:A:HO2'	1:AA:753:C:P	2.27	0.55
4:DE:2:LYS:NZ	4:DE:95:ILE:O	2.40	0.55
1:AA:440:G:H2'	1:AA:441:U:H6	1.72	0.55
36:CI:46:ARG:NH2	48:CU:37:VAL:HG23	2.22	0.55
1:AA:2777:G:H5''	1:AA:2778:A:C5'	2.34	0.55
54:CA:353:A:H5'	54:CA:353:A:C8	2.36	0.55
54:CA:34:C:O2'	54:CA:35:G:H5'	2.06	0.55
54:CA:49:U:H5''	54:CA:50:A:OP2	2.07	0.55
1:AA:1283:G:N2	1:AA:1286:A:OP2	2.37	0.55
36:BI:91:VAL:HG11	48:BU:72:ARG:CZ	2.35	0.55
54:CA:502:G:H2'	54:CA:503:C:C6	2.42	0.55
55:DA:2849:U:OP1	15:DR:95:ARG:NH1	2.40	0.55
1:AA:2848:G:O2'	1:AA:2849:U:P	2.63	0.55
5:AF:9:ILE:HG12	5:AF:15:SER:CA	2.36	0.55
54:CA:1435:G:H2'	54:CA:1436:U:C6	2.42	0.55
33:CF:78:GLY:HA3	33:CF:83:ARG:H	1.72	0.55
43:BP:97:PRO:HA	43:BP:110:ARG:HD3	1.89	0.55
1:AA:1683:C:H2'	1:AA:1684:C:H6	1.71	0.55
1:AA:1278:A:O3'	13:A0:34:ILE:CD1	2.54	0.55
31:BA:744:C:O2'	31:BA:745:C:H5'	2.07	0.55
55:DA:2167:U:O2	55:DA:2167:U:H2'	2.05	0.55
45:BR:3:ILE:HD13	45:BR:3:ILE:H	1.72	0.55
2:DB:105:G:O2'	2:DB:106:G:H5'	2.07	0.55
18:AS:20:VAL:O	18:AS:23:LEU:HB2	2.06	0.55
14:DQ:46:VAL:HG12	14:DQ:47:THR:N	2.22	0.55
23:AZ:23:LYS:HD3	23:AZ:28:GLY:HA3	1.89	0.55
55:DA:2650:U:H2'	55:DA:2651:C:C6	2.41	0.55
55:DA:174:C:H2'	55:DA:175:G:O4'	2.07	0.55
54:CA:1120:G:H2'	54:CA:1121:U:C6	2.42	0.55
31:BA:1056:U:H5'	33:BF:163:ALA:CB	2.37	0.55
37:CJ:57:GLU:O	37:CJ:61:VAL:HG23	2.06	0.55
11:AO:37:GLY:O	11:AO:39:LYS:N	2.39	0.55
38:CK:5:PRO:O	38:CK:8:ASP:HB3	2.07	0.55
3:AD:7:LYS:HB3	3:AD:7:LYS:NZ	2.21	0.55
55:DA:2870:C:H5'	13:D0:61:HIS:HE1	1.70	0.55
1:AA:2278:A:H2'	1:AA:2279:G:O5'	2.07	0.55
1:AA:270(R):G:H2'	1:AA:270(S):G:C8	2.41	0.55
4:AE:24:THR:O	4:AE:25:VAL:HB	2.07	0.55
56:DI:14:GLN:O	56:DI:15:ALA:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DI:24:ILE:CD1	56:DI:25:ASP:HB2	2.37	0.55
21:AV:177:PRO:O	21:AV:180:VAL:HA	2.07	0.55
21:DV:196:VAL:C	21:DV:197:ILE:CD1	2.75	0.55
49:BV:40:ILE:O	49:BV:40:ILE:HG23	2.06	0.55
49:BV:36:ARG:NH2	49:BV:75:ALA:HB3	2.22	0.55
2:AB:83:G:H5''	25:AX:52:HIS:ND1	2.22	0.55
26:A4:9:LEU:CG	26:A4:25:TYR:HB3	2.37	0.55
6:AG:114:ILE:HB	6:AG:117:PHE:HB2	1.88	0.55
51:BX:8:THR:HG22	51:BX:9:ARG:N	2.21	0.55
49:CV:44:MET:O	49:CV:46:GLY:N	2.40	0.55
30:A8:14:VAL:HG12	30:A8:15:LYS:H	1.72	0.55
44:CQ:24:CYS:HA	44:CQ:38:GLY:O	2.07	0.55
8:AK:125:GLU:HA	8:AK:141:LYS:CB	2.35	0.55
16:A1:79:PHE:CD2	16:A1:79:PHE:C	2.80	0.55
1:AA:2750:A:H5''	1:AA:2751:G:OP2	2.07	0.55
1:AA:2505:G:HO2'	1:AA:2506:U:H6	1.52	0.55
32:CE:75:LYS:HA	32:CE:78:GLN:HE21	1.71	0.55
31:BA:1037:C:H2'	31:BA:1038:C:H6	1.72	0.55
55:DA:1265:A:H1'	55:DA:1267:U:C6	2.42	0.55
31:BA:1225:A:N3	31:BA:1225:A:H2'	2.22	0.55
52:CD:8:U:O4'	52:CD:48:C:O2'	2.25	0.55
11:DO:30:THR:O	11:DO:31:ALA:CB	2.54	0.55
32:BE:59:GLU:O	32:BE:62:ALA:HB3	2.07	0.55
46:CS:6:LEU:CD1	46:CS:19:ILE:HD13	2.37	0.55
15:DR:50:ILE:HA	15:DR:99:LEU:CD1	2.36	0.55
24:AW:51:ARG:CZ	24:AW:55:ARG:HH12	2.20	0.55
55:DA:1905:C:H2'	55:DA:1930:G:C8	2.42	0.55
4:AE:37:ARG:HD3	4:AE:44:TYR:OH	2.07	0.55
39:CL:113:LYS:N	39:CL:113:LYS:HD2	2.22	0.55
37:BJ:27:ILE:H	37:BJ:27:ILE:HD12	1.71	0.55
1:AA:2050:C:H1'	4:AE:156:MET:HE2	1.88	0.55
32:CE:61:LEU:HD21	32:CE:161:ALA:HB3	1.87	0.55
54:CA:1189:C:O3'	33:CF:5:ILE:HD12	2.07	0.55
54:CA:1189:C:P	40:CM:51:ARG:NH2	2.80	0.55
55:DA:1799:G:H2'	3:DD:181:GLU:OE2	2.06	0.55
7:AH:72:ILE:O	7:AH:75:ALA:HB3	2.07	0.55
43:CP:108:ARG:HH11	43:CP:108:ARG:HA	1.69	0.55
1:AA:1162:G:H2'	1:AA:1163:G:H8	1.71	0.55
31:BA:1253:G:H2'	31:BA:1254:C:H6	1.72	0.55
1:AA:2211:G:O2'	1:AA:2212:A:OP2	2.21	0.55
22:A3:72:ARG:NH2	22:A3:75:LEU:HD12	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2377:A:H4'	14:AQ:111:GLU:O	2.07	0.55
48:BU:31:LEU:HD23	48:BU:31:LEU:N	2.22	0.55
35:BH:11:ILE:HD13	35:BH:105:VAL:HA	1.88	0.55
52:BC:38:A:H2'	52:BC:39:U:H5'	1.88	0.55
31:BA:1368:G:OP2	39:BL:112:LYS:HD2	2.06	0.55
6:DG:126:ASP:OD1	6:DG:130:ASN:HB2	2.06	0.55
55:DA:2332:U:H5'	55:DA:2336:A:N6	2.22	0.55
7:AH:10:PRO:HG3	7:AH:69:ARG:CZ	2.36	0.55
45:CR:3:ILE:HD13	45:CR:3:ILE:N	2.21	0.55
43:BP:115:LYS:H	43:BP:115:LYS:HD2	1.71	0.55
4:AE:203:LYS:O	4:AE:204:ALA:HB2	2.06	0.55
31:BA:1275:A:H2'	31:BA:1276:G:O4'	2.07	0.55
55:DA:412:A:N7	55:DA:2411:A:H2	2.04	0.55
17:D2:91:TYR:C	17:D2:91:TYR:CD1	2.80	0.55
34:BG:98:GLU:OE2	34:BG:103:ASN:ND2	2.40	0.55
37:BJ:77:SER:HB2	52:BD:32:U:O3'	2.06	0.55
18:DS:95:ILE:O	18:DS:95:ILE:HD12	2.06	0.55
34:BG:209:ARG:O	34:BG:209:ARG:HG2	2.06	0.55
54:CA:439:A:OP2	54:CA:493:G:N1	2.39	0.55
1:AA:262:A:H2'	1:AA:263:C:O4'	2.06	0.55
42:CO:43:VAL:O	42:CO:44:THR:HG23	2.05	0.55
56:DI:17:VAL:HB	56:DI:21:LYS:HE3	1.89	0.55
58:DL:70:LYS:O	58:DL:72:PRO:HD3	2.07	0.55
58:DL:78:ILE:HA	58:DL:82:ALA:CB	2.34	0.55
57:DY:1:MET:HE3	57:DY:3:ASN:ND2	2.22	0.55
31:BA:1357:A:N7	31:BA:1358:U:C5	2.75	0.55
26:D4:68:ARG:C	26:D4:70:GLY:N	2.58	0.55
2:AB:88:C:H3'	2:AB:89:G:C8	2.37	0.55
42:CO:90:VAL:O	42:CO:92:ASP:N	2.40	0.55
3:DD:136:ILE:HG22	3:DD:165:ILE:HD12	1.89	0.55
3:DD:96:HIS:CE1	3:DD:102:LYS:NZ	2.75	0.55
6:AG:113:ARG:HD3	6:AG:140:ILE:O	2.06	0.55
40:BM:32:ALA:HA	40:BM:75:ILE:HD11	1.89	0.55
1:AA:593:G:C1'	30:A8:4:MET:HE2	2.36	0.55
21:DV:150:LEU:O	21:DV:151:HIS:ND1	2.40	0.55
17:A2:35:LEU:HD23	17:A2:37:VAL:CG2	2.37	0.55
17:A2:97:LYS:O	17:A2:98:GLU:HG2	2.07	0.55
31:BA:429:U:O2'	31:BA:430:A:H5''	2.07	0.55
31:BA:1144:G:N2	31:BA:1146:A:N6	2.54	0.55
54:CA:1452:C:C2'	54:CA:1453:G:OP2	2.54	0.55
43:CP:2:ALA:O	43:CP:10:PRO:HD2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CP:5:ALA:O	43:CP:7:VAL:N	2.39	0.55
16:D1:92:ARG:O	16:D1:92:ARG:HG2	2.06	0.55
38:CK:88:LYS:HB3	38:CK:89:PRO:HD2	1.89	0.55
5:AF:25:PRO:C	5:AF:27:GLU:H	2.09	0.55
1:AA:654(C):G:C3'	1:AA:654(D):G:C8	2.90	0.55
52:CC:19:G:O2'	52:CC:20:U:P	2.65	0.55
37:CJ:111:ARG:NH1	37:CJ:113:GLU:CD	2.60	0.55
37:CJ:115:ARG:HB2	37:CJ:118:VAL:CG1	2.37	0.55
54:CA:1348:U:N3	54:CA:1374:A:C2	2.68	0.55
55:DA:1171:G:C6	55:DA:1174:A:N6	2.74	0.55
1:AA:1055:G:H2'	1:AA:1056:G:H5'	1.89	0.55
1:AA:1097:U:H2'	1:AA:1098:A:O4'	2.07	0.55
11:AO:147:LEU:HD23	11:AO:148:LEU:O	2.05	0.55
55:DA:1162:G:H21	17:D2:89:GLN:HE22	1.54	0.55
31:BA:1052:U:H2'	31:BA:1055:A:OP1	2.07	0.55
33:BF:164:ARG:HG2	33:BF:165:THR:H	1.71	0.55
2:DB:11:C:OP2	2:DB:12:C:N4	2.32	0.55
2:DB:12:C:C4'	2:DB:13:A:OP1	2.52	0.55
33:CF:5:ILE:H	33:CF:5:ILE:HD13	1.72	0.55
55:DA:991:C:H2'	55:DA:992:C:H6	1.72	0.55
31:BA:715:A:H2'	31:BA:716:A:C8	2.42	0.55
1:AA:517:C:OP1	27:A5:16:ARG:NH2	2.40	0.55
55:DA:2496:C:OP1	12:DP:81:VAL:HG12	2.07	0.55
34:BG:49:ARG:HA	34:BG:49:ARG:HE	1.70	0.55
54:CA:542:G:H5'	34:CG:41:GLY:HA3	1.88	0.55
8:AK:76:THR:HG21	8:AK:138:ILE:CG1	2.36	0.55
13:A0:10:LEU:O	13:A0:11:ASN:C	2.45	0.55
5:AF:64:ILE:HG13	5:AF:65:TRP:N	2.22	0.55
1:AA:2815:C:O2'	27:A5:43:HIS:HD2	1.90	0.55
38:CK:51:VAL:HG11	38:CK:60:ARG:HG3	1.88	0.55
10:DN:104:ARG:HG2	10:DN:104:ARG:NH1	2.19	0.55
19:AT:14:SER:H	19:AT:17:ALA:HB3	1.71	0.55
6:AG:34:LEU:HD21	6:AG:159:VAL:HG23	1.89	0.55
31:BA:1439:C:OP1	50:BW:38:LYS:HD2	2.05	0.55
55:DA:2355:C:O4'	22:D3:36:ILE:HD11	2.06	0.55
18:DS:70:TYR:N	18:DS:70:TYR:CD2	2.75	0.55
31:BA:382:A:H2'	31:BA:383:A:C8	2.41	0.55
5:AF:20:LEU:HD13	5:AF:199:TRP:CH2	2.42	0.55
52:CB:37:MIA:H122	52:CB:38:A:C2	2.42	0.55
18:AS:38:TYR:O	27:A5:28:PRO:HB3	2.07	0.55
1:AA:347:A:O2'	1:AA:348:G:H5'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:27:LEU:HD13	4:AE:181:LEU:HD22	1.87	0.55
55:DA:1056:G:N2	55:DA:1087:G:H1	2.03	0.55
56:DJ:12:LEU:H	56:DJ:13:SER:C	2.10	0.55
58:DL:86:LYS:NZ	58:DL:86:LYS:HA	2.22	0.55
57:DY:13:LEU:HD13	57:DY:13:LEU:C	2.28	0.55
57:DY:52:PHE:O	57:DY:53:VAL:HG22	2.07	0.55
21:AV:108:PRO:HG3	21:AV:142:SER:HA	1.89	0.55
52:BB:56:C:H2'	52:BB:57:G:H8	1.71	0.55
44:BQ:9:LYS:HA	44:BQ:12:ARG:HB3	1.89	0.55
26:A4:34:GLU:O	26:A4:35:VAL:C	2.46	0.55
1:AA:1754:C:OP1	15:AR:96:ARG:NH1	2.39	0.55
54:CA:1028(B):C:H3'	54:CA:1029:G:C5'	2.36	0.55
8:DK:132:PRO:O	8:DK:133:HIS:ND1	2.40	0.55
55:DA:1180:C:H2'	55:DA:1181:C:C5'	2.36	0.55
28:D6:25:LYS:HE2	28:D6:27:LYS:HE2	1.89	0.55
28:D6:30:THR:CA	28:D6:31:PRO:O	2.55	0.55
17:A2:5:VAL:HG22	17:A2:6:LYS:N	2.22	0.55
34:BG:14:ARG:O	34:BG:14:ARG:CG	2.54	0.55
1:AA:2791:C:H2'	1:AA:2792:G:O4'	2.07	0.55
4:AE:49:LEU:HD23	4:AE:49:LEU:N	2.22	0.55
22:D3:31:VAL:HB	22:D3:35:ASN:ND2	2.21	0.55
31:BA:1129:C:N4	31:BA:1141:C:N4	2.55	0.55
39:BL:20:ARG:O	39:BL:60:ASP:HB3	2.07	0.55
31:BA:1250:A:OP1	39:BL:66:ARG:HG2	2.06	0.55
32:CE:175:ARG:HG2	32:CE:175:ARG:NH1	2.22	0.55
55:DA:1144:G:H2'	55:DA:1145:C:H6	1.72	0.55
31:BA:151:A:O2'	31:BA:152:A:H5'	2.07	0.55
55:DA:2761:G:H5'	55:DA:2761:G:C8	2.42	0.55
55:DA:884:C:C2'	55:DA:885:C:OP1	2.55	0.55
21:AV:5:LEU:HD13	21:AV:5:LEU:O	2.06	0.55
32:BE:21:ARG:NH2	32:BE:38:GLY:HA3	2.19	0.55
14:DQ:27:SER:HA	14:DQ:88:ASP:CB	2.37	0.55
13:A0:84:ALA:HB3	13:A0:85:PRO:HD3	1.89	0.55
13:A0:87:TYR:HE1	13:A0:117:VAL:HG13	1.72	0.55
1:AA:2147:G:C8	1:AA:2147:G:H3'	2.42	0.55
24:AW:46:GLN:O	24:AW:49:LYS:HE3	2.07	0.55
55:DA:1925:C:N4	55:DA:1926:U:C5	2.75	0.55
37:BJ:109:ASN:HA	37:BJ:119:ARG:HE	1.71	0.55
38:CK:121:ASP:HB2	38:CK:125:ARG:HH22	1.72	0.55
8:DK:71:ILE:O	8:DK:71:ILE:HD13	2.07	0.55
1:AA:627:A:H62	11:AO:116:GLY:HA2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:D2:76:LYS:HB3	17:D2:79:VAL:HG11	1.88	0.55
50:BW:67:ALA:HA	50:BW:73:HIS:H	1.71	0.55
1:AA:1537:C:H6	1:AA:1537:C:O5'	1.89	0.55
35:CH:32:VAL:HG12	35:CH:33:VAL:N	2.21	0.55
18:AS:106:ILE:HG13	18:AS:106:ILE:O	2.05	0.55
32:CE:56:ARG:HH11	32:CE:56:ARG:HG2	1.73	0.55
51:CX:15:ARG:HG2	51:CX:15:ARG:NH1	2.21	0.55
1:AA:2694:G:O2'	1:AA:2695:C:H5'	2.07	0.55
55:DA:570:G:H2'	55:DA:2030:A:N7	2.22	0.55
1:AA:1403:C:H5''	1:AA:1471:A:C1'	2.37	0.55
1:AA:1458:C:H5''	1:AA:1459:G:C5'	2.36	0.55
37:CJ:76:ARG:HD3	37:CJ:156:TRP:HZ2	1.72	0.55
42:BO:117:ARG:NH2	42:BO:124:LYS:HA	2.21	0.55
46:CS:40:ASP:C	46:CS:42:ARG:H	2.10	0.55
4:DE:179:GLU:O	4:DE:180:ASN:HB2	2.06	0.55
17:D2:66:ARG:HB3	17:D2:66:ARG:HH11	1.72	0.55
55:DA:2038:G:H2'	55:DA:2039:C:H6	1.72	0.55
54:CA:849:C:O2'	54:CA:850:U:H5'	2.06	0.55
54:CA:1019:C:C2'	54:CA:1020:U:H5'	2.36	0.55
34:BG:201:GLN:O	34:BG:205:GLU:HG3	2.07	0.55
55:DA:2649:U:H2'	55:DA:2650:U:C6	2.42	0.55
54:CA:174:C:H2'	54:CA:175:C:H6	1.71	0.55
8:AK:61:ARG:HA	8:AK:64:GLU:HG2	1.88	0.55
54:CA:309:G:H1'	54:CA:608:A:C2	2.41	0.55
54:CA:746:A:H2'	54:CA:747:C:O4'	2.07	0.55
31:BA:1291:G:H4'	39:BL:39:GLY:HA3	1.87	0.55
9:AM:7:LYS:HZ3	9:AM:7:LYS:N	2.05	0.55
25:AX:29:ARG:HG3	25:AX:29:ARG:HH11	1.72	0.55
13:D0:57:ARG:HD3	13:D0:59:ASP:CG	2.28	0.55
1:AA:1259:G:O2'	1:AA:1260:G:H5'	2.06	0.55
12:DP:138:ASP:O	12:DP:139:GLU:O	2.25	0.55
58:DL:108:ALA:HA	58:DL:111:LYS:CD	2.37	0.54
57:DY:5:ARG:O	57:DY:7:VAL:CB	2.55	0.54
57:DY:51:LEU:HD11	57:DY:82:PHE:CA	2.37	0.54
31:BA:978:A:H1'	31:BA:1322:C:O2	2.07	0.54
1:AA:2285:C:H41	28:A6:27:LYS:HE3	1.72	0.54
21:DV:116:VAL:HG13	21:DV:117:LEU:N	2.22	0.54
43:BP:15:VAL:C	43:BP:17:VAL:H	2.09	0.54
23:DZ:92:LYS:O	23:DZ:95:LEU:N	2.39	0.54
54:CA:792:A:C2'	54:CA:794:A:N7	2.71	0.54
1:AA:1887:C:C3'	1:AA:1888:G:H5''	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CV:64:GLU:HG3	49:CV:65:ASN:H	1.69	0.54
28:D6:43:CYS:SG	28:D6:44:ARG:NH1	2.80	0.54
1:AA:1154:G:OP1	16:A1:58:ARG:HD2	2.06	0.54
34:BG:14:ARG:HG3	34:BG:14:ARG:NH1	2.21	0.54
55:DA:557:U:H2'	55:DA:558:G:C8	2.41	0.54
39:BL:15:ALA:HA	39:BL:65:VAL:HA	1.89	0.54
1:AA:265:A:N6	1:AA:428:A:C8	2.75	0.54
11:DO:120:ALA:HB1	11:DO:138:LEU:CA	2.37	0.54
21:AV:63:ASP:C	21:AV:65:GLN:H	2.10	0.54
21:AV:8:TYR:N	21:AV:8:TYR:CD2	2.73	0.54
20:AU:48:ALA:O	20:AU:50:ARG:N	2.40	0.54
31:BA:828:A:H2'	31:BA:829:G:O4'	2.07	0.54
55:DA:1803:A:C8	55:DA:1804:C:C5	2.95	0.54
3:AD:32:SER:O	3:AD:33:LEU:HB2	2.06	0.54
8:DK:10:GLU:O	8:DK:11:ASN:HB3	2.06	0.54
55:DA:1174:A:N7	55:DA:1175:U:C1'	2.68	0.54
1:AA:1085:A:H2'	1:AA:1086:A:H8	1.72	0.54
23:AZ:83:GLU:OE2	23:AZ:85:LEU:HD23	2.07	0.54
39:BL:26:VAL:CG2	39:BL:61:ALA:HB3	2.29	0.54
1:AA:1280:G:C3'	1:AA:1281:G:H5''	2.38	0.54
33:BF:155:GLY:O	33:BF:196:LEU:HD13	2.07	0.54
41:CN:21:ILE:N	41:CN:21:ILE:HD12	2.22	0.54
43:CP:92:HIS:HA	43:CP:110:ARG:NH2	2.22	0.54
36:BI:12:PRO:O	36:BI:14:LEU:N	2.38	0.54
55:DA:2752:C:OP2	55:DA:2752:C:C6	2.55	0.54
52:CC:36:A:H5'	52:CC:36:A:C8	2.36	0.54
1:AA:467:G:O2'	1:AA:468:G:H5'	2.07	0.54
35:BH:20:GLN:HE22	35:BH:21:ALA:HB3	1.72	0.54
7:AH:151:ILE:HG22	7:AH:151:ILE:O	2.08	0.54
50:BW:67:ALA:HA	50:BW:73:HIS:HA	1.89	0.54
55:DA:2657:A:C1'	55:DA:2665:A:N6	2.69	0.54
19:DT:83:VAL:HG13	19:DT:87:GLN:HE21	1.71	0.54
32:CE:141:GLU:HA	32:CE:144:ARG:HD3	1.89	0.54
15:DR:41:ARG:C	15:DR:42:ILE:HG13	2.26	0.54
1:AA:1220:A:H5'	1:AA:1221:C:OP2	2.07	0.54
39:CL:17:VAL:HG21	39:CL:81:ILE:N	2.22	0.54
1:AA:403:U:HO2'	1:AA:404:C:P	2.30	0.54
1:AA:403:U:O2'	1:AA:404:C:P	2.66	0.54
47:BT:59:ILE:HG23	47:BT:71:PHE:HB3	1.88	0.54
54:CA:222:U:H2'	54:CA:223:U:C6	2.42	0.54
51:BX:15:ARG:HH11	51:BX:15:ARG:CB	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:814:C:O2'	55:DA:815:C:H5'	2.06	0.54
24:DW:28:LYS:NZ	24:DW:56:GLN:HE22	2.04	0.54
49:BV:53:ASN:CB	49:BV:77:THR:HG22	2.37	0.54
1:AA:1694:C:O2'	1:AA:1695:G:P	2.66	0.54
54:CA:748:C:H1'	54:CA:749:C:H5	1.72	0.54
31:BA:1041:A:H3'	31:BA:1042:G:H5''	1.89	0.54
1:AA:1300:U:O2'	1:AA:1301:A:OP2	2.21	0.54
33:CF:33:LEU:HD11	44:CQ:53:LEU:HD23	1.89	0.54
1:AA:2765:A:H2	1:AA:2766:G:O4'	1.90	0.54
1:AA:2642:G:H5''	9:AM:78:TYR:CD2	2.42	0.54
32:CE:92:TYR:CZ	32:CE:151:GLY:HA3	2.41	0.54
32:BE:103:THR:HA	32:BE:180:LEU:HD11	1.89	0.54
15:AR:48:ILE:HD12	15:AR:48:ILE:N	2.22	0.54
55:DA:2884:U:C2'	55:DA:2885:C:H5'	2.37	0.54
54:CA:970:C:N4	39:CL:128:ARG:OXT	2.39	0.54
1:AA:1998:G:H2'	1:AA:1999:C:O4'	2.07	0.54
56:DJ:14:GLN:N	56:DJ:17:VAL:CG2	2.69	0.54
58:DL:115:LEU:C	58:DL:115:LEU:HD12	2.27	0.54
58:DL:19:PRO:CB	58:DL:25:PRO:HG2	2.36	0.54
57:DY:138:LEU:CD1	57:DY:139:VAL:N	2.70	0.54
57:DY:70:GLU:O	57:DY:71:LEU:HG	2.07	0.54
57:DY:50:ARG:N	57:DY:83:TYR:HB3	2.22	0.54
57:DY:7:VAL:CG2	57:DY:8:GLU:N	2.42	0.54
31:BA:948:C:H2'	31:BA:949:A:H8	1.71	0.54
2:AB:95:U:O4	2:AB:96:G:O6	2.25	0.54
3:DD:35:LYS:CE	3:DD:64:ILE:C	2.73	0.54
3:DD:35:LYS:NZ	3:DD:64:ILE:O	2.39	0.54
30:A8:50:LEU:O	30:A8:51:ALA:HB2	2.06	0.54
17:A2:48:GLY:O	17:A2:49:THR:O	2.24	0.54
9:AM:36:GLY:C	9:AM:42:TRP:HB2	2.27	0.54
50:CW:22:ARG:O	50:CW:26:ASN:ND2	2.40	0.54
7:DH:154:PRO:HG3	7:DH:163:TYR:CD1	2.42	0.54
32:CE:219:VAL:O	32:CE:222:ILE:HB	2.06	0.54
52:CD:43:C:H5'	52:CD:44:G:OP2	2.06	0.54
55:DA:2168:G:OP1	55:DA:2168:G:C8	2.61	0.54
17:D2:49:THR:CB	17:D2:50:PRO:CD	2.86	0.54
31:BA:792:A:C4	31:BA:794:A:N6	2.75	0.54
55:DA:1313:U:H5''	55:DA:1314:C:OP2	2.07	0.54
47:CT:65:ILE:HD12	47:CT:65:ILE:N	2.22	0.54
1:AA:99:U:H1'	1:AA:102:G:C2	2.43	0.54
31:BA:859:A:H2'	31:BA:860:A:O4'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:26:ALA:O	5:AF:27:GLU:HG2	2.07	0.54
52:CC:20:U:H3'	52:CC:21:A:H5''	1.89	0.54
52:CC:19:G:C4	52:CC:57:G:N2	2.75	0.54
6:DG:77:ILE:CG2	6:DG:80:PHE:H	2.20	0.54
1:AA:28:A:N6	1:AA:512:G:H1'	2.22	0.54
25:AX:6:VAL:CG1	25:AX:54:VAL:HG11	2.35	0.54
53:B1:35:A:O2'	53:B1:36:G:H5'	2.08	0.54
38:BK:109:ILE:HG12	38:BK:110:ALA:N	2.22	0.54
54:CA:703:G:O2'	54:CA:704:A:OP2	2.24	0.54
39:BL:95:LYS:NZ	39:BL:96:LEU:HD13	2.22	0.54
8:DK:61:ARG:HA	8:DK:61:ARG:CZ	2.37	0.54
11:AO:127:ALA:O	11:AO:147:LEU:HA	2.06	0.54
11:AO:98:GLU:HG3	11:AO:99:LEU:N	2.21	0.54
31:BA:4:U:O4	38:BK:105:ARG:HD3	2.07	0.54
21:DV:72:ARG:HH11	21:DV:72:ARG:HG3	1.71	0.54
31:BA:518:C:H5'	31:BA:519:C:C6	2.42	0.54
18:AS:68:ARG:HH22	18:AS:112:GLY:CA	2.21	0.54
54:CA:1443:G:H2'	15:DR:122:ASP:OD2	2.07	0.54
31:BA:674:G:H2'	31:BA:675:A:H8	1.72	0.54
41:BN:121:PRO:HB2	41:BN:126:ARG:HG3	1.89	0.54
17:A2:4:ILE:HD12	17:A2:4:ILE:N	2.22	0.54
1:AA:2712:U:O2'	1:AA:2712(A):A:H8	1.90	0.54
55:DA:2430:A:H8	55:DA:2431:U:H5	1.55	0.54
32:BE:88:ALA:CA	32:BE:226:ARG:HH12	2.18	0.54
29:A7:8:ASN:ND2	29:A7:8:ASN:C	2.59	0.54
29:A7:8:ASN:HD22	29:A7:9:ARG:N	2.05	0.54
33:CF:94:LEU:HD12	33:CF:95:THR:N	2.21	0.54
33:CF:23:TYR:CD2	33:CF:24:ALA:N	2.76	0.54
55:DA:2259:G:H1'	55:DA:2427:C:C2	2.42	0.54
55:DA:4:C:C2'	55:DA:5:A:OP2	2.54	0.54
55:DA:7:G:O2'	55:DA:8:A:H5'	2.07	0.54
10:DN:2:ILE:CD1	10:DN:82:ASN:HD22	2.18	0.54
24:AW:17:SER:HB2	24:AW:18:PRO:HA	1.86	0.54
39:CL:25:LYS:HG3	39:CL:60:ASP:OD1	2.06	0.54
2:AB:12:C:C4'	2:AB:13:A:OP1	2.55	0.54
47:CT:44:ALA:HA	47:CT:71:PHE:O	2.07	0.54
55:DA:546:C:H3'	55:DA:547:A:H8	1.72	0.54
9:DM:28:THR:HG22	9:DM:29:LYS:N	2.22	0.54
50:BW:56:MET:HG3	50:BW:84:LEU:HD12	1.88	0.54
55:DA:55:G:N3	55:DA:127:A:C2	2.75	0.54
24:DW:28:LYS:HD2	24:DW:53:LEU:CD2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1190:G:OP1	33:BF:5:ILE:N	2.37	0.54
46:CS:40:ASP:O	46:CS:42:ARG:N	2.40	0.54
38:CK:64:LYS:C	38:CK:65:TYR:CD1	2.80	0.54
52:CB:36:A:H62	52:CB:37:MIA:H163	1.72	0.54
55:DA:452:G:N3	55:DA:457:A:H2	2.04	0.54
37:BJ:76:ARG:HD3	37:BJ:89:MET:HG3	1.89	0.54
38:BK:1:MET:H3	38:BK:1:MET:HE2	1.72	0.54
55:DA:2842:G:O2'	55:DA:2843:G:H5'	2.07	0.54
55:DA:810:U:O5'	55:DA:810:U:H6	1.89	0.54
40:CM:56:HIS:O	40:CM:58:ASP:N	2.41	0.54
58:DL:52:ILE:HD11	58:DL:76:TYR:CA	2.37	0.54
57:DY:26:LEU:HB3	57:DY:112:LEU:HD13	1.89	0.54
21:AV:115:GLY:CA	21:AV:175:VAL:O	2.54	0.54
52:BB:19:G:N2	52:BB:56:C:N3	2.55	0.54
11:AO:57:THR:O	11:AO:59:LEU:N	2.40	0.54
49:CV:5:LEU:H	49:CV:5:LEU:HD12	1.71	0.54
1:AA:944:G:N3	1:AA:944:G:C2'	2.69	0.54
3:DD:168:ARG:HG3	3:DD:168:ARG:HH11	1.72	0.54
54:CA:1200:C:O2'	54:CA:1201:A:OP2	2.25	0.54
55:DA:2875:C:C4'	15:DR:5:ALA:HB2	2.37	0.54
46:CS:81:ARG:HH11	46:CS:81:ARG:HB3	1.70	0.54
55:DA:1181:C:O2'	55:DA:1182:A:H5'	2.06	0.54
28:D6:25:LYS:HD2	30:D8:34:TRP:CZ2	2.43	0.54
28:D6:40:CYS:SG	28:D6:45:LYS:CD	2.96	0.54
1:AA:1345:C:OP2	1:AA:1346:G:OP2	2.25	0.54
55:DA:654(N):G:H8	55:DA:654(N):G:OP1	1.91	0.54
17:A2:66:ARG:HE	17:A2:88:ARG:HD2	1.72	0.54
1:AA:2789:C:O2'	1:AA:2790:A:H4'	2.06	0.54
55:DA:558:G:P	9:DM:111:PRO:HD2	2.47	0.54
54:CA:1504:G:O2'	54:CA:1505:G:P	2.65	0.54
52:CD:58:A:N6	52:CD:61:C:C6	2.75	0.54
43:CP:7:VAL:HB	6:DG:115:ARG:NH2	2.23	0.54
20:AU:63:LYS:HA	20:AU:63:LYS:HZ2	1.71	0.54
1:AA:2655:G:N2	1:AA:2665:A:OP2	2.41	0.54
8:DK:88:ILE:HB	8:DK:90:GLY:O	2.08	0.54
29:A7:45:ALA:O	29:A7:46:VAL:HG23	2.07	0.54
53:B1:30:C:O2'	53:B1:31:A:H5'	2.08	0.54
24:AW:46:GLN:HB2	24:AW:49:LYS:CE	2.36	0.54
54:CA:689:C:P	41:CN:46:GLY:HA3	2.48	0.54
26:A4:52:THR:CG2	43:BP:65:LYS:HD3	2.32	0.54
38:BK:104:ARG:O	38:BK:105:ARG:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:DP:47:ILE:HD12	12:DP:70:PRO:HD3	1.90	0.54
55:DA:2832:U:C4'	55:DA:2833:G:H5''	2.32	0.54
36:BI:19:LEU:HD23	36:BI:19:LEU:O	2.08	0.54
55:DA:2749:A:N1	55:DA:2750:A:N6	2.54	0.54
1:AA:323:G:O2'	1:AA:1205:U:N3	2.38	0.54
3:DD:182:LEU:N	3:DD:272:ALA:HB3	2.21	0.54
36:CI:24:GLU:HA	36:CI:27:GLN:HG2	1.89	0.54
11:DO:34:GLY:O	11:DO:36:LYS:N	2.40	0.54
55:DA:1155:A:H4'	16:D1:55:ARG:NH1	2.22	0.54
1:AA:1786:A:O2'	1:AA:1938:A:N6	2.34	0.54
31:BA:967:C:H2'	31:BA:968:A:N7	2.22	0.54
54:CA:50:A:H4'	54:CA:51:A:H5'	1.88	0.54
1:AA:1171:G:HO2'	1:AA:1173:G:C1'	2.20	0.54
55:DA:2219:G:C2'	55:DA:2224:G:H5'	2.37	0.54
20:AU:28:LYS:HA	20:AU:28:LYS:HE2	1.88	0.54
4:DE:111:ARG:HA	13:D0:1:MET:SD	2.48	0.54
14:AQ:26:LEU:HD22	14:AQ:87:PHE:HD1	1.70	0.54
11:DO:14:LYS:O	11:DO:16:ARG:N	2.40	0.54
55:DA:780:G:N2	55:DA:783:A:H62	2.06	0.54
54:CA:722:A:H3'	54:CA:722:A:N3	2.22	0.54
55:DA:163:U:C2'	55:DA:164:U:H5'	2.37	0.54
42:BO:5:PRO:HG2	42:BO:10:LEU:HD21	1.89	0.54
5:DF:132:VAL:HG23	5:DF:133:ASN:ND2	2.22	0.54
31:BA:1084:G:OP1	31:BA:1086:U:C2	2.61	0.54
6:AG:106:LEU:HD12	6:AG:110:ALA:HB3	1.88	0.54
55:DA:699:A:H4'	55:DA:1634:A:N7	2.22	0.54
54:CA:341:C:H2'	54:CA:342:C:C6	2.43	0.54
8:AK:54:GLN:HG3	8:AK:55:ALA:N	2.23	0.54
37:CJ:32:ARG:O	37:CJ:33:ASP:HB2	2.07	0.54
4:DE:128:SER:OG	4:DE:129:HIS:N	2.38	0.54
54:CA:476:G:O2'	54:CA:477:G:H5'	2.07	0.54
35:CH:83:GLU:HG2	35:CH:88:LYS:HB2	1.88	0.54
11:DO:70:GLN:CD	11:DO:70:GLN:N	2.61	0.54
58:DL:65:PHE:O	58:DL:65:PHE:CD2	2.60	0.54
31:BA:1319:A:H2'	31:BA:1323:G:C8	2.43	0.54
28:A6:34:LEU:CD2	28:A6:34:LEU:H	2.20	0.54
1:AA:2415:G:H4'	11:AO:67:MET:N	2.21	0.54
42:CO:53:ARG:HH12	42:CO:92:ASP:CB	2.21	0.54
3:DD:123:ALA:HB3	3:DD:131:LEU:HG	1.89	0.54
3:DD:27:THR:CG2	3:DD:83:GLU:HB3	2.33	0.54
54:CA:949:A:O4'	54:CA:1364:U:O4	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DE:70:ALA:O	4:DE:71:GLY:C	2.45	0.54
28:D6:15:GLU:CD	28:D6:44:ARG:NH2	2.61	0.54
32:CE:97:TRP:HZ3	32:CE:172:ILE:HG22	1.72	0.54
11:DO:138:LEU:C	11:DO:140:ALA:N	2.60	0.54
16:D1:96:ALA:C	16:D1:98:LEU:N	2.57	0.54
12:DP:87:LYS:C	12:DP:89:ASN:N	2.57	0.54
9:AM:98:VAL:HG23	9:AM:99:LEU:N	2.23	0.54
1:AA:2531:A:H3'	1:AA:2532:G:C8	2.43	0.54
31:BA:1151:A:H1'	40:BM:39:PRO:CB	2.37	0.54
55:DA:1291:C:O4'	55:DA:1536:A:OP2	2.25	0.54
55:DA:1535:U:H3'	55:DA:1536:A:H5''	1.90	0.54
55:DA:1537:C:H2'	55:DA:1538:G:O4'	2.07	0.54
5:AF:4:VAL:HG11	5:AF:17:ARG:HH21	1.73	0.54
55:DA:654(D):G:H2'	55:DA:654(D):G:N3	2.22	0.54
50:CW:57:ARG:HD3	50:CW:102:GLY:O	2.07	0.54
20:AU:35:TYR:CD1	20:AU:69:ALA:HB3	2.43	0.54
54:CA:579:G:H5'	54:CA:728:A:C1'	2.29	0.54
54:CA:1376:U:H2'	54:CA:1377:A:C8	2.42	0.54
31:BA:1160:G:H2'	31:BA:1160:G:N3	2.21	0.54
11:AO:88:LEU:HD11	11:AO:95:VAL:CG2	2.36	0.54
43:CP:90:LEU:C	43:CP:90:LEU:HD12	2.26	0.54
26:D4:49:PHE:O	26:D4:50:VAL:CB	2.55	0.54
36:BI:8:ILE:HG22	36:BI:10:LEU:CD1	2.38	0.54
33:BF:119:ARG:HA	33:BF:122:GLU:OE2	2.07	0.54
21:AV:102:LEU:HD21	21:AV:124:ILE:CG2	2.37	0.54
54:CA:437:U:H2'	54:CA:438:G:O4'	2.07	0.54
34:CG:116:GLN:NE2	34:CG:157:LEU:HD21	2.22	0.54
12:AP:99:PRO:HG3	21:AV:79:ARG:HH12	1.70	0.54
8:DK:116:LEU:O	8:DK:116:LEU:HG	2.08	0.54
54:CA:430:A:C2'	54:CA:431:A:H5'	2.37	0.54
34:CG:9:CYS:C	34:CG:11:LEU:H	2.09	0.54
32:BE:91:PRO:HA	32:BE:154:LEU:HD12	1.88	0.54
8:AK:75:LEU:HD22	8:AK:77:LEU:CD2	2.35	0.54
14:AQ:18:ILE:CD1	14:AQ:88:ASP:HA	2.38	0.54
43:BP:27:LYS:CE	43:BP:31:LYS:HE3	2.34	0.54
1:AA:1856:G:C2'	1:AA:1857:G:H5'	2.37	0.54
54:CA:991:U:O4	54:CA:1212:U:O2'	2.26	0.54
2:AB:55:U:O2'	2:AB:56:G:H5'	2.07	0.54
15:AR:29:ARG:HH11	15:AR:29:ARG:CG	2.16	0.54
55:DA:2051:A:H8	55:DA:2051:A:OP2	1.90	0.54
55:DA:2849:U:C2'	55:DA:2866:U:O2	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BH:111:GLU:C	35:BH:113:ALA:H	2.10	0.54
14:AQ:106:ARG:HH11	14:AQ:106:ARG:CB	2.20	0.54
5:AF:9:ILE:CG1	5:AF:15:SER:HA	2.37	0.54
54:CA:779:C:H2'	54:CA:780:A:O4'	2.08	0.54
55:DA:662:G:H5''	11:DO:15:ARG:O	2.07	0.54
1:AA:2623:G:H4'	1:AA:2825:C:O2	2.08	0.54
1:AA:2389:G:H5''	1:AA:2390:U:H5'	1.90	0.54
54:CA:1032(A):G:H2'	54:CA:1032(B):G:H8	1.71	0.54
32:BE:236:TYR:HA	32:BE:239:VAL:HG23	1.89	0.54
46:CS:68:ASP:O	46:CS:70:ALA:N	2.40	0.54
8:AK:56:LYS:C	8:AK:56:LYS:HD2	2.27	0.54
54:CA:1074:G:C4'	32:CE:104:ASN:HB2	2.38	0.54
55:DA:372:G:O2'	55:DA:373:U:OP2	2.25	0.54
1:AA:67:U:H2'	1:AA:68:G:H8	1.72	0.54
21:AV:12:GLY:C	21:AV:13:GLU:HG3	2.27	0.54
15:AR:45:PHE:CD1	15:AR:65:LYS:HE2	2.42	0.54
55:DA:1444:G:H2'	55:DA:1445:C:C5	2.43	0.54
54:CA:986:A:H2'	54:CA:987:G:O4'	2.07	0.54
3:DD:91:ARG:O	3:DD:107:ALA:HB3	2.07	0.54
55:DA:2016:U:H1'	27:D5:6:VAL:HG13	1.90	0.54
55:DA:1547:C:H2'	55:DA:1548:C:H6	1.72	0.54
55:DA:2691:C:H6	55:DA:2691:C:H5'	1.73	0.54
13:A0:28:LEU:HD13	13:A0:28:LEU:O	2.07	0.54
31:BA:1137:C:H4'	31:BA:1138:G:C2	2.43	0.54
55:DA:200:U:H2'	55:DA:201:C:H5'	1.88	0.54
4:AE:27:LEU:HD12	4:AE:180:ASN:O	2.07	0.54
55:DA:1081:U:O2'	58:DL:126:MET:SD	2.65	0.54
58:DL:25:PRO:C	58:DL:27:LEU:H	2.11	0.54
57:DY:69:PRO:O	57:DY:113:GLN:HB2	2.07	0.54
21:AV:106:GLY:O	21:AV:108:PRO:HD2	2.04	0.54
21:AV:147:GLY:O	21:AV:148:ASP:C	2.44	0.54
21:AV:184:ALA:C	21:AV:186:GLU:N	2.60	0.54
31:BA:1221:G:OP1	31:BA:1321:C:N4	2.41	0.54
31:BA:1362(A):C:H5'	31:BA:1363:A:O5'	2.08	0.54
1:AA:2393:A:C5'	30:A8:30:ARG:HD3	2.37	0.54
1:AA:863:A:H2'	1:AA:864:G:C8	2.41	0.54
1:AA:863:A:O2'	1:AA:864:G:H5'	2.07	0.54
52:CB:58:A:O2'	52:CB:59:U:O5'	2.20	0.54
26:A4:25:TYR:O	26:A4:26:SER:C	2.45	0.54
26:A4:1:MET:O	26:A4:2:LYS:HD3	2.07	0.54
30:A8:50:LEU:CD1	30:A8:54:GLU:HA	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1363:A:C4'	54:CA:1364:U:OP1	2.55	0.54
21:DV:162:GLU:HG2	21:DV:163:LEU:N	2.20	0.54
19:AT:36:LYS:HG2	19:AT:56:THR:HG23	1.88	0.54
55:DA:49:A:C8	55:DA:120:U:H5	2.21	0.54
32:CE:167:PRO:HG3	32:CE:188:ALA:HB2	1.88	0.54
11:DO:125:VAL:O	11:DO:145:PRO:HD2	2.07	0.54
55:DA:1142(A):A:HO2'	55:DA:1143:A:P	2.31	0.54
31:BA:986:A:H2'	31:BA:987:G:H8	1.69	0.54
43:CP:25:ILE:HD11	43:CP:66:LEU:CD2	2.38	0.54
11:DO:31:ALA:O	11:DO:32:THR:CG2	2.55	0.54
9:AM:60:ILE:HD13	9:AM:99:LEU:HD23	1.89	0.54
5:AF:192:LEU:HD23	5:AF:192:LEU:C	2.28	0.54
55:DA:1803:A:H4'	3:DD:259:THR:HG23	1.89	0.54
55:DA:84:A:C4'	55:DA:85:G:O5'	2.50	0.54
15:DR:50:ILE:HD11	15:DR:102:ILE:CD1	2.31	0.54
1:AA:1827:C:C3'	1:AA:1828:G:H5'	2.38	0.54
35:CH:72:GLN:HE21	35:CH:144:THR:HG22	1.71	0.54
8:DK:52:ARG:HG3	8:DK:53:ALA:N	2.22	0.54
11:AO:114:ILE:O	11:AO:114:ILE:HG13	2.07	0.54
54:CA:91:C:H2'	54:CA:92:G:H5''	1.89	0.54
12:AP:133:ARG:HD3	12:AP:133:ARG:C	2.27	0.54
50:BW:57:ARG:HD3	50:BW:102:GLY:O	2.06	0.54
55:DA:2864:G:OP1	15:DR:119:LYS:HD2	2.07	0.54
55:DA:811:U:HO2'	55:DA:1250:G:H2'	1.73	0.54
55:DA:1049:C:C6	55:DA:1049:C:H5'	2.43	0.54
33:BF:59:ARG:NE	33:BF:64:VAL:HG22	2.21	0.54
3:DD:11:PRO:O	3:DD:12:SER:OG	2.18	0.54
55:DA:2591:C:P	3:DD:239:ARG:HG3	2.48	0.54
32:BE:22:LYS:NZ	32:BE:40:HIS:CE1	2.75	0.54
31:BA:1238:A:N7	31:BA:1301:U:O4	2.41	0.54
3:AD:69:ARG:NH1	3:AD:128:GLY:O	2.40	0.54
31:BA:201:C:C4	31:BA:209:U:H6	2.25	0.54
46:CS:28:ARG:HG2	46:CS:28:ARG:NH1	2.20	0.54
1:AA:9:U:H3	1:AA:2629:A:H61	1.53	0.54
33:BF:76:VAL:CG2	33:BF:77:ILE:N	2.70	0.54
55:DA:2341:G:H2'	55:DA:2342:C:H6	1.71	0.54
7:DH:30:LYS:HE3	7:DH:81:GLU:CA	2.37	0.54
54:CA:776:G:N2	54:CA:802:A:OP2	2.39	0.54
15:AR:106:SER:O	15:AR:107:ASP:CB	2.55	0.54
15:AR:106:SER:O	15:AR:107:ASP:HB3	2.08	0.54
3:DD:110:GLY:O	3:DD:111:LEU:C	2.45	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:613:U:O2	55:DA:613:U:O4'	2.21	0.54
8:AK:56:LYS:HG3	8:AK:57:ARG:N	2.23	0.54
38:CK:82:HIS:HD2	38:CK:83:ILE:N	2.06	0.54
31:BA:1104:G:H4'	32:BE:111:ARG:CZ	2.38	0.54
23:DZ:80:LEU:C	23:DZ:81:LYS:HE2	2.27	0.54
1:AA:1278:A:O2'	13:A0:34:ILE:HD11	2.07	0.54
15:AR:74:ARG:HG2	15:AR:74:ARG:NH1	2.22	0.54
55:DA:2238:G:H5'	55:DA:2239:G:N7	2.23	0.54
54:CA:1424:C:H2'	54:CA:1425:U:C6	2.43	0.54
41:CN:85:ARG:HG2	41:CN:111:ASP:O	2.07	0.54
32:BE:134:GLU:O	32:BE:138:LEU:HG	2.07	0.54
1:AA:1381:G:H2'	1:AA:1382:G:H5'	1.90	0.54
7:AH:80:SER:O	7:AH:81:GLU:HB2	2.08	0.54
1:AA:1231:G:O2'	1:AA:1232:G:H5'	2.07	0.54
1:AA:709:U:H2'	1:AA:710:G:C8	2.43	0.54
55:DA:950:G:H2'	55:DA:951:C:C6	2.42	0.54
54:CA:1410:G:H2'	54:CA:1411:C:C6	2.43	0.54
58:DL:46:ALA:O	58:DL:47:ASN:C	2.45	0.54
1:AA:893:C:N3	1:AA:894:C:N4	2.56	0.54
21:AV:115:GLY:O	21:AV:174:VAL:HG13	2.08	0.54
31:BA:1216:G:H5''	44:BQ:5:ALA:CB	2.37	0.54
31:BA:946:A:O2'	31:BA:1333:A:H1'	2.07	0.54
31:BA:1363:A:H1'	31:BA:1365:G:C8	2.41	0.54
11:AO:62:LEU:C	11:AO:62:LEU:HD22	2.27	0.54
1:AA:2275:C:O2'	1:AA:2276:G:OP2	2.24	0.54
1:AA:858:U:C2	1:AA:2268:A:C2	2.95	0.54
55:DA:897:C:H6	55:DA:897:C:C5'	2.20	0.54
21:DV:177:PRO:CG	21:DV:177:PRO:O	2.55	0.54
20:DU:49:VAL:HG12	20:DU:50:ARG:N	2.22	0.54
20:DU:57:GLN:HE21	20:DU:58:GLY:N	2.06	0.54
54:CA:972:C:OP2	40:CM:57:LYS:HE2	2.08	0.54
20:DU:75:ILE:CG1	20:DU:80:GLY:H	2.21	0.54
50:CW:33:ILE:HD12	50:CW:63:ILE:HG12	1.89	0.54
55:DA:637:A:O5'	11:DO:116:GLY:HA2	2.07	0.54
16:D1:92:ARG:O	16:D1:92:ARG:CG	2.55	0.54
55:DA:1329:U:H5''	55:DA:1330:C:H5	1.73	0.54
12:DP:80:GLU:HA	22:D3:4:LYS:HE3	1.88	0.54
20:AU:27:VAL:HG12	20:AU:39:VAL:HG12	1.89	0.54
55:DA:2131:G:OP1	55:DA:2132:U:H3'	2.08	0.54
5:AF:29:ASN:N	5:AF:112:MET:CE	2.71	0.54
1:AA:1568:G:P	3:AD:63:ARG:HH12	2.30	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:24:ILE:O	3:AD:24:ILE:HG23	2.07	0.54
14:DQ:18:ILE:O	14:DQ:19:LYS:O	2.24	0.54
1:AA:142:G:H4'	19:AT:35:THR:HG21	1.87	0.54
55:DA:2481:G:HO2'	55:DA:2482:G:P	2.30	0.54
55:DA:803:U:H2'	55:DA:804:A:C5'	2.38	0.54
53:B1:28:G:H2'	53:B1:29:G:C8	2.42	0.54
38:CK:104:ARG:C	38:CK:106:GLY:H	2.11	0.54
54:CA:1067:A:H4'	54:CA:1068:G:O5'	2.06	0.54
55:DA:2675:A:H5'	55:DA:2676:C:OP2	2.08	0.54
42:BO:28:LYS:O	42:BO:30:ALA:N	2.40	0.54
34:CG:25:ARG:O	34:CG:27:TYR:N	2.29	0.54
40:CM:51:ARG:NE	40:CM:60:ARG:O	2.40	0.54
33:BF:15:THR:HG22	33:BF:16:ARG:N	2.23	0.54
31:BA:132:C:O3'	50:BW:74:LYS:HE2	2.06	0.54
10:AN:91:LEU:HD22	10:AN:91:LEU:N	2.23	0.54
19:DT:31:HIS:NE2	19:DT:33:LYS:HB2	2.22	0.54
4:AE:154:LYS:HA	4:AE:154:LYS:CE	2.34	0.54
55:DA:805:G:C4'	55:DA:806:C:OP2	2.55	0.54
1:AA:1885:A:C5'	1:AA:1886:C:OP2	2.55	0.54
33:CF:23:TYR:HA	40:CM:11:PHE:CE1	2.42	0.54
54:CA:645:C:H2'	54:CA:646:U:C6	2.43	0.54
54:CA:1499:A:C1'	54:CA:1520:G:H5'	2.34	0.54
2:AB:31:C:H4'	6:AG:29:TRP:HH2	1.73	0.54
35:BH:70:PRO:O	35:BH:71:LEU:HD23	2.08	0.54
39:CL:17:VAL:HG13	39:CL:81:ILE:HD13	1.90	0.54
54:CA:869:G:C4'	54:CA:872:A:H1'	2.37	0.54
22:D3:23:VAL:HG12	22:D3:25:ARG:H	1.71	0.54
8:AK:56:LYS:HE2	8:AK:57:ARG:HG2	1.89	0.54
10:AN:71:ARG:NE	10:AN:105:GLU:OE2	2.41	0.54
54:CA:655:A:C2	54:CA:754:C:N4	2.76	0.54
13:A0:41:ALA:O	13:A0:43:GLU:N	2.40	0.54
31:BA:464:G:N1	31:BA:467:G:OP2	2.36	0.54
36:CI:75:LEU:C	36:CI:75:LEU:HD23	2.28	0.54
55:DA:2290:G:H8	55:DA:2290:G:H5'	1.71	0.54
31:BA:345:C:H1'	31:BA:346:G:C2	2.41	0.54
11:AO:117:GLU:N	11:AO:117:GLU:OE1	2.38	0.54
54:CA:837:G:O2'	54:CA:838:G:H5'	2.08	0.54
18:AS:71:VAL:HA	18:AS:107:LEU:HD12	1.90	0.54
12:DP:23:GLY:O	12:DP:24:GLY:C	2.46	0.54
12:AP:137:TYR:O	12:AP:138:ASP:O	2.25	0.54
55:DA:439:G:O2'	55:DA:440:G:H5'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CF:124:ILE:C	33:CF:126:ARG:H	2.09	0.54
48:BU:36:ASN:HD22	48:BU:39:VAL:HG21	1.72	0.54
40:CM:29:ARG:HG2	40:CM:29:ARG:O	2.07	0.54
1:AA:270:A:O2'	1:AA:270(A):A:H5'	2.08	0.54
55:DA:1086:A:H2	57:DY:41:ARG:NH2	2.03	0.54
58:DL:16:LYS:O	58:DL:17:ALA:HB2	2.08	0.54
57:DY:7:VAL:CG1	57:DY:8:GLU:H	2.05	0.54
26:A4:59:PHE:HB3	26:A4:60:GLN:HE22	1.73	0.54
44:BQ:14:PRO:CG	44:BQ:15:LYS:H	2.18	0.54
12:AP:78:PRO:O	12:AP:79:LEU:HB2	2.07	0.54
54:CA:1305:G:H5''	51:CX:4:GLY:C	2.28	0.54
30:A8:6:THR:O	30:A8:7:HIS:HB3	2.07	0.54
54:CA:1052:U:H2'	54:CA:1055:A:OP1	2.07	0.54
21:DV:128:VAL:HG23	21:DV:161:VAL:HG23	1.90	0.54
4:AE:3:GLY:HA3	4:AE:81:ILE:HD12	1.90	0.54
55:DA:556:G:H2'	55:DA:557:U:H6	1.73	0.54
31:BA:1126:U:O2'	31:BA:1127:G:P	2.65	0.54
32:CE:54:THR:CG2	32:CE:201:ILE:HD11	2.29	0.54
11:DO:95:VAL:HG13	11:DO:100:LEU:HD21	1.89	0.54
9:DM:62:VAL:CG1	9:DM:66:LYS:HD2	2.37	0.54
31:BA:1347:G:C8	39:BL:107:ARG:HB3	2.42	0.54
6:DG:77:ILE:O	6:DG:81:LYS:O	2.25	0.54
54:CA:377:G:OP1	46:CS:3:LYS:HD2	2.06	0.54
29:A7:12:ARG:CD	29:A7:46:VAL:HG21	2.31	0.54
55:DA:2111:C:C2	55:DA:2118:U:O2'	2.61	0.54
1:AA:654(I):C:C2	1:AA:654(J):A:C8	2.95	0.54
31:BA:1534:A:H2'	31:BA:1535:C:C5	2.43	0.54
37:BJ:113:GLU:HB2	37:BJ:119:ARG:CG	2.33	0.54
35:CH:78:HIS:HB3	38:CK:107:LEU:HD12	1.89	0.54
1:AA:1098:A:C3'	1:AA:1099:G:H5''	2.36	0.54
11:AO:146:VAL:HG22	11:AO:147:LEU:N	2.15	0.54
54:CA:95:G:C2'	54:CA:96:G:H5''	2.38	0.54
17:D2:25:LEU:CD1	17:D2:94:LEU:HD21	2.38	0.54
33:BF:141:VAL:HG11	33:BF:202:ILE:HD12	1.89	0.54
52:BB:11:C:H2'	52:BB:12:U:H6	1.72	0.54
6:DG:13:GLU:HG3	6:DG:13:GLU:O	2.08	0.54
54:CA:1322:C:O2'	54:CA:1323:G:C5'	2.53	0.54
36:BI:14:LEU:CD2	36:BI:18:GLN:HB2	2.37	0.54
7:AH:121:ILE:HG22	7:AH:122:THR:N	2.23	0.54
42:CO:62:SER:HB2	42:CO:64:TYR:CD1	2.42	0.54
55:DA:2531:A:N3	55:DA:2531:A:H2'	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1155:A:H4'	16:D1:55:ARG:HH12	1.73	0.54
3:DD:134:ARG:HB2	3:DD:135:PHE:CE2	2.43	0.54
49:CV:80:TYR:CD2	49:CV:81:ARG:O	2.60	0.54
49:CV:80:TYR:CE2	49:CV:81:ARG:O	2.61	0.54
54:CA:448:A:C2	54:CA:487:A:C2	2.95	0.54
54:CA:181:G:O2'	54:CA:182:U:C6	2.60	0.54
47:CT:24:GLU:HG2	47:CT:39:SER:HB3	1.89	0.54
15:DR:96:ARG:CZ	15:DR:96:ARG:HB2	2.38	0.54
1:AA:1751:C:O2'	1:AA:1752:C:H5'	2.07	0.54
43:BP:97:PRO:N	43:BP:110:ARG:HD3	2.23	0.54
13:A0:97:VAL:HG13	13:A0:114:VAL:HG22	1.88	0.54
32:BE:178:ARG:HB2	32:BE:178:ARG:HH11	1.73	0.54
42:BO:6:THR:N	42:BO:9:GLN:HE21	2.05	0.54
32:BE:36:ARG:H	32:BE:41:ILE:HD13	1.72	0.54
55:DA:2839:G:H5''	13:D0:46:GLY:HA2	1.90	0.54
31:BA:508:C:H5''	31:BA:509:A:OP1	2.07	0.54
55:DA:323:G:H2'	5:DF:169:ASN:ND2	2.23	0.54
1:AA:236:C:H2'	1:AA:237:C:H6	1.73	0.54
55:DA:2524:G:H2'	55:DA:2741:A:H2	1.72	0.54
32:CE:92:TYR:CE2	32:CE:151:GLY:HA3	2.41	0.54
55:DA:2884:U:H2'	55:DA:2885:C:H5'	1.88	0.54
55:DA:1547:C:H2'	55:DA:1548:C:C6	2.43	0.54
41:CN:80:VAL:HG13	41:CN:103:LEU:HD12	1.90	0.54
32:BE:121:LEU:HD22	32:BE:127:ILE:HD13	1.90	0.54
1:AA:556:G:O5'	1:AA:556:G:H8	1.91	0.54
40:BM:65:LEU:HA	44:BQ:55:GLY:O	2.07	0.54
37:CJ:54:THR:O	37:CJ:56:GLN:N	2.41	0.54
55:DA:2439:A:H5'	55:DA:2439:A:C8	2.43	0.54
47:CT:46:ASP:OD2	47:CT:51:TYR:HD1	1.91	0.54
40:CM:80:LYS:HB2	40:CM:80:LYS:NZ	2.23	0.54
1:AA:1448:G:H2'	1:AA:1449:A:C8	2.42	0.54
3:AD:94:LEU:HD23	3:AD:95:LEU:N	2.23	0.54
56:DI:24:ILE:HD11	56:DI:25:ASP:HB2	1.90	0.54
58:DL:34:ILE:HG13	58:DL:38:VAL:HG22	1.90	0.54
58:DL:80:LYS:HD2	58:DL:80:LYS:C	2.27	0.54
57:DY:93:LEU:HG	57:DY:126:ALA:O	2.06	0.54
30:A8:33:ASN:O	30:A8:34:TRP:HB3	2.06	0.54
1:AA:947:G:H2'	1:AA:948:G:H8	1.72	0.54
54:CA:625:G:H5'	46:CS:10:GLY:HA2	1.89	0.54
6:AG:101:ILE:HB	26:A4:25:TYR:HD2	1.73	0.54
31:BA:1326:C:O2'	31:BA:1327:C:H5'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A8:50:LEU:CG	30:A8:51:ALA:N	2.59	0.54
1:AA:1928:A:C3'	1:AA:1929:G:C5'	2.85	0.54
1:AA:1406:U:H2'	1:AA:1406:U:O2	2.07	0.54
1:AA:2702:U:HO2'	1:AA:2703:C:H6	1.50	0.54
1:AA:2790:A:O2'	1:AA:2791:C:P	2.66	0.54
54:CA:1453:G:H2'	50:CW:39:LYS:HZ1	1.73	0.54
33:BF:149:ALA:O	33:BF:169:ALA:HB1	2.08	0.54
23:AZ:91:LYS:CA	23:AZ:91:LYS:HE3	2.30	0.54
54:CA:1176:A:H2'	54:CA:1177:G:C5'	2.37	0.54
31:BA:1346:A:O2'	31:BA:1347:G:OP2	2.26	0.54
20:AU:81:LYS:HB2	20:AU:96:ILE:CG2	2.38	0.54
7:AH:94:TYR:CE2	7:AH:153:LYS:HE2	2.43	0.54
1:AA:2245:U:C5'	1:AA:2246:G:H5'	2.36	0.54
26:D4:1:MET:HB3	26:D4:6:HIS:CD2	2.43	0.54
20:AU:14:LEU:H	20:AU:14:LEU:HD23	1.72	0.54
55:DA:2064:C:H2'	55:DA:2065:C:H6	1.73	0.54
11:AO:105:LEU:HD12	11:AO:105:LEU:N	2.23	0.54
8:AK:88:ILE:CG2	8:AK:89:TYR:N	2.64	0.54
36:BI:60:PHE:C	36:BI:61:LEU:HD12	2.28	0.54
55:DA:587:C:O2'	55:DA:588:U:OP2	2.23	0.54
1:AA:1543:A:O2'	1:AA:1544:C:H3'	2.06	0.54
3:DD:158:ALA:O	3:DD:159:ALA:C	2.46	0.54
13:A0:33:ARG:HG2	13:A0:115:GLU:CG	2.38	0.54
47:BT:80:GLY:O	47:BT:81:ARG:HB2	2.08	0.54
34:BG:49:ARG:NE	34:BG:49:ARG:HA	2.23	0.54
55:DA:1550:C:H4'	55:DA:1734:C:O2	2.08	0.54
11:DO:38:GLN:N	11:DO:41:ARG:HG2	2.21	0.54
12:AP:34:LEU:HD13	12:AP:118:LEU:HB3	1.90	0.54
3:AD:117:VAL:HG22	3:AD:118:VAL:H	1.72	0.54
32:BE:87:ARG:NH1	32:BE:219:VAL:HG13	2.22	0.54
54:CA:46:G:O2'	54:CA:365:U:H1'	2.08	0.54
6:DG:68:PRO:CG	6:DG:90:LEU:HD12	2.37	0.54
37:CJ:16:LEU:HD11	39:CL:45:ALA:HB2	1.90	0.54
34:BG:88:VAL:HG13	35:BH:97:GLY:HA2	1.90	0.54
5:AF:132:VAL:O	5:AF:134:GLY:N	2.31	0.54
54:CA:161:A:H2'	54:CA:162:A:H8	1.72	0.54
24:AW:16:LEU:O	24:AW:16:LEU:CD1	2.55	0.54
14:AQ:78:LEU:HD11	14:AQ:107:GLU:O	2.07	0.54
1:AA:2537:U:H2'	1:AA:2538:C:H6	1.73	0.54
31:BA:30:U:O2'	31:BA:31:G:OP1	2.21	0.54
31:BA:31:G:O2'	31:BA:32:A:P	2.65	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1118:C:H1'	54:CA:1179:A:C4	2.43	0.54
55:DA:1204:A:H1'	55:DA:1206:G:C5	2.42	0.54
31:BA:707:C:H2'	31:BA:708:C:C6	2.41	0.54
21:DV:76:LEU:HD23	21:DV:76:LEU:N	2.23	0.54
1:AA:1657:C:H2'	1:AA:1658:C:H6	1.71	0.54
3:DD:166:GLN:CA	3:DD:166:GLN:NE2	2.71	0.54
1:AA:2852:G:H2'	1:AA:2853:C:C6	2.43	0.54
12:DP:35:VAL:HG11	12:DP:130:LYS:HD2	1.90	0.54
7:DH:35:VAL:CG1	7:DH:71:LEU:HG	2.36	0.54
15:AR:98:LYS:HB3	15:AR:100:TYR:CE1	2.43	0.54
35:BH:63:ARG:HA	35:BH:66:MET:HE1	1.90	0.54
1:AA:1693:U:O2	3:AD:14:ARG:NH1	2.41	0.54
2:AB:24:G:H5''	2:AB:25:A:OP1	2.07	0.54
55:DA:439:G:H2'	55:DA:440:G:C8	2.43	0.54
31:BA:1169:A:H2'	31:BA:1170:A:C8	2.43	0.54
19:DT:26:TYR:OH	19:DT:88:LYS:HB2	2.07	0.54
38:CK:11:THR:HG23	38:CK:14:ARG:HH12	1.71	0.54
55:DA:1716:U:O2'	55:DA:1717:G:H5'	2.07	0.54
29:D7:30:VAL:HG12	29:D7:31:LEU:N	2.22	0.54
31:BA:930:C:O2'	31:BA:931:C:H5'	2.08	0.54
1:AA:313:C:O2'	1:AA:314:A:H5'	2.08	0.54
8:AK:133:HIS:ND1	8:AK:134:PRO:HD3	2.22	0.54
37:BJ:131:LYS:HB2	37:BJ:131:LYS:NZ	2.22	0.54
31:BA:246:A:O2'	31:BA:247:G:O5'	2.26	0.54
55:DA:2405:G:O2'	55:DA:2406:U:OP2	2.24	0.54
33:BF:60:ALA:O	33:BF:61:ALA:HB2	2.08	0.54
58:DL:14:ALA:HB2	58:DL:50:ASP:CA	2.38	0.54
55:DA:1059:G:O2'	58:DL:73:PRO:HD2	2.08	0.54
58:DL:77:LEU:HB3	58:DL:107:ILE:HG12	1.88	0.54
21:DV:180:VAL:CG1	21:DV:181:GLU:N	2.71	0.54
3:DD:142:VAL:HG23	3:DD:193:VAL:CA	2.37	0.54
3:DD:65:ILE:O	3:DD:65:ILE:HD13	2.08	0.54
54:CA:1306:A:N6	54:CA:1331:G:H1'	2.22	0.54
40:BM:27:ALA:HB2	40:BM:85:LEU:HD11	1.90	0.54
4:DE:13:ARG:CB	4:DE:21:VAL:HA	2.37	0.54
11:DO:61:ARG:O	11:DO:62:LEU:CB	2.55	0.54
1:AA:2311:A:O2'	1:AA:2312:U:H5'	2.08	0.54
1:AA:2807:G:O6	1:AA:2893:G:O6	2.25	0.54
4:AE:55:ASN:C	4:AE:57:LYS:H	2.11	0.54
1:AA:566:U:H2'	1:AA:567:A:O4'	2.08	0.54
31:BA:1004:A:C4	31:BA:1025:U:C2	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:DV:43:GLU:O	21:DV:47:VAL:HG23	2.08	0.54
55:DA:2840:C:O3'	13:D0:53:HIS:HE1	1.90	0.54
24:DW:15:LYS:HE3	24:DW:67:LYS:HE2	1.89	0.54
31:BA:794:A:O2'	31:BA:795:C:H5'	2.08	0.54
5:DF:65:TRP:HZ3	5:DF:73:ALA:O	1.91	0.54
31:BA:1372:U:OP2	39:BL:11:LYS:NZ	2.39	0.54
21:AV:58:VAL:C	21:AV:60:GLU:H	2.11	0.54
1:AA:2656:U:C5	1:AA:2657:A:N7	2.76	0.54
32:BE:42:ILE:HD11	32:BE:202:PRO:HB2	1.89	0.54
1:AA:89:G:OP2	1:AA:90:U:C6	2.60	0.54
1:AA:654(M):C:C2'	1:AA:654(N):G:OP1	2.55	0.54
1:AA:654(N):G:H8	1:AA:654(N):G:OP1	1.91	0.54
53:B1:35:A:H2'	53:B1:36:G:H8	1.72	0.54
55:DA:1926:U:H1'	55:DA:1929:G:O6	2.08	0.54
55:DA:1209:G:N2	55:DA:1210:A:H62	2.03	0.54
31:BA:1182:G:H4'	31:BA:1183:A:H5''	1.90	0.54
1:AA:1099:G:H2'	1:AA:1100:C:O4'	2.08	0.54
42:BO:68:ALA:HB1	42:BO:100:ILE:HG13	1.89	0.54
42:BO:68:ALA:HA	42:BO:98:TYR:O	2.07	0.54
11:DO:18:ARG:O	11:DO:19:VAL:HB	2.08	0.54
40:CM:50:ILE:HD13	40:CM:60:ARG:HD3	1.89	0.54
33:BF:92:ALA:HB2	33:BF:99:VAL:CG2	2.38	0.54
40:BM:49:VAL:HG12	40:BM:50:ILE:N	2.23	0.54
55:DA:729:G:H2'	55:DA:1775:U:O2	2.08	0.54
33:CF:15:THR:HG21	33:CF:181:ASN:HA	1.88	0.54
36:CI:63:TYR:N	36:CI:63:TYR:CD2	2.76	0.54
52:BC:18:G:H22	52:BC:57:G:H2'	1.73	0.54
31:BA:1062:U:H2'	31:BA:1063:C:C5	2.42	0.54
40:CM:4:ILE:CG2	40:CM:74:ILE:HD11	2.38	0.54
31:BA:186(C):G:H2'	31:BA:186(D):C:H6	1.72	0.54
2:DB:83:G:H4'	25:DX:52:HIS:CG	2.42	0.54
6:AG:144:ILE:HG22	6:AG:146:TYR:H	1.73	0.54
2:AB:54:G:H21	6:AG:29:TRP:HZ2	1.56	0.54
14:AQ:86:ALA:O	14:AQ:87:PHE:HB2	2.08	0.54
45:CR:26:GLU:HA	45:CR:81:LEU:HD22	1.90	0.54
55:DA:2600:A:C6	55:DA:2601:C:N4	2.76	0.54
1:AA:270(L):U:O4	8:AK:50:ARG:NH1	2.41	0.54
31:BA:328:C:C2'	31:BA:328:C:O2	2.56	0.54
1:AA:1278:A:O2'	1:AA:1279:G:H5'	2.08	0.54
34:CG:146:ILE:N	34:CG:146:ILE:HD12	2.23	0.54
55:DA:105:C:H2'	55:DA:106:C:C6	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1567:A:OP2	3:AD:86:PRO:HB3	2.07	0.54
23:DZ:13:ILE:HD11	23:DZ:42:GLN:OE1	2.07	0.54
31:BA:841:U:H4'	31:BA:842:C:C5	2.43	0.54
1:AA:1128:A:O2'	1:AA:1129:A:O4'	2.23	0.54
9:DM:78:TYR:CD1	9:DM:78:TYR:N	2.75	0.54
55:DA:1264:G:O5'	55:DA:1264:G:H8	1.91	0.54
38:CK:20:TYR:CE1	38:CK:78:GLN:NE2	2.76	0.54
1:AA:2018:G:H2'	1:AA:2019:A:C8	2.43	0.54
15:AR:3:ARG:O	15:AR:7:ILE:HG12	2.08	0.54
55:DA:1063:G:H1'	55:DA:1077:A:N7	2.23	0.54
58:DL:108:ALA:CA	58:DL:111:LYS:CD	2.80	0.54
58:DL:18:THR:HG21	58:DL:42:ASN:OD1	2.07	0.54
57:DY:70:GLU:O	57:DY:71:LEU:HB3	2.08	0.54
21:AV:105:VAL:HG23	21:AV:106:GLY:N	2.23	0.54
49:BV:42:PRO:CA	49:BV:45:VAL:HG22	2.38	0.54
49:BV:63:THR:HG22	49:BV:66:MET:HE2	1.88	0.54
28:A6:17:LYS:H	28:A6:19:ARG:HG2	1.73	0.54
54:CA:629:G:C5'	54:CA:630:G:P	2.95	0.54
6:AG:109:VAL:HA	26:A4:37:SER:OG	2.08	0.54
6:AG:58:GLN:O	6:AG:62:LEU:HB2	2.08	0.54
6:AG:38:VAL:CG2	6:AG:93:THR:HG23	2.37	0.54
31:BA:1268:A:C6	31:BA:1269:A:C6	2.96	0.54
23:DZ:53:VAL:HG22	23:DZ:74:VAL:HG13	1.90	0.54
49:CV:64:GLU:HA	49:CV:67:VAL:HG23	1.89	0.54
30:A8:48:PHE:C	30:A8:49:VAL:CG2	2.76	0.54
54:CA:1026:G:C6	54:CA:1036:G:N2	2.76	0.54
54:CA:961:U:H2'	54:CA:962:C:O4'	2.08	0.54
55:DA:2875:C:O2'	15:DR:5:ALA:HB3	2.08	0.54
14:DQ:106:ARG:HA	14:DQ:110:LEU:CG	2.38	0.54
54:CA:38:G:N2	54:CA:397:A:H2	2.03	0.54
31:BA:1130:A:N6	31:BA:1144:G:H21	2.05	0.54
7:DH:130:ARG:O	7:DH:130:ARG:HD2	2.08	0.54
1:AA:567:A:OP2	11:AO:29:LYS:NZ	2.41	0.54
54:CA:1125:U:OP2	54:CA:1145:C:N4	2.41	0.54
11:DO:77:ARG:HB2	11:DO:78:PRO:HD2	1.90	0.54
32:CE:4:GLU:CG	32:CE:5:ILE:H	2.21	0.54
31:BA:1036:G:H3'	31:BA:1037:C:C6	2.43	0.54
1:AA:2092:U:C4	1:AA:2225:A:O2'	2.61	0.54
26:D4:17:GLY:H	26:D4:35:VAL:HA	1.73	0.54
16:D1:89:GLU:O	16:D1:90:VAL:O	2.25	0.54
1:AA:1139:G:O2'	1:AA:1143:A:N6	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:71:VAL:HA	21:AV:88:PHE:HA	1.89	0.54
1:AA:1236:G:C4'	1:AA:1237:A:OP1	2.50	0.54
7:AH:154:PRO:O	7:AH:155:SER:HB2	2.08	0.54
5:AF:123:LEU:HD13	5:AF:192:LEU:HD22	1.89	0.54
1:AA:2572:A:C5	4:AE:144:ARG:NH1	2.77	0.54
1:AA:1312:U:OP2	19:AT:63:LYS:HD3	2.08	0.54
24:AW:53:LEU:O	24:AW:56:GLN:HB2	2.07	0.54
24:AW:50:ILE:CD1	24:AW:51:ARG:N	2.67	0.54
9:DM:137:LYS:HG3	9:DM:138:LEU:N	2.13	0.54
8:DK:37:VAL:HG13	8:DK:38:LEU:HD12	1.89	0.54
31:BA:1176:A:C8	31:BA:1176:A:O5'	2.61	0.54
1:AA:1103:A:H2'	1:AA:1104:C:H5'	1.90	0.54
1:AA:1993:U:H4'	4:AE:128:SER:CB	2.38	0.54
42:BO:60:LEU:HD23	42:BO:65:GLU:H	1.73	0.54
37:BJ:20:ASP:HB3	37:BJ:23:VAL:CG2	2.38	0.54
9:DM:85:ILE:HG23	9:DM:89:LYS:HG2	1.88	0.54
31:BA:1537:U:H2'	31:BA:1538:C:H6	1.68	0.54
3:DD:238:GLY:C	3:DD:239:ARG:O	2.46	0.54
55:DA:2175:C:C2'	55:DA:2176:A:H5''	2.38	0.54
31:BA:452:A:O2'	31:BA:453:A:O4'	2.25	0.54
1:AA:273(F):C:H3'	1:AA:274:G:C5'	2.38	0.54
1:AA:2322:A:H3'	1:AA:2323:G:C8	2.39	0.54
55:DA:1854:A:H62	55:DA:1888:G:H8	1.56	0.54
1:AA:2526:G:H5'	1:AA:2742:C:O2'	2.08	0.54
31:BA:1187:G:H21	44:BQ:60:SER:CB	2.21	0.54
31:BA:1292:U:H2'	31:BA:1293:G:C8	2.43	0.54
38:BK:29:SER:HB3	38:BK:32:LYS:HB2	1.89	0.54
21:AV:111:VAL:O	21:AV:113:ALA:N	2.41	0.54
7:AH:18:GLU:HG3	7:AH:25:LYS:HB2	1.90	0.54
54:CA:115:G:O2'	54:CA:116:A:OP2	2.23	0.54
46:BS:63:GLY:O	46:BS:64:ALA:HB2	2.08	0.54
36:BI:62:TRP:CH2	36:BI:64:GLN:HB2	2.42	0.54
31:BA:1194:U:H2'	31:BA:1195:C:C6	2.43	0.54
21:DV:125:LEU:HG	21:DV:164:ALA:HB3	1.90	0.54
2:DB:1(M):A:H2'	2:DB:1(M):A:N3	2.22	0.54
35:BH:36:ASP:O	35:BH:38:GLN:HG2	2.07	0.54
4:AE:9:VAL:HG21	4:AE:25:VAL:CG1	2.38	0.53
55:DA:1057:A:O2'	55:DA:1058:U:P	2.66	0.53
58:DL:136:VAL:O	58:DL:137:GLU:CB	2.50	0.53
58:DL:76:TYR:CD2	58:DL:77:LEU:HD12	2.43	0.53
58:DL:95:LYS:HE2	58:DL:136:VAL:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:122:VAL:O	57:DY:124:ALA:N	2.41	0.53
57:DY:13:LEU:HD23	57:DY:62:ALA:CB	2.06	0.53
1:AA:881:G:H2'	52:BB:19:G:O6	2.08	0.53
1:AA:1373:A:N6	1:AA:1374:G:C2	2.77	0.53
54:CA:73:G:H2'	54:CA:74:C:C6	2.43	0.53
3:DD:25:THR:HG22	3:DD:82:ILE:H	1.71	0.53
3:DD:94:LEU:HD13	3:DD:95:LEU:N	2.23	0.53
31:BA:1288:A:O3'	51:BX:9:ARG:NH1	2.42	0.53
43:BP:10:PRO:CG	43:BP:18:ALA:HB1	2.38	0.53
27:D5:49:CYS:SG	27:D5:58:LEU:HB2	2.47	0.53
16:A1:92:ARG:HH12	17:A2:11:GLN:CG	2.21	0.53
1:AA:996:A:O3'	16:A1:92:ARG:HD2	2.08	0.53
1:AA:1930:G:O2'	1:AA:1931:U:P	2.66	0.53
1:AA:34:C:O2'	1:AA:35:G:P	2.65	0.53
1:AA:2702:U:OP1	1:AA:2702:U:O4'	2.27	0.53
1:AA:2888:C:H2'	1:AA:2889:C:H6	1.73	0.53
55:DA:2626:C:H2'	55:DA:2627:G:O4'	2.08	0.53
31:BA:1144:G:H22	31:BA:1146:A:H62	1.53	0.53
40:BM:7:LYS:CE	40:BM:71:LEU:HD22	2.39	0.53
7:DH:103:LEU:HD21	7:DH:115:VAL:HB	1.90	0.53
7:DH:127:GLU:HG2	7:DH:128:PRO:CD	2.38	0.53
1:AA:2443:C:OP1	5:AF:68:LYS:HG2	2.08	0.53
34:CG:173:TRP:O	34:CG:186:LEU:HB2	2.08	0.53
52:BD:15:G:C2	52:BD:48:C:N4	2.76	0.53
52:BD:20:U:H2'	52:BD:21:A:C4'	2.37	0.53
13:D0:84:ALA:HB3	13:D0:85:PRO:HD3	1.90	0.53
52:CD:55:U:H2'	52:CD:56:C:H5'	1.89	0.53
6:DG:109:VAL:C	6:DG:112:PRO:HD2	2.28	0.53
31:BA:788:U:N3	31:BA:795:C:N4	2.55	0.53
35:BH:32:VAL:CG1	35:BH:33:VAL:N	2.71	0.53
55:DA:1311:G:N2	55:DA:1603:A:H62	2.05	0.53
55:DA:1535:U:C2	55:DA:1536:A:H5''	2.43	0.53
37:BJ:84:ASN:HB2	52:BD:37:MIA:C16	2.36	0.53
5:AF:29:ASN:H	5:AF:112:MET:CE	2.21	0.53
55:DA:622:G:O2'	55:DA:623:G:H5'	2.08	0.53
3:AD:35:LYS:CA	3:AD:64:ILE:HG23	2.38	0.53
3:AD:106:ILE:O	3:AD:106:ILE:HD13	2.08	0.53
38:CK:97:VAL:HG13	38:CK:98:LYS:N	2.24	0.53
31:BA:1176:A:H2'	31:BA:1177:G:C5'	2.38	0.53
21:DV:30:ASN:O	21:DV:32:HIS:N	2.41	0.53
31:BA:191(A):G:O2'	31:BA:191(B):G:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:84:SER:O	7:AH:85:LYS:HB2	2.08	0.53
38:BK:11:THR:HG23	38:BK:14:ARG:NH1	2.24	0.53
1:AA:1773:A:H2'	1:AA:1774:C:H5'	1.90	0.53
54:CA:405:U:H5''	54:CA:495:A:H2	1.73	0.53
54:CA:595:G:C6	54:CA:641:U:H2'	2.43	0.53
1:AA:528:A:H2	1:AA:2043:C:H5'	1.73	0.53
1:AA:2210:G:H3'	1:AA:2210:G:N3	2.22	0.53
1:AA:449:A:C4'	16:A1:3:ARG:NH1	2.68	0.53
54:CA:1297:C:O2'	54:CA:1298:C:P	2.65	0.53
54:CA:200:G:H2'	54:CA:201:C:O4'	2.08	0.53
1:AA:530:G:N3	1:AA:2021:C:O2'	2.41	0.53
1:AA:2335:A:HO2'	1:AA:2336:A:H3'	1.72	0.53
8:DK:35:LEU:O	8:DK:36:ALA:HB2	2.08	0.53
54:CA:1433:A:C4	54:CA:1468:A:C2	2.96	0.53
1:AA:2327:A:H2'	1:AA:2328:A:C8	2.43	0.53
1:AA:2303:G:O2'	1:AA:2304:G:H5'	2.08	0.53
12:DP:14:ARG:O	12:DP:72:LYS:NZ	2.41	0.53
55:DA:1641:A:H2'	55:DA:1642:G:O4'	2.08	0.53
31:BA:926:G:H22	53:B1:45:U:H3'	1.73	0.53
36:CI:8:ILE:HG22	36:CI:10:LEU:HD12	1.90	0.53
45:BR:8:LYS:O	45:BR:12:ILE:HG13	2.08	0.53
54:CA:832:C:O4'	54:CA:1539:C:OP1	2.26	0.53
1:AA:1416:G:H2'	1:AA:1417:C:C6	2.43	0.53
40:CM:100:THR:O	40:CM:101:VAL:HB	2.08	0.53
54:CA:605:U:O2'	54:CA:606:G:H5'	2.09	0.53
55:DA:1079:C:C5'	55:DA:1079:C:H6	2.20	0.53
56:DI:9:LYS:HG2	56:DI:10:GLU:N	2.23	0.53
56:DI:17:VAL:O	56:DI:18:LEU:C	2.46	0.53
56:DI:26:ALA:O	56:DI:27:LEU:O	2.26	0.53
58:DL:41:PHE:CD2	58:DL:42:ASN:N	2.77	0.53
58:DL:89:HIS:O	58:DL:90:LYS:CB	2.51	0.53
58:DL:95:LYS:HD3	58:DL:136:VAL:CG2	2.32	0.53
57:DY:4:LYS:HB3	57:DY:5:ARG:HD2	1.90	0.53
12:AP:38:GLU:O	12:AP:127:ILE:HG21	2.08	0.53
21:DV:180:VAL:O	21:DV:181:GLU:C	2.47	0.53
23:DZ:87:PRO:O	23:DZ:91:LYS:HB2	2.08	0.53
40:BM:99:LYS:HD3	40:BM:100:THR:H	1.72	0.53
30:A8:56:GLU:HA	30:A8:59:LYS:HE3	1.89	0.53
54:CA:1004:A:H2'	54:CA:1005:A:N3	2.22	0.53
57:DY:142:LEU:HD13	57:DY:143:GLN:HG2	1.89	0.53
54:CA:974:A:H1'	44:CQ:31:ARG:NE	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DE:6:GLY:HA2	4:DE:51:PHE:CE2	2.43	0.53
21:DV:152:ALA:HB1	21:DV:163:LEU:HD13	1.90	0.53
27:A5:4:HIS:CB	27:A5:5:PRO:CD	2.80	0.53
20:DU:94:LYS:CE	20:DU:101:LYS:HZ3	2.21	0.53
11:DO:61:ARG:HB2	11:DO:61:ARG:HH21	1.72	0.53
1:AA:456:C:HO2'	1:AA:457:A:P	2.31	0.53
7:DH:98:LEU:HA	7:DH:103:LEU:HA	1.89	0.53
1:AA:1044:G:H2'	1:AA:1045:A:H5''	1.90	0.53
32:CE:14:GLY:C	32:CE:15:VAL:HG22	2.29	0.53
32:CE:175:ARG:HG2	32:CE:175:ARG:HH11	1.72	0.53
32:CE:77:ALA:HB2	32:CE:211:ILE:HD13	1.90	0.53
55:DA:1021:A:H8	55:DA:1022:G:H5''	1.74	0.53
31:BA:959:A:O3'	31:BA:960:U:H4'	2.08	0.53
6:DG:107:LEU:HD11	6:DG:178:PHE:CD1	2.43	0.53
8:AK:114:LEU:O	8:AK:115:ALA:HB3	2.07	0.53
21:AV:28:MET:O	21:AV:34:ASN:HA	2.07	0.53
1:AA:654(S):G:C2'	1:AA:654(T):A:C8	2.91	0.53
11:DO:105:LEU:O	11:DO:106:LEU:CB	2.48	0.53
3:AD:24:ILE:O	3:AD:25:THR:O	2.26	0.53
13:A0:94:TYR:C	13:A0:117:VAL:HG12	2.29	0.53
1:AA:684:G:C2	1:AA:774:A:C2	2.96	0.53
24:AW:15:LYS:H	24:AW:67:LYS:HE2	1.73	0.53
3:AD:105:ILE:HD13	3:AD:106:ILE:N	2.23	0.53
17:D2:55:ALA:CB	17:D2:101:GLY:HA2	2.37	0.53
55:DA:803:U:C5'	55:DA:803:U:H6	2.10	0.53
6:DG:55:LYS:HZ1	6:DG:148:MET:CG	2.21	0.53
55:DA:29:U:H2'	55:DA:30:G:H8	1.73	0.53
11:AO:146:VAL:HG13	11:AO:147:LEU:N	2.23	0.53
35:BH:80:ILE:HG22	38:BK:104:ARG:CZ	2.39	0.53
55:DA:94:G:N3	24:DW:47:ASN:OD1	2.42	0.53
2:DB:24:G:N7	2:DB:56:G:H2'	2.24	0.53
55:DA:2751:G:C2	7:DH:3:ARG:HB3	2.42	0.53
40:BM:47:PHE:O	40:BM:47:PHE:HD1	1.90	0.53
41:BN:29:ILE:CB	41:BN:44:SER:HB3	2.33	0.53
31:BA:678:U:H2'	31:BA:679:C:H6	1.73	0.53
12:DP:20:ALA:H	21:DV:79:ARG:NH2	2.02	0.53
1:AA:603:A:O2'	1:AA:604:G:OP2	2.26	0.53
1:AA:523:C:H2'	1:AA:524:U:O4'	2.07	0.53
36:CI:14:LEU:HA	36:CI:18:GLN:NE2	2.24	0.53
55:DA:2391:G:HO2'	55:DA:2392:A:P	2.31	0.53
1:AA:1171:G:H1'	1:AA:1173:G:H5'	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AP:29:PHE:CD1	12:AP:29:PHE:N	2.76	0.53
18:AS:18:ARG:HE	18:AS:76:VAL:HG13	1.73	0.53
32:BE:144:ARG:HG3	32:BE:145:LEU:N	2.23	0.53
15:DR:66:VAL:HG12	15:DR:67:SER:H	1.73	0.53
34:CG:108:LEU:HB3	34:CG:110:PHE:HE1	1.71	0.53
5:AF:150:GLY:HA2	5:AF:172:TRP:CD2	2.44	0.53
54:CA:1315:U:H2'	54:CA:1316:G:O4'	2.08	0.53
24:DW:52:ASP:O	24:DW:56:GLN:HB2	2.08	0.53
14:AQ:67:ARG:O	14:AQ:71:ARG:HG3	2.08	0.53
32:CE:29:ALA:O	32:CE:32:ILE:HG22	2.08	0.53
31:BA:1274:G:N2	31:BA:1275:A:H62	2.06	0.53
32:CE:112:VAL:O	32:CE:116:GLU:HG3	2.07	0.53
54:CA:1276:G:H2'	54:CA:1277:C:H6	1.73	0.53
15:AR:125:ARG:O	15:AR:129:ARG:HG3	2.08	0.53
11:DO:86:LYS:HB3	11:DO:118:GLY:HA3	1.89	0.53
55:DA:390:A:H4'	55:DA:391:G:O5'	2.07	0.53
3:AD:72:LYS:HE3	3:AD:101:GLU:HB3	1.89	0.53
23:DZ:67:ILE:N	23:DZ:68:PRO:CD	2.70	0.53
31:BA:591:U:H2'	31:BA:592:G:C8	2.42	0.53
55:DA:1562:A:H2'	55:DA:1563:G:C8	2.43	0.53
25:DX:28:LEU:HA	25:DX:33:GLN:OE1	2.08	0.53
55:DA:1056:G:C2'	55:DA:1057:A:OP2	2.56	0.53
56:DJ:12:LEU:CB	56:DJ:13:SER:OG	2.39	0.53
58:DL:122:ALA:C	58:DL:124:ALA:H	2.12	0.53
58:DL:53:VAL:HG12	58:DL:72:PRO:CB	2.38	0.53
57:DY:13:LEU:CD2	57:DY:13:LEU:O	2.51	0.53
57:DY:89:ALA:N	57:DY:92:THR:CB	2.71	0.53
1:AA:894:C:C6	1:AA:895:U:C5	2.96	0.53
54:CA:523:A:N6	42:CO:92:ASP:HB2	2.22	0.53
55:DA:1278:A:H5''	13:D0:36:THR:HG22	1.90	0.53
55:DA:484:C:OP1	20:DU:51:VAL:HB	2.08	0.53
4:DE:5:LEU:O	4:DE:51:PHE:CE2	2.61	0.53
17:A2:38:LEU:CD1	17:A2:55:ALA:HB1	2.39	0.53
55:DA:2414:G:N2	11:DO:67:MET:HE1	2.18	0.53
4:AE:76:ARG:HD3	4:AE:195:LEU:HD13	1.90	0.53
31:BA:1026:G:C5	31:BA:1036:G:N2	2.75	0.53
31:BA:1025:U:HO2'	31:BA:1026:G:H8	1.55	0.53
55:DA:1021:A:C8	55:DA:1022:G:H5''	2.43	0.53
8:DK:125:GLU:OE2	8:DK:141:LYS:HG2	2.08	0.53
55:DA:1314:C:OP1	55:DA:1332:G:H5'	2.07	0.53
54:CA:77:C:C3'	54:CA:78:G:H5''	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:39:VAL:HG21	21:AV:44:PHE:HB2	1.89	0.53
1:AA:1236:G:O2'	1:AA:1237:A:C8	2.62	0.53
55:DA:1537:C:H2'	55:DA:1538:G:C8	2.44	0.53
11:AO:3:LEU:O	11:AO:5:ASP:N	2.39	0.53
32:BE:12:GLU:HB3	32:BE:213:LEU:CD1	2.38	0.53
1:AA:2012:G:C5'	18:AS:96:ILE:HD11	2.38	0.53
46:CS:6:LEU:HB3	46:CS:17:TYR:CD2	2.41	0.53
55:DA:85:G:OP2	20:DU:9:LYS:HG3	2.09	0.53
53:B1:33:G:H2'	53:B1:34:G:C8	2.38	0.53
55:DA:1925:C:H3'	55:DA:1925:C:H6	1.71	0.53
15:DR:39:ARG:HG2	15:DR:39:ARG:HH11	1.72	0.53
4:AE:128:SER:OG	4:AE:129:HIS:N	2.39	0.53
42:BO:27:LEU:HG	42:BO:33:ARG:HG2	1.88	0.53
5:DF:7:TYR:CD1	5:DF:7:TYR:N	2.76	0.53
1:AA:1332:G:N2	1:AA:1610:A:H8	2.06	0.53
55:DA:788:A:O2'	55:DA:789:A:OP2	2.23	0.53
54:CA:982:U:H5''	44:CQ:6:LEU:CD1	2.38	0.53
33:CF:14:ILE:HG12	33:CF:15:THR:N	2.23	0.53
12:AP:21:THR:HG22	12:AP:99:PRO:O	2.09	0.53
36:CI:63:TYR:N	36:CI:63:TYR:HD2	2.06	0.53
2:AB:50:G:OP1	14:AQ:62:LYS:HB2	2.08	0.53
55:DA:1673:U:O2'	55:DA:1674:G:H5'	2.07	0.53
31:BA:210:U:O4'	31:BA:210:U:OP2	2.26	0.53
54:CA:52:G:O2'	54:CA:53:A:H5'	2.08	0.53
33:CF:95:THR:C	33:CF:97:LYS:H	2.11	0.53
9:AM:115:ARG:HH11	9:AM:115:ARG:HG2	1.73	0.53
50:CW:10:LEU:O	50:CW:12:ALA:N	2.42	0.53
6:DG:113:ARG:HD3	6:DG:140:ILE:O	2.07	0.53
55:DA:1863:G:H2'	55:DA:1864:U:O4'	2.08	0.53
54:CA:800:G:O2'	54:CA:801:U:H5'	2.08	0.53
52:CB:5:G:H2'	52:CB:6:G:C8	2.43	0.53
31:BA:1096:C:O2'	31:BA:1097:C:H5'	2.08	0.53
55:DA:1431:U:O2'	55:DA:1432:C:H5'	2.09	0.53
54:CA:812:C:OP1	54:CA:903:G:H1'	2.08	0.53
16:A1:8:VAL:HG12	16:A1:11:ARG:HH21	1.73	0.53
21:AV:135:GLU:O	21:AV:136:PHE:HB3	2.09	0.53
1:AA:729:G:C5	3:AD:208:LYS:HB2	2.43	0.53
42:BO:82:VAL:O	42:BO:106:ASP:HB2	2.08	0.53
1:AA:2238:G:H5'	1:AA:2239:G:N7	2.24	0.53
55:DA:1199:U:H2'	55:DA:1200:C:O4'	2.07	0.53
31:BA:1325:C:H4'	51:BX:17:THR:HG21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AQ:35:ILE:O	14:AQ:35:ILE:HG23	2.09	0.53
31:BA:142:G:H2'	31:BA:143:A:C8	2.44	0.53
1:AA:352:G:O2'	1:AA:353:G:OP1	2.27	0.53
1:AA:1368:G:O2'	1:AA:1369:G:H5'	2.08	0.53
13:A0:18:LEU:HD11	13:A0:22:ARG:NE	2.24	0.53
55:DA:1082:U:O4	55:DA:1083:U:C2	2.62	0.53
55:DA:1084:A:C5'	55:DA:1085:A:OP2	2.55	0.53
58:DL:125:ARG:HD2	58:DL:132:ARG:HH21	1.73	0.53
57:DY:71:LEU:HA	57:DY:113:GLN:CA	2.39	0.53
21:AV:114:GLY:C	21:AV:177:PRO:HB2	2.29	0.53
21:AV:141:VAL:HG22	21:AV:144:LEU:HB3	1.91	0.53
49:BV:47:HIS:H	49:BV:62:ILE:CG2	2.21	0.53
12:AP:16:ARG:CB	12:AP:16:ARG:HH11	2.22	0.53
54:CA:1492:A:OP1	42:CO:47:LYS:N	2.41	0.53
21:DV:116:VAL:CG1	21:DV:117:LEU:CD1	2.75	0.53
32:CE:7:VAL:HG11	32:CE:217:ARG:CZ	2.39	0.53
3:DD:34:VAL:HG21	3:DD:103:ARG:HA	1.90	0.53
31:BA:1314:C:OP2	49:BV:6:LYS:HG2	2.09	0.53
31:BA:1327:C:OP1	51:BX:21:TYR:HD1	1.92	0.53
4:DE:61:ARG:CB	4:DE:62:PRO:CD	2.58	0.53
39:BL:17:VAL:HA	39:BL:63:ILE:HG13	1.91	0.53
7:DH:124:GLU:HB2	7:DH:132:ARG:CD	2.36	0.53
7:DH:123:PHE:CE2	7:DH:133:VAL:HG22	2.43	0.53
1:AA:2092:U:H6	1:AA:2092:U:C5'	2.21	0.53
11:DO:83:VAL:HG13	11:DO:114:ILE:HA	1.89	0.53
13:D0:92:GLY:N	13:D0:94:TYR:CE2	2.76	0.53
55:DA:2168:G:H2'	55:DA:2168:G:N3	2.23	0.53
54:CA:255:G:H1'	47:CT:16:GLN:HE21	1.74	0.53
5:AF:29:ASN:O	5:AF:112:MET:HE1	2.08	0.53
1:AA:1312:U:H3'	19:AT:63:LYS:NZ	2.23	0.53
39:BL:26:VAL:HA	39:BL:61:ALA:O	2.08	0.53
11:AO:112:LEU:H	11:AO:128:HIS:CD2	2.26	0.53
12:AP:32:TYR:O	12:AP:105:GLU:HA	2.07	0.53
42:BO:70:ILE:HD11	42:BO:100:ILE:HD12	1.91	0.53
55:DA:775:G:H4'	55:DA:776:G:O5'	2.08	0.53
31:BA:545:C:O2'	31:BA:549:C:OP1	2.24	0.53
1:AA:1543:A:H1'	1:AA:1545:A:C4'	2.38	0.53
44:BQ:41:ARG:HG3	44:BQ:42:ILE:N	2.24	0.53
55:DA:704:G:O2'	55:DA:705:A:P	2.65	0.53
10:AN:10:VAL:CG2	10:AN:17:ARG:HA	2.39	0.53
31:BA:511:C:C4'	34:BG:43:HIS:CD2	2.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1523:G:H2'	31:BA:1524:C:C6	2.44	0.53
43:CP:117:VAL:O	43:CP:118:ALA:O	2.25	0.53
18:AS:92:ARG:O	18:AS:93:ALA:HB3	2.08	0.53
52:BB:51:U:H2'	52:BB:52:G:H8	1.73	0.53
31:BA:451:A:H4'	31:BA:452:A:O4'	2.08	0.53
55:DA:270(J):G:H2'	55:DA:270(K):C:C6	2.44	0.53
3:AD:132:PRO:HG3	3:AD:190:TYR:CE1	2.43	0.53
33:CF:116:VAL:CG2	33:CF:202:ILE:HD11	2.35	0.53
54:CA:183:G:H2'	54:CA:184:G:C8	2.44	0.53
52:BC:44:G:H2'	52:BC:45:U:O4'	2.08	0.53
15:DR:95:ARG:NH1	15:DR:95:ARG:HG3	2.20	0.53
38:CK:112:LEU:HA	38:CK:134:ILE:H	1.73	0.53
35:BH:105:VAL:HB	35:BH:106:PRO:CD	2.38	0.53
3:DD:145:VAL:HG12	3:DD:146:GLU:O	2.08	0.53
54:CA:914:A:O2'	54:CA:915:A:H5'	2.09	0.53
8:AK:51:ILE:C	8:AK:53:ALA:H	2.12	0.53
1:AA:1805:U:O2	3:AD:50:THR:HB	2.08	0.53
31:BA:1078:U:H2'	31:BA:1079:G:O4'	2.08	0.53
31:BA:1084:G:C5	31:BA:1085:U:C4	2.96	0.53
55:DA:185:U:H4'	55:DA:218:A:H4'	1.89	0.53
1:AA:192:C:O2'	1:AA:802:A:N3	2.42	0.53
26:A4:65:ASP:O	26:A4:67:TYR:N	2.40	0.53
35:CH:60:TYR:CE1	35:CH:64:ARG:NH2	2.75	0.53
13:D0:61:HIS:O	13:D0:65:LEU:HD13	2.08	0.53
55:DA:201:C:H2'	55:DA:202:U:H5'	1.90	0.53
22:D3:8:GLY:O	22:D3:9:SER:O	2.26	0.53
55:DA:1368:G:O2'	55:DA:1369:G:H5'	2.09	0.53
32:BE:24:TRP:CZ3	32:BE:26:PRO:HA	2.44	0.53
55:DA:1916:A:H2'	55:DA:1917:U:O4'	2.07	0.53
35:BH:153:LYS:NZ	35:BH:153:LYS:HB2	2.24	0.53
37:CJ:126:ASP:HB3	37:CJ:131:LYS:HG3	1.89	0.53
32:BE:200:ILE:N	32:BE:200:ILE:HD12	2.23	0.53
42:CO:127:GLU:N	42:CO:127:GLU:OE1	2.42	0.53
45:CR:64:ARG:HH11	45:CR:64:ARG:HG3	1.73	0.53
54:CA:401:C:O2'	54:CA:402:G:H5'	2.08	0.53
15:DR:133:GLU:C	15:DR:135:ALA:H	2.12	0.53
4:AE:22:PRO:HB2	4:AE:186:GLY:CA	2.38	0.53
55:DA:1059:G:N1	55:DA:1080:A:C2	2.76	0.53
56:DJ:15:ALA:O	56:DJ:16:THR:CB	2.57	0.53
58:DL:105:LEU:C	58:DL:107:ILE:H	2.12	0.53
57:DY:112:LEU:O	57:DY:113:GLN:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:103:ARG:CB	21:AV:137:ILE:O	2.56	0.53
21:AV:108:PRO:O	21:AV:109:ALA:HB3	2.09	0.53
44:BQ:36:PHE:C	44:BQ:36:PHE:CD1	2.82	0.53
26:D4:69:LYS:HD3	26:D4:70:GLY:HA3	1.91	0.53
1:AA:864:G:H1'	1:AA:914:C:H42	1.72	0.53
12:AP:2:LEU:H	12:AP:2:LEU:HD12	1.73	0.53
21:DV:108:PRO:O	21:DV:109:ALA:CB	2.57	0.53
21:DV:179:ASP:OD1	21:DV:179:ASP:N	2.41	0.53
22:A3:31:VAL:CB	22:A3:35:ASN:HD22	2.18	0.53
57:DY:144:ALA:CB	57:DY:145:PRO:CD	2.81	0.53
46:CS:71:ARG:O	46:CS:74:LEU:N	2.42	0.53
20:DU:81:LYS:HB3	20:DU:97:ARG:HD3	1.89	0.53
1:AA:2311:A:C2'	1:AA:2312:U:C6	2.91	0.53
4:AE:53:PRO:CG	4:AE:54:GLN:H	2.21	0.53
7:DH:109:PHE:C	7:DH:111:HIS:N	2.62	0.53
7:DH:153:LYS:HA	7:DH:153:LYS:HE2	1.91	0.53
52:CD:56:C:H2'	52:CD:57:G:C8	2.43	0.53
6:DG:99:MET:HG3	6:DG:100:TRP:N	2.24	0.53
1:AA:1018:C:H2'	1:AA:1019:U:H6	1.71	0.53
20:AU:86:ARG:HG3	20:AU:86:ARG:HH11	1.74	0.53
1:AA:479:A:HO2'	1:AA:480:A:P	2.31	0.53
1:AA:1668:A:H61	1:AA:1676:A:H61	1.56	0.53
1:AA:654(C):G:H2'	1:AA:654(D):G:C8	2.44	0.53
32:BE:46:LYS:HA	32:BE:49:GLU:CG	2.38	0.53
1:AA:511:U:H5''	1:AA:512:G:OP2	2.07	0.53
1:AA:1818:U:HO2'	1:AA:1819:A:P	2.31	0.53
1:AA:654(M):C:C3'	1:AA:654(N):G:N7	2.63	0.53
55:DA:1688:U:O2	55:DA:1700:A:H8	1.91	0.53
1:AA:1103:A:H8	1:AA:1103:A:H5'	1.73	0.53
31:BA:255:G:H2'	31:BA:256:U:C6	2.43	0.53
11:AO:112:LEU:HD22	11:AO:113:LYS:H	1.72	0.53
5:DF:125:LEU:HD21	5:DF:199:TRP:CE3	2.43	0.53
37:BJ:62:PHE:O	37:BJ:66:VAL:HG23	2.09	0.53
5:DF:88:VAL:HG11	5:DF:91:GLY:HA3	1.90	0.53
34:CG:30:LYS:C	34:CG:32:ALA:N	2.55	0.53
17:D2:81:TYR:C	17:D2:82:ARG:HG3	2.28	0.53
33:CF:16:ARG:HH11	33:CF:16:ARG:CB	2.20	0.53
54:CA:363:A:H62	42:CO:28:LYS:HD3	1.74	0.53
31:BA:511:C:H4'	34:BG:43:HIS:CD2	2.43	0.53
55:DA:2654:A:N1	55:DA:2665:A:H5'	2.24	0.53
19:DT:49:VAL:HG12	19:DT:50:LYS:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CH:10:MET:CB	35:CH:32:VAL:HG22	2.38	0.53
3:AD:117:VAL:HG22	3:AD:118:VAL:N	2.24	0.53
31:BA:737:A:O2'	36:BI:72:VAL:HG13	2.08	0.53
1:AA:49:A:O2'	1:AA:50:U:OP2	2.26	0.53
1:AA:1856:G:H2'	1:AA:1857:G:H5'	1.90	0.53
54:CA:1297:C:H2'	37:CJ:114:ARG:NH2	2.23	0.53
17:D2:31:ALA:O	17:D2:61:VAL:HG12	2.09	0.53
6:DG:142:PRO:HG2	6:DG:143:GLU:H	1.74	0.53
22:A3:74:ARG:HH11	22:A3:74:ARG:CG	2.20	0.53
1:AA:2376:A:C2	14:AQ:112:PHE:HB2	2.43	0.53
42:CO:71:PRO:HG3	42:CO:99:HIS:CD2	2.40	0.53
52:CB:9:A:H2	52:CB:11:C:H41	1.55	0.53
21:DV:53:ILE:HG22	21:DV:71:VAL:HG13	1.91	0.53
38:CK:82:HIS:HD2	38:CK:82:HIS:C	2.10	0.53
41:BN:16:SER:O	41:BN:35:PRO:HG3	2.09	0.53
52:BC:46:G:H5''	52:BC:47:U:OP2	2.08	0.53
19:AT:88:LYS:HD2	19:AT:93:GLU:OE2	2.09	0.53
2:AB:14:U:OP2	2:AB:70:C:O2'	2.19	0.53
31:BA:926:G:N2	53:B1:45:U:H3'	2.24	0.53
55:DA:1530:G:H2'	55:DA:1531:C:C6	2.43	0.53
11:AO:138:LEU:CD1	11:AO:144:GLU:HG2	2.39	0.53
10:AN:7:TYR:HE1	10:AN:20:MET:HE3	1.73	0.53
42:CO:24:VAL:HG12	42:CO:24:VAL:O	2.08	0.53
58:DL:83:GLY:C	58:DL:85:GLU:N	2.58	0.53
57:DY:15:GLU:HG3	57:DY:19:ARG:NH2	2.24	0.53
57:DY:51:LEU:HD11	57:DY:83:TYR:N	2.23	0.53
31:BA:1321:C:H3'	31:BA:1322:C:H5''	1.91	0.53
55:DA:897:C:C6	55:DA:897:C:OP1	2.62	0.53
54:CA:624:C:H2'	54:CA:625:G:H8	1.73	0.53
46:CS:8:ARG:HG2	46:CS:8:ARG:HH11	1.73	0.53
2:AB:39:A:C2	2:AB:44:G:C4	2.97	0.53
27:D5:57:VAL:HG13	27:D5:57:VAL:O	2.07	0.53
54:CA:1004:A:OP1	54:CA:1025:U:O4	2.26	0.53
20:DU:47:LYS:HA	20:DU:60:PHE:CD1	2.43	0.53
1:AA:992:C:H2'	1:AA:993:G:H8	1.72	0.53
4:AE:3:GLY:O	4:AE:4:ILE:HG23	2.08	0.53
4:AE:60:ASN:O	4:AE:61:ARG:CB	2.57	0.53
7:DH:86:GLU:O	7:DH:87:LEU:CB	2.56	0.53
1:AA:1043:C:H2'	1:AA:1044:G:H5'	1.91	0.53
20:AU:42:VAL:HG12	20:AU:67:LEU:HD13	1.90	0.53
32:CE:17:PHE:CD1	32:CE:17:PHE:O	2.62	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DS:15:ARG:HE	27:D5:20:ARG:NH1	2.07	0.53
21:DV:6:LYS:NZ	21:DV:43:GLU:HG3	2.23	0.53
55:DA:1019:U:N3	55:DA:1142(A):A:N6	2.47	0.53
33:BF:150:LYS:HG3	33:BF:169:ALA:HB2	1.90	0.53
21:AV:162:GLU:O	21:AV:163:LEU:C	2.47	0.53
54:CA:562:C:O2'	42:CO:15:ARG:HD2	2.09	0.53
9:AM:30:ILE:CD1	9:AM:99:LEU:HD11	2.38	0.53
20:AU:50:ARG:HB3	20:AU:53:PRO:CG	2.35	0.53
55:DA:1125:G:C6	55:DA:1126:A:N6	2.77	0.53
32:BE:19:HIS:CE1	32:BE:204:ASN:HD22	2.26	0.53
3:AD:30:GLU:CG	3:AD:63:ARG:CZ	2.85	0.53
3:AD:35:LYS:HE3	3:AD:63:ARG:O	2.08	0.53
31:BA:251:G:N1	31:BA:266:G:C6	2.76	0.53
48:CU:18:ARG:N	48:CU:18:ARG:HD3	2.16	0.53
8:DK:17:GLN:HE21	8:DK:19:VAL:HB	1.74	0.53
12:DP:51:ARG:HH11	12:DP:51:ARG:HG2	1.73	0.53
12:DP:66:ILE:HA	12:DP:104:PHE:CA	2.31	0.53
39:BL:55:ALA:HA	39:BL:58:HIS:HD2	1.74	0.53
8:DK:68:LEU:HA	8:DK:71:ILE:CG2	2.38	0.53
54:CA:1068:G:OP2	54:CA:1094:G:H5''	2.09	0.53
40:BM:48:THR:HA	40:BM:62:HIS:CB	2.34	0.53
42:BO:68:ALA:CB	42:BO:100:ILE:HG13	2.39	0.53
50:BW:48:LYS:HB3	50:BW:51:GLU:HG3	1.90	0.53
21:DV:58:VAL:O	21:DV:67:LEU:O	2.26	0.53
53:C1:57:U:C3'	53:C1:57:U:O2	2.56	0.53
7:DH:20:ALA:HB1	7:DH:21:PRO:CD	2.38	0.53
31:BA:498:A:H4'	31:BA:500:G:OP1	2.08	0.53
29:A7:33:ARG:HH11	29:A7:33:ARG:HB2	1.73	0.53
12:AP:23:GLY:HA2	21:AV:78:LYS:CE	2.35	0.53
35:CH:137:GLU:O	35:CH:141:GLN:HG3	2.09	0.53
1:AA:1290:C:H2'	1:AA:1291:C:H6	1.73	0.53
48:BU:70:ILE:HG23	48:BU:79:LEU:HD12	1.89	0.53
46:BS:18:ARG:HA	46:BS:38:TYR:HA	1.91	0.53
54:CA:371:G:N2	54:CA:374:A:N6	2.55	0.53
1:AA:2729:G:H1'	4:AE:187:ALA:HB3	1.90	0.53
54:CA:197:A:C5	54:CA:221:C:H4'	2.43	0.53
55:DA:27:G:N2	55:DA:512:G:C2'	2.72	0.53
55:DA:2212:A:H1'	55:DA:2215:G:C5	2.44	0.53
55:DA:2211:G:O2'	55:DA:2212:A:P	2.67	0.53
31:BA:620:C:H2'	31:BA:621:A:O4'	2.09	0.53
55:DA:2336:A:H61	22:D3:43:THR:CG2	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2619:C:H5''	4:DE:152:LYS:HA	1.90	0.53
24:DW:31:GLU:O	24:DW:35:LEU:HD23	2.08	0.53
52:CD:64:A:N3	52:CD:65:G:H1'	2.23	0.53
31:BA:566:G:C4'	31:BA:567:G:OP1	2.56	0.53
1:AA:2638:G:O2'	1:AA:2639:A:H8	1.90	0.53
5:AF:20:LEU:HD23	5:AF:21:ALA:CB	2.38	0.53
52:CB:37:MIA:HN6	52:CB:37:MIA:H162	1.73	0.53
6:DG:161:THR:HG22	6:DG:162:THR:H	1.74	0.53
16:D1:24:TYR:HE1	16:D1:39:LEU:HD23	1.73	0.53
54:CA:341:C:H2'	54:CA:342:C:H6	1.74	0.53
54:CA:1081:G:H2'	54:CA:1082:G:H8	1.74	0.53
1:AA:681:G:H2'	1:AA:682:G:O4'	2.08	0.53
54:CA:5:U:O2'	54:CA:6:G:C4	2.59	0.53
31:BA:1045:C:O2	31:BA:1045:C:H2'	2.09	0.53
58:DL:11:GLN:CG	58:DL:41:PHE:CZ	2.88	0.53
57:DY:131:MET:O	57:DY:133:GLU:CG	2.56	0.53
57:DY:138:LEU:HG	57:DY:139:VAL:H	1.74	0.53
57:DY:2:PRO:O	57:DY:3:ASN:CB	2.55	0.53
31:BA:1234:C:O2'	31:BA:1235:U:H5'	2.09	0.53
44:BQ:14:PRO:HG2	44:BQ:15:LYS:N	2.21	0.53
1:AA:2420:C:N4	30:A8:31:HIS:HB3	2.13	0.53
1:AA:1358:G:C2'	1:AA:1359:A:OP2	2.57	0.53
21:DV:113:ALA:O	21:DV:114:GLY:C	2.45	0.53
3:DD:72:LYS:CG	3:DD:103:ARG:NH2	2.71	0.53
6:AG:139:LEU:HD12	6:AG:140:ILE:N	2.22	0.53
54:CA:1235:U:H2'	54:CA:1236:A:O4'	2.09	0.53
15:DR:1:MET:O	15:DR:3:ARG:HG2	2.08	0.53
17:A2:55:ALA:HA	17:A2:101:GLY:HA2	1.91	0.53
1:AA:34:C:H2'	1:AA:35:G:OP2	2.09	0.53
34:BG:16:GLY:O	34:BG:17:VAL:C	2.47	0.53
9:DM:43:THR:CG2	9:DM:45:ASN:ND2	2.72	0.53
7:AH:4:ILE:HD11	7:AH:7:LEU:HB3	1.90	0.53
31:BA:890:G:O2'	31:BA:891:U:OP2	2.27	0.53
31:BA:1004:A:O2'	31:BA:1005:A:O4'	2.26	0.53
55:DA:1266:G:C6	18:DS:16:LYS:HE2	2.44	0.53
52:BD:21:A:N3	52:BD:21:A:C3'	2.71	0.53
52:BD:7:A:H5'	52:BD:8:U:OP2	2.09	0.53
55:DA:1140:C:OP1	9:DM:23:LEU:HB3	2.08	0.53
16:D1:95:LEU:O	16:D1:98:LEU:HB3	2.09	0.53
17:D2:47:VAL:HG13	17:D2:48:GLY:N	2.24	0.53
23:AZ:7:ILE:HG12	23:AZ:91:LYS:HZ1	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BJ:111:ARG:NH1	37:BJ:123:GLU:N	2.56	0.53
20:AU:43:ASN:HA	20:AU:63:LYS:O	2.09	0.53
5:AF:5:ALA:H	5:AF:19:GLU:HA	1.74	0.53
5:AF:32:LEU:O	5:AF:36:VAL:HG23	2.08	0.53
52:CC:18:G:H1'	52:CC:58:A:H2	1.74	0.53
55:DA:1931:U:O2	55:DA:1931:U:O4'	2.25	0.53
8:DK:19:VAL:HG22	8:DK:20:ASP:N	2.24	0.53
39:CL:113:LYS:HD3	39:CL:119:ALA:HA	1.91	0.53
12:DP:66:ILE:CA	12:DP:104:PHE:HA	2.31	0.53
55:DA:857:C:H5'	22:D3:77:ARG:HH21	1.74	0.53
11:AO:107:LYS:C	11:AO:109:GLY:H	2.12	0.53
42:BO:74:GLY:O	42:BO:75:HIS:HB3	2.08	0.53
55:DA:1567:A:H5'	3:DD:58:HIS:CD2	2.44	0.53
37:BJ:97:GLN:NE2	37:BJ:101:LEU:HD11	2.16	0.53
40:BM:49:VAL:HG11	44:BQ:41:ARG:O	2.09	0.53
55:DA:1778:U:H2'	55:DA:1784:A:H62	1.72	0.53
1:AA:2134:A:N6	1:AA:2157:G:O2'	2.41	0.53
55:DA:943:U:OP2	11:DO:36:LYS:HE3	2.08	0.53
54:CA:1237:C:O4'	54:CA:1334:G:N2	2.42	0.53
54:CA:275:G:OP1	47:CT:14:LYS:HG2	2.08	0.53
2:AB:12:C:H5''	2:AB:13:A:OP1	2.09	0.53
55:DA:1709:U:H2'	55:DA:1710:C:H6	1.72	0.53
38:CK:132:GLU:O	38:CK:134:ILE:N	2.42	0.53
42:BO:40:VAL:O	42:BO:40:VAL:HG12	2.08	0.53
55:DA:1385:G:H5'	55:DA:1386:C:OP1	2.09	0.53
31:BA:1402:C:H2'	31:BA:1403:C:O4'	2.09	0.53
35:CH:41:VAL:HG22	35:CH:69:VAL:HG21	1.90	0.53
54:CA:115:G:H1'	54:CA:116:A:N7	2.24	0.53
39:BL:47:LEU:CD1	39:BL:47:LEU:H	2.21	0.53
39:BL:47:LEU:HD12	39:BL:47:LEU:H	1.74	0.53
1:AA:2278:A:C2'	1:AA:2279:G:O5'	2.57	0.53
3:AD:94:LEU:CD2	3:AD:94:LEU:C	2.77	0.53
33:CF:19:GLU:HA	33:CF:54:ARG:NH2	2.24	0.53
1:AA:2619:C:OP1	4:AE:152:LYS:HE3	2.08	0.53
52:BB:25:C:H5'	52:BB:26:A:OP2	2.08	0.53
31:BA:99:C:H2'	31:BA:101:A:C8	2.43	0.53
1:AA:986:C:C2'	1:AA:987:G:H5'	2.39	0.53
54:CA:1058:G:H2'	54:CA:1059:C:O4'	2.08	0.53
4:AE:23:VAL:HG23	4:AE:24:THR:N	2.24	0.53
56:DJ:7:ARG:O	56:DJ:8:ILE:HD13	2.09	0.53
58:DL:77:LEU:C	58:DL:107:ILE:HD11	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:95:LYS:CG	58:DL:136:VAL:HG11	2.38	0.53
58:DL:21:PRO:O	58:DL:24:GLY:O	2.27	0.53
58:DL:63:ARG:O	58:DL:64:SER:CB	2.55	0.53
55:DA:1059:G:H4'	58:DL:71:THR:HB	1.90	0.53
57:DY:27:VAL:N	57:DY:111:LEU:H	2.06	0.53
57:DY:138:LEU:CG	57:DY:139:VAL:H	2.21	0.53
57:DY:52:PHE:O	57:DY:53:VAL:HG13	2.09	0.53
57:DY:28:ASN:ND2	57:DY:83:TYR:CE2	2.75	0.53
21:AV:106:GLY:O	21:AV:107:THR:CB	2.56	0.53
1:AA:2287:A:O2'	1:AA:2288:A:H3'	2.08	0.53
11:AO:62:LEU:HD22	11:AO:63:PRO:O	2.08	0.53
1:AA:943:U:OP2	11:AO:36:LYS:CE	2.56	0.53
22:A3:32:ARG:H	22:A3:35:ASN:HD22	1.42	0.53
6:AG:60:LEU:O	6:AG:64:THR:HG22	2.08	0.53
54:CA:794:A:C2	54:CA:795:C:C4	2.97	0.53
54:CA:1306:A:H61	54:CA:1331:G:H1'	1.74	0.53
20:DU:42:VAL:HG11	20:DU:65:ALA:HB3	1.88	0.53
4:DE:54:GLN:HG2	4:DE:75:VAL:HG22	1.90	0.53
1:AA:1341:U:H5''	19:AT:57:LEU:CD2	2.38	0.53
11:DO:61:ARG:O	11:DO:62:LEU:HB3	2.08	0.53
50:CW:18:GLN:O	50:CW:22:ARG:HG3	2.07	0.53
4:AE:47:VAL:O	4:AE:80:GLU:HG2	2.09	0.53
7:AH:20:ALA:HB3	7:AH:23:ARG:HG3	1.91	0.53
31:BA:279:A:HO2'	31:BA:280:C:P	2.30	0.53
54:CA:1139:G:N2	54:CA:1143:G:C6	2.77	0.53
52:BD:14:A:H2'	52:BD:15:G:C8	2.43	0.53
43:CP:66:LEU:O	43:CP:67:GLU:C	2.47	0.53
54:CA:1158:C:C2	54:CA:1160:G:N7	2.77	0.53
31:BA:1375:A:H4'	37:BJ:29:LYS:NZ	2.24	0.53
55:DA:1317:A:H2'	55:DA:1318:C:C6	2.44	0.53
32:BE:8:LYS:O	32:BE:9:GLU:HB3	2.09	0.53
3:AD:27:THR:HG21	3:AD:83:GLU:CD	2.30	0.53
2:DB:40:U:HO2'	2:DB:43:C:H5	1.57	0.53
1:AA:790:C:O2'	1:AA:791:C:OP1	2.22	0.53
38:CK:97:VAL:HG13	38:CK:98:LYS:H	1.74	0.53
54:CA:691:G:H1'	54:CA:696:A:N6	2.24	0.53
1:AA:1098:A:H3'	1:AA:1099:G:H5''	1.91	0.53
34:CG:198:VAL:CG1	34:CG:199:ASN:H	2.21	0.53
34:CG:199:ASN:O	34:CG:201:GLN:N	2.41	0.53
55:DA:583:G:H5''	16:D1:10:ARG:NH1	2.23	0.53
33:BF:58:GLU:HB2	33:BF:65:ALA:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:197:A:O2'	31:BA:198:G:P	2.67	0.53
22:A3:36:ILE:HD13	22:A3:36:ILE:N	2.24	0.53
50:BW:65:LYS:O	50:BW:68:LYS:HG3	2.08	0.53
31:BA:689:C:H2'	31:BA:690:G:C5'	2.37	0.53
52:BC:18:G:N3	52:BC:18:G:H2'	2.23	0.53
14:AQ:11:LYS:HB2	14:AQ:91:PRO:HD3	1.91	0.53
1:AA:2832:U:O4	1:AA:2883:A:H5''	2.09	0.53
1:AA:1646:C:C2'	1:AA:1647:G:OP1	2.56	0.53
32:CE:33:TYR:HD2	32:CE:43:ASP:HB2	1.73	0.53
54:CA:344:A:H5''	54:CA:345:C:OP2	2.09	0.53
55:DA:1497:U:C5'	55:DA:1498:C:OP2	2.55	0.53
54:CA:1179:A:O3'	39:CL:103:THR:HG23	2.09	0.53
55:DA:1888:G:N3	55:DA:1888:G:H5'	2.24	0.53
1:AA:1429:G:H2'	1:AA:1430:C:H6	1.69	0.53
32:BE:108:ILE:HG22	32:BE:108:ILE:O	2.08	0.53
32:BE:97:TRP:CZ3	32:BE:173:ALA:HA	2.44	0.53
1:AA:270(H):C:O2'	1:AA:270(I):G:H5'	2.09	0.53
55:DA:1503:U:H2'	55:DA:1504:C:C6	2.44	0.53
54:CA:1390:U:H2'	54:CA:1391:U:C6	2.43	0.53
54:CA:1530:G:H2'	54:CA:1531:A:C8	2.43	0.53
34:BG:53:ASP:HB3	34:BG:57:ARG:NH1	2.24	0.53
3:AD:227:ASN:HB3	3:AD:228:PRO:HD2	1.90	0.53
31:BA:421:U:C2'	31:BA:421:U:O2	2.57	0.53
26:A4:15:ILE:HD12	26:A4:15:ILE:H	1.74	0.53
54:CA:1336:C:O2'	54:CA:1337:G:C4	2.61	0.53
41:BN:127:LYS:O	41:BN:128:ALA:HB3	2.08	0.53
42:BO:109:GLY:HA3	42:BO:121:GLY:O	2.09	0.53
55:DA:363(A):A:O2'	55:DA:363(B):G:H5'	2.08	0.53
33:BF:127:ARG:HH11	33:BF:127:ARG:HG2	1.73	0.53
20:AU:51:VAL:HG22	20:AU:51:VAL:O	2.08	0.53
52:BC:65:G:O2'	52:BC:66:U:H5'	2.08	0.53
52:BC:65:G:H2'	52:BC:66:U:C6	2.43	0.53
55:DA:80:G:O2'	55:DA:81:G:H5'	2.09	0.53
55:DA:1084:A:H3'	55:DA:1085:A:C8	2.44	0.53
56:DJ:4:ASP:O	56:DJ:7:ARG:C	2.47	0.53
56:DJ:8:ILE:HA	56:DJ:11:GLU:HB2	1.90	0.53
57:DY:89:ALA:HB2	57:DY:125:LEU:HD12	1.89	0.53
26:A4:63:TYR:CE2	49:BV:41:VAL:HG13	2.44	0.53
31:BA:948:C:C5	43:BP:106:ASN:ND2	2.77	0.53
49:BV:24:ALA:O	49:BV:27:GLU:OE1	2.27	0.53
49:BV:36:ARG:HB2	49:BV:72:GLY:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A8:29:LYS:O	30:A8:30:ARG:C	2.47	0.53
2:AB:90:C:P	12:AP:16:ARG:HD2	2.49	0.53
52:CB:57:G:H4'	21:DV:182:LYS:NZ	2.23	0.53
55:DA:900:A:H3'	55:DA:901:A:H8	1.74	0.53
1:AA:1814:G:H2'	1:AA:1815:A:C8	2.43	0.53
3:DD:35:LYS:CG	3:DD:64:ILE:HG23	2.39	0.53
6:AG:67:LYS:HE2	26:A4:6:HIS:CD2	2.44	0.53
40:BM:30:SER:OG	40:BM:81:THR:HA	2.09	0.53
40:BM:90:LEU:N	40:BM:90:LEU:HD12	2.24	0.53
1:AA:1924:C:N4	1:AA:1925:C:C5	2.76	0.53
31:BA:425:G:O2'	31:BA:426:G:H5'	2.08	0.53
34:BG:29:PRO:HD2	34:BG:30:LYS:HD3	1.91	0.53
34:BG:30:LYS:C	34:BG:32:ALA:H	2.12	0.53
1:AA:2786:U:H4'	4:AE:64:LYS:C	2.29	0.53
55:DA:2780:G:H22	9:DM:100:GLU:CD	2.11	0.53
9:DM:112:LEU:C	9:DM:112:LEU:HD23	2.28	0.53
1:AA:2443:C:O2'	1:AA:2444:G:H5'	2.09	0.53
1:AA:428:A:H8	1:AA:428:A:OP2	1.92	0.53
52:BD:24:G:O2'	52:BD:25:C:H5'	2.09	0.53
55:DA:1142(A):A:C5	55:DA:1144:G:N7	2.76	0.53
6:DG:121:ASN:HD22	6:DG:121:ASN:C	2.12	0.53
6:DG:34:LEU:HD21	6:DG:99:MET:HE1	1.91	0.53
54:CA:1158:C:H2'	54:CA:1158:C:O2	2.09	0.53
54:CA:1161:C:H2'	54:CA:1162:C:H6	1.74	0.53
1:AA:1022:G:O2'	1:AA:1023:U:O5'	2.27	0.53
52:CC:53:G:O2'	52:CC:54:U:H5'	2.08	0.53
3:AD:102:LYS:C	3:AD:103:ARG:HG2	2.29	0.53
19:AT:23:GLU:O	19:AT:25:LYS:N	2.39	0.53
20:DU:9:LYS:O	20:DU:27:VAL:HG22	2.09	0.53
24:DW:69:ARG:HH11	24:DW:69:ARG:HG2	1.74	0.53
24:AW:48:HIS:CD2	24:AW:49:LYS:N	2.77	0.53
15:DR:49:VAL:HG13	15:DR:49:VAL:O	2.08	0.53
12:DP:51:ARG:O	12:DP:55:VAL:CG1	2.57	0.53
55:DA:1175:U:H4'	55:DA:1176:G:OP1	2.07	0.53
11:AO:78:PRO:HB3	11:AO:111:ARG:NH2	2.24	0.53
54:CA:95:G:H2'	54:CA:96:G:C5'	2.38	0.53
17:D2:64:HIS:CG	17:D2:92:THR:HG22	2.44	0.53
1:AA:570:G:H2'	1:AA:2030:A:C5	2.44	0.53
1:AA:1062:G:H2'	1:AA:1063:G:H8	1.74	0.53
31:BA:500:G:H2'	31:BA:501:C:C6	2.44	0.53
10:AN:86:ILE:H	10:AN:86:ILE:HD12	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:406:G:C5'	34:CG:5:ILE:HD13	2.36	0.53
31:BA:1240:U:O2'	37:BJ:38:LEU:HD23	2.09	0.53
54:CA:389:A:H2'	54:CA:390:C:O4'	2.09	0.53
13:D0:78:LYS:HE2	13:D0:83:ILE:HD11	1.90	0.53
4:DE:116:VAL:CG2	4:DE:122:PHE:CD2	2.92	0.53
7:DH:9:ILE:O	7:DH:9:ILE:HG13	2.09	0.53
55:DA:27:G:H22	55:DA:512:G:C2'	2.22	0.53
55:DA:1577:C:H2'	55:DA:1578:U:C6	2.44	0.53
15:AR:102:ILE:HD12	15:AR:103:ARG:N	2.24	0.53
54:CA:872:A:O2'	54:CA:873:A:C3'	2.55	0.53
1:AA:5:A:H2'	1:AA:6:A:C8	2.44	0.53
13:D0:12:ARG:NH1	13:D0:12:ARG:HG3	2.22	0.53
31:BA:353:A:H2'	31:BA:354:G:OP2	2.08	0.53
54:CA:1285:A:H4'	54:CA:1286:A:O5'	2.08	0.53
8:AK:51:ILE:C	8:AK:53:ALA:N	2.61	0.53
31:BA:389:A:H2'	31:BA:389:A:N3	2.23	0.53
7:AH:18:GLU:CB	7:AH:25:LYS:HB2	2.39	0.53
55:DA:654(F):C:H2'	55:DA:654(G):C:OP1	2.08	0.53
52:CC:51:U:H2'	52:CC:52:G:C8	2.44	0.53
4:AE:203:LYS:HD3	4:AE:203:LYS:O	2.09	0.53
31:BA:92:G:O2'	31:BA:93:U:H5'	2.09	0.53
34:CG:131:ARG:HH11	34:CG:131:ARG:HG3	1.73	0.53
17:D2:65:GLY:HA3	17:D2:91:TYR:CE1	2.44	0.53
35:CH:82:VAL:CG1	35:CH:83:GLU:N	2.71	0.53
1:AA:986:C:O2'	1:AA:987:G:H5'	2.08	0.53
21:AV:10:ARG:NH1	21:AV:36:LYS:HD3	2.24	0.53
55:DA:2639:A:H2'	55:DA:2640:G:H5'	1.89	0.53
31:BA:1260:C:H4'	31:BA:1284:C:H5'	1.89	0.53
45:BR:11:VAL:HG21	45:BR:34:LEU:HD22	1.89	0.53
27:A5:41:PRO:HG2	27:A5:44:THR:OG1	2.09	0.53
55:DA:2862:G:H2'	55:DA:2863:C:H6	1.74	0.53
10:AN:73:ASP:OD1	15:AR:32:TYR:OH	2.26	0.53
1:AA:2820:A:H61	4:AE:192:ASN:CA	2.22	0.53
55:DA:1081:U:O2	58:DL:115:LEU:HD22	2.09	0.53
58:DL:125:ARG:HD2	58:DL:132:ARG:NH2	2.24	0.53
58:DL:58:THR:CB	58:DL:66:THR:HG23	2.38	0.53
57:DY:135:ARG:HG2	56:DJ:10:GLU:CB	2.39	0.53
26:A4:55:ARG:HE	26:A4:56:VAL:HB	1.74	0.53
11:AO:52:GLU:OE1	11:AO:52:GLU:C	2.47	0.53
2:AB:96:G:N2	2:AB:97:G:C1'	2.72	0.53
12:AP:69:PHE:CD1	12:AP:70:PRO:HD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CO:89:ARG:NH2	42:CO:91:LYS:HZ3	2.07	0.53
2:AB:44:G:OP2	26:A4:1:MET:N	2.42	0.53
26:A4:11:PRO:HA	26:A4:24:THR:HB	1.90	0.53
49:CV:41:VAL:HG12	49:CV:44:MET:N	2.24	0.53
40:BM:30:SER:C	40:BM:81:THR:HG22	2.30	0.53
54:CA:1234:C:H5'	54:CA:1365:G:OP1	2.09	0.53
44:CQ:39:LEU:HB3	44:CQ:43:CYS:CB	2.37	0.53
21:DV:154:ASP:N	21:DV:154:ASP:OD2	2.40	0.53
17:A2:49:THR:CG2	17:A2:50:PRO:HD3	2.38	0.53
1:AA:996:A:N6	1:AA:1160:G:C6	2.77	0.53
20:DU:95:LYS:HA	20:DU:101:LYS:HB2	1.91	0.53
4:AE:71:GLY:C	4:AE:73:GLU:N	2.61	0.53
31:BA:1277:C:O2'	31:BA:1279:A:H1'	2.09	0.53
7:AH:37:VAL:HG22	7:AH:38:SER:N	2.24	0.53
32:CE:88:ALA:HB2	32:CE:219:VAL:HG13	1.89	0.53
55:DA:747:U:C4	55:DA:2613:U:C4	2.96	0.53
31:BA:166:G:O2'	31:BA:167:G:H5'	2.09	0.53
52:CD:19:G:O6	55:DA:2112:G:O4'	2.26	0.53
43:CP:4:ILE:CG2	43:CP:5:ALA:H	2.18	0.53
54:CA:1160:G:N1	54:CA:1177:G:N2	2.57	0.53
9:AM:30:ILE:O	9:AM:34:LEU:HD23	2.09	0.53
7:DH:6:ARG:C	7:DH:8:PRO:HD2	2.30	0.53
24:DW:50:ILE:HD13	24:DW:51:ARG:H	1.69	0.53
24:DW:65:ASN:ND2	24:DW:69:ARG:NH2	2.46	0.53
7:AH:111:HIS:ND1	7:AH:112:PRO:HD2	2.24	0.53
1:AA:1053:C:C2'	1:AA:1054:A:H5''	2.39	0.53
31:BA:350:G:H5'	31:BA:351:G:OP2	2.09	0.53
9:AM:126:PRO:O	9:AM:127:ASP:CB	2.56	0.53
55:DA:686:G:H4'	55:DA:687:C:OP1	2.05	0.53
1:AA:2614:A:C4'	1:AA:2615:U:OP1	2.56	0.53
55:DA:2318:G:C2'	55:DA:2319:G:OP1	2.57	0.53
31:BA:686:U:H2'	31:BA:687:A:H8	1.73	0.53
55:DA:2128:C:O2'	55:DA:2173:A:N3	2.42	0.53
35:CH:8:GLU:OE2	35:CH:63:ARG:NH2	2.41	0.53
1:AA:1771:C:C1'	1:AA:1786:A:C8	2.92	0.53
39:CL:9:ARG:HA	39:CL:76:ALA:HB1	1.91	0.53
54:CA:556:C:C2'	54:CA:557:G:H5'	2.38	0.53
43:BP:13:LYS:CA	43:BP:44:ARG:HH11	2.19	0.53
14:AQ:100:ALA:HA	14:AQ:103:GLU:HG2	1.90	0.53
6:AG:128:ARG:HG3	6:AG:128:ARG:NH2	2.23	0.53
1:AA:2185:C:H2'	1:AA:2186:G:C8	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BE:98:LEU:HB2	32:BE:101:MET:CE	2.39	0.53
1:AA:2824:C:C2'	1:AA:2825:C:H5'	2.39	0.53
54:CA:1286:A:C8	54:CA:1287:A:H4'	2.44	0.53
8:DK:14:ASP:O	8:DK:16:GLY:N	2.39	0.53
55:DA:1992:G:O2'	55:DA:1993:U:OP2	2.18	0.53
5:DF:110:LEU:HD11	5:DF:181:LEU:HD12	1.91	0.53
1:AA:877:U:O2'	1:AA:878:A:C5'	2.56	0.53
1:AA:2119:A:N6	1:AA:2170:A:C5	2.77	0.53
4:AE:101:ARG:HH11	4:AE:171:GLU:N	2.06	0.53
55:DA:1493:C:O2	55:DA:1493:C:C2'	2.57	0.53
52:BB:22:G:N7	52:BB:46:G:N2	2.57	0.53
31:BA:568:G:O6	42:BO:5:PRO:HD3	2.08	0.53
55:DA:2688:U:H1'	55:DA:2721:A:N6	2.24	0.53
1:AA:2672:G:H3'	1:AA:2673:G:H5''	1.91	0.53
55:DA:616:A:O2'	55:DA:617:G:P	2.66	0.53
15:DR:57:PHE:O	15:DR:58:ASN:ND2	2.37	0.53
55:DA:90:U:H5''	55:DA:91:A:OP1	2.09	0.53
1:AA:1466:G:H5'	1:AA:1467:C:OP1	2.08	0.53
1:AA:1490:A:H5'	1:AA:1491:G:OP2	2.07	0.53
54:CA:1380:U:H4'	54:CA:1381:U:O5'	2.09	0.53
6:AG:51:ARG:HB2	6:AG:51:ARG:NH1	2.23	0.53
37:BJ:129:GLU:O	37:BJ:129:GLU:HG3	2.09	0.53
55:DA:1092:C:H2'	55:DA:1093:G:H4'	1.91	0.52
56:DI:12:LEU:N	56:DI:12:LEU:HD12	2.23	0.52
56:DI:5:ILE:O	56:DI:6:GLU:CB	2.58	0.52
57:DY:50:ARG:HA	57:DY:83:TYR:CE1	2.42	0.52
57:DY:51:LEU:CD1	57:DY:81:VAL:C	2.57	0.52
57:DY:91:LYS:HA	57:DY:94:VAL:CG1	2.39	0.52
39:BL:125:TYR:HD2	39:BL:126:SER:N	2.07	0.52
11:AO:66:GLY:O	11:AO:67:MET:CB	2.57	0.52
6:AG:60:LEU:C	6:AG:62:LEU:H	2.12	0.52
27:D5:55:ARG:C	27:D5:57:VAL:H	2.11	0.52
40:BM:84:GLN:HB3	40:BM:88:LEU:HD23	1.90	0.52
30:A8:50:LEU:HB2	30:A8:53:PRO:HG2	1.90	0.52
54:CA:1024:G:H3'	54:CA:1024:G:N3	2.24	0.52
54:CA:1101:A:C4'	54:CA:1102:A:O5'	2.30	0.52
4:DE:34:VAL:HG23	4:DE:48:GLN:CB	2.40	0.52
55:DA:2810:A:HO2'	4:DE:61:ARG:HG3	1.71	0.52
28:D6:9:LEU:HD22	28:D6:11:LEU:CD2	2.36	0.52
17:A2:37:VAL:HG23	17:A2:38:LEU:N	2.23	0.52
16:A1:88:ILE:HG22	17:A2:49:THR:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1925:C:H42	1:AA:1929:G:N2	2.08	0.52
4:AE:64:LYS:HG2	4:AE:65:GLY:H	1.73	0.52
55:DA:2780:G:OP2	9:DM:118:LYS:HD3	2.09	0.52
7:DH:147:ASN:N	7:DH:147:ASN:ND2	2.57	0.52
7:DH:87:LEU:HD13	7:DH:148:ILE:CG2	2.38	0.52
32:CE:200:ILE:HG22	32:CE:201:ILE:N	2.24	0.52
22:D3:3:HIS:CG	22:D3:4:LYS:H	2.27	0.52
17:D2:35:LEU:C	17:D2:37:VAL:N	2.59	0.52
1:AA:84:A:C8	1:AA:99:U:H5	2.26	0.52
55:DA:1291:C:H2'	55:DA:1292:U:H6	1.74	0.52
5:AF:117:ARG:HD3	5:AF:120:GLU:OE1	2.08	0.52
5:AF:29:ASN:H	5:AF:112:MET:HE1	1.74	0.52
32:BE:46:LYS:HA	32:BE:49:GLU:HG2	1.90	0.52
42:CO:19:ARG:HH11	42:CO:19:ARG:HB3	1.75	0.52
1:AA:2498:C:O2'	1:AA:2499:C:H5'	2.07	0.52
31:BA:188:U:O2'	31:BA:189:U:C5'	2.57	0.52
55:DA:1049:C:C2'	55:DA:1050:A:H5''	2.36	0.52
33:BF:181:ASN:ND2	33:BF:204:LEU:HD12	2.24	0.52
33:CF:11:ARG:O	33:CF:13:GLY:N	2.42	0.52
55:DA:991:C:H5'	55:DA:991:C:H6	1.74	0.52
50:BW:33:ILE:HD11	50:BW:62:LEU:HB3	1.90	0.52
48:CU:39:VAL:HA	48:CU:42:ARG:NH1	2.24	0.52
3:DD:176:ARG:HG2	3:DD:176:ARG:NH1	2.21	0.52
1:AA:2556:C:O2'	1:AA:2557:G:H5'	2.09	0.52
54:CA:346:G:H2'	54:CA:346:G:N3	2.23	0.52
31:BA:186:C:H1'	50:BW:81:LYS:HZ1	1.73	0.52
39:CL:54:ASP:O	39:CL:56:LEU:N	2.42	0.52
45:BR:17:ARG:HG3	45:BR:17:ARG:NH1	2.23	0.52
1:AA:727:A:OP1	1:AA:1431:U:O2'	2.27	0.52
47:CT:76:LEU:HD11	47:CT:79:SER:HB2	1.91	0.52
31:BA:765:G:N1	31:BA:812:C:H2'	2.24	0.52
51:CX:25:LYS:HE2	51:CX:26:LYS:O	2.09	0.52
38:BK:20:TYR:CE2	38:BK:75:ARG:HB3	2.44	0.52
55:DA:2335:A:C8	55:DA:2337:G:C5	2.97	0.52
54:CA:1074:G:H2'	54:CA:1075:C:H6	1.74	0.52
19:AT:64:LYS:NZ	19:AT:73:ARG:NH2	2.57	0.52
31:BA:116:A:O5'	31:BA:116:A:H8	1.92	0.52
45:BR:3:ILE:HG22	45:BR:38:ARG:NH2	2.24	0.52
55:DA:2540:C:O2	55:DA:2740:A:H2	1.92	0.52
40:BM:58:ASP:O	40:BM:59:SER:C	2.47	0.52
1:AA:606:U:H4'	1:AA:658:C:H4'	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1003:G:N2	55:DA:1153:C:C2	2.77	0.52
55:DA:249:C:O2	30:D8:12:LYS:NZ	2.38	0.52
52:CB:25:C:H5'	52:CB:26:A:OP2	2.10	0.52
55:DA:2762:G:C2'	55:DA:2763:G:H5'	2.40	0.52
23:AZ:41:ARG:HH11	23:AZ:41:ARG:HG3	1.74	0.52
55:DA:1099:G:H2'	55:DA:1100:C:O4'	2.09	0.52
57:DY:113:GLN:HG3	57:DY:113:GLN:O	2.09	0.52
57:DY:120:LYS:O	57:DY:121:ASP:HB2	2.09	0.52
1:AA:882:G:O5'	52:BB:19:G:N7	2.41	0.52
31:BA:992:U:O2'	31:BA:993:G:OP2	2.21	0.52
1:AA:865:C:C4'	1:AA:866:A:OP1	2.56	0.52
1:AA:911:A:H2'	12:AP:9:TYR:OH	2.08	0.52
1:AA:942:G:O2'	1:AA:943:U:H5'	2.08	0.52
1:AA:946:G:O2'	1:AA:947:G:C4'	2.55	0.52
1:AA:973:A:O2'	1:AA:1186:G:N2	2.41	0.52
15:AR:96:ARG:HH11	15:AR:96:ARG:HB2	1.72	0.52
55:DA:484:C:H2'	55:DA:485:C:H6	1.74	0.52
31:BA:64:G:C4'	31:BA:65:U:H5''	2.18	0.52
1:AA:1010:A:H5'	16:A1:62:ILE:CG2	2.39	0.52
9:AM:46:VAL:HG13	9:AM:47:ALA:N	2.23	0.52
31:BA:412:A:H61	34:BG:35:ARG:HA	1.74	0.52
1:AA:2788:C:H2'	1:AA:2789:C:O4'	2.08	0.52
1:AA:2061:G:HO2'	1:AA:2062:A:P	2.32	0.52
52:CD:56:C:H5''	55:DA:2169:A:H8	1.75	0.52
43:CP:3:ARG:HD2	26:D4:34:GLU:OE2	2.08	0.52
16:D1:108:GLU:CB	17:D2:44:LYS:HE3	2.39	0.52
55:DA:1288:U:C4'	55:DA:1289:C:OP2	2.57	0.52
55:DA:1289:C:H2'	55:DA:1290:C:C6	2.44	0.52
54:CA:1157:A:N3	54:CA:1157:A:H2'	2.24	0.52
37:BJ:15:ASP:O	37:BJ:19:GLY:HA2	2.09	0.52
21:AV:33:LEU:HG	21:AV:34:ASN:N	2.24	0.52
1:AA:84:A:C4'	1:AA:85:G:O5'	2.52	0.52
1:AA:2531:A:N6	1:AA:2662:A:H61	2.06	0.52
1:AA:2656:U:C6	1:AA:2656:U:C3'	2.93	0.52
5:AF:123:LEU:HG	5:AF:125:LEU:HD22	1.91	0.52
3:AD:64:ILE:O	3:AD:64:ILE:CG1	2.55	0.52
6:DG:101:ILE:HD13	26:D4:9:LEU:HD11	1.91	0.52
39:CL:118:LYS:NZ	39:CL:118:LYS:CB	2.71	0.52
38:CK:110:ALA:HB3	38:CK:121:ASP:HB3	1.90	0.52
53:C1:30:C:H3'	53:C1:30:C:C6	2.44	0.52
1:AA:626:U:O2	11:AO:105:LEU:HG	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:627:A:N7	11:AO:84:ASN:ND2	2.54	0.52
42:BO:57:LYS:CG	42:BO:67:THR:HG22	2.38	0.52
50:BW:100:ILE:H	50:BW:100:ILE:CD1	2.21	0.52
54:CA:1223:C:OP1	54:CA:1224:G:H3'	2.09	0.52
31:BA:511:C:O4'	34:BG:43:HIS:CD2	2.61	0.52
31:BA:366:C:O2'	31:BA:367:U:OP1	2.27	0.52
55:DA:1778:U:C2'	55:DA:1784:A:N6	2.69	0.52
54:CA:412:A:H4'	54:CA:413:G:O5'	2.09	0.52
16:D1:49:HIS:O	16:D1:50:ARG:C	2.45	0.52
1:AA:1654:A:OP1	13:A0:2:ARG:HD3	2.09	0.52
1:AA:1174:A:C5'	1:AA:1175:U:H5''	2.39	0.52
1:AA:532:A:N7	1:AA:2021:C:H2'	2.24	0.52
1:AA:361:G:H2'	1:AA:362:U:O4'	2.09	0.52
55:DA:662:G:H5'	11:DO:15:ARG:HA	1.91	0.52
15:AR:107:ASP:O	15:AR:110:ILE:HG22	2.08	0.52
54:CA:653:A:C1'	38:CK:56:LYS:HD3	2.38	0.52
54:CA:815:A:O2'	54:CA:816:A:P	2.67	0.52
55:DA:614:U:O4	5:DF:175:THR:HG23	2.08	0.52
32:CE:180:LEU:O	32:CE:181:PHE:HB2	2.08	0.52
31:BA:180:U:H2'	31:BA:181:G:H5'	1.90	0.52
13:A0:54:LEU:HD23	13:A0:66:VAL:HG22	1.91	0.52
14:AQ:58:LEU:H	14:AQ:58:LEU:HD23	1.74	0.52
55:DA:2841:C:O2'	55:DA:2842:G:H5'	2.08	0.52
55:DA:1782:C:H1'	55:DA:2609:U:O4'	2.08	0.52
1:AA:2862:G:H2'	1:AA:2863:C:H6	1.73	0.52
55:DA:1336:A:H2'	55:DA:1337:G:C8	2.45	0.52
21:DV:135:GLU:O	21:DV:136:PHE:HB3	2.09	0.52
1:AA:2512:C:H4'	4:AE:122:PHE:CE2	2.44	0.52
1:AA:1952:A:C6	1:AA:1953:A:N1	2.78	0.52
36:CI:48:LEU:HG	36:CI:57:GLN:HA	1.91	0.52
48:BU:47:THR:HB	48:BU:49:LYS:HE3	1.90	0.52
52:CB:42:C:O2'	52:CB:43:C:H5'	2.09	0.52
52:BC:51:U:H2'	52:BC:52:G:H8	1.73	0.52
56:DJ:24:ILE:O	56:DJ:27:LEU:HB2	2.09	0.52
58:DL:115:LEU:HD11	58:DL:117:THR:OG1	2.09	0.52
57:DY:119:ALA:O	57:DY:121:ASP:N	2.43	0.52
57:DY:5:ARG:C	57:DY:7:VAL:HG12	2.30	0.52
21:AV:145:GLU:OE1	21:AV:174:VAL:CB	2.58	0.52
21:DV:197:ILE:N	21:DV:197:ILE:CD1	2.62	0.52
26:A4:56:VAL:N	26:A4:59:PHE:HB3	2.24	0.52
31:BA:1320:C:H2'	31:BA:1321:C:C6	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1360:A:N1	55:DA:1372:U:C4	2.78	0.52
28:A6:18:ARG:HE	28:A6:44:ARG:NH1	2.07	0.52
1:AA:888:C:H1'	1:AA:889:C:OP2	2.10	0.52
43:BP:81:LEU:HD13	43:BP:88:ARG:HG2	1.90	0.52
54:CA:505:G:H5'	54:CA:534:U:H2'	1.91	0.52
21:DV:182:LYS:C	21:DV:183:LEU:HD23	2.30	0.52
3:DD:35:LYS:HZ1	3:DD:65:ILE:HA	1.73	0.52
4:DE:50:GLY:N	4:DE:77:ILE:HA	2.24	0.52
55:DA:1570:A:H2'	55:DA:1571:A:C8	2.43	0.52
21:DV:152:ALA:CB	21:DV:163:LEU:HD13	2.39	0.52
1:AA:2611:U:O2'	27:A5:3:LYS:HD3	2.09	0.52
1:AA:2590:A:H2'	1:AA:2591:C:C6	2.45	0.52
1:AA:1342:A:N7	1:AA:1345:C:C4	2.78	0.52
34:BG:21:LEU:CD1	34:BG:26:CYS:O	2.57	0.52
7:AH:4:ILE:HD12	7:AH:6:ARG:NE	2.25	0.52
11:DO:75:ILE:HG12	11:DO:77:ARG:NH1	2.24	0.52
45:CR:82:ILE:HD11	45:CR:88:ARG:CG	2.39	0.52
55:DA:1021:A:H8	55:DA:1022:G:C5'	2.21	0.52
42:BO:47:LYS:CB	42:BO:48:PRO:CD	2.74	0.52
6:DG:106:LEU:HD12	6:DG:110:ALA:HB3	1.92	0.52
48:BU:19:LYS:O	48:BU:20:ALA:O	2.28	0.52
55:DA:603:A:C4'	55:DA:604:G:O5'	2.43	0.52
21:AV:53:ILE:HA	21:AV:70:LEU:CD2	2.39	0.52
20:AU:95:LYS:HB2	20:AU:95:LYS:HZ3	1.74	0.52
1:AA:654(S):G:C3'	1:AA:654(T):A:C8	2.92	0.52
46:CS:6:LEU:HD11	46:CS:19:ILE:HD13	1.91	0.52
53:B1:37:G:H8	53:B1:37:G:H5'	1.74	0.52
9:AM:91:LEU:CA	9:AM:95:PRO:HB3	2.30	0.52
55:DA:1698:A:O2'	55:DA:1699:G:OP2	2.24	0.52
39:BL:95:LYS:O	39:BL:99:LEU:HB2	2.08	0.52
31:BA:337:C:H2'	31:BA:338:A:C8	2.44	0.52
5:DF:124:LEU:HD12	5:DF:125:LEU:N	2.24	0.52
21:DV:24:LEU:HD21	21:DV:86:VAL:HG23	1.90	0.52
36:BI:75:LEU:HD21	36:BI:79:LEU:HD11	1.90	0.52
55:DA:2318:G:H2'	55:DA:2319:G:OP1	2.10	0.52
1:AA:299:A:N6	1:AA:322:A:HO2'	2.08	0.52
7:AH:24:VAL:O	7:AH:24:VAL:HG23	2.10	0.52
31:BA:688:G:O2'	31:BA:689:C:H5'	2.09	0.52
52:BC:57:G:C2'	52:BC:58:A:H5''	2.39	0.52
55:DA:2174:C:H2'	55:DA:2175:C:C6	2.44	0.52
1:AA:1495:A:O2'	1:AA:1496:A:H5'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CF:182:ILE:HA	33:CF:202:ILE:O	2.09	0.52
10:DN:23:ARG:HG3	10:DN:24:VAL:N	2.21	0.52
7:DH:10:PRO:HD2	7:DH:50:VAL:O	2.08	0.52
15:AR:29:ARG:HE	15:AR:44:ASP:HB3	1.73	0.52
5:AF:53:THR:HG23	5:AF:55:GLY:N	2.24	0.52
55:DA:1681:G:O2'	55:DA:1762:A:O2'	2.25	0.52
3:AD:77:ALA:HB2	3:AD:97:TYR:CG	2.45	0.52
21:AV:11:GLU:O	21:AV:12:GLY:O	2.27	0.52
31:BA:10:A:O2'	31:BA:11:G:H5'	2.09	0.52
40:CM:8:LEU:CD2	40:CM:96:ILE:HG22	2.40	0.52
1:AA:1082:U:C3'	1:AA:1082:U:C6	2.92	0.52
1:AA:692:C:O2'	1:AA:693:C:H5'	2.10	0.52
42:CO:43:VAL:HG23	42:CO:44:THR:N	2.24	0.52
55:DA:440:G:H2'	55:DA:441:U:C6	2.44	0.52
55:DA:2638:G:O2'	55:DA:2639:A:H8	1.92	0.52
55:DA:1824:G:OP1	3:DD:52:ARG:HD3	2.09	0.52
41:CN:105:VAL:O	41:CN:105:VAL:HG23	2.09	0.52
1:AA:2768:C:C4	1:AA:2769:C:C5	2.97	0.52
1:AA:1556:C:H2'	1:AA:1557:C:C6	2.44	0.52
8:AK:37:VAL:HG12	8:AK:38:LEU:N	2.25	0.52
1:AA:1838:C:N4	1:AA:1898:U:H2'	2.23	0.52
1:AA:80:G:C2'	1:AA:81:G:H5'	2.40	0.52
31:BA:128:G:O2'	31:BA:129:U:H5'	2.09	0.52
1:AA:796:C:H2'	1:AA:797:C:C6	2.43	0.52
1:AA:1512:G:O2'	1:AA:1513:C:H5'	2.09	0.52
54:CA:681:C:O2'	54:CA:682:G:H5'	2.09	0.52
12:DP:71:ASP:C	12:DP:71:ASP:OD2	2.48	0.52
5:DF:29:ASN:HB3	5:DF:112:MET:HE1	1.91	0.52
25:DX:21:ALA:O	25:DX:24:LYS:HB3	2.10	0.52
55:DA:1088:A:H3'	55:DA:1088:A:N3	2.24	0.52
56:DI:18:LEU:O	56:DI:19:GLU:C	2.48	0.52
56:DJ:13:SER:OG	56:DJ:17:VAL:HG13	2.10	0.52
58:DL:109:LYS:CB	58:DL:120:LEU:HD21	2.40	0.52
57:DY:132:ASP:C	57:DY:134:LEU:HD22	2.29	0.52
52:BB:19:G:O2'	52:BB:20:U:P	2.68	0.52
1:AA:943:U:OP2	11:AO:36:LYS:NZ	2.41	0.52
21:DV:118:GLN:CA	21:DV:118:GLN:HE21	1.97	0.52
21:DV:174:VAL:O	21:DV:175:VAL:CB	2.57	0.52
55:DA:896:A:H2	21:DV:178:GLU:OE2	1.84	0.52
3:DD:35:LYS:HZ3	3:DD:104:TYR:HD1	1.57	0.52
3:DD:75:ILE:HD13	3:DD:99:ASP:OD1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1314:C:H2'	31:BA:1315:U:C6	2.44	0.52
27:D5:58:LEU:HD13	27:D5:60:VAL:CB	2.34	0.52
20:DU:44:ILE:CD1	20:DU:45:VAL:HG23	2.39	0.52
54:CA:948:C:O2'	54:CA:949:A:H5'	2.09	0.52
4:DE:197:ILE:HD11	4:DE:199:ARG:NH1	2.23	0.52
4:DE:63:LEU:O	4:DE:64:LYS:HB2	2.10	0.52
34:BG:31:CYS:O	34:BG:33:MET:N	2.37	0.52
34:BG:3:ARG:NH2	34:BG:5:ILE:HD13	2.24	0.52
17:A2:76:LYS:NZ	17:A2:82:ARG:HD3	2.24	0.52
1:AA:2634:G:O3'	4:AE:77:ILE:HG21	2.09	0.52
4:AE:64:LYS:C	4:AE:66:HIS:H	2.11	0.52
9:DM:43:THR:HB	9:DM:46:VAL:HG12	1.89	0.52
39:BL:28:VAL:HG22	39:BL:63:ILE:HB	1.92	0.52
39:BL:63:ILE:HG22	39:BL:64:THR:N	2.25	0.52
40:BM:7:LYS:C	40:BM:8:LEU:HD12	2.30	0.52
1:AA:2748:A:O2'	1:AA:2749:A:H5'	2.09	0.52
11:DO:147:LEU:O	11:DO:148:LEU:CB	2.57	0.52
55:DA:1266:G:O2'	55:DA:2012:G:N1	2.41	0.52
55:DA:2112:G:C2'	55:DA:2113:U:H5''	2.40	0.52
43:CP:68:GLY:HA3	6:DG:116:ASP:OD2	2.09	0.52
8:DK:77:LEU:HD11	8:DK:140:LEU:HA	1.89	0.52
1:AA:84:A:H1'	1:AA:85:G:O4'	2.09	0.52
20:AU:61:ILE:N	20:AU:61:ILE:HD12	2.24	0.52
5:AF:122:LYS:O	5:AF:123:LEU:CB	2.58	0.52
3:AD:32:SER:HA	3:AD:36:PRO:CD	2.30	0.52
4:AE:41:LYS:HG3	4:AE:42:ASP:OD2	2.09	0.52
8:DK:3:VAL:HB	8:DK:37:VAL:O	2.09	0.52
54:CA:1347:G:H2'	54:CA:1348:U:OP2	2.10	0.52
35:CH:78:HIS:HA	38:CK:105:ARG:HB2	1.91	0.52
31:BA:1092:A:C2	31:BA:1183:A:C2	2.97	0.52
54:CA:817:C:H4'	54:CA:818:G:OP1	2.07	0.52
11:AO:83:VAL:O	11:AO:83:VAL:HG13	2.09	0.52
50:BW:32:ALA:O	50:BW:36:LEU:HB2	2.09	0.52
55:DA:1653:G:C6	13:D0:9:LYS:HG2	2.44	0.52
19:DT:14:SER:H	19:DT:17:ALA:HB3	1.74	0.52
44:BQ:47:LEU:O	44:BQ:50:LYS:N	2.42	0.52
55:DA:2729:G:C1'	4:DE:187:ALA:HB2	2.35	0.52
31:BA:132:C:O2'	31:BA:133:U:H5'	2.10	0.52
50:BW:71:THR:HG22	50:BW:72:LEU:N	2.24	0.52
55:DA:389:G:H22	11:DO:72:PRO:CG	2.22	0.52
55:DA:2656:U:N3	55:DA:2665:A:C2	2.76	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CL:9:ARG:HG2	39:CL:104:ARG:HD2	1.92	0.52
49:BV:76:PRO:HB2	49:BV:78:ARG:CZ	2.40	0.52
28:A6:31:PRO:C	28:A6:33:LYS:N	2.62	0.52
31:BA:376:G:H4'	46:BS:5:ARG:HD3	1.91	0.52
31:BA:376:G:O2'	31:BA:377:G:H5'	2.08	0.52
39:CL:53:VAL:HG21	39:CL:92:TYR:CD1	2.45	0.52
54:CA:566:G:C4'	54:CA:567:G:OP1	2.56	0.52
42:BO:79:GLU:HG3	42:BO:80:HIS:N	2.23	0.52
15:AR:50:ILE:HG22	15:AR:62:THR:OG1	2.08	0.52
38:CK:25:ASP:N	38:CK:25:ASP:OD1	2.41	0.52
23:AZ:67:ILE:N	23:AZ:68:PRO:CD	2.73	0.52
55:DA:142:G:H2'	55:DA:143:C:H6	1.74	0.52
44:CQ:23:ARG:HD2	44:CQ:28:GLY:O	2.10	0.52
31:BA:9:G:H5'	35:BH:122:GLU:OE2	2.08	0.52
54:CA:748:C:O2'	54:CA:749:C:OP2	2.23	0.52
54:CA:551:U:H2'	54:CA:552:U:C6	2.44	0.52
54:CA:115:G:H1	54:CA:312:C:H42	1.55	0.52
1:AA:2086:U:H2'	1:AA:2087:G:C8	2.44	0.52
54:CA:176:C:O2'	54:CA:177:C:H5'	2.09	0.52
41:CN:17:GLY:HA3	41:CN:77:MET:HE3	1.91	0.52
55:DA:2096:U:H2'	55:DA:2097:C:C6	2.44	0.52
33:BF:186:PHE:HD1	33:BF:198:VAL:O	1.91	0.52
4:AE:95:ILE:H	4:AE:95:ILE:HD12	1.73	0.52
58:DL:14:ALA:CA	58:DL:49:GLY:HA3	2.15	0.52
58:DL:53:VAL:HG12	58:DL:72:PRO:CG	2.38	0.52
57:DY:15:GLU:O	57:DY:16:ASN:HB2	2.09	0.52
57:DY:23:SER:OG	57:DY:68:LEU:HB3	2.09	0.52
31:BA:1316:G:H4'	44:BQ:18:VAL:CG1	2.39	0.52
28:A6:10:LEU:HA	30:A8:34:TRP:CH2	2.44	0.52
28:A6:15:GLU:CD	28:A6:44:ARG:NH2	2.63	0.52
54:CA:522:C:O2'	54:CA:523:A:H5'	2.09	0.52
3:AD:48:ARG:HG3	3:AD:48:ARG:NH1	2.23	0.52
3:DD:35:LYS:CE	3:DD:104:TYR:CD1	2.93	0.52
30:D8:51:ALA:N	30:D8:53:PRO:HD2	2.24	0.52
55:DA:506:G:O3'	55:DA:507:A:H8	1.92	0.52
44:CQ:24:CYS:HB3	44:CQ:40:CYS:HB3	1.92	0.52
8:AK:82:ARG:NE	54:CA:56:U:H4'	2.20	0.52
1:AA:387:U:P	1:AA:387:U:C6	3.03	0.52
54:CA:37:U:O2'	54:CA:38:G:H5'	2.10	0.52
16:A1:90:VAL:HG13	17:A2:39:LEU:CB	2.40	0.52
9:DM:39:ARG:NH1	9:DM:41:ASP:OD1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BL:3:GLN:CD	39:BL:20:ARG:HH12	2.12	0.52
54:CA:1452:C:H2'	54:CA:1453:G:OP2	2.10	0.52
20:AU:15:VAL:CB	20:AU:22:GLY:HA3	2.23	0.52
42:BO:47:LYS:HB3	42:BO:48:PRO:HD3	1.84	0.52
42:BO:46:LYS:CG	42:BO:47:LYS:N	2.71	0.52
55:DA:957:A:OP1	12:DP:76:LYS:HD2	2.09	0.52
20:AU:43:ASN:HB3	20:AU:64:GLU:HA	1.89	0.52
1:AA:1666:G:H2'	1:AA:1667:G:O4'	2.09	0.52
5:AF:121:GLY:O	5:AF:122:LYS:HD3	2.09	0.52
11:AO:9:ASN:CB	11:AO:10:PRO:HD2	2.40	0.52
2:DB:21:G:H2'	2:DB:22:U:O4'	2.10	0.52
37:CJ:115:ARG:O	37:CJ:118:VAL:HG13	2.09	0.52
1:AA:1991:U:H2'	1:AA:1992:G:H5'	1.91	0.52
35:BH:78:HIS:CB	38:BK:104:ARG:HD2	2.34	0.52
1:AA:1059:G:H2'	1:AA:1060:U:C6	2.44	0.52
6:AG:130:ASN:OD1	6:AG:160:VAL:HA	2.09	0.52
35:CH:107:ARG:HG2	35:CH:108:ALA:N	2.24	0.52
39:CL:48:GLU:N	39:CL:49:PRO:CD	2.71	0.52
1:AA:1174:A:H3'	1:AA:1175:U:H4'	1.90	0.52
8:DK:101:LEU:C	8:DK:101:LEU:HD23	2.30	0.52
1:AA:1365:A:OP2	23:AZ:3:LYS:HB2	2.09	0.52
1:AA:816:C:O2'	1:AA:817:C:H5'	2.10	0.52
55:DA:1280:G:H2'	55:DA:1281:G:H5''	1.91	0.52
12:DP:35:VAL:HG22	12:DP:36:ALA:N	2.25	0.52
7:DH:18:GLU:O	7:DH:24:VAL:HA	2.10	0.52
14:AQ:69:VAL:HG13	14:AQ:101:LEU:CD2	2.39	0.52
12:DP:31:ASP:N	12:DP:106:VAL:O	2.42	0.52
31:BA:1058:G:H2'	31:BA:1059:C:O4'	2.09	0.52
55:DA:1445:C:H2'	55:DA:1446:C:H6	1.74	0.52
37:BJ:63:LYS:HG3	37:BJ:64:GLN:OE1	2.09	0.52
41:BN:105:VAL:O	41:BN:105:VAL:HG23	2.09	0.52
4:DE:174:ASP:OD2	4:DE:175:VAL:N	2.38	0.52
9:DM:131:GLN:NE2	9:DM:132:ALA:H	2.07	0.52
2:AB:24:G:H1'	2:AB:27:C:N4	2.24	0.52
31:BA:1260:C:O5'	31:BA:1284:C:H4'	2.09	0.52
1:AA:2861:G:H2'	1:AA:2862:G:H8	1.74	0.52
55:DA:502:A:H2'	55:DA:503:A:H5'	1.90	0.52
14:DQ:34:HIS:HB3	14:DQ:53:SER:HB3	1.92	0.52
55:DA:2574:G:O2'	4:DE:143:ASN:HB3	2.10	0.52
55:DA:1272:A:H5'	55:DA:1273:U:OP2	2.09	0.52
34:CG:141:ARG:HB3	34:CG:142:PRO:HD2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BK:6:ILE:HD12	38:BK:6:ILE:N	2.25	0.52
1:AA:1131:G:H4'	9:AM:82:LEU:HB2	1.91	0.52
1:AA:2290:G:H4'	1:AA:2381:C:O2'	2.09	0.52
1:AA:2723:C:OP1	4:AE:109:LYS:HE2	2.09	0.52
4:AE:9:VAL:CG2	4:AE:10:GLY:N	2.61	0.52
57:DY:135:ARG:HB2	56:DJ:19:GLU:CD	2.30	0.52
58:DL:102:GLU:HG2	58:DL:103:GLN:H	1.75	0.52
58:DL:105:LEU:C	58:DL:107:ILE:N	2.62	0.52
58:DL:11:GLN:CB	58:DL:41:PHE:CZ	2.91	0.52
57:DY:27:VAL:CA	57:DY:111:LEU:N	2.68	0.52
57:DY:24:PHE:CZ	57:DY:88:ALA:CB	2.84	0.52
31:BA:1343:G:H2'	31:BA:1344:C:H6	1.68	0.52
1:AA:2250:G:H2'	1:AA:2496:C:OP1	2.09	0.52
1:AA:954:G:H2'	1:AA:954:G:N3	2.24	0.52
3:DD:65:ILE:H	3:DD:65:ILE:HD12	1.74	0.52
2:AB:39:A:N1	2:AB:44:G:C6	2.78	0.52
6:AG:111:LEU:CD1	6:AG:120:LEU:HD11	2.39	0.52
6:AG:142:PRO:HG2	6:AG:143:GLU:OE2	2.10	0.52
43:BP:8:GLU:OE1	43:BP:22:ILE:HG12	2.10	0.52
31:BA:1329:A:H4'	43:BP:24:GLY:O	2.10	0.52
43:BP:22:ILE:CB	43:BP:25:ILE:HG12	2.15	0.52
43:BP:45:VAL:HA	43:BP:48:LEU:HD22	1.91	0.52
40:BM:23:ILE:HA	40:BM:26:ALA:HB3	1.92	0.52
54:CA:1055:A:H4'	33:CF:161:GLU:OE1	2.10	0.52
54:CA:965:A:H4'	54:CA:966:G:C5'	2.40	0.52
55:DA:2346:A:O3'	28:D6:39:TYR:OH	2.27	0.52
17:A2:81:TYR:HB2	17:A2:83:ARG:NH1	2.25	0.52
9:DM:35:ARG:HB2	9:DM:42:TRP:CZ3	2.45	0.52
9:DM:98:VAL:HG13	9:DM:99:LEU:N	2.25	0.52
55:DA:119:A:H4'	55:DA:120:U:OP1	2.09	0.52
1:AA:2757:A:H2	7:AH:64:LEU:HD23	1.75	0.52
7:AH:4:ILE:HD11	7:AH:7:LEU:CG	2.40	0.52
50:CW:35:THR:O	50:CW:39:LYS:HG3	2.10	0.52
32:CE:55:PHE:HA	32:CE:58:ILE:CG1	2.39	0.52
32:CE:82:ARG:NH1	32:CE:86:GLU:OE2	2.43	0.52
31:BA:1026:G:C6	31:BA:1036:G:N2	2.77	0.52
31:BA:1027:C:O2'	31:BA:1028:C:P	2.67	0.52
6:DG:104:GLU:O	6:DG:108:ASN:HB2	2.09	0.52
35:BH:9:LYS:O	35:BH:33:VAL:HG23	2.08	0.52
55:DA:1329:U:H5''	55:DA:1330:C:C5	2.45	0.52
31:BA:1347:G:HO2'	31:BA:1373:G:H1	1.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1024:G:O6	1:AA:1025:G:N1	2.42	0.52
55:DA:1292:U:H2'	55:DA:1293:C:H6	1.73	0.52
30:D8:37:SER:O	30:D8:40:GLU:HB3	2.09	0.52
3:AD:34:VAL:C	3:AD:35:LYS:HG3	2.29	0.52
50:CW:89:ARG:HH21	50:CW:89:ARG:HG3	1.74	0.52
1:AA:788:A:O2'	1:AA:789:A:P	2.68	0.52
1:AA:607:U:O2	1:AA:620:G:C8	2.63	0.52
16:D1:34:LYS:HA	16:D1:34:LYS:CE	2.31	0.52
14:DQ:71:ARG:CG	14:DQ:104:GLY:HA2	2.32	0.52
42:BO:37:CYS:HA	42:BO:57:LYS:O	2.09	0.52
53:C1:37:G:H3'	53:C1:38:U:C6	2.44	0.52
31:BA:533:A:O2'	31:BA:534:U:OP1	2.24	0.52
55:DA:1964:G:C8	55:DA:1964:G:OP1	2.62	0.52
37:BJ:20:ASP:O	37:BJ:23:VAL:HB	2.10	0.52
1:AA:2467:C:H4'	12:AP:123:HIS:CD2	2.45	0.52
33:BF:16:ARG:HH11	33:BF:16:ARG:CA	2.22	0.52
55:DA:729:G:OP2	3:DD:13:ARG:NH1	2.41	0.52
2:AB:8:U:H2'	2:AB:9:G:C8	2.45	0.52
50:BW:67:ALA:HA	50:BW:73:HIS:CA	2.40	0.52
54:CA:152:A:N6	54:CA:169:C:N4	2.56	0.52
1:AA:1652:A:H3'	1:AA:1653:G:C8	2.45	0.52
33:CF:62:ASP:HA	33:CF:97:LYS:HD2	1.91	0.52
1:AA:2815:C:O2'	27:A5:43:HIS:CD2	2.62	0.52
6:DG:41:GLN:HE21	6:DG:60:LEU:HD12	1.75	0.52
3:AD:176:ARG:NH1	3:AD:176:ARG:HG2	2.20	0.52
10:DN:64:ARG:O	10:DN:82:ASN:HA	2.09	0.52
54:CA:501:C:H2'	54:CA:502:G:C8	2.41	0.52
19:AT:65:ARG:HG3	19:AT:65:ARG:NH1	2.21	0.52
10:DN:107:ARG:CZ	15:DR:36:GLU:HB3	2.40	0.52
1:AA:2081:C:O2'	1:AA:2082:A:H5'	2.10	0.52
14:AQ:110:LEU:HD22	14:AQ:111:GLU:H	1.74	0.52
55:DA:2552:U:H2'	55:DA:2554:U:H5''	1.91	0.52
53:B1:43:U:H2'	53:B1:44:U:H5'	1.91	0.52
32:BE:78:GLN:HA	32:BE:94:ASN:OD1	2.09	0.52
27:D5:13:LYS:HG2	27:D5:16:ARG:HH21	1.74	0.52
55:DA:1871:A:H2'	55:DA:1872:A:C8	2.44	0.52
1:AA:2637:U:H5''	1:AA:2638:G:OP2	2.10	0.52
54:CA:766:A:H61	54:CA:1511:G:H1'	1.75	0.52
9:DM:131:GLN:N	9:DM:131:GLN:HE21	2.07	0.52
40:CM:3:LYS:O	40:CM:100:THR:HA	2.10	0.52
1:AA:80:G:O2'	1:AA:81:G:H5'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:153:C:H2'	54:CA:154:C:C6	2.44	0.52
31:BA:1098:C:H2'	31:BA:1099:G:O4'	2.08	0.52
31:BA:105:G:H2'	31:BA:106:C:C6	2.44	0.52
54:CA:671:G:H2'	54:CA:672:U:H6	1.74	0.52
54:CA:134:A:N6	46:CS:25:ARG:NH1	2.58	0.52
1:AA:2016:U:H1'	27:A5:6:VAL:HG22	1.91	0.52
55:DA:1079:C:C4	55:DA:1088:A:C8	2.97	0.52
58:DL:105:LEU:HD12	58:DL:106:GLU:HB2	1.91	0.52
58:DL:112:MET:CE	58:DL:118:THR:O	2.57	0.52
57:DY:118:THR:OG1	57:DY:119:ALA:N	2.39	0.52
57:DY:129:PRO:C	57:DY:130:THR:OG1	2.48	0.52
55:DA:1084:A:H1'	57:DY:53:VAL:CG2	2.40	0.52
57:DY:98:LYS:CB	57:DY:102:LYS:HE3	2.40	0.52
1:AA:946:G:O6	1:AA:972:G:C2	2.62	0.52
12:AP:42:ILE:HA	12:AP:46:GLN:OE1	2.09	0.52
12:AP:82:ARG:NH1	12:AP:82:ARG:CG	2.70	0.52
12:AP:42:ILE:HD13	12:AP:97:VAL:HB	1.91	0.52
55:DA:895:U:C5'	55:DA:896:A:OP2	2.58	0.52
49:BV:5:LEU:HD13	49:BV:6:LYS:N	2.25	0.52
23:DZ:89:GLU:OE2	23:DZ:93:GLU:OE1	2.28	0.52
15:AR:53:ARG:HD3	15:AR:60:THR:OG1	2.09	0.52
57:DY:142:LEU:C	57:DY:142:LEU:CD2	2.78	0.52
54:CA:1199:U:H4'	40:CM:54:PHE:CZ	2.44	0.52
55:DA:2891:G:H5'	55:DA:2892:A:OP1	2.09	0.52
4:DE:63:LEU:O	4:DE:64:LYS:CB	2.58	0.52
8:DK:112:LYS:O	8:DK:113:ARG:HB2	2.09	0.52
55:DA:654(M):C:C2'	55:DA:654(N):G:OP1	2.58	0.52
4:AE:60:ASN:C	4:AE:62:PRO:CD	2.67	0.52
4:AE:48:GLN:HE22	4:AE:64:LYS:HE3	1.75	0.52
31:BA:1144:G:N2	31:BA:1146:A:H62	2.08	0.52
7:DH:161:GLY:O	7:DH:163:TYR:HD1	1.93	0.52
1:AA:1254:A:H5'	1:AA:1255:U:H5'	1.92	0.52
11:DO:90:ARG:NH2	11:DO:91:PHE:HB3	2.25	0.52
31:BA:960:U:O4	31:BA:1225:A:H1'	2.10	0.52
52:CD:18:G:HO2'	52:CD:19:G:P	2.33	0.52
43:CP:15:VAL:HG12	43:CP:19:LEU:HD21	1.92	0.52
6:DG:6:ALA:CB	26:D4:23:GLU:HG3	2.39	0.52
31:BA:794:A:C2	31:BA:795:C:C2	2.98	0.52
11:DO:29:LYS:HD2	11:DO:30:THR:HG22	1.91	0.52
1:AA:2646:C:H6	1:AA:2646:C:O5'	1.93	0.52
37:BJ:18:TYR:CE2	37:BJ:59:LEU:HB2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:37:VAL:HG23	21:AV:38:TYR:N	2.25	0.52
1:AA:483:A:H3'	1:AA:484:C:H6	1.74	0.52
30:D8:56:GLU:N	30:D8:56:GLU:OE1	2.43	0.52
15:DR:110:ILE:HG22	15:DR:111:ARG:NH1	2.24	0.52
25:AX:4:LEU:CD2	25:AX:56:VAL:HG13	2.39	0.52
1:AA:2688:U:O2	1:AA:2688:U:H3'	2.10	0.52
31:BA:338:A:H61	31:BA:351:G:H1	1.58	0.52
11:AO:101:VAL:HG13	11:AO:102:ARG:N	2.25	0.52
11:AO:148:LEU:N	11:AO:148:LEU:HD23	2.24	0.52
54:CA:723:U:OP1	53:C1:37:G:O2'	2.28	0.52
31:BA:1453:G:H3'	50:BW:39:LYS:NZ	2.23	0.52
6:DG:16:ARG:CG	6:DG:16:ARG:HH11	2.15	0.52
43:BP:70:LEU:HD13	43:BP:71:ARG:H	1.73	0.52
55:DA:1048:A:C5	55:DA:1049:C:C5	2.98	0.52
33:BF:16:ARG:HH11	33:BF:16:ARG:HA	1.74	0.52
33:BF:57:ILE:HG23	33:BF:64:VAL:HG13	1.92	0.52
42:CO:28:LYS:C	42:CO:30:ALA:N	2.61	0.52
42:CO:33:ARG:HE	42:CO:33:ARG:HA	1.74	0.52
5:AF:46:ARG:HG2	5:AF:46:ARG:NH1	2.18	0.52
36:CI:42:GLU:O	36:CI:44:GLY:N	2.43	0.52
54:CA:1151:A:H1'	40:CM:39:PRO:CB	2.39	0.52
5:DF:129:PHE:O	5:DF:142:TRP:CD1	2.63	0.52
1:AA:527:C:O2	1:AA:2779:U:C5	2.63	0.52
55:DA:1936:A:H4'	55:DA:1937:A:OP2	2.08	0.52
14:AQ:11:LYS:CD	14:AQ:15:ARG:HH21	2.23	0.52
55:DA:2723:C:H5''	13:D0:1:MET:CG	2.40	0.52
22:A3:72:ARG:NH1	22:A3:72:ARG:HG3	2.22	0.52
54:CA:640:A:O2'	38:CK:115:SER:HB3	2.09	0.52
52:CB:10:G:O2'	52:CB:11:C:OP1	2.28	0.52
1:AA:2461:C:H2'	1:AA:2462:U:H6	1.74	0.52
1:AA:1114:G:H2'	1:AA:1115:G:C8	2.44	0.52
31:BA:1064:G:O2'	31:BA:1190:G:N2	2.42	0.52
31:BA:389:A:H3'	31:BA:390:C:H6	1.74	0.52
19:AT:64:LYS:HZ3	19:AT:73:ARG:NH2	2.08	0.52
36:CI:79:LEU:O	36:CI:85:VAL:HG11	2.10	0.52
52:BB:46:G:H5''	52:BB:47:U:OP2	2.10	0.52
5:DF:155:LEU:HD13	5:DF:174:VAL:HG22	1.92	0.52
1:AA:691:C:H2'	1:AA:692:C:H6	1.74	0.52
48:BU:30:ASP:C	48:BU:32:ARG:H	2.13	0.52
2:AB:27:C:C4	2:AB:28:C:C4	2.98	0.52
55:DA:440:G:H2'	55:DA:441:U:H6	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1838:C:H5'	1:AA:1839:G:OP1	2.09	0.52
1:AA:58:G:H2'	1:AA:59:U:C6	2.45	0.52
31:BA:641:U:H4'	31:BA:642:A:OP1	2.10	0.52
38:BK:38:ILE:HD11	38:BK:118:VAL:O	2.10	0.52
3:AD:122:ASP:OD1	3:AD:123:ALA:N	2.42	0.52
15:AR:12:SER:C	15:AR:14:TYR:H	2.13	0.52
55:DA:1103:A:H5'	55:DA:1103:A:C8	2.44	0.52
58:DL:144:VAL:O	58:DL:145:LYS:HB2	2.09	0.52
1:AA:384:U:O2'	1:AA:385:C:H5'	2.06	0.52
12:AP:89:ASN:ND2	12:AP:89:ASN:N	2.54	0.52
54:CA:74:C:C4	54:CA:75:C:C5	2.98	0.52
26:A4:35:VAL:C	26:A4:37:SER:N	2.59	0.52
51:BX:9:ARG:NH2	51:BX:10:ARG:HE	2.07	0.52
23:DZ:70:VAL:O	23:DZ:74:VAL:HG23	2.10	0.52
27:D5:51:TYR:O	27:D5:56:LYS:HE2	2.09	0.52
49:CV:83:HIS:O	49:CV:85:LYS:N	2.43	0.52
28:D6:41:PRO:HG3	28:D6:47:THR:OG1	2.10	0.52
1:AA:2612:C:C5	1:AA:2613:U:C5	2.97	0.52
31:BA:436:C:H2'	31:BA:437:U:C6	2.45	0.52
4:AE:47:VAL:HG12	4:AE:48:GLN:N	2.22	0.52
9:DM:6:PRO:CG	9:DM:41:ASP:HB2	2.40	0.52
7:DH:143:GLN:HE22	7:DH:147:ASN:ND2	2.04	0.52
50:CW:35:THR:O	50:CW:38:LYS:HB2	2.09	0.52
32:CE:163:PHE:HD2	32:CE:185:ILE:HG13	1.75	0.52
32:CE:44:LEU:N	32:CE:44:LEU:HD12	2.24	0.52
4:DE:14:ILE:O	4:DE:15:PHE:HB2	2.08	0.52
35:BH:9:LYS:CB	35:BH:112:LEU:HD11	2.40	0.52
1:AA:1024:G:C6	1:AA:1025:G:C6	2.98	0.52
9:AM:30:ILE:HG22	9:AM:34:LEU:HD23	1.90	0.52
8:AK:101:LEU:HG	8:AK:109:ILE:CD1	2.35	0.52
38:CK:85:ARG:HD3	38:CK:88:LYS:HG2	1.92	0.52
38:CK:85:ARG:NE	38:CK:87:SER:O	2.43	0.52
1:AA:332:A:H4'	1:AA:333:G:OP1	2.10	0.52
32:BE:216:SER:C	32:BE:218:ALA:H	2.12	0.52
5:AF:164:ARG:HG2	5:AF:164:ARG:HH11	1.74	0.52
1:AA:1427:A:OP1	1:AA:1427:A:H8	1.93	0.52
37:CJ:115:ARG:HB2	37:CJ:118:VAL:HG13	1.91	0.52
54:CA:817:C:H1'	54:CA:819:A:H5'	1.91	0.52
12:AP:32:TYR:CZ	12:AP:111:GLU:HB2	2.45	0.52
42:BO:55:VAL:HG13	42:BO:68:ALA:O	2.08	0.52
42:BO:60:LEU:HD21	42:BO:66:VAL:HG23	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BB:11:C:O5'	52:BB:11:C:H6	1.93	0.52
41:CN:48:ILE:HD11	41:CN:64:ALA:HA	1.92	0.52
5:DF:89:VAL:HG12	5:DF:90:PHE:N	2.25	0.52
32:CE:67:THR:HG21	32:CE:155:LEU:CD1	2.39	0.52
1:AA:2468:G:C2'	1:AA:2469:A:H5''	2.40	0.52
1:AA:753:C:H2'	1:AA:754:C:H6	1.75	0.52
42:CO:38:THR:HG23	42:CO:57:LYS:HB3	1.92	0.52
19:DT:44:GLU:HB3	19:DT:49:VAL:O	2.09	0.52
55:DA:1936:A:C2	55:DA:1945:G:C6	2.98	0.52
11:DO:39:LYS:HA	11:DO:45:LEU:HD13	1.91	0.52
54:CA:67:C:H2'	54:CA:68:G:H8	1.71	0.52
35:CH:10:MET:HB2	35:CH:32:VAL:HG22	1.91	0.52
52:CD:1:G:H2'	52:CD:2:C:OP1	2.10	0.52
1:AA:1654:A:H2	4:AE:113:PHE:CD2	2.28	0.52
1:AA:1856:G:H2'	1:AA:1857:G:C5'	2.40	0.52
54:CA:297:G:H4'	54:CA:557:G:H4'	1.91	0.52
54:CA:644:G:C4'	38:CK:92:ARG:HH21	2.21	0.52
10:DN:5:GLN:O	10:DN:20:MET:HE2	2.08	0.52
19:DT:3:THR:HG22	19:DT:6:ASP:OD2	2.09	0.52
13:D0:1:MET:O	13:D0:2:ARG:CB	2.57	0.52
45:BR:64:ARG:HH12	45:BR:68:ARG:HH21	1.57	0.52
55:DA:606:U:H4'	55:DA:658:C:H4'	1.92	0.52
37:CJ:38:LEU:O	37:CJ:42:ILE:HG13	2.09	0.52
14:AQ:78:LEU:HD11	14:AQ:107:GLU:HG3	1.92	0.52
13:A0:104:ARG:HH11	13:A0:104:ARG:CB	2.23	0.52
1:AA:839:U:H2'	1:AA:840:C:C6	2.45	0.52
31:BA:966:G:C2	52:BC:34:G:H5'	2.45	0.52
55:DA:782:A:H4'	55:DA:783:A:O5'	2.10	0.52
37:CJ:87:VAL:CG2	37:CJ:154:TYR:HB2	2.40	0.52
23:DZ:80:LEU:N	23:DZ:80:LEU:HD13	2.25	0.52
42:BO:18:VAL:O	42:BO:19:ARG:HB3	2.10	0.52
24:DW:28:LYS:NZ	24:DW:56:GLN:NE2	2.58	0.52
1:AA:2112:G:O2'	1:AA:2113:U:H5''	2.10	0.52
55:DA:286:C:O2'	55:DA:287:C:H5'	2.10	0.52
6:DG:33:ARG:O	6:DG:162:THR:HG23	2.10	0.52
18:AS:47:VAL:O	18:AS:50:VAL:HG12	2.10	0.52
34:BG:128:VAL:HG12	34:BG:129:ASN:HD22	1.74	0.52
55:DA:90:U:H1'	55:DA:91:A:C8	2.44	0.52
7:DH:26:VAL:O	7:DH:27:LYS:O	2.28	0.52
1:AA:2238:G:H5''	1:AA:2239:G:OP1	2.10	0.52
1:AA:1488:G:H5'	1:AA:1489:U:OP2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:288:A:H2'	54:CA:289:G:H4'	1.91	0.52
1:AA:1833:U:O2'	1:AA:1969:A:N1	2.39	0.52
55:DA:911:A:H2'	12:DP:9:TYR:OH	2.10	0.52
56:DI:29:GLU:CD	56:DJ:6:GLU:CD	2.68	0.52
1:AA:2393:A:OP2	30:A8:30:ARG:HB2	2.10	0.52
1:AA:389:G:O6	11:AO:70:GLN:HB3	2.10	0.52
1:AA:956:G:C5'	1:AA:957:A:OP2	2.58	0.52
21:DV:185:GLU:OE1	21:DV:185:GLU:HA	2.09	0.52
54:CA:629:G:H5'	54:CA:630:G:OP2	2.07	0.52
46:CS:8:ARG:NH2	46:CS:15:PRO:HG3	2.24	0.52
3:DD:69:ARG:HD3	3:DD:105:ILE:CD1	2.37	0.52
20:DU:47:LYS:HG2	20:DU:60:PHE:CD1	2.45	0.52
8:AK:82:ARG:CD	8:AK:146:ALA:HB2	2.40	0.52
8:DK:110:ASP:HB3	8:DK:112:LYS:HG3	1.92	0.52
17:A2:70:ILE:O	17:A2:71:LEU:CB	2.57	0.52
1:AA:2786:U:O4'	4:AE:64:LYS:HA	2.09	0.52
31:BA:1127:G:N2	31:BA:1145:C:C2	2.78	0.52
31:BA:1256:A:H62	31:BA:1278:U:H6	1.58	0.52
54:CA:1128:C:H1'	54:CA:1146:A:H61	1.75	0.52
11:DO:85:LEU:HA	11:DO:88:LEU:CD2	2.34	0.52
1:AA:674:G:H1'	5:AF:74:ARG:CD	2.28	0.52
52:CD:61:C:H2'	52:CD:62:C:C6	2.45	0.52
26:D4:42:PHE:O	26:D4:44:THR:N	2.38	0.52
54:CA:1161:C:H2'	54:CA:1162:C:C6	2.45	0.52
9:AM:103:VAL:O	9:AM:106:MET:N	2.37	0.52
38:CK:6:ILE:CD1	38:CK:6:ILE:H	2.20	0.52
1:AA:1209:G:O3'	1:AA:1212:G:H5'	2.09	0.52
1:AA:1668:A:H2'	1:AA:1674:G:N7	2.25	0.52
1:AA:654(R):C:C2	1:AA:654(S):G:C8	2.98	0.52
32:BE:162:ILE:O	32:BE:185:ILE:HG12	2.10	0.52
32:BE:5:ILE:HD13	32:BE:55:PHE:HB3	1.92	0.52
32:BE:5:ILE:O	32:BE:6:THR:HG22	2.09	0.52
11:DO:103:ALA:HB3	11:DO:105:LEU:CD1	2.39	0.52
3:AD:35:LYS:HA	3:AD:64:ILE:CG2	2.40	0.52
3:AD:35:LYS:CG	3:AD:64:ILE:N	2.63	0.52
54:CA:191(B):G:O2'	54:CA:191(C):G:H5'	2.09	0.52
55:DA:84:A:N6	55:DA:102:G:H1'	2.24	0.52
53:B1:36:G:H2'	53:B1:37:G:C5'	2.31	0.52
35:CH:78:HIS:HE1	35:CH:143:ARG:H	1.56	0.52
55:DA:30:G:H2'	55:DA:31:C:C6	2.44	0.52
1:AA:1055:G:H2'	1:AA:1056:G:C5'	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:859:G:C2'	55:DA:860:U:OP2	2.57	0.52
10:AN:104:ARG:CB	10:AN:104:ARG:HH11	2.17	0.52
4:AE:129:HIS:O	4:AE:130:GLY:C	2.48	0.52
50:BW:50:GLU:HG3	50:BW:51:GLU:H	1.75	0.52
55:DA:686:G:O6	29:D7:12:ARG:NH1	2.40	0.52
34:CG:49:ARG:O	34:CG:50:ARG:C	2.48	0.52
1:AA:2320:A:H61	1:AA:2333:A:H2'	1.74	0.52
12:DP:2:LEU:O	12:DP:3:MET:C	2.49	0.52
2:DB:30:C:N3	2:DB:31:C:H1'	2.25	0.52
2:DB:31:C:C2	2:DB:32:C:C5	2.98	0.52
55:DA:1800:C:OP1	3:DD:266:SER:OG	2.27	0.52
7:AH:86:GLU:HA	7:AH:132:ARG:CB	2.37	0.52
50:BW:29:LYS:O	50:BW:33:ILE:HG12	2.09	0.52
17:A2:47:VAL:O	17:A2:47:VAL:HG22	2.10	0.52
54:CA:595:G:N1	54:CA:641:U:H2'	2.24	0.52
35:CH:12:LEU:HD23	35:CH:13:ILE:H	1.74	0.52
3:AD:130:ALA:HB2	3:AD:192:THR:HB	1.92	0.52
1:AA:1494:A:H2'	1:AA:1495:A:H8	1.75	0.52
18:AS:73:ALA:HB3	18:AS:106:ILE:CG1	2.36	0.52
35:CH:153:LYS:NZ	35:CH:153:LYS:HB2	2.25	0.52
1:AA:1248:G:H2'	16:A1:3:ARG:HA	1.90	0.52
28:A6:31:PRO:HB2	28:A6:33:LYS:CG	2.38	0.52
34:BG:190:ASP:C	34:BG:192:GLU:N	2.63	0.52
54:CA:262:A:H2'	54:CA:263:A:C8	2.45	0.52
54:CA:563:A:H1'	54:CA:566:G:O2'	2.10	0.52
31:BA:812:C:O2'	31:BA:813:U:OP2	2.27	0.52
55:DA:2331:G:O3'	22:D3:43:THR:HG22	2.09	0.52
36:BI:2:ARG:O	36:BI:66:GLU:HA	2.10	0.52
1:AA:1278:A:H4'	13:A0:34:ILE:CD1	2.40	0.52
34:BG:173:TRP:O	34:BG:186:LEU:HB2	2.09	0.52
24:AW:31:GLU:O	24:AW:34:GLU:HB2	2.10	0.52
52:BB:24:G:H2'	52:BB:24:G:N3	2.25	0.52
2:DB:14:U:H4'	2:DB:106:G:N2	2.25	0.52
55:DA:279:C:H2'	55:DA:280:C:H6	1.74	0.52
55:DA:457:A:H1'	55:DA:459:U:C6	2.45	0.52
18:AS:47:VAL:HA	18:AS:50:VAL:HG12	1.92	0.52
43:BP:56:LEU:HD13	43:BP:56:LEU:C	2.29	0.52
31:BA:92:G:H2'	31:BA:93:U:O4'	2.10	0.52
6:DG:136:ARG:O	6:DG:137:GLU:C	2.47	0.52
52:CC:72:C:H2'	52:CC:73:A:H5'	1.92	0.52
54:CA:707:C:O2'	54:CA:708:C:H5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BK:127:LEU:H	38:BK:127:LEU:HD22	1.75	0.52
3:AD:171:ASP:O	3:AD:187:GLY:N	2.41	0.52
44:BQ:44:LEU:HD12	44:BQ:44:LEU:C	2.29	0.52
55:DA:2243:U:H2'	55:DA:2244:U:C6	2.45	0.52
55:DA:2155:G:H2'	55:DA:2156:G:O4'	2.10	0.52
56:DJ:18:LEU:O	56:DJ:20:LEU:N	2.43	0.52
56:DJ:19:GLU:O	56:DJ:23:LEU:HB2	2.09	0.52
52:BB:55:U:H2'	52:BB:57:G:OP2	2.10	0.52
1:AA:2348:U:O4	1:AA:2382:G:C2	2.63	0.52
54:CA:529:G:O6	42:CO:49:ASN:HA	2.10	0.52
6:AG:64:THR:OG1	6:AG:94:LEU:HD13	2.10	0.52
43:BP:34:LEU:O	43:BP:38:GLY:N	2.43	0.52
40:BM:30:SER:O	40:BM:81:THR:HG22	2.10	0.52
57:DY:144:ALA:HB1	57:DY:145:PRO:CD	2.10	0.52
54:CA:947:G:H2'	54:CA:948:C:C6	2.45	0.52
44:CQ:40:CYS:N	44:CQ:43:CYS:SG	2.83	0.52
4:DE:34:VAL:O	4:DE:35:GLN:HB2	2.09	0.52
55:DA:2787:C:C1'	4:DE:62:PRO:HD3	2.34	0.52
8:AK:82:ARG:NH1	8:AK:146:ALA:HB2	2.25	0.52
54:CA:547:A:C4'	54:CA:548:G:O5'	2.34	0.52
1:AA:1341:U:O2	19:AT:80:ILE:HD13	2.10	0.52
1:AA:1462:C:H4'	1:AA:2703:C:H5'	1.91	0.52
50:CW:23:ARG:CA	50:CW:26:ASN:HD21	2.19	0.52
32:CE:194:PRO:HG2	32:CE:195:ASP:H	1.75	0.52
14:DQ:60:GLY:O	14:DQ:61:ASN:CB	2.58	0.52
32:CE:239:VAL:HG12	32:CE:240:GLN:CD	2.30	0.52
6:DG:166:ASP:HA	6:DG:169:ALA:HB3	1.92	0.52
8:DK:79:ILE:HB	8:DK:141:LYS:O	2.09	0.52
54:CA:1157:A:H62	54:CA:1178:G:N2	2.08	0.52
1:AA:84:A:N6	1:AA:102:G:C2'	2.71	0.52
31:BA:1151:A:H2'	31:BA:1152:A:H8	1.75	0.52
14:DQ:7:TYR:CE2	14:DQ:91:PRO:HG3	2.44	0.52
1:AA:138:G:H22	19:AT:44:GLU:CD	2.13	0.52
55:DA:917:A:O4'	55:DA:917:A:N3	2.43	0.52
50:BW:48:LYS:HD2	50:BW:51:GLU:OE2	2.09	0.52
50:BW:51:GLU:O	50:BW:55:ILE:HG12	2.10	0.52
31:BA:518:C:H5''	31:BA:519:C:O5'	2.10	0.52
34:CG:47:ARG:HH21	53:C1:57:U:H5	1.52	0.52
31:BA:1067:A:O2'	31:BA:1068:G:P	2.68	0.52
31:BA:197:A:C6	31:BA:221:C:C4'	2.93	0.52
7:AH:86:GLU:O	7:AH:87:LEU:CB	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:680:C:H2'	31:BA:681:C:H6	1.76	0.52
40:CM:70:ARG:HG3	40:CM:70:ARG:HH11	1.75	0.52
55:DA:2653:U:H2'	55:DA:2654:A:C8	2.44	0.52
1:AA:1536:A:OP1	1:AA:1537:C:N4	2.43	0.52
38:BK:100:ILE:HD12	38:BK:125:ARG:HG3	1.91	0.52
54:CA:428:G:O2'	54:CA:429:U:OP2	2.26	0.52
34:CG:9:CYS:O	34:CG:13:ARG:HG2	2.10	0.52
31:BA:452:A:O2'	46:BS:72:ARG:HG3	2.09	0.52
31:BA:737:A:O2'	36:BI:72:VAL:CG1	2.58	0.52
48:BU:44:LEU:N	48:BU:44:LEU:HD12	2.25	0.52
1:AA:1328:G:H2'	1:AA:1330:C:C5	2.45	0.52
1:AA:999:U:O2'	1:AA:1000:A:H5''	2.10	0.52
7:AH:89:ILE:CD1	7:AH:129:THR:HB	2.37	0.52
1:AA:2839:G:C5'	13:A0:46:GLY:HA2	2.40	0.52
13:D0:81:ASP:O	13:D0:82:GLU:HG2	2.10	0.52
7:DH:10:PRO:O	7:DH:11:VAL:CG1	2.56	0.52
11:AO:49:ARG:HD2	30:A8:58:ILE:HG22	1.91	0.52
39:CL:95:LYS:HD3	39:CL:96:LEU:N	2.24	0.52
12:DP:109:VAL:HG13	12:DP:110:THR:N	2.23	0.52
46:CS:68:ASP:C	46:CS:70:ALA:N	2.63	0.52
40:BM:12:ASP:HB3	40:BM:15:THR:CG2	2.39	0.52
2:AB:113:C:H2'	2:AB:114:G:C8	2.45	0.52
34:BG:173:TRP:NE1	34:BG:174:LEU:HG	2.25	0.52
4:AE:171:GLU:HG2	4:AE:185:LYS:CG	2.41	0.52
25:AX:48:GLU:HA	25:AX:51:ALA:HB2	1.92	0.52
18:DS:82:LEU:H	18:DS:82:LEU:HD12	1.74	0.52
2:DB:25:A:H2'	2:DB:26:A:O4'	2.10	0.52
37:CJ:91:VAL:HB	37:CJ:96:GLN:HG2	1.91	0.52
54:CA:313:A:H2'	54:CA:314:C:H6	1.73	0.52
37:CJ:26:PHE:CE2	37:CJ:30:ILE:HD11	2.45	0.52
1:AA:239:U:H2'	1:AA:240:G:O4'	2.10	0.52
31:BA:433:C:O2'	31:BA:434:U:H5'	2.09	0.52
27:A5:42:PRO:O	27:A5:44:THR:HG23	2.10	0.52
31:BA:261:U:OP2	50:BW:79:ARG:NH2	2.43	0.52
6:AG:74:LYS:O	6:AG:84:LYS:HD3	2.09	0.52
55:DA:489:G:N2	55:DA:1321:A:OP1	2.43	0.52
54:CA:1123:A:H4'	40:CM:36:GLY:HA3	1.91	0.52
21:DV:35:ARG:NH1	21:DV:35:ARG:HB3	2.25	0.52
55:DA:1079:C:H2'	55:DA:1080:A:C8	2.45	0.51
56:DJ:24:ILE:HG22	56:DJ:25:ASP:H	1.75	0.51
58:DL:47:ASN:O	58:DL:48:MET:CB	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:95:LYS:O	58:DL:96:VAL:C	2.49	0.51
57:DY:9:LEU:HD13	57:DY:10:LEU:CB	2.40	0.51
57:DY:27:VAL:CG1	57:DY:110:GLY:CA	2.81	0.51
57:DY:26:LEU:HB3	57:DY:112:LEU:HD22	1.91	0.51
57:DY:130:THR:HG22	56:DJ:14:GLN:NE2	2.12	0.51
57:DY:71:LEU:HD22	57:DY:72:ASP:CA	2.40	0.51
49:BV:11:VAL:HG21	49:BV:16:LEU:HD11	1.90	0.51
49:BV:29:ARG:O	49:BV:29:ARG:HG2	2.10	0.51
11:AO:59:LEU:CD2	11:AO:59:LEU:C	2.79	0.51
1:AA:910:A:H62	12:AP:12:GLN:HA	1.75	0.51
12:AP:2:LEU:O	12:AP:3:MET:HG2	2.10	0.51
12:AP:78:PRO:O	12:AP:79:LEU:CG	2.58	0.51
12:AP:83:MET:HB3	22:A3:8:GLY:HA2	1.91	0.51
54:CA:632:A:H8	54:CA:633:G:C8	2.28	0.51
46:CS:8:ARG:C	46:CS:9:PHE:HD2	2.12	0.51
6:AG:101:ILE:O	6:AG:105:LYS:HG3	2.10	0.51
31:BA:1326:C:H2'	31:BA:1327:C:H6	1.74	0.51
30:A8:63:PRO:O	30:A8:64:TYR:O	2.27	0.51
54:CA:1005:A:H5''	54:CA:1006:C:C6	2.44	0.51
20:DU:48:ALA:H	20:DU:60:PHE:HA	1.75	0.51
8:DK:110:ASP:HB2	8:DK:111:PRO:CA	2.40	0.51
1:AA:1924:C:H2'	1:AA:1925:C:C1'	2.40	0.51
1:AA:2552:U:C2	1:AA:2554:U:H5'	2.46	0.51
31:BA:438:G:H4'	34:BG:123:HIS:CE1	2.45	0.51
31:BA:438:G:OP1	34:BG:151:LYS:HE2	2.10	0.51
7:DH:153:LYS:CB	7:DH:154:PRO:CD	2.72	0.51
1:AA:1033:U:O2	1:AA:2750:A:H2	1.93	0.51
54:CA:1128:C:O2'	54:CA:1130:A:C8	2.63	0.51
53:C1:52:U:H2'	53:C1:53:U:H5'	1.92	0.51
8:DK:127:VAL:HG13	8:DK:139:GLN:HB3	1.92	0.51
55:DA:1331:A:H2'	55:DA:1333:C:C5	2.45	0.51
1:AA:99:U:H1'	1:AA:102:G:N3	2.25	0.51
27:D5:40:LYS:CB	27:D5:46:CYS:SG	2.97	0.51
52:CB:74:C:O2'	52:CB:75:C:C6	2.64	0.51
31:BA:869:G:H4'	31:BA:872:A:H1'	1.92	0.51
39:CL:79:LEU:CD1	39:CL:83:ARG:HD2	2.39	0.51
32:BE:12:GLU:O	32:BE:15:VAL:N	2.42	0.51
32:BE:187:LEU:HD11	32:BE:204:ASN:O	2.09	0.51
32:BE:30:ARG:HB2	32:BE:46:LYS:NZ	2.25	0.51
52:CC:54:U:H2'	52:CC:55:U:O4'	2.09	0.51
14:DQ:26:LEU:HG	14:DQ:39:ILE:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:192:U:O2'	54:CA:193:C:H5'	2.10	0.51
2:DB:40:U:C2	2:DB:43:C:OP2	2.63	0.51
3:AD:111:LEU:HD13	3:AD:112:GLN:N	2.25	0.51
54:CA:685:G:N2	54:CA:686:U:N3	2.58	0.51
9:AM:137:LYS:NZ	9:AM:138:LEU:HD23	2.24	0.51
10:AN:47:ILE:O	10:AN:48:PRO:C	2.48	0.51
31:BA:4:U:H3	38:BK:102:ARG:NH1	2.07	0.51
5:DF:118:ALA:HA	5:DF:123:LEU:HB3	1.92	0.51
36:BI:6:VAL:CG1	36:BI:8:ILE:HD11	2.34	0.51
37:BJ:22:LEU:HG	37:BJ:62:PHE:CE2	2.41	0.51
31:BA:1067:A:N3	31:BA:1068:G:H1'	2.25	0.51
19:DT:12:VAL:O	19:DT:12:VAL:HG13	2.10	0.51
33:BF:62:ASP:C	33:BF:97:LYS:HB2	2.30	0.51
38:CK:12:ARG:NH1	38:CK:27:PRO:CD	2.71	0.51
55:DA:1599:C:OP1	19:DT:36:LYS:HG3	2.10	0.51
1:AA:440:G:H2'	1:AA:441:U:C6	2.45	0.51
27:A5:40:LYS:HZ2	27:A5:45:VAL:CA	2.22	0.51
43:CP:115:LYS:O	43:CP:117:VAL:CG1	2.58	0.51
6:AG:16:ARG:NE	6:AG:31:VAL:HG11	2.25	0.51
34:BG:150:GLU:N	34:BG:150:GLU:OE2	2.42	0.51
31:BA:373:A:O2'	31:BA:374:A:H5'	2.10	0.51
1:AA:524:U:H2'	1:AA:525:U:C6	2.46	0.51
1:AA:1915:U:O4	31:BA:1409:C:H4'	2.10	0.51
31:BA:451:A:H1'	31:BA:452:A:N7	2.24	0.51
31:BA:209:U:O2'	31:BA:210:U:OP2	2.25	0.51
1:AA:1856:G:O2'	1:AA:1857:G:H5'	2.10	0.51
31:BA:817:C:H4'	31:BA:818:G:OP1	2.09	0.51
1:AA:1729:A:C6	1:AA:1731:G:N7	2.78	0.51
55:DA:2423:U:O2'	55:DA:2425:A:H2'	2.09	0.51
33:CF:21:ARG:CD	33:CF:21:ARG:N	2.72	0.51
1:AA:404:C:H1'	1:AA:406:G:N7	2.24	0.51
33:CF:82:GLU:O	33:CF:86:VAL:HG13	2.09	0.51
33:CF:45:LYS:HB2	33:CF:45:LYS:NZ	2.25	0.51
4:AE:110:GLY:HA3	4:AE:162:ALA:HB2	1.91	0.51
32:BE:98:LEU:HB2	32:BE:101:MET:HE1	1.92	0.51
54:CA:652:U:O4	54:CA:752:G:H2'	2.09	0.51
8:AK:72:LEU:O	8:AK:74:ASN:N	2.37	0.51
47:BT:65:ILE:O	47:BT:66:SER:HB3	2.11	0.51
8:AK:53:ALA:O	8:AK:56:LYS:HG3	2.11	0.51
31:BA:1104:G:O2'	31:BA:1105:A:H5'	2.10	0.51
12:AP:68:ILE:HD13	12:AP:103:MET:CG	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2119:A:N1	1:AA:2171:A:H1'	2.24	0.51
32:BE:195:ASP:C	32:BE:197:VAL:H	2.13	0.51
55:DA:287:C:O2'	55:DA:288:C:H5'	2.09	0.51
8:DK:82:ARG:NH1	8:DK:82:ARG:HG3	2.24	0.51
1:AA:2162:G:H2'	1:AA:2163:C:C6	2.44	0.51
55:DA:2019:A:H2'	55:DA:2020:A:O5'	2.11	0.51
54:CA:1262:C:H2'	54:CA:1263:C:H6	1.74	0.51
7:DH:42:ARG:HG3	7:DH:42:ARG:O	2.09	0.51
36:CI:30:LEU:HB3	36:CI:35:ALA:HB3	1.92	0.51
9:AM:11:PRO:HB2	9:AM:51:PHE:HE1	1.74	0.51
40:BM:65:LEU:HD23	40:BM:65:LEU:O	2.11	0.51
21:AV:10:ARG:O	21:AV:36:LYS:HB2	2.10	0.51
54:CA:1342:C:H2'	54:CA:1343:G:H8	1.74	0.51
1:AA:1837:C:OP1	31:BA:784:C:H4'	2.10	0.51
41:BN:98:LEU:HA	41:BN:101:SER:HB3	1.91	0.51
31:BA:123:C:OP1	31:BA:312:C:H5'	2.10	0.51
55:DA:1418:G:H8	55:DA:1418:G:O5'	1.92	0.51
1:AA:1585:C:O2	1:AA:1585:C:H2'	2.08	0.51
1:AA:547:A:H2'	1:AA:548:A:C8	2.45	0.51
37:CJ:151:TYR:HA	37:CJ:153:HIS:CE1	2.45	0.51
55:DA:1086:A:H5'	55:DA:1103:A:N6	2.18	0.51
56:DI:23:LEU:C	56:DI:27:LEU:HD12	2.28	0.51
57:DY:90:ALA:HB3	56:DJ:15:ALA:N	2.25	0.51
57:DY:19:ARG:HH22	57:DY:84:GLU:CD	2.14	0.51
57:DY:93:LEU:HG	57:DY:126:ALA:CA	2.40	0.51
57:DY:93:LEU:HD13	57:DY:97:ALA:O	2.08	0.51
11:AO:56:SER:O	11:AO:57:THR:CB	2.58	0.51
11:AO:59:LEU:C	11:AO:59:LEU:HD23	2.30	0.51
1:AA:858:U:O2'	1:AA:2268:A:C2'	2.58	0.51
1:AA:197:A:H62	1:AA:2430:A:H2'	1.75	0.51
12:AP:17:LEU:HD21	12:AP:41:TRP:NE1	2.25	0.51
55:DA:1899:G:H22	55:DA:1902:C:H41	0.62	0.51
21:DV:105:VAL:CG1	21:DV:140:ASP:CB	2.83	0.51
54:CA:628:G:N2	54:CA:629:G:C4	2.79	0.51
3:DD:35:LYS:HA	3:DD:64:ILE:HG22	1.90	0.51
3:DD:65:ILE:N	3:DD:65:ILE:HD13	2.25	0.51
2:AB:38:C:O2	2:AB:48:A:H1'	2.10	0.51
6:AG:41:GLN:NE2	6:AG:60:LEU:HD12	2.25	0.51
54:CA:1305:G:N2	54:CA:1331:G:C2'	2.69	0.51
40:BM:33:GLN:O	40:BM:75:ILE:HG23	2.09	0.51
30:A8:50:LEU:CD1	30:A8:54:GLU:CA	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:142:LEU:CD1	57:DY:143:GLN:HG2	2.40	0.51
57:DY:143:GLN:O	57:DY:144:ALA:O	2.28	0.51
8:AK:82:ARG:CG	8:AK:82:ARG:HH11	2.23	0.51
30:D8:35:GLN:HE21	30:D8:35:GLN:CA	2.22	0.51
1:AA:2785:C:H2'	1:AA:2786:U:C6	2.44	0.51
4:AE:73:GLU:HG2	4:AE:74:PRO:HD2	1.92	0.51
22:D3:63:VAL:HG23	22:D3:64:ASP:O	2.10	0.51
39:BL:3:GLN:NE2	39:BL:20:ARG:NH2	2.57	0.51
32:CE:216:SER:O	32:CE:218:ALA:N	2.44	0.51
31:BA:1491:G:O3'	42:BO:46:LYS:HB2	2.10	0.51
11:DO:30:THR:O	11:DO:31:ALA:HB3	2.10	0.51
21:AV:30:ASN:HB3	21:AV:90:VAL:HB	1.91	0.51
20:AU:27:VAL:HA	20:AU:39:VAL:HG12	1.91	0.51
5:AF:18:ARG:CG	5:AF:19:GLU:H	2.22	0.51
55:DA:2310:A:N6	6:DG:79:ASN:HD22	2.07	0.51
19:AT:21:PHE:O	19:AT:23:GLU:N	2.43	0.51
55:DA:2060:A:H4'	55:DA:2061:G:OP2	2.10	0.51
53:B1:34:G:H2'	53:B1:35:A:H8	1.75	0.51
32:CE:139:LYS:N	32:CE:139:LYS:HD2	2.25	0.51
54:CA:687:A:C6	54:CA:704:A:N7	2.79	0.51
41:CN:27:ASN:OD1	41:CN:55:LYS:HB3	2.10	0.51
12:AP:31:ASP:HA	12:AP:134:ARG:HD2	1.92	0.51
26:D4:47:GLN:O	26:D4:48:ARG:HB2	2.11	0.51
33:BF:53:ALA:HB1	33:BF:114:PRO:HB2	1.91	0.51
32:CE:160:ASP:O	32:CE:183:PRO:HD2	2.10	0.51
34:CG:116:GLN:HE22	34:CG:157:LEU:HD11	1.74	0.51
1:AA:662:G:H5'	11:AO:15:ARG:CA	2.37	0.51
55:DA:725:G:C6	55:DA:726:G:N1	2.78	0.51
31:BA:652:U:O2'	31:BA:653:A:H5''	2.10	0.51
52:BC:19:G:C4	52:BC:57:G:N2	2.78	0.51
12:DP:20:ALA:HB2	12:DP:99:PRO:HD2	1.93	0.51
55:DA:2250:G:C8	55:DA:2496:C:H5''	2.46	0.51
1:AA:1773:A:C2'	1:AA:1774:C:H5'	2.39	0.51
31:BA:1236:A:H2'	31:BA:1237:C:C6	2.44	0.51
31:BA:1301:U:C2'	31:BA:1301:U:O2	2.55	0.51
35:CH:12:LEU:O	35:CH:13:ILE:HD12	2.09	0.51
1:AA:2211:G:O2'	1:AA:2212:A:P	2.68	0.51
31:BA:555:C:H2'	31:BA:556:C:C6	2.44	0.51
34:BG:110:PHE:CD1	34:BG:110:PHE:N	2.70	0.51
6:DG:41:GLN:HB3	6:DG:43:LEU:HD13	1.93	0.51
1:AA:1857:G:O2'	1:AA:1885:A:N6	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2224:G:OP1	3:DD:268:ARG:HD3	2.10	0.51
10:DN:7:TYR:CE1	10:DN:20:MET:HE3	2.38	0.51
1:AA:1271:G:C2	1:AA:1617:C:H4'	2.44	0.51
11:AO:47:ASP:HB3	11:AO:48:PRO:C	2.31	0.51
2:DB:48:A:H2'	2:DB:49:C:H6	1.70	0.51
39:CL:17:VAL:CG1	39:CL:81:ILE:HD13	2.40	0.51
33:BF:25:GLY:C	33:BF:27:LYS:N	2.59	0.51
33:CF:78:GLY:HA3	33:CF:83:ARG:HB2	1.90	0.51
47:BT:11:VAL:O	47:BT:12:SER:HB2	2.10	0.51
55:DA:1528:A:O2'	55:DA:1529:A:H5'	2.11	0.51
1:AA:2282:G:H5''	1:AA:2283:C:O4'	2.09	0.51
31:BA:1104:G:H4'	32:BE:111:ARG:HH21	1.74	0.51
6:AG:180:PHE:C	6:AG:182:LYS:N	2.63	0.51
31:BA:86:U:C2'	31:BA:87:A:OP1	2.58	0.51
55:DA:2747:G:O3'	7:DH:70:THR:HG21	2.10	0.51
38:BK:29:SER:HB3	38:BK:32:LYS:CD	2.40	0.51
31:BA:388:G:HO2'	31:BA:389:A:P	2.33	0.51
55:DA:2062:A:C2'	55:DA:2062:A:N3	2.73	0.51
19:AT:30:VAL:HG12	19:AT:31:HIS:H	1.73	0.51
5:DF:155:LEU:HD12	5:DF:174:VAL:O	2.10	0.51
1:AA:19:C:H2'	1:AA:20:C:C6	2.46	0.51
1:AA:729:G:C6	3:AD:208:LYS:HB2	2.44	0.51
55:DA:2439:A:O2'	55:DA:2440:C:OP2	2.28	0.51
1:AA:1128:A:O2'	1:AA:1129:A:O5'	2.27	0.51
54:CA:1276:G:H2'	54:CA:1277:C:C6	2.45	0.51
31:BA:101:A:O2'	31:BA:102:G:H5'	2.10	0.51
1:AA:921:G:H4'	1:AA:2269:A:C5	2.45	0.51
33:BF:126:ARG:O	33:BF:128:PHE:N	2.44	0.51
47:CT:11:VAL:HG23	47:CT:20:THR:HB	1.91	0.51
25:DX:59:VAL:CG1	25:DX:60:GLU:N	2.73	0.51
55:DA:2282:G:OP1	55:DA:2283:C:H1'	2.10	0.51
52:BB:33:U:O4'	52:BB:37:MIA:H161	2.10	0.51
54:CA:546:G:P	34:CG:72:GLU:HB3	2.49	0.51
5:AF:59:TYR:CD2	5:AF:59:TYR:N	2.74	0.51
57:DY:43:ALA:HB3	57:DY:47:ASN:CA	2.39	0.51
31:BA:1318:A:O2'	49:BV:37:ARG:HB3	2.10	0.51
28:A6:47:THR:HG23	28:A6:48:VAL:H	1.76	0.51
11:AO:64:LYS:CE	30:A8:30:ARG:CZ	2.81	0.51
1:AA:2287:A:H2	1:AA:2346:A:C2	2.28	0.51
1:AA:384:U:O2'	1:AA:385:C:C5'	2.58	0.51
12:AP:9:TYR:O	12:AP:10:ARG:HD3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:DR:26:ASP:CB	15:DR:91:ARG:HA	2.30	0.51
17:A2:1:MET:SD	17:A2:42:GLY:HA3	2.50	0.51
31:BA:543:C:OP1	34:BG:14:ARG:NE	2.43	0.51
16:D1:60:LEU:CD2	16:D1:64:ARG:HG3	2.37	0.51
55:DA:12:U:O5'	55:DA:12:U:H6	1.93	0.51
7:DH:123:PHE:HE2	7:DH:133:VAL:HG22	1.75	0.51
54:CA:1402:C:H2'	54:CA:1403:C:O4'	2.10	0.51
32:CE:55:PHE:CE1	32:CE:218:ALA:HA	2.44	0.51
31:BA:1023:G:C2'	31:BA:1024:G:OP1	2.59	0.51
11:DO:126:VAL:HG13	11:DO:145:PRO:HB2	1.92	0.51
21:DV:5:LEU:O	21:DV:5:LEU:HD13	2.10	0.51
31:BA:153:C:H2'	31:BA:154:C:H6	1.75	0.51
31:BA:1350:A:N6	31:BA:1373:G:N2	2.58	0.51
39:BL:10:ARG:NH2	39:BL:11:LYS:HB2	2.21	0.51
9:AM:26:LEU:HD23	9:AM:99:LEU:HD21	1.92	0.51
31:BA:39:G:O2'	31:BA:40:C:H5'	2.11	0.51
21:AV:8:TYR:HD1	21:AV:38:TYR:HH	1.59	0.51
1:AA:2657:A:N9	1:AA:2665:A:N6	2.59	0.51
10:AN:8:LEU:HD13	10:AN:82:ASN:O	2.10	0.51
55:DA:1535:U:N3	55:DA:1536:A:H3'	2.26	0.51
31:BA:827:U:O5'	31:BA:827:U:H6	1.93	0.51
5:AF:110:LEU:HD22	5:AF:202:PHE:HE1	1.75	0.51
5:AF:37:VAL:HA	5:AF:40:GLN:CG	2.40	0.51
32:BE:213:LEU:HD23	32:BE:213:LEU:C	2.31	0.51
32:BE:5:ILE:HA	32:BE:224:GLN:HE21	1.74	0.51
55:DA:622:G:OP2	11:DO:108:LYS:HE3	2.10	0.51
55:DA:2712:U:H3'	55:DA:2712:U:O2	2.10	0.51
19:AT:18:TYR:CA	19:AT:21:PHE:HD2	2.14	0.51
1:AA:608:A:N9	1:AA:621:A:N6	2.58	0.51
55:DA:1851:U:H2'	55:DA:1852:C:O4'	2.10	0.51
37:CJ:23:VAL:HG12	37:CJ:27:ILE:HD13	1.92	0.51
15:AR:132:LYS:HG2	15:AR:136:GLN:NE2	2.16	0.51
55:DA:921:G:H4'	55:DA:2269:A:C5	2.45	0.51
35:BH:80:ILE:HD12	35:BH:82:VAL:HG23	1.92	0.51
54:CA:1535:C:H2'	54:CA:1536:C:H5'	1.91	0.51
31:BA:1453:G:C3'	50:BW:39:LYS:HZ2	2.22	0.51
1:AA:2051:A:H8	1:AA:2051:A:OP2	1.94	0.51
55:DA:1045:A:O2'	55:DA:1047:G:C5	2.61	0.51
33:BF:11:ARG:HH11	33:BF:11:ARG:HG2	1.75	0.51
33:BF:32:LEU:O	33:BF:35:GLU:HB3	2.10	0.51
7:AH:26:VAL:HG11	7:AH:33:LEU:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:366:C:HO2'	31:BA:367:U:P	2.29	0.51
36:CI:61:LEU:HD12	36:CI:61:LEU:N	2.24	0.51
34:BG:153:ARG:HH12	34:BG:181:MET:HB2	1.75	0.51
31:BA:737:A:H5'	36:BI:90:VAL:O	2.09	0.51
7:AH:89:ILE:HG12	7:AH:90:LYS:N	2.26	0.51
54:CA:181:G:N2	54:CA:183:G:N2	2.58	0.51
55:DA:1252:G:C2	55:DA:1253:A:C2	2.98	0.51
54:CA:1296:C:C5'	54:CA:1297:C:OP2	2.54	0.51
6:AG:121:ASN:HD22	6:AG:122:PRO:N	2.08	0.51
19:AT:17:ALA:HA	19:AT:27:THR:HG21	1.93	0.51
14:AQ:106:ARG:HG2	14:AQ:110:LEU:HD11	1.92	0.51
33:CF:86:VAL:O	33:CF:90:GLU:HG2	2.11	0.51
31:BA:1095:U:H5''	31:BA:1109:C:O2	2.11	0.51
54:CA:1391:U:H2'	54:CA:1392:G:H8	1.75	0.51
48:CU:66:LEU:HD11	48:CU:70:ILE:HD11	1.92	0.51
37:CJ:76:ARG:HD3	37:CJ:156:TRP:CZ2	2.45	0.51
31:BA:177:C:H2'	31:BA:178:C:H6	1.75	0.51
55:DA:2756:U:H4'	55:DA:2757:A:O5'	2.10	0.51
32:BE:73:THR:HG22	32:BE:94:ASN:C	2.31	0.51
31:BA:766:A:H2'	31:BA:767:A:O4'	2.10	0.51
55:DA:215:G:H4'	55:DA:216:A:H4'	1.91	0.51
49:BV:80:TYR:O	49:BV:81:ARG:CB	2.59	0.51
6:AG:53:LEU:HD23	6:AG:54:GLU:N	2.24	0.51
1:AA:302:C:H2'	1:AA:303:U:H6	1.74	0.51
4:AE:107:THR:HG22	4:AE:107:THR:O	2.11	0.51
40:CM:29:ARG:HG2	40:CM:29:ARG:HH11	1.75	0.51
55:DA:2637:U:H5''	4:DE:82:ARG:HH21	1.76	0.51
54:CA:614:A:H2'	54:CA:615:C:C6	2.45	0.51
55:DA:2737:G:H2'	55:DA:2738:A:H8	1.75	0.51
29:D7:24:THR:O	29:D7:28:ARG:HG3	2.10	0.51
55:DA:847:U:H5	55:DA:933:A:C2	2.28	0.51
55:DA:355:G:O2'	55:DA:356:G:H5'	2.10	0.51
1:AA:127:A:H5''	1:AA:128:C:C6	2.45	0.51
40:CM:19:SER:O	40:CM:23:ILE:HG13	2.11	0.51
7:AH:88:LEU:HD13	7:AH:164:TYR:O	2.10	0.51
55:DA:817:C:O2'	55:DA:839:U:H5''	2.10	0.51
2:DB:73:A:H2'	2:DB:73:A:N3	2.25	0.51
6:AG:133:LEU:HD23	6:AG:133:LEU:N	2.25	0.51
58:DL:59:ILE:O	58:DL:60:TYR:CD1	2.63	0.51
58:DL:72:PRO:CD	58:DL:73:PRO:HD3	2.40	0.51
58:DL:77:LEU:HB3	58:DL:107:ILE:CG1	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:51:ALA:HB1	58:DL:79:ARG:NE	2.26	0.51
21:AV:108:PRO:HG2	21:AV:141:VAL:O	2.03	0.51
55:DA:1360:A:C2'	55:DA:1361:G:H5'	2.40	0.51
46:CS:13:HIS:C	46:CS:15:PRO:HD3	2.30	0.51
6:AG:112:PRO:CB	26:A4:37:SER:HA	2.40	0.51
55:DA:2520:C:C6	55:DA:2567:G:H1'	2.44	0.51
54:CA:951:G:O2'	54:CA:972:C:C5	2.62	0.51
46:CS:50:LYS:HD3	46:CS:50:LYS:C	2.30	0.51
14:DQ:108:GLY:O	14:DQ:110:LEU:N	2.43	0.51
1:AA:1924:C:O2'	52:BC:13:C:H4'	2.10	0.51
55:DA:2683:C:P	15:DR:53:ARG:NH2	2.82	0.51
31:BA:406:G:H2'	31:BA:407:G:H8	1.75	0.51
31:BA:409:G:H2'	31:BA:410:G:H8	1.75	0.51
34:BG:19:LEU:O	34:BG:20:TYR:C	2.48	0.51
31:BA:960:U:O2	31:BA:960:U:H2'	2.11	0.51
8:DK:127:VAL:HG22	8:DK:139:GLN:HB3	1.93	0.51
55:DA:885:C:OP1	55:DA:885:C:C4'	2.58	0.51
21:AV:6:LYS:O	21:AV:59:LEU:O	2.29	0.51
1:AA:1210:A:H5'	1:AA:1212:G:O4'	2.11	0.51
1:AA:2655:G:H2'	1:AA:2656:U:OP2	2.10	0.51
1:AA:2667:C:H1'	7:AH:109:PHE:CD2	2.45	0.51
10:AN:12:ASP:C	10:AN:12:ASP:OD2	2.48	0.51
32:BE:185:ILE:HG22	32:BE:199:TYR:HB2	1.91	0.51
13:A0:117:VAL:O	13:A0:118:GLU:HB2	2.10	0.51
46:CS:4:ILE:HD13	46:CS:66:PRO:N	2.24	0.51
30:D8:62:LEU:O	30:D8:63:PRO:C	2.48	0.51
30:D8:62:LEU:HB2	30:D8:63:PRO:HD3	1.91	0.51
25:AX:47:VAL:HG11	25:AX:56:VAL:HG21	1.93	0.51
1:AA:1799:G:H2'	3:AD:181:GLU:OE2	2.11	0.51
1:AA:654(J):A:C2	1:AA:654(L):G:N7	2.79	0.51
6:DG:146:TYR:C	6:DG:148:MET:H	2.13	0.51
22:A3:65:GLY:HA3	22:A3:81:VAL:HG12	1.92	0.51
55:DA:1558:A:HO2'	55:DA:1559:G:P	2.33	0.51
11:AO:115:LEU:CD2	11:AO:131:SER:HB2	2.40	0.51
4:AE:130:GLY:O	4:AE:131:ALA:HB2	2.10	0.51
8:AK:88:ILE:HG22	8:AK:90:GLY:H	1.76	0.51
21:DV:69:THR:HB	21:DV:88:PHE:HB3	1.92	0.51
52:BB:11:C:O2'	52:BB:12:U:H5'	2.10	0.51
21:AV:121:HIS:HB2	21:AV:171:ILE:HD13	1.92	0.51
6:DG:13:GLU:O	6:DG:14:GLU:CB	2.58	0.51
1:AA:271(C):U:H2'	1:AA:271(C):U:O2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BF:16:ARG:HH21	33:BF:183:ASP:HA	1.74	0.51
33:BF:12:LEU:HA	33:BF:16:ARG:O	2.09	0.51
1:AA:1528:A:C2	1:AA:1543:A:N1	2.78	0.51
3:DD:182:LEU:H	3:DD:272:ALA:CB	2.23	0.51
55:DA:1820:U:O2'	3:DD:201:HIS:HD2	1.93	0.51
7:AH:149:ARG:HA	7:AH:162:ILE:HG21	1.93	0.51
17:A2:4:ILE:HD13	17:A2:40:LEU:HB2	1.93	0.51
19:DT:31:HIS:CD2	19:DT:33:LYS:H	2.28	0.51
55:DA:2657:A:N9	55:DA:2665:A:N6	2.58	0.51
1:AA:1944:U:O2	1:AA:1955:U:H5''	2.10	0.51
43:CP:14:ARG:CA	43:CP:44:ARG:HA	2.37	0.51
8:DK:1:MET:HG3	8:DK:23:PRO:CB	2.41	0.51
55:DA:189:G:O6	55:DA:205:G:H2'	2.10	0.51
15:AR:29:ARG:HG2	15:AR:46:GLU:HB2	1.92	0.51
39:CL:20:ARG:O	39:CL:60:ASP:HB2	2.09	0.51
33:BF:70:VAL:HG12	33:BF:71:ALA:N	2.26	0.51
9:AM:17:ASP:O	9:AM:18:ALA:CB	2.57	0.51
55:DA:403:U:H4'	55:DA:404:C:O5'	2.10	0.51
1:AA:814:C:O2'	1:AA:815:C:H5'	2.10	0.51
3:AD:9:TYR:CD2	3:AD:10:THR:HG22	2.45	0.51
52:CB:9:A:C2	52:CB:11:C:N4	2.79	0.51
1:AA:1657:C:H2'	1:AA:1658:C:C6	2.45	0.51
55:DA:127:A:H5''	55:DA:128:C:C6	2.46	0.51
36:BI:2:ARG:O	36:BI:66:GLU:HG3	2.10	0.51
31:BA:85:U:O2	31:BA:85:U:C2'	2.58	0.51
31:BA:1402:C:O2	31:BA:1500:A:N1	2.42	0.51
52:BB:23:A:H2'	52:BB:24:G:C1'	2.40	0.51
1:AA:2064:C:H2'	1:AA:2065:C:C6	2.45	0.51
38:CK:63:LEU:HB2	38:CK:65:TYR:HE1	1.75	0.51
37:CJ:30:ILE:HD12	37:CJ:120:ILE:HD12	1.92	0.51
1:AA:2197:U:O2'	1:AA:2198:A:C8	2.58	0.51
54:CA:434:U:H2'	54:CA:435:C:C6	2.46	0.51
2:AB:58:A:H3'	2:AB:59:A:H8	1.74	0.51
15:AR:58:ASN:ND2	15:AR:58:ASN:N	2.59	0.51
54:CA:1424:C:H2'	54:CA:1425:U:H6	1.74	0.51
33:CF:126:ARG:HH11	33:CF:126:ARG:HG2	1.76	0.51
55:DA:693:C:O2'	55:DA:694:U:H5'	2.11	0.51
54:CA:895:G:H2'	54:CA:896:C:H6	1.75	0.51
54:CA:167:G:O2'	54:CA:168:G:H5'	2.11	0.51
7:DH:25:LYS:HG2	7:DH:34:GLU:HG2	1.92	0.51
55:DA:343:C:H5'	55:DA:344:G:OP2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BM:18:ALA:O	40:BM:21:GLN:HB3	2.11	0.51
37:CJ:69:VAL:O	37:CJ:69:VAL:HG12	2.11	0.51
31:BA:1267:C:H2'	31:BA:1267:C:O2	2.10	0.51
1:AA:1525:G:H2'	1:AA:1526:G:C8	2.45	0.51
27:A5:52:TYR:O	27:A5:53:ALA:HB2	2.10	0.51
55:DA:1055:G:C6	55:DA:1056:G:N7	2.79	0.51
58:DL:83:GLY:N	58:DL:99:ILE:CG2	2.56	0.51
57:DY:25:PHE:CE1	57:DY:82:PHE:CA	2.93	0.51
57:DY:89:ALA:HB3	56:DJ:15:ALA:CA	2.32	0.51
57:DY:92:THR:CG2	57:DY:93:LEU:N	2.74	0.51
57:DY:98:LYS:HG2	57:DY:102:LYS:CA	2.38	0.51
57:DY:99:SER:C	57:DY:100:ASN:O	2.48	0.51
26:A4:55:ARG:O	26:A4:55:ARG:HG3	2.10	0.51
31:BA:949:A:H1'	31:BA:1364:U:N3	2.24	0.51
49:BV:46:GLY:H	49:BV:62:ILE:HG23	1.76	0.51
55:DA:1360:A:H2'	55:DA:1361:G:C5'	2.40	0.51
28:A6:48:VAL:O	28:A6:49:HIS:CB	2.59	0.51
1:AA:2420:C:OP1	30:A8:33:ASN:O	2.28	0.51
1:AA:2394:C:N4	52:BD:76:A:H8	2.03	0.51
1:AA:887:A:O2'	43:BP:93:ARG:HG2	2.10	0.51
1:AA:2404:C:O2'	1:AA:2405:G:H5'	2.10	0.51
54:CA:1269:A:C2	54:CA:1313:U:O4'	2.63	0.51
52:CB:58:A:H1'	52:CB:60:U:C5	2.45	0.51
3:DD:102:LYS:O	3:DD:103:ARG:HG2	2.10	0.51
3:DD:69:ARG:C	3:DD:71:ASP:N	2.63	0.51
6:AG:88:ILE:HD13	6:AG:89:GLY:N	2.25	0.51
40:BM:99:LYS:HD2	40:BM:100:THR:H	1.74	0.51
54:CA:1202:G:C2	44:CQ:42:ILE:HG21	2.46	0.51
8:DK:114:LEU:O	8:DK:115:ALA:HB2	2.11	0.51
21:DV:151:HIS:ND1	21:DV:151:HIS:N	2.56	0.51
28:D6:15:GLU:OE1	28:D6:44:ARG:NH2	2.41	0.51
17:A2:35:LEU:HD22	17:A2:35:LEU:H	1.74	0.51
1:AA:2808:U:O2'	1:AA:2809:A:H5'	2.10	0.51
55:DA:2778:A:H4'	55:DA:2779:U:OP1	2.09	0.51
39:BL:3:GLN:CG	39:BL:20:ARG:HH12	2.23	0.51
32:CE:42:ILE:O	32:CE:44:LEU:HD12	2.10	0.51
32:CE:9:GLU:HB3	32:CE:48:MET:SD	2.51	0.51
1:AA:300:A:P	20:AU:84:ARG:HH12	2.34	0.51
20:AU:39:VAL:CG2	20:AU:40:GLU:H	2.19	0.51
23:AZ:78:LYS:HD2	23:AZ:80:LEU:CD2	2.26	0.51
31:BA:1151:A:Cl'	40:BM:39:PRO:HB2	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BM:40:LEU:HB3	40:BM:69:ASN:CB	2.27	0.51
52:CB:74:C:H1'	52:CB:75:C:H5'	1.91	0.51
5:AF:3:GLU:CA	5:AF:24:LEU:HG	2.31	0.51
5:AF:36:VAL:HB	5:AF:183:VAL:HG21	1.92	0.51
32:BE:47:THR:HA	32:BE:202:PRO:HG2	1.92	0.51
32:BE:76:GLN:O	32:BE:208:ILE:HG12	2.10	0.51
19:AT:21:PHE:C	19:AT:23:GLU:N	2.63	0.51
31:BA:1501:C:OP2	31:BA:1504:G:H2'	2.10	0.51
5:AF:164:ARG:HG3	5:AF:175:THR:OG1	2.10	0.51
3:AD:106:ILE:HD13	3:AD:106:ILE:C	2.31	0.51
55:DA:803:U:H2'	55:DA:804:A:H5'	1.91	0.51
54:CA:683:G:H2'	54:CA:684:A:C8	2.46	0.51
54:CA:688:G:H2'	54:CA:689:C:H6	1.76	0.51
31:BA:962:C:H2'	31:BA:963:G:O4'	2.10	0.51
42:BO:59:ARG:HA	42:BO:65:GLU:HG2	1.93	0.51
26:D4:48:ARG:NH2	26:D4:51:ASP:HA	2.25	0.51
55:DA:2319:G:H4'	55:DA:2320:A:OP1	2.10	0.51
31:BA:713:G:N2	31:BA:777:A:H1'	2.25	0.51
48:CU:36:ASN:HB2	48:CU:39:VAL:HG23	1.91	0.51
55:DA:2126:A:HO2'	55:DA:2127:G:C5'	2.24	0.51
55:DA:2175:C:H3'	55:DA:2176:A:H5''	1.92	0.51
39:BL:7:THR:HG21	39:BL:9:ARG:HH21	1.75	0.51
31:BA:1238:A:H2	31:BA:1241:G:N3	2.09	0.51
54:CA:8:A:N7	34:CG:208:SER:O	2.42	0.51
46:BS:20:VAL:HG23	46:BS:32:TYR:CB	2.41	0.51
1:AA:1288:U:H5''	1:AA:1289:C:OP2	2.09	0.51
54:CA:448:A:N3	54:CA:449:C:O2	2.43	0.51
10:DN:64:ARG:NH1	10:DN:81:ASP:OD1	2.43	0.51
13:D0:75:LEU:O	13:D0:79:LEU:HB2	2.11	0.51
4:DE:111:ARG:HD2	4:DE:160:TYR:CE1	2.45	0.51
55:DA:2615:U:H2'	55:DA:2616:C:H6	1.75	0.51
39:CL:53:VAL:HB	39:CL:95:LYS:HE3	1.93	0.51
33:BF:23:TYR:OH	33:BF:25:GLY:HA2	2.11	0.51
3:DD:149:PRO:HD3	3:DD:186:HIS:HB3	1.93	0.51
8:DK:31:LEU:HB2	8:DK:32:PRO:HD3	1.93	0.51
54:CA:777:A:H2'	54:CA:778:G:C8	2.45	0.51
55:DA:961:C:N4	55:DA:2031:A:H1'	2.25	0.51
1:AA:2461:C:C2	1:AA:2462:U:C5	2.98	0.51
42:CO:83:VAL:HG23	42:CO:100:ILE:HG23	1.93	0.51
23:AZ:66:HIS:O	23:AZ:67:ILE:C	2.49	0.51
33:CF:150:LYS:HE2	33:CF:152:ILE:HD11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1629:U:H2'	55:DA:1630:G:C8	2.44	0.51
11:AO:86:LYS:CG	11:AO:87:ASP:N	2.73	0.51
54:CA:718:G:C8	41:CN:116:HIS:HB3	2.46	0.51
1:AA:1198:U:H2'	1:AA:1199:U:C6	2.45	0.51
6:DG:28:VAL:O	6:DG:31:VAL:HG12	2.11	0.51
55:DA:941:A:H2'	55:DA:942:G:C8	2.46	0.51
48:BU:37:VAL:O	48:BU:40:LEU:N	2.43	0.51
19:DT:13:LEU:HB3	19:DT:18:TYR:OH	2.10	0.51
1:AA:1229:G:N2	1:AA:1229(A):G:H1'	2.25	0.51
46:BS:75:ARG:HG3	46:BS:80:PHE:HD1	1.76	0.51
2:DB:37:C:O2'	2:DB:38:C:H5'	2.10	0.51
15:AR:51:ARG:HH11	15:AR:51:ARG:CG	2.24	0.51
39:BL:117:HIS:O	39:BL:118:LYS:HG3	2.10	0.51
38:BK:96:GLY:H	38:BK:99:GLU:CD	2.13	0.51
58:DL:112:MET:O	58:DL:113:PRO:C	2.48	0.51
58:DL:41:PHE:O	58:DL:42:ASN:C	2.49	0.51
58:DL:56:GLU:HB3	58:DL:68:VAL:O	2.11	0.51
58:DL:80:LYS:NZ	58:DL:107:ILE:HG13	2.25	0.51
57:DY:129:PRO:CD	57:DY:130:THR:N	2.73	0.51
21:AV:106:GLY:HA2	21:AV:140:ASP:OD1	2.10	0.51
21:AV:103:ARG:N	21:AV:137:ILE:O	2.35	0.51
3:DD:27:THR:CG2	3:DD:28:GLU:N	2.65	0.51
6:AG:37:VAL:HG23	6:AG:99:MET:HE3	1.93	0.51
49:CV:42:PRO:HD3	26:D4:63:TYR:HE2	1.74	0.51
49:CV:44:MET:HA	49:CV:47:HIS:CD2	2.36	0.51
26:D4:55:ARG:C	26:D4:59:PHE:HB2	2.31	0.51
40:BM:6:ILE:HD11	40:BM:23:ILE:HG21	1.92	0.51
54:CA:963:G:N2	40:CM:55:LYS:HZ3	2.08	0.51
33:CF:29:TYR:O	33:CF:29:TYR:HD2	1.93	0.51
1:AA:1384:A:N3	1:AA:1405:U:H1'	2.25	0.51
50:CW:26:ASN:O	50:CW:30:LYS:HB2	2.10	0.51
1:AA:2790:A:O2'	1:AA:2791:C:OP2	2.23	0.51
54:CA:1145:C:H5'	54:CA:1146:A:OP1	2.10	0.51
11:AO:19:VAL:HG21	11:AO:21:ARG:HD2	1.91	0.51
1:AA:2602:A:H5''	52:BC:74:C:H5'	1.92	0.51
52:BD:12:U:H2'	52:BD:13:C:O4'	2.09	0.51
9:DM:63:THR:HG23	9:DM:66:LYS:HE3	1.92	0.51
52:CD:18:G:H2'	52:CD:57:G:N2	2.26	0.51
5:AF:185:ASP:CG	5:AF:188:ARG:HH21	2.14	0.51
55:DA:1317:A:H2'	55:DA:1318:C:H6	1.76	0.51
9:AM:129:PRO:O	9:AM:131:GLN:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:102:LYS:O	3:AD:103:ARG:HG2	2.10	0.51
55:DA:242:G:N2	55:DA:254:G:H2'	2.26	0.51
3:AD:224:ALA:O	3:AD:225:ALA:HB2	2.11	0.51
1:AA:1819:A:H1'	1:AA:1821:A:C6	2.46	0.51
1:AA:654(F):C:H2'	1:AA:654(G):C:OP1	2.09	0.51
53:B1:30:C:H6	53:B1:30:C:O5'	1.93	0.51
12:DP:52:VAL:HA	12:DP:55:VAL:HG13	1.91	0.51
55:DA:2490:G:H4'	55:DA:2491:U:O5'	2.10	0.51
55:DA:1826:G:O2'	3:DD:242:ARG:NH2	2.44	0.51
52:CD:76:A:H8	55:DA:2394:C:N4	2.03	0.51
54:CA:1067:A:O2'	54:CA:1068:G:P	2.69	0.51
9:AM:138:LEU:HD23	9:AM:138:LEU:N	2.26	0.51
10:AN:107:ARG:HD3	15:AR:37:GLY:H	1.76	0.51
11:AO:107:LYS:C	11:AO:109:GLY:N	2.63	0.51
1:AA:1761:C:C4	1:AA:1762:A:C2	2.98	0.51
53:B1:55:U:H6	53:B1:55:U:OP2	1.94	0.51
44:CQ:3:ARG:O	44:CQ:6:LEU:N	2.35	0.51
43:BP:67:GLU:N	43:BP:70:LEU:HD12	2.26	0.51
55:DA:1111:A:HO2'	55:DA:1112:G:H4'	1.76	0.51
3:DD:143:HIS:O	3:DD:144:ALA:C	2.49	0.51
33:CF:15:THR:HG23	33:CF:181:ASN:HA	1.92	0.51
7:AH:97:ARG:CG	7:AH:98:LEU:H	2.19	0.51
41:BN:115:PRO:C	41:BN:117:ASN:H	2.14	0.51
36:CI:99:ALA:HB1	48:CU:23:LYS:HZ1	1.73	0.51
36:CI:60:PHE:CE2	48:CU:78:LEU:HD21	2.46	0.51
55:DA:2664:G:O5'	55:DA:2664:G:H8	1.93	0.51
12:DP:20:ALA:CB	12:DP:99:PRO:HB2	2.41	0.51
55:DA:1946:U:H2'	55:DA:1947:C:H6	1.76	0.51
54:CA:8:A:O2'	35:CH:102:ALA:C	2.49	0.51
54:CA:487:A:C2	54:CA:488:C:H1'	2.46	0.51
1:AA:1729:A:H2'	1:AA:1730:U:H5''	1.92	0.51
55:DA:2199:A:H3'	55:DA:2205:C:C6	2.46	0.51
5:AF:132:VAL:HG13	5:AF:133:ASN:H	1.75	0.51
55:DA:1498:C:O4'	55:DA:1577:C:H4'	2.11	0.51
1:AA:2184:G:O2'	1:AA:2185:C:H5'	2.11	0.51
48:BU:29:PHE:CE1	48:BU:31:LEU:HB3	2.42	0.51
55:DA:1204:A:O2'	55:DA:1205:U:O5'	2.29	0.51
55:DA:1954:G:O2'	55:DA:1956:U:O4	2.25	0.51
22:A3:55:ARG:HB3	22:A3:55:ARG:CZ	2.41	0.51
50:BW:56:MET:O	50:BW:59:ALA:HB3	2.11	0.51
52:CB:21:A:N6	52:CB:46:G:C4	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DX:11:SER:OG	25:DX:13:ILE:HG12	2.11	0.51
55:DA:1528:A:N1	55:DA:1543:A:H2	2.08	0.51
1:AA:68:G:H2'	1:AA:68:G:N3	2.26	0.51
54:CA:753:A:HO2'	54:CA:754:C:P	2.34	0.51
55:DA:332:A:O2'	55:DA:333:G:OP1	2.28	0.51
31:BA:865:A:H2'	31:BA:866:C:C6	2.46	0.51
55:DA:532:A:O2'	55:DA:2021:C:N4	2.44	0.51
54:CA:560:U:H4'	54:CA:561:U:C5'	2.41	0.51
18:DS:12:ILE:HD13	18:DS:17:VAL:HG22	1.93	0.51
55:DA:616:A:O2'	55:DA:617:G:OP1	2.23	0.51
6:AG:54:GLU:O	6:AG:57:ALA:HB3	2.11	0.51
55:DA:2524:G:H2'	55:DA:2741:A:C2	2.46	0.51
55:DA:2141:G:H2'	55:DA:2142:C:O4'	2.09	0.51
52:BD:44:G:O2'	52:BD:45:U:H5'	2.11	0.51
11:DO:86:LYS:HB3	11:DO:118:GLY:CA	2.41	0.51
47:BT:60:ILE:HB	47:BT:74:LEU:HD23	1.93	0.51
55:DA:155:C:H2'	55:DA:161:U:H5'	1.93	0.51
1:AA:562:U:O2'	1:AA:572:A:O4'	2.17	0.51
6:DG:51:ARG:HB3	6:DG:51:ARG:HH11	1.74	0.51
32:CE:238:LEU:HG	32:CE:238:LEU:O	2.11	0.51
55:DA:1084:A:C8	57:DY:53:VAL:HG11	2.46	0.51
58:DL:101:TRP:CE2	58:DL:140:GLY:CA	2.94	0.51
58:DL:10:LEU:CG	58:DL:55:VAL:HG11	2.40	0.51
57:DY:27:VAL:CA	57:DY:111:LEU:HD13	2.29	0.51
31:BA:1342:C:H4'	39:BL:125:TYR:HB3	1.92	0.51
28:A6:41:PRO:HD2	28:A6:45:LYS:C	2.29	0.51
26:D4:68:ARG:HB3	26:D4:71:ARG:C	2.31	0.51
21:DV:111:VAL:HG23	21:DV:146:ILE:HG13	1.91	0.51
21:DV:114:GLY:CA	21:DV:179:ASP:OD1	2.57	0.51
31:BA:1313:U:P	49:BV:6:LYS:HB3	2.51	0.51
1:AA:768:G:H2'	1:AA:769:G:H8	1.74	0.51
54:CA:792:A:C4	54:CA:794:A:C6	2.98	0.51
40:BM:30:SER:CB	40:BM:81:THR:HA	2.41	0.51
54:CA:1358:U:P	44:CQ:35:ARG:HG3	2.51	0.51
15:DR:88:ILE:HD12	15:DR:90:GLN:H	1.75	0.51
28:D6:15:GLU:OE2	28:D6:44:ARG:CZ	2.59	0.51
28:D6:25:LYS:HD2	30:D8:34:TRP:HZ2	1.75	0.51
1:AA:2591:C:OP1	3:AD:239:ARG:HG3	2.09	0.51
7:DH:109:PHE:HB2	7:DH:111:HIS:O	2.10	0.51
1:AA:2756:U:H4'	1:AA:2757:A:O5'	2.11	0.51
40:CM:38:ILE:CG1	40:CM:71:LEU:HB3	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CF:70:VAL:CG1	33:CF:71:ALA:N	2.74	0.51
18:DS:92:ARG:NH1	18:DS:94:ASP:OD2	2.44	0.51
43:CP:7:VAL:HG11	6:DG:115:ARG:NH2	2.26	0.51
1:AA:1141:U:O5'	9:AM:63:THR:HG21	2.10	0.51
8:AK:97:ILE:O	8:AK:101:LEU:CD2	2.57	0.51
24:DW:41:ILE:HD11	24:DW:44:LEU:CG	2.41	0.51
21:AV:130:PRO:C	21:AV:133:ILE:CD1	2.79	0.51
7:AH:108:GLY:HA3	7:AH:152:ARG:NH2	2.25	0.51
55:DA:1533:C:O2	55:DA:1534:G:O6	2.29	0.51
55:DA:2815:C:O2'	27:D5:43:HIS:CD2	2.64	0.51
9:DM:15:LEU:O	9:DM:136:GLU:HA	2.11	0.51
5:AF:181:LEU:HD21	5:AF:194:MET:HE1	1.92	0.51
32:BE:210:SER:O	32:BE:214:ILE:HG12	2.11	0.51
32:BE:76:GLN:OE1	32:BE:206:ASP:HB3	2.11	0.51
55:DA:654(C):G:C3'	55:DA:654(D):G:C8	2.93	0.51
55:DA:254:G:N7	30:D8:5:LYS:HE2	2.25	0.51
31:BA:562:C:O2'	42:BO:15:ARG:HD2	2.11	0.51
22:A3:82:ARG:CG	22:A3:84:LEU:HD22	2.41	0.51
39:BL:93:ARG:C	39:BL:95:LYS:H	2.14	0.51
12:AP:133:ARG:HG3	12:AP:133:ARG:HH11	1.74	0.51
33:BF:155:GLY:O	33:BF:156:ARG:CB	2.56	0.51
42:BO:55:VAL:HG13	42:BO:68:ALA:C	2.31	0.51
42:BO:27:LEU:HD12	42:BO:61:THR:OG1	2.11	0.51
37:BJ:22:LEU:CD1	37:BJ:97:GLN:HE22	2.23	0.51
19:DT:12:VAL:HG13	19:DT:17:ALA:HB1	1.92	0.51
40:BM:47:PHE:CE1	40:BM:63:PHE:HB2	2.45	0.51
3:AD:70:TRP:CD1	3:AD:71:ASP:N	2.78	0.51
42:CO:27:LEU:C	42:CO:29:GLY:H	2.14	0.51
38:BK:11:THR:HG23	38:BK:14:ARG:HH11	1.75	0.51
11:DO:38:GLN:C	11:DO:40:SER:N	2.60	0.51
3:AD:130:ALA:HA	3:AD:192:THR:HA	1.93	0.51
1:AA:1493:C:H4'	1:AA:1494:A:OP2	2.11	0.51
55:DA:141:A:C8	55:DA:1408:C:H1'	2.45	0.51
54:CA:921:U:O2'	35:CH:19:MET:O	2.18	0.51
54:CA:556:C:O2'	54:CA:557:G:H5'	2.11	0.51
10:DN:8:LEU:HB2	10:DN:19:ILE:CD1	2.41	0.51
25:DX:19:GLN:NE2	25:DX:52:HIS:CE1	2.77	0.51
1:AA:1270:C:H5''	1:AA:1271:G:O5'	2.10	0.51
55:DA:27:G:O2'	55:DA:28:A:P	2.69	0.51
11:AO:48:PRO:HG2	11:AO:49:ARG:N	2.23	0.51
1:AA:2376:A:H2'	1:AA:2377:A:O4'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CB:8:U:OP2	52:CB:8:U:C6	2.63	0.51
31:BA:538:G:H3'	42:BO:115:LYS:HZ2	1.73	0.51
48:BU:85:LEU:HD12	48:BU:85:LEU:C	2.30	0.51
28:A6:52:VAL:HG13	28:A6:53:LYS:HG2	1.93	0.51
31:BA:908:A:H2'	31:BA:909:A:H8	1.74	0.51
41:BN:74:ALA:C	41:BN:76:GLY:H	2.13	0.51
1:AA:616:A:O2'	1:AA:617:G:P	2.68	0.51
13:A0:66:VAL:HG12	13:A0:70:LEU:HD12	1.92	0.51
18:AS:21:VAL:HG13	18:AS:74:ALA:HB1	1.93	0.51
54:CA:848:C:O5'	54:CA:848:C:H6	1.94	0.51
9:DM:120:LEU:HD11	9:DM:122:VAL:HG23	1.92	0.51
55:DA:1458:C:H5''	55:DA:1459:G:H5'	1.93	0.51
7:DH:16:SER:O	7:DH:17:VAL:CB	2.59	0.51
55:DA:660:G:O3'	5:DF:38:ARG:NH2	2.44	0.51
34:BG:203:VAL:O	34:BG:206:PHE:HB3	2.10	0.51
55:DA:2650:U:H2'	55:DA:2651:C:H6	1.75	0.51
40:CM:58:ASP:O	40:CM:59:SER:C	2.48	0.51
21:DV:125:LEU:HG	21:DV:164:ALA:CB	2.41	0.51
54:CA:830:G:H2'	54:CA:831:U:C6	2.46	0.51
1:AA:1416:G:H2'	1:AA:1417:C:C5	2.45	0.51
42:CO:22:SER:C	42:CO:24:VAL:H	2.13	0.51
55:DA:1419:A:C3'	55:DA:1420:U:H5''	2.41	0.51
5:DF:196:LEU:O	5:DF:200:GLU:HG2	2.10	0.51
55:DA:952:G:P	12:DP:16:ARG:HH12	2.33	0.51
55:DA:1706:U:O2	55:DA:1757:U:H5'	2.10	0.51
31:BA:107:G:C2'	31:BA:108:G:H5'	2.41	0.51
55:DA:903:C:H2'	55:DA:904:C:H6	1.75	0.51
52:CB:51:U:H2'	52:CB:52:G:H8	1.76	0.51
42:BO:22:SER:C	42:BO:24:VAL:H	2.14	0.51
22:D3:10:THR:O	22:D3:10:THR:CG2	2.58	0.51
37:CJ:88:PRO:O	37:CJ:89:MET:HB3	2.10	0.51
18:DS:71:VAL:HA	18:DS:107:LEU:HD12	1.93	0.51
54:CA:1329:A:P	43:CP:28:ALA:HB3	2.50	0.51
55:DA:550:G:N3	55:DA:1220:A:H2	2.09	0.51
58:DL:19:PRO:O	58:DL:20:ALA:CB	2.59	0.51
57:DY:120:LYS:O	57:DY:121:ASP:HB3	2.11	0.51
57:DY:40:LEU:HD22	57:DY:41:ARG:N	2.25	0.51
21:AV:116:VAL:N	21:AV:177:PRO:HG3	2.25	0.51
1:AA:2348:U:H4'	28:A6:42:TRP:HD1	1.75	0.51
30:A8:29:LYS:O	30:A8:31:HIS:N	2.44	0.51
1:AA:2347:C:H2'	1:AA:2348:U:C6	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:646:A:C8	1:AA:2349:G:N2	2.78	0.51
1:AA:2420:C:H41	30:A8:31:HIS:CB	2.16	0.51
43:BP:81:LEU:HD22	43:BP:88:ARG:HG2	1.92	0.51
49:CV:5:LEU:HD13	49:CV:5:LEU:C	2.31	0.51
1:AA:2490:G:C5'	1:AA:2491:U:OP1	2.58	0.51
12:AP:88:GLY:O	12:AP:89:ASN:CB	2.59	0.51
3:DD:168:ARG:NH1	3:DD:168:ARG:HG3	2.26	0.51
54:CA:1004:A:H5''	54:CA:1025:U:C4	2.45	0.51
8:AK:82:ARG:NH1	8:AK:146:ALA:CB	2.74	0.51
31:BA:65:U:H4'	31:BA:66:G:O5'	2.11	0.51
17:A2:44:LYS:HG2	17:A2:45:THR:N	2.25	0.51
20:DU:94:LYS:NZ	20:DU:101:LYS:NZ	2.59	0.51
1:AA:2554:U:C2	52:BB:74:C:C5	2.99	0.51
31:BA:411:A:C4	31:BA:413:G:H1'	2.46	0.51
31:BA:426:G:O2'	31:BA:427:U:H5'	2.10	0.51
31:BA:428:G:H4'	31:BA:429:U:O5'	2.10	0.51
6:AG:75:LYS:HG3	6:AG:76:SER:H	1.76	0.51
39:BL:5:TYR:OH	39:BL:16:ARG:HG2	2.11	0.51
32:CE:240:GLN:O	32:CE:240:GLN:HG2	2.11	0.51
40:CM:48:THR:HG23	40:CM:62:HIS:CG	2.46	0.51
9:DM:62:VAL:HG21	9:DM:87:LEU:HD11	1.92	0.51
31:BA:696:A:H2'	31:BA:697:U:C5'	2.26	0.51
13:D0:85:PRO:C	13:D0:87:TYR:H	2.13	0.51
31:BA:151:A:H2'	31:BA:152:A:O4'	2.10	0.51
16:D1:108:GLU:O	16:D1:111:GLU:HB2	2.10	0.51
55:DA:957:A:N6	55:DA:2459:A:C8	2.79	0.51
55:DA:1340:U:H1'	55:DA:1603:A:H5'	1.92	0.51
1:AA:2522:U:H2'	1:AA:2523:G:H5''	1.92	0.51
1:AA:1142(A):A:C5	1:AA:1144:G:C5	2.99	0.51
21:AV:30:ASN:HA	21:AV:89:PHE:HE2	1.76	0.51
21:AV:53:ILE:HD12	21:AV:53:ILE:C	2.31	0.51
21:AV:5:LEU:CD2	21:AV:47:VAL:HG21	2.35	0.51
1:AA:1208:C:C4	1:AA:1209:G:N7	2.79	0.51
23:AZ:81:LYS:HB3	23:AZ:81:LYS:NZ	2.26	0.51
55:DA:1538:G:N2	55:DA:1539:G:C4	2.79	0.51
31:BA:868:C:H2'	31:BA:869:G:O4'	2.11	0.51
5:AF:18:ARG:HG2	5:AF:19:GLU:N	2.25	0.51
3:AD:92:ILE:HD12	3:AD:104:TYR:CD2	2.46	0.51
3:AD:35:LYS:HE3	3:AD:65:ILE:HG22	1.92	0.51
1:AA:2391:G:H1'	1:AA:2429:G:N2	2.25	0.51
1:AA:27:G:H1'	1:AA:513:A:H62	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AX:54:VAL:CG1	25:AX:55:ARG:N	2.73	0.51
55:DA:802:A:H2'	55:DA:803:U:C5'	2.41	0.51
6:DG:146:TYR:C	6:DG:148:MET:N	2.64	0.51
34:CG:114:ARG:O	34:CG:117:ALA:HB3	2.11	0.51
12:DP:34:LEU:HD11	12:DP:129:THR:HB	1.92	0.51
35:CH:78:HIS:CD2	38:CK:104:ARG:HE	2.28	0.51
55:DA:307:G:H21	55:DA:330:A:H62	1.59	0.51
8:DK:49:ALA:O	8:DK:52:ARG:HG2	2.10	0.51
8:DK:61:ARG:HH21	8:DK:64:GLU:CD	2.13	0.51
34:BG:70:ILE:HD12	34:BG:100:ARG:CZ	2.41	0.51
7:DH:12:PRO:O	7:DH:13:LYS:HB2	2.10	0.51
35:BH:76:ILE:HG22	35:BH:78:HIS:H	1.75	0.51
34:CG:198:VAL:CG1	34:CG:199:ASN:N	2.73	0.51
31:BA:1053:G:C6	31:BA:1199:U:H2'	2.45	0.51
55:DA:774:A:H2	55:DA:787:U:HO2'	1.52	0.51
19:DT:64:LYS:NZ	19:DT:73:ARG:NH2	2.59	0.51
54:CA:1049:U:H4'	54:CA:1050:G:OP2	2.10	0.51
43:CP:92:HIS:HD2	43:CP:110:ARG:NH2	2.09	0.51
1:AA:2469:A:H1'	1:AA:2482:G:C6	2.46	0.51
54:CA:1064:G:O2'	54:CA:1065:U:O5'	2.28	0.51
40:CM:51:ARG:HG3	40:CM:60:ARG:C	2.31	0.51
31:BA:199:G:O2'	31:BA:200:G:H5'	2.10	0.51
36:CI:59:TYR:HD2	36:CI:61:LEU:HD11	1.76	0.51
40:CM:13:HIS:CG	40:CM:14:LYS:N	2.78	0.51
17:A2:28:GLU:O	17:A2:61:VAL:HG21	2.11	0.51
35:CH:140:ARG:CB	35:CH:140:ARG:HH11	2.23	0.51
13:A0:33:ARG:NH1	27:A5:55:ARG:HH21	2.09	0.51
1:AA:1773:A:N7	1:AA:1829:A:H1'	2.25	0.51
3:AD:215:LEU:HB2	3:AD:217:ARG:HG3	1.93	0.51
55:DA:270(L):U:H3	8:DK:50:ARG:NE	2.09	0.51
31:BA:1298:C:C6	37:BJ:114:ARG:NH1	2.79	0.51
54:CA:22:G:O2'	54:CA:23:C:H5'	2.11	0.51
48:BU:41:LYS:HD3	48:BU:41:LYS:C	2.29	0.51
43:CP:44:ARG:O	43:CP:46:LYS:N	2.42	0.51
31:BA:1073:U:H2'	31:BA:1074:G:H8	1.76	0.51
1:AA:2840:C:H5''	13:A0:53:HIS:CD2	2.46	0.51
34:BG:61:LYS:HZ1	34:BG:62:GLN:NE2	2.05	0.51
1:AA:1559:G:O2'	1:AA:1560:G:OP1	2.24	0.51
9:AM:21:LYS:O	9:AM:61:ARG:N	2.42	0.51
22:D3:36:ILE:N	22:D3:36:ILE:HD13	2.25	0.51
1:AA:1114:G:H2'	1:AA:1115:G:H8	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BO:86:ARG:HB2	42:BO:101:VAL:HG22	1.91	0.51
1:AA:1683:C:H2'	1:AA:1684:C:C6	2.46	0.51
54:CA:864:A:H2'	54:CA:865:A:C8	2.45	0.51
18:DS:42:ARG:HG2	18:DS:42:ARG:NH1	2.26	0.51
54:CA:1370:G:C2	54:CA:1371:G:C8	2.98	0.51
1:AA:1747:G:H2'	1:AA:1748:G:H8	1.75	0.51
1:AA:1:G:H2'	1:AA:2:G:H8	1.74	0.51
14:AQ:52:SER:O	14:AQ:56:LEU:HD22	2.11	0.51
36:BI:100:ASN:HB3	48:BU:28:GLU:HA	1.92	0.51
18:DS:60:ASN:N	18:DS:60:ASN:HD22	2.07	0.51
9:AM:11:PRO:HB2	9:AM:51:PHE:CE1	2.45	0.51
32:BE:26:PRO:C	32:BE:28:PHE:H	2.13	0.51
1:AA:548:A:H2'	1:AA:549:G:H5'	1.92	0.51
55:DA:2360:A:H8	55:DA:2360:A:O5'	1.92	0.51
31:BA:1388:C:H2'	31:BA:1389:C:C6	2.46	0.51
14:DQ:48:LEU:HD23	14:DQ:82:ILE:HD11	1.91	0.51
54:CA:1104:G:O5'	32:CE:111:ARG:HD2	2.11	0.51
35:CH:135:THR:O	35:CH:138:ALA:HB3	2.11	0.51
9:DM:5:VAL:O	9:DM:5:VAL:HG13	2.11	0.51
1:AA:2191:G:N2	1:AA:2192:G:H1'	2.26	0.51
14:AQ:48:LEU:N	14:AQ:48:LEU:HD12	2.26	0.51
55:DA:1083:U:OP2	57:DY:45:LYS:O	2.29	0.51
58:DL:132:ARG:O	58:DL:137:GLU:OE1	2.29	0.51
58:DL:13:PRO:O	58:DL:14:ALA:HB2	2.11	0.51
57:DY:134:LEU:HA	57:DY:137:GLU:HB3	1.93	0.51
57:DY:47:ASN:O	57:DY:48:GLY:C	2.48	0.51
57:DY:88:ALA:CB	57:DY:92:THR:OG1	2.54	0.51
31:BA:1210:C:H4'	31:BA:1214:C:N4	2.25	0.51
31:BA:977:A:O2'	31:BA:979:C:OP2	2.24	0.51
30:A8:33:ASN:O	30:A8:34:TRP:CB	2.58	0.51
11:AO:59:LEU:HD22	11:AO:60:MET:N	2.26	0.51
1:AA:956:G:N2	1:AA:959:A:H3'	2.26	0.51
25:AX:19:GLN:HE22	25:AX:52:HIS:CE1	2.28	0.51
21:DV:107:THR:OG1	21:DV:108:PRO:CD	2.59	0.51
21:DV:142:SER:O	21:DV:143:GLY:O	2.29	0.51
6:AG:38:VAL:HG22	6:AG:93:THR:HA	1.92	0.51
26:A4:34:GLU:OE1	43:BP:3:ARG:HB2	2.11	0.51
43:BP:4:ILE:HG23	43:BP:5:ALA:N	2.19	0.51
40:BM:89:ASP:C	40:BM:90:LEU:HD12	2.31	0.51
8:DK:132:PRO:O	8:DK:133:HIS:O	2.28	0.51
17:A2:1:MET:HG2	17:A2:42:GLY:HA3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:A2:59:ALA:HB2	17:A2:96:ILE:HD13	1.93	0.51
20:DU:86:ARG:O	20:DU:92:ASN:HA	2.11	0.51
16:A1:47:TYR:HA	16:A1:50:ARG:NH1	2.25	0.51
4:AE:6:GLY:CA	4:AE:28:ALA:HA	2.41	0.51
4:AE:76:ARG:O	4:AE:78:LEU:N	2.44	0.51
31:BA:1124:G:O2'	31:BA:1125:U:P	2.69	0.51
39:BL:20:ARG:O	39:BL:22:GLY:N	2.44	0.51
7:DH:109:PHE:O	7:DH:111:HIS:N	2.37	0.51
1:AA:1111:A:H4'	7:AH:3:ARG:CD	2.35	0.51
31:BA:956:U:H4'	49:BV:83:HIS:HB3	1.92	0.51
31:BA:1346:A:N7	37:BJ:10:ARG:NH2	2.59	0.51
1:AA:1144:G:H2'	1:AA:1145:C:H6	1.76	0.51
1:AA:83:G:C2	1:AA:102:G:H2'	2.46	0.51
3:AD:34:VAL:HG13	3:AD:104:TYR:HE1	1.73	0.51
15:DR:105:LEU:HD23	15:DR:105:LEU:N	2.26	0.51
24:AW:14:ARG:HA	24:AW:63:VAL:HG11	1.93	0.51
24:AW:15:LYS:HD3	24:AW:67:LYS:NZ	2.26	0.51
31:BA:1162:C:O2'	31:BA:1163:C:H5'	2.11	0.51
1:AA:1053:C:H2'	1:AA:1054:A:H5''	1.92	0.51
54:CA:96:G:H2'	54:CA:97:U:C4'	2.40	0.51
21:DV:26:GLY:HA2	21:DV:86:VAL:O	2.11	0.51
54:CA:1534:A:N3	54:CA:1535:C:N4	2.42	0.51
43:CP:65:LYS:HB2	43:CP:69:GLU:HB3	1.93	0.51
18:DS:1:MET:HG3	18:DS:64:MET:HE3	1.92	0.51
55:DA:1652:A:O3'	55:DA:1653:G:H8	1.94	0.51
1:AA:319:C:H2'	1:AA:320:A:O4'	2.11	0.51
55:DA:704:G:H1'	55:DA:727:A:N6	2.25	0.51
55:DA:704:G:C2'	55:DA:726:G:N2	2.70	0.51
55:DA:1509:C:H3'	55:DA:1510:A:C4'	2.40	0.51
55:DA:1511:A:C2'	55:DA:1512:G:H5'	2.40	0.51
55:DA:71:A:C2	19:DT:31:HIS:HE1	2.28	0.51
38:BK:82:HIS:CD2	38:BK:138:TRP:NE1	2.68	0.51
31:BA:1286:A:H4'	51:BX:25:LYS:HD2	1.92	0.51
1:AA:363(B):G:H8	1:AA:363(B):G:H5'	1.76	0.51
34:BG:108:LEU:HB3	34:BG:110:PHE:CD1	2.45	0.51
39:CL:9:ARG:O	39:CL:104:ARG:HD2	2.11	0.51
55:DA:2563:U:H4'	10:DN:28:SER:HA	1.92	0.51
1:AA:274:G:H2'	1:AA:275:G:O4'	2.10	0.51
55:DA:2427:C:C5'	55:DA:2428:G:OP1	2.59	0.51
6:DG:143:GLU:HG3	26:D4:31:ILE:CD1	2.41	0.51
14:AQ:26:LEU:HB3	14:AQ:87:PHE:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:833:U:H4'	11:AO:51:PHE:O	2.11	0.51
14:AQ:83:LYS:HG2	14:AQ:109:GLY:N	2.25	0.51
1:AA:2182:G:H2'	1:AA:2183:C:H6	1.76	0.51
32:BE:96:ARG:O	32:BE:98:LEU:N	2.43	0.51
47:CT:77:VAL:HG12	47:CT:77:VAL:O	2.11	0.51
22:A3:53:MET:CB	22:A3:59:LEU:HD23	2.40	0.51
32:CE:104:ASN:O	32:CE:108:ILE:HG12	2.11	0.51
40:CM:92:THR:HG23	40:CM:93:GLY:N	2.26	0.51
31:BA:181:G:O2'	31:BA:182:U:O5'	2.29	0.51
31:BA:1190:G:OP2	33:BF:5:ILE:HG23	2.10	0.51
15:DR:54:ARG:NH1	15:DR:54:ARG:HG2	2.25	0.51
36:BI:42:GLU:C	36:BI:44:GLY:N	2.64	0.51
55:DA:322:A:H1'	55:DA:339:U:O2	2.10	0.51
2:AB:79:C:C2'	2:AB:80:U:H5'	2.41	0.51
55:DA:1531:C:O2'	55:DA:1532:C:H5'	2.10	0.51
55:DA:2869:G:H2'	55:DA:2870:C:C6	2.46	0.51
54:CA:309:G:O2'	54:CA:607:A:N1	2.43	0.51
36:CI:10:LEU:HA	36:CI:84:ASN:O	2.10	0.51
54:CA:6:G:H4'	54:CA:298:A:H4'	1.92	0.51
54:CA:134:A:H1'	54:CA:325:A:C5	2.46	0.51
25:DX:59:VAL:HG12	25:DX:60:GLU:N	2.26	0.51
1:AA:1525:G:H2'	1:AA:1526:G:H8	1.76	0.51
1:AA:376:C:H2'	1:AA:377:C:C6	2.46	0.51
4:DE:107:THR:O	4:DE:190:GLY:HA2	2.10	0.51
19:DT:90:GLU:O	19:DT:91:ALA:C	2.50	0.51
32:CE:124:SER:HB2	32:CE:125:PRO:HD2	1.92	0.51
3:DD:98:VAL:C	3:DD:100:GLY:N	2.62	0.51
1:AA:503:A:H5''	1:AA:504:U:OP1	2.11	0.51
31:BA:1167:A:OP1	31:BA:1167:A:H8	1.94	0.51
1:AA:1394:U:H3'	1:AA:1394:U:H6	1.76	0.51
33:CF:127:ARG:HG2	33:CF:127:ARG:HH11	1.76	0.51
41:BN:38:ASN:N	41:BN:38:ASN:HD22	2.09	0.51
55:DA:1354:A:OP1	3:DD:38:LYS:HE2	2.10	0.51
4:AE:25:VAL:HG13	4:AE:181:LEU:HD12	1.92	0.51
15:AR:8:LYS:C	15:AR:10:VAL:N	2.60	0.51
56:DI:14:GLN:C	56:DI:16:THR:H	2.14	0.51
58:DL:144:VAL:CG1	58:DL:145:LYS:H	2.14	0.51
58:DL:60:TYR:N	58:DL:60:TYR:CD1	2.79	0.51
57:DY:18:GLU:HG3	57:DY:66:LEU:HD11	1.93	0.51
57:DY:70:GLU:C	57:DY:71:LEU:CD1	2.70	0.51
57:DY:7:VAL:O	57:DY:9:LEU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1320:C:N3	31:BA:1321:C:N4	2.59	0.51
31:BA:991:U:O2	31:BA:993:G:H8	1.95	0.51
1:AA:946:G:HO2'	1:AA:947:G:C4'	2.24	0.51
55:DA:1794:U:H2'	55:DA:1795:C:C6	2.45	0.51
21:DV:109:ALA:O	21:DV:110:GLY:O	2.29	0.51
13:D0:33:ARG:HG2	13:D0:34:ILE:N	2.24	0.51
26:D4:56:VAL:O	26:D4:60:GLN:HG2	2.11	0.51
54:CA:1054:C:N3	52:CB:34:G:H1'	2.26	0.51
1:AA:387:U:HO2'	1:AA:388:G:P	2.27	0.51
55:DA:2286:A:C8	55:DA:2287:A:C6	2.99	0.51
16:A1:98:LEU:CB	16:A1:102:GLU:HB2	2.41	0.51
30:D8:14:VAL:HG13	30:D8:15:LYS:N	2.25	0.51
4:AE:70:ALA:O	4:AE:72:VAL:N	2.44	0.51
7:DH:132:ARG:CB	7:DH:132:ARG:HH11	2.24	0.51
14:DQ:65:VAL:O	14:DQ:69:VAL:HG12	2.11	0.51
1:AA:1043:C:C4	1:AA:1044:G:N7	2.79	0.51
5:DF:107:LYS:HD2	5:DF:206:ILE:CD1	2.29	0.51
52:CD:19:G:O4'	52:CD:57:G:N2	2.44	0.51
54:CA:1157:A:N6	54:CA:1178:G:N2	2.59	0.51
20:AU:94:LYS:CE	20:AU:101:LYS:HZ3	2.23	0.51
55:DA:1934:C:H2'	55:DA:1935:G:O5'	2.11	0.51
1:AA:498:G:H21	20:AU:47:LYS:NZ	2.09	0.51
55:DA:2159:G:H2'	55:DA:2160:G:O4'	2.11	0.51
9:DM:133:GLN:O	9:DM:134:ARG:HB3	2.10	0.51
1:AA:88:G:H5'	1:AA:90:U:H5	1.75	0.51
14:DQ:5:THR:C	14:DQ:7:TYR:N	2.64	0.51
31:BA:250:A:O2'	31:BA:251:G:P	2.69	0.51
25:AX:54:VAL:HG12	25:AX:55:ARG:H	1.74	0.51
38:CK:38:ILE:O	38:CK:42:GLU:HG2	2.11	0.51
39:BL:53:VAL:O	39:BL:55:ALA:N	2.44	0.51
55:DA:1248:G:N2	5:DF:88:VAL:HG22	2.26	0.51
34:CG:106:TYR:CE1	34:CG:112:VAL:O	2.64	0.51
54:CA:1190:G:P	33:CF:5:ILE:HD12	2.50	0.51
33:BF:33:LEU:O	33:BF:35:GLU:N	2.44	0.51
33:CF:6:HIS:CB	44:CQ:49:HIS:HD2	2.24	0.51
55:DA:2656:U:O4	55:DA:2665:A:C6	2.64	0.51
47:BT:56:VAL:O	47:BT:77:VAL:HB	2.11	0.51
27:A5:20:ARG:HA	27:A5:23:HIS:CD2	2.46	0.51
1:AA:1913:A:O2'	1:AA:1914:C:OP2	2.27	0.51
1:AA:1616:A:OP1	1:AA:1616:A:C2	2.64	0.51
32:BE:223:ILE:HA	32:BE:226:ARG:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1251:C:O2'	55:DA:1252:G:H5''	2.11	0.51
54:CA:1298:C:H4'	54:CA:1299:A:C8	2.46	0.51
55:DA:2:G:H2'	55:DA:3:U:O4'	2.11	0.51
13:D0:78:LYS:O	13:D0:82:GLU:HB2	2.10	0.51
49:CV:7:LYS:HB2	49:CV:7:LYS:HZ3	1.75	0.51
16:A1:104:GLN:O	16:A1:107:ALA:HB3	2.11	0.51
31:BA:1075:C:H4'	31:BA:1101:A:C6	2.46	0.51
2:DB:44:G:H1'	2:DB:47:C:N4	2.25	0.51
55:DA:1204:A:H1'	55:DA:1206:G:C8	2.46	0.51
31:BA:812:C:O2'	31:BA:813:U:H6	1.94	0.51
22:D3:25:ARG:HA	22:D3:29:GLN:NE2	2.26	0.51
55:DA:1528:A:C2	55:DA:1543:A:N1	2.79	0.51
1:AA:1115:G:O2'	1:AA:1116:C:H5'	2.10	0.51
31:BA:89:U:H4'	31:BA:90:C:OP1	2.10	0.51
49:CV:30:LEU:C	49:CV:30:LEU:HD22	2.31	0.51
47:BT:84:LEU:O	47:BT:87:LYS:HB2	2.11	0.51
55:DA:1489:U:O2'	55:DA:1490:A:H8	1.94	0.51
54:CA:340:U:H2'	54:CA:341:C:H6	1.76	0.51
55:DA:847:U:C5	55:DA:933:A:N1	2.79	0.51
55:DA:1149:G:H2'	55:DA:1150:C:C6	2.46	0.51
18:DS:11:ARG:NH2	18:DS:99:ARG:O	2.42	0.51
54:CA:1216:G:H5''	44:CQ:5:ALA:CB	2.41	0.51
1:AA:1789:A:H2'	1:AA:1790:C:C6	2.45	0.51
55:DA:1103:A:H2'	55:DA:1104:C:C5'	2.33	0.50
21:AV:177:PRO:O	21:AV:180:VAL:CA	2.59	0.50
55:DA:1372:U:C5'	55:DA:1372:U:C5	2.81	0.50
1:AA:2394:C:OP1	30:A8:30:ARG:NH1	2.44	0.50
1:AA:1028:A:H61	1:AA:1125:G:H2'	1.76	0.50
54:CA:518:C:H1'	54:CA:529:G:C2	2.46	0.50
6:AG:7:LEU:HD21	6:AG:176:LEU:HD22	1.93	0.50
54:CA:1054:C:N4	52:CB:34:G:N9	2.59	0.50
54:CA:1055:A:H4'	33:CF:161:GLU:CD	2.31	0.50
55:DA:1486:A:H2'	55:DA:1487:G:H8	1.75	0.50
1:AA:1311:G:H21	1:AA:1603:A:H62	1.59	0.50
4:DE:13:ARG:HB3	4:DE:21:VAL:CG1	2.39	0.50
54:CA:1500:A:OP2	54:CA:1505:G:OP1	2.28	0.50
42:BO:46:LYS:HG2	42:BO:47:LYS:H	1.75	0.50
52:CD:47:U:OP2	52:CD:47:U:O4'	2.29	0.50
6:DG:7:LEU:N	6:DG:104:GLU:OE2	2.33	0.50
6:DG:121:ASN:HD22	6:DG:122:PRO:N	2.10	0.50
6:DG:129:GLY:HA2	6:DG:169:ALA:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:562:C:N3	42:CO:16:GLU:HB3	2.26	0.50
31:BA:1347:G:H2'	31:BA:1373:G:O6	2.10	0.50
39:BL:42:ARG:NH1	39:BL:71:SER:HA	2.26	0.50
4:DE:104:VAL:HG22	4:DE:198:VAL:HG22	1.93	0.50
7:AH:107:VAL:O	7:AH:152:ARG:NH2	2.44	0.50
5:AF:37:VAL:O	5:AF:38:ARG:C	2.48	0.50
1:AA:2012:G:H4'	18:AS:96:ILE:CD1	2.42	0.50
20:AU:13:VAL:HG22	20:AU:14:LEU:N	2.26	0.50
24:AW:51:ARG:HB2	24:AW:55:ARG:NH1	2.26	0.50
52:CD:70:G:H2'	52:CD:71:G:C8	2.47	0.50
34:CG:199:ASN:O	34:CG:200:GLU:C	2.50	0.50
31:BA:1054:C:O2'	31:BA:1055:A:C5'	2.59	0.50
53:C1:39:U:H2'	53:C1:40:U:C6	2.45	0.50
1:AA:1761:C:N4	1:AA:1762:A:C2	2.79	0.50
7:DH:22:GLY:O	7:DH:37:VAL:HB	2.10	0.50
32:CE:91:PRO:HG3	32:CE:155:LEU:HD23	1.93	0.50
1:AA:1204:A:C2	1:AA:1241:A:C2	2.99	0.50
33:BF:34:LEU:C	33:BF:38:ARG:HH21	2.14	0.50
33:BF:8:ILE:O	33:BF:11:ARG:N	2.36	0.50
33:CF:181:ASN:HD22	33:CF:204:LEU:HB2	1.76	0.50
42:CO:28:LYS:HZ1	42:CO:33:ARG:HH22	1.56	0.50
40:CM:40:LEU:HB3	40:CM:41:PRO:HD2	1.94	0.50
52:BC:58:A:O2'	52:BC:59:U:P	2.69	0.50
55:DA:1525:G:H2'	55:DA:1526:G:C8	2.46	0.50
12:AP:56:ARG:HH11	12:AP:56:ARG:CB	2.21	0.50
55:DA:534:U:O2'	16:D1:49:HIS:CD2	2.64	0.50
33:CF:60:ALA:O	33:CF:61:ALA:HB2	2.11	0.50
1:AA:1885:A:H3'	1:AA:1886:C:C6	2.37	0.50
55:DA:2092:U:C2	55:DA:2225:A:O2'	2.64	0.50
4:DE:154:LYS:HD3	4:DE:155:LYS:N	2.26	0.50
24:AW:17:SER:HA	24:AW:20:GLU:CG	2.41	0.50
31:BA:481:G:H1'	31:BA:482:A:N7	2.26	0.50
54:CA:262:A:N6	54:CA:263:A:N6	2.59	0.50
1:AA:2331:G:O3'	22:A3:43:THR:HG22	2.11	0.50
14:DQ:32:LEU:O	14:DQ:62:LYS:HE2	2.11	0.50
33:CF:83:ARG:O	33:CF:85:ARG:N	2.43	0.50
31:BA:812:C:O2'	31:BA:813:U:C6	2.61	0.50
15:AR:106:SER:C	15:AR:107:ASP:OD1	2.49	0.50
12:DP:5:ARG:O	12:DP:6:ARG:HB3	2.09	0.50
8:DK:8:PRO:HG3	8:DK:14:ASP:HB2	1.92	0.50
42:CO:83:VAL:HG21	42:CO:100:ILE:CG1	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AP:68:ILE:HD13	12:AP:103:MET:HG2	1.92	0.50
55:DA:1655:A:H2'	55:DA:1656:C:O4'	2.12	0.50
34:CG:144:ASP:O	34:CG:146:ILE:HD12	2.11	0.50
1:AA:2165:G:N2	1:AA:2166:G:H1'	2.25	0.50
55:DA:2677:G:H2'	55:DA:2678:C:H6	1.75	0.50
35:BH:12:LEU:HD23	35:BH:13:ILE:N	2.26	0.50
6:AG:106:LEU:HD12	6:AG:110:ALA:CB	2.41	0.50
18:AS:20:VAL:CG2	18:AS:47:VAL:HG21	2.40	0.50
11:AO:93:GLY:O	11:AO:94:GLU:HB2	2.11	0.50
34:CG:84:LYS:N	34:CG:84:LYS:HD2	2.25	0.50
54:CA:339:C:H2'	54:CA:340:U:C6	2.45	0.50
55:DA:201:C:C2'	55:DA:202:U:H5'	2.41	0.50
32:BE:200:ILE:H	32:BE:200:ILE:HD12	1.77	0.50
55:DA:1231:G:H2'	55:DA:1232:G:C8	2.46	0.50
1:AA:760:G:H2'	1:AA:761:A:O4'	2.11	0.50
55:DA:1268:A:H2'	55:DA:1269:A:O4'	2.10	0.50
26:A4:14:ILE:CG2	26:A4:21:VAL:HG23	2.40	0.50
18:AS:82:LEU:HB2	18:AS:98:LYS:HB2	1.93	0.50
54:CA:665:A:N3	54:CA:732:C:H2'	2.25	0.50
17:A2:74:LYS:NZ	17:A2:74:LYS:HB3	2.26	0.50
13:A0:23:ASN:N	13:A0:23:ASN:HD22	2.09	0.50
31:BA:1048:G:H2'	31:BA:1050:G:H8	1.75	0.50
1:AA:2464:C:H2'	1:AA:2465:C:H6	1.76	0.50
54:CA:758:G:H8	54:CA:758:G:O5'	1.94	0.50
37:BJ:146:GLU:OE1	37:BJ:149:ARG:HD2	2.09	0.50
55:DA:1104:C:H2'	55:DA:1105:U:C6	2.46	0.50
58:DL:104:VAL:CG1	58:DL:105:LEU:N	2.61	0.50
57:DY:38:HIS:CD2	57:DY:40:LEU:O	2.65	0.50
43:CP:123:ALA:CB	43:CP:124:PRO:CD	2.86	0.50
49:BV:41:VAL:CG1	49:BV:42:PRO:CD	2.40	0.50
20:DU:39:VAL:CG1	20:DU:40:GLU:H	2.12	0.50
17:A2:39:LEU:N	17:A2:39:LEU:HD12	2.25	0.50
31:BA:542:G:OP1	34:BG:10:ARG:NH2	2.39	0.50
31:BA:1129:C:C2	31:BA:1132:C:N4	2.76	0.50
7:AH:22:GLY:HA3	7:AH:37:VAL:H	1.76	0.50
31:BA:890:G:O2'	31:BA:906:G:N1	2.44	0.50
54:CA:1131:G:H1	54:CA:1144:G:H21	1.57	0.50
11:DO:90:ARG:CZ	11:DO:91:PHE:HB3	2.41	0.50
6:DG:111:LEU:HB2	6:DG:112:PRO:HD3	1.93	0.50
1:AA:1140:C:C4'	1:AA:1143:A:N6	2.74	0.50
20:AU:95:LYS:CB	20:AU:100:ALA:HA	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:63:LYS:NZ	20:AU:64:GLU:H	1.94	0.50
1:AA:2655:G:C2'	1:AA:2656:U:OP2	2.59	0.50
55:DA:1535:U:O2	55:DA:1535:U:C3'	2.59	0.50
1:AA:600:G:H5'	5:AF:32:LEU:HD12	1.93	0.50
8:DK:120:ILE:HD12	8:DK:121:LYS:N	2.26	0.50
3:AD:65:ILE:HD12	3:AD:65:ILE:C	2.31	0.50
55:DA:228:A:N3	55:DA:228:A:H2'	2.26	0.50
17:D2:38:LEU:H	17:D2:51:VAL:HG13	1.76	0.50
1:AA:620:G:C5'	1:AA:621:A:OP1	2.53	0.50
5:DF:46:ARG:O	5:DF:47:GLY:C	2.49	0.50
12:DP:51:ARG:O	12:DP:55:VAL:HG12	2.10	0.50
35:CH:101:ILE:HD13	35:CH:101:ILE:H	1.76	0.50
38:CK:101:PRO:HG2	38:CK:133:LEU:HD11	1.92	0.50
31:BA:579:G:H2'	31:BA:580:U:C6	2.46	0.50
12:AP:134:ARG:NH2	21:AV:122:ARG:HH12	2.08	0.50
31:BA:938:A:H2'	31:BA:939:G:O4'	2.11	0.50
37:BJ:103:TRP:NE1	37:BJ:137:LYS:HD3	2.26	0.50
37:BJ:27:ILE:HD11	37:BJ:43:PHE:CD2	2.47	0.50
6:DG:16:ARG:HB3	6:DG:17:PRO:HD3	1.92	0.50
1:AA:1205:U:H4'	1:AA:1206:G:OP2	2.11	0.50
33:BF:11:ARG:O	33:BF:12:LEU:C	2.50	0.50
33:BF:59:ARG:HE	33:BF:64:VAL:CG2	2.24	0.50
55:DA:1188:U:H2'	55:DA:1189:A:C5'	2.41	0.50
4:DE:167:VAL:HG11	4:DE:187:ALA:O	2.11	0.50
55:DA:1800:C:OP1	3:DD:264:LYS:HE2	2.11	0.50
3:DD:108:PRO:HB3	3:DD:143:HIS:HE1	1.73	0.50
1:AA:442:G:C4'	5:AF:46:ARG:HD3	2.40	0.50
31:BA:722:A:HO2'	31:BA:723:U:H5	1.58	0.50
31:BA:676:A:O2'	31:BA:677:U:H5'	2.11	0.50
31:BA:394:G:H2'	31:BA:395:C:C6	2.45	0.50
22:A3:25:ARG:HG3	22:A3:29:GLN:NE2	2.26	0.50
1:AA:1914:C:C3'	1:AA:1914:C:O2	2.58	0.50
7:AH:89:ILE:H	7:AH:89:ILE:CD1	2.22	0.50
48:BU:75:ILE:C	48:BU:77:GLY:H	2.14	0.50
55:DA:2723:C:C5'	13:D0:1:MET:HG2	2.40	0.50
23:DZ:52:ARG:HA	23:DZ:57:GLU:HA	1.93	0.50
5:DF:75:HIS:CE1	5:DF:82:ILE:HD12	2.46	0.50
39:CL:80:GLY:O	39:CL:81:ILE:C	2.49	0.50
12:DP:43:THR:HG1	12:DP:46:GLN:HG3	1.76	0.50
31:BA:32:A:H4'	31:BA:48:C:H41	1.76	0.50
1:AA:1758:G:C2	1:AA:2696:U:H5'	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1192:G:O2'	1:AA:1193:G:H5'	2.10	0.50
55:DA:372:G:H2'	55:DA:373:U:OP2	2.10	0.50
32:BE:172:ILE:HG22	32:BE:172:ILE:O	2.11	0.50
1:AA:1072:C:H2'	1:AA:1093:G:O6	2.11	0.50
3:AD:166:GLN:CA	3:AD:166:GLN:NE2	2.74	0.50
1:AA:757:U:H2'	1:AA:758:C:C6	2.44	0.50
4:DE:29:GLY:HA2	4:DE:180:ASN:HB3	1.92	0.50
55:DA:531:C:H5''	55:DA:532:A:O4'	2.10	0.50
1:AA:191:A:H2'	1:AA:192:C:C6	2.46	0.50
52:CC:72:C:O2'	52:CC:73:A:H5'	2.11	0.50
36:BI:48:LEU:HD13	36:BI:52:ILE:CG1	2.40	0.50
12:DP:32:TYR:CE1	12:DP:133:ARG:HG3	2.45	0.50
18:AS:27:LYS:O	18:AS:70:TYR:HB2	2.11	0.50
55:DA:949:C:O2'	55:DA:950:G:H5'	2.11	0.50
1:AA:920:G:O2'	1:AA:921:G:H5'	2.11	0.50
47:BT:13:ASP:C	47:BT:15:MET:H	2.15	0.50
1:AA:1844:C:O2'	1:AA:1845:G:H5'	2.12	0.50
39:BL:27:THR:HG23	39:BL:31:GLN:N	2.25	0.50
34:CG:88:VAL:O	34:CG:88:VAL:HG12	2.11	0.50
8:AK:84:GLY:O	8:AK:85:GLU:HB2	2.09	0.50
22:A3:50:ASN:HA	22:A3:62:LEU:HD12	1.93	0.50
9:DM:90:MET:CE	9:DM:90:MET:HA	2.41	0.50
54:CA:1112:C:H1'	33:CF:179:ARG:HD3	1.93	0.50
23:DZ:97:LEU:HD23	23:DZ:98:LEU:N	2.26	0.50
54:CA:1414:U:H2'	54:CA:1415:G:H8	1.76	0.50
2:DB:78:A:C2	2:DB:99:A:C4	3.00	0.50
55:DA:1064:C:O3'	58:DL:89:HIS:CB	2.60	0.50
55:DA:1083:U:O5'	57:DY:41:ARG:HD3	2.10	0.50
55:DA:1056:G:H1'	55:DA:1086:A:C1'	2.41	0.50
1:AA:897:C:N3	1:AA:898:C:H5	2.08	0.50
12:AP:58:PHE:CD1	12:AP:61:GLY:HA2	2.46	0.50
1:AA:2346:A:C2	1:AA:2383:G:C2	3.00	0.50
1:AA:2348:U:C4'	28:A6:42:TRP:HD1	2.24	0.50
1:AA:2416:C:OP1	11:AO:64:LYS:O	2.29	0.50
1:AA:889:C:C4	1:AA:890:A:H1'	2.46	0.50
43:BP:81:LEU:C	43:BP:83:ASP:H	2.14	0.50
42:CO:47:LYS:CB	42:CO:48:PRO:HD2	2.40	0.50
21:DV:115:GLY:HA3	21:DV:146:ILE:HD11	1.93	0.50
3:DD:62:TYR:CG	3:DD:63:ARG:N	2.79	0.50
6:AG:7:LEU:HB2	6:AG:104:GLU:CD	2.32	0.50
6:AG:61:ALA:HA	6:AG:64:THR:CG2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1278:A:H2'	55:DA:1279:G:C8	2.46	0.50
20:DU:43:ASN:HA	20:DU:64:GLU:HA	1.93	0.50
21:DV:170:THR:O	21:DV:171:ILE:CB	2.58	0.50
17:A2:32:THR:HG22	17:A2:58:VAL:HG12	1.93	0.50
19:AT:55:ASN:O	19:AT:79:ALA:HA	2.11	0.50
17:A2:77:ALA:O	17:A2:78:LYS:HG2	2.11	0.50
17:A2:79:VAL:O	17:A2:80:GLN:CG	2.59	0.50
40:BM:7:LYS:HE2	40:BM:71:LEU:HD22	1.92	0.50
1:AA:2092:U:H6	1:AA:2092:U:H5'	1.77	0.50
1:AA:2602:A:N6	52:BB:76:A:C5'	2.68	0.50
11:DO:140:ALA:O	11:DO:141:ALA:HB2	2.10	0.50
52:BD:59:U:C2'	52:BD:60:U:H5'	2.42	0.50
43:CP:7:VAL:CG1	6:DG:115:ARG:NH2	2.75	0.50
1:AA:83:G:O2'	1:AA:84:A:C8	2.65	0.50
20:AU:27:VAL:HG12	20:AU:39:VAL:CG1	2.40	0.50
20:AU:52:SER:N	20:AU:53:PRO:CD	2.74	0.50
55:DA:265:A:HO2'	55:DA:266:G:P	2.35	0.50
55:DA:2311:A:H8	6:DG:82:LEU:HD11	1.76	0.50
14:DQ:20:ARG:C	14:DQ:22:GLY:H	2.14	0.50
54:CA:728:A:C6	45:CR:54:ARG:HD2	2.47	0.50
4:AE:202:LYS:N	4:AE:202:LYS:HE3	2.27	0.50
30:D8:39:LYS:O	30:D8:43:GLN:HB2	2.11	0.50
55:DA:1930:G:H2'	55:DA:1968:G:O6	2.10	0.50
38:CK:97:VAL:HG13	38:CK:98:LYS:HG3	1.93	0.50
31:BA:1160:G:H1	31:BA:1177:G:N2	1.97	0.50
31:BA:1176:A:N6	31:BA:1177:G:O6	2.45	0.50
54:CA:1094:G:O2'	54:CA:1095:U:OP2	2.27	0.50
40:BM:54:PHE:CG	40:BM:55:LYS:N	2.79	0.50
40:BM:54:PHE:C	40:BM:55:LYS:HG3	2.31	0.50
53:B1:52:U:OP1	53:B1:52:U:C4'	2.59	0.50
1:AA:2297:C:N4	1:AA:2320:A:H8	2.09	0.50
1:AA:1062:G:H2'	1:AA:1063:G:C8	2.46	0.50
36:BI:14:LEU:HD22	36:BI:19:LEU:HB2	1.93	0.50
1:AA:2467:C:H2'	1:AA:2468:G:O4'	2.11	0.50
17:D2:81:TYR:C	17:D2:82:ARG:CG	2.80	0.50
25:DX:6:VAL:HG11	25:DX:47:VAL:HG13	1.92	0.50
32:BE:52:GLU:O	32:BE:56:ARG:HG3	2.11	0.50
35:CH:137:GLU:CA	35:CH:140:ARG:NH1	2.73	0.50
31:BA:690:G:O2'	31:BA:691:G:H5'	2.10	0.50
11:AO:91:PHE:N	11:AO:91:PHE:CD1	2.79	0.50
1:AA:528:A:C3'	1:AA:528:A:C8	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2159:G:H2'	1:AA:2160:G:H8	1.76	0.50
1:AA:1786:A:H2	1:AA:2606:C:H1'	1.73	0.50
43:CP:44:ARG:C	43:CP:46:LYS:N	2.63	0.50
14:AQ:89:ARG:O	14:AQ:90:GLY:C	2.49	0.50
38:CK:49:GLU:O	38:CK:51:VAL:HG13	2.10	0.50
38:CK:48:TYR:HA	38:CK:60:ARG:O	2.11	0.50
31:BA:980:C:H5''	31:BA:981:U:C5	2.47	0.50
32:CE:95:GLN:O	32:CE:96:ARG:C	2.50	0.50
54:CA:280:C:C2	47:CT:38:ARG:HG3	2.46	0.50
54:CA:107:G:H2'	54:CA:108:G:C5'	2.39	0.50
54:CA:942:G:O2'	54:CA:943:U:H5'	2.11	0.50
54:CA:263:A:P	50:CW:79:ARG:NH1	2.85	0.50
39:CL:95:LYS:C	39:CL:95:LYS:HD3	2.31	0.50
1:AA:1430:C:H2'	1:AA:1431:U:C6	2.46	0.50
31:BA:765:G:N2	31:BA:813:U:H5	2.09	0.50
18:AS:9:TYR:H	18:AS:102:HIS:CD2	2.25	0.50
39:BL:112:LYS:HD3	39:BL:113:LYS:O	2.12	0.50
35:CH:62:ALA:O	35:CH:65:ASN:N	2.45	0.50
55:DA:1991:U:H2'	55:DA:1992:G:C5'	2.41	0.50
31:BA:780:A:C2	31:BA:803:G:C6	3.00	0.50
54:CA:721:G:H4'	54:CA:722:A:C5'	2.42	0.50
1:AA:1113:U:H2'	1:AA:1114:G:H8	1.75	0.50
1:AA:372:G:O2'	1:AA:373:U:P	2.69	0.50
13:D0:17:ARG:O	13:D0:20:LEU:HB3	2.12	0.50
54:CA:328:C:H4'	54:CA:329:A:O5'	2.12	0.50
1:AA:2303:G:C2'	1:AA:2304:G:H5'	2.42	0.50
1:AA:758:C:O2	1:AA:1981:A:H2	1.94	0.50
43:BP:108:ARG:NH2	43:BP:114:ARG:HG2	2.25	0.50
1:AA:1275:A:O2'	1:AA:1276:A:C8	2.65	0.50
54:CA:1261:A:H2'	54:CA:1262:C:H5'	1.93	0.50
31:BA:434:U:H2'	31:BA:435:C:H6	1.76	0.50
55:DA:92:G:H2'	55:DA:93:C:C6	2.47	0.50
8:AK:1:MET:HG3	8:AK:23:PRO:HA	1.94	0.50
7:DH:16:SER:O	7:DH:17:VAL:HB	2.11	0.50
54:CA:1380:U:H5''	54:CA:1381:U:OP1	2.11	0.50
34:CG:88:VAL:HA	35:CH:97:GLY:HA2	1.92	0.50
1:AA:649:G:H2'	1:AA:650:C:C6	2.46	0.50
42:BO:102:ARG:O	42:BO:104:VAL:HG23	2.11	0.50
55:DA:1750:G:O2'	55:DA:1751:C:H5'	2.11	0.50
17:A2:7:THR:C	17:A2:9:GLY:H	2.15	0.50
24:DW:8:LYS:NZ	24:DW:8:LYS:HB2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:DN:26:LYS:HB2	10:DN:30:ALA:HB2	1.94	0.50
4:AE:91:VAL:O	4:AE:91:VAL:HG13	2.11	0.50
57:DY:127:GLU:O	57:DY:128:LEU:CD2	2.51	0.50
57:DY:20:ALA:C	57:DY:21:GLN:O	2.45	0.50
57:DY:12:THR:HB	57:DY:52:PHE:CE2	2.46	0.50
21:AV:178:GLU:O	21:AV:179:ASP:C	2.48	0.50
31:BA:1220:G:H4'	49:BV:34:TRP:O	2.11	0.50
49:BV:47:HIS:O	49:BV:48:THR:HG23	2.11	0.50
1:AA:805:G:C4'	1:AA:806:C:OP2	2.59	0.50
1:AA:950:G:H2'	1:AA:951:C:C6	2.47	0.50
1:AA:1814:G:H2'	1:AA:1815:A:N7	2.25	0.50
6:AG:108:ASN:O	26:A4:37:SER:HB2	2.11	0.50
6:AG:136:ARG:O	6:AG:154:GLY:CA	2.56	0.50
43:CP:70:LEU:O	43:CP:74:VAL:HG23	2.11	0.50
54:CA:1054:C:O2	54:CA:1054:C:H2'	2.10	0.50
55:DA:2785:C:H2'	55:DA:2786:U:O4'	2.10	0.50
4:DE:10:GLY:O	4:DE:25:VAL:HG22	2.12	0.50
16:A1:90:VAL:HG12	16:A1:91:ASP:N	2.26	0.50
1:AA:1967:C:H2'	1:AA:1968:G:C5'	2.39	0.50
1:AA:1340:U:O2'	1:AA:1341:U:OP2	2.30	0.50
1:AA:455:C:H5''	1:AA:456:C:OP2	2.11	0.50
1:AA:452:G:N3	1:AA:457:A:H2	2.08	0.50
1:AA:580:C:H2'	1:AA:581:C:H6	1.75	0.50
16:A1:40:PHE:HE2	17:A2:83:ARG:HH22	1.59	0.50
31:BA:1124:G:O2'	31:BA:1125:U:O5'	2.30	0.50
20:AU:42:VAL:CG2	20:AU:65:ALA:HB3	2.41	0.50
32:CE:83:MET:O	32:CE:86:GLU:N	2.44	0.50
55:DA:1019:U:H2'	55:DA:1020:A:C8	2.46	0.50
1:AA:2528:U:O2'	1:AA:2529:G:H5''	2.11	0.50
12:DP:75:THR:HA	12:DP:88:GLY:O	2.11	0.50
37:BJ:44:TYR:HA	37:BJ:47:CYS:SG	2.51	0.50
20:AU:83:THR:HG22	20:AU:85:VAL:H	1.77	0.50
20:AU:46:LYS:O	20:AU:48:ALA:N	2.42	0.50
55:DA:654(T):A:H2'	55:DA:654(U):A:O4'	2.11	0.50
1:AA:89:G:OP2	1:AA:90:U:H6	1.94	0.50
50:CW:96:GLY:O	50:CW:97:ALA:CB	2.58	0.50
12:DP:118:LEU:HD13	12:DP:131:ILE:HG23	1.93	0.50
38:CK:42:GLU:HG3	38:CK:109:ILE:CD1	2.37	0.50
48:BU:22:VAL:O	48:BU:24:ALA:N	2.45	0.50
8:DK:52:ARG:HH11	8:DK:52:ARG:CB	2.25	0.50
55:DA:2646:C:OP2	55:DA:2732:G:O2'	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AP:133:ARG:O	12:AP:134:ARG:CB	2.59	0.50
33:BF:154:SER:O	33:BF:155:GLY:O	2.30	0.50
31:BA:1106:G:H4'	33:BF:171:GLY:O	2.11	0.50
55:DA:2297:C:O2'	55:DA:2298:A:H5'	2.11	0.50
1:AA:598:G:H5'	11:AO:11:GLY:HA3	1.94	0.50
7:AH:33:LEU:HD11	7:AH:79:VAL:HG13	1.93	0.50
55:DA:1785:A:H2'	55:DA:1787:A:N7	2.26	0.50
14:AQ:61:ASN:O	14:AQ:65:VAL:HG23	2.11	0.50
34:CG:9:CYS:C	34:CG:11:LEU:N	2.65	0.50
1:AA:2129:C:N4	1:AA:2130:U:O4	2.44	0.50
11:DO:35:HIS:O	11:DO:36:LYS:C	2.48	0.50
31:BA:1236:A:H4'	31:BA:1304:G:H4'	1.92	0.50
32:BE:92:TYR:HE2	32:BE:151:GLY:N	2.09	0.50
33:CF:52:LEU:CD2	33:CF:52:LEU:H	2.24	0.50
54:CA:1116:C:H2'	54:CA:1117:G:H5'	1.92	0.50
1:AA:1728:G:N1	1:AA:1730:U:OP2	2.44	0.50
55:DA:6:A:H2'	55:DA:7:G:O4'	2.12	0.50
1:AA:529:A:C5'	1:AA:530:G:OP1	2.57	0.50
31:BA:1075:C:H4'	31:BA:1101:A:N6	2.26	0.50
2:AB:11:C:H3'	2:AB:12:C:C5	2.46	0.50
1:AA:2848:G:HO2'	1:AA:2849:U:P	2.34	0.50
31:BA:1020:U:H2'	31:BA:1021:G:C5'	2.40	0.50
22:A3:43:THR:C	22:A3:45:PHE:H	2.14	0.50
4:DE:131:ALA:O	4:DE:132:HIS:CB	2.60	0.50
55:DA:1280:G:C2'	55:DA:1281:G:C5'	2.87	0.50
55:DA:1281:G:O2'	55:DA:1282:U:H5'	2.11	0.50
43:BP:110:ARG:HG2	43:BP:110:ARG:HH11	1.76	0.50
36:BI:44:GLY:O	36:BI:46:ARG:HG3	2.12	0.50
1:AA:234:C:O2'	1:AA:235:U:H5'	2.12	0.50
1:AA:1347:G:N3	29:A7:49:ARG:NH2	2.58	0.50
18:AS:50:VAL:HG11	18:AS:103:ILE:HG21	1.92	0.50
1:AA:729:G:H5'	1:AA:730:C:H5''	1.93	0.50
7:DH:16:SER:HB3	7:DH:26:VAL:O	2.12	0.50
16:D1:24:TYR:HE1	16:D1:39:LEU:CD2	2.25	0.50
31:BA:1056:U:C5'	33:BF:163:ALA:HB2	2.42	0.50
1:AA:1530:G:H2'	1:AA:1531:C:H6	1.76	0.50
6:AG:51:ARG:CB	6:AG:51:ARG:NH1	2.75	0.50
1:AA:1001:A:H2'	1:AA:1002:G:H5'	1.94	0.50
55:DA:1614:A:N1	18:DS:91:GLY:HA2	2.26	0.50
47:CT:13:ASP:C	47:CT:15:MET:H	2.14	0.50
55:DA:2453:A:O2'	55:DA:2572:A:H1'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2178:C:O2'	1:AA:2179:C:H5'	2.11	0.50
55:DA:1831:G:H2'	55:DA:1832:C:C6	2.47	0.50
49:CV:25:LYS:HA	49:CV:25:LYS:HZ1	1.76	0.50
1:AA:2563:U:H2'	1:AA:2565:A:OP2	2.10	0.50
18:DS:14:PRO:HG2	18:DS:78:GLU:CG	2.41	0.50
58:DL:52:ILE:HG12	58:DL:76:TYR:CA	2.41	0.50
58:DL:87:GLY:C	58:DL:96:VAL:HG11	2.32	0.50
57:DY:25:PHE:O	57:DY:112:LEU:HA	2.12	0.50
1:AA:896:A:C2	21:AV:178:GLU:CG	2.90	0.50
55:DA:1075:C:C4'	21:DV:195:GLU:CG	2.58	0.50
11:AO:52:GLU:CB	11:AO:55:ARG:HD2	2.41	0.50
1:AA:887:A:N6	1:AA:889:C:C6	2.73	0.50
12:AP:75:THR:HG22	12:AP:88:GLY:CA	2.28	0.50
54:CA:522:C:H41	42:CO:53:ARG:NH2	2.10	0.50
3:DD:27:THR:O	3:DD:28:GLU:CB	2.59	0.50
3:DD:95:LEU:HD11	3:DD:97:TYR:HE1	1.76	0.50
6:AG:61:ALA:HA	6:AG:64:THR:HG22	1.93	0.50
15:AR:27:THR:CG2	15:AR:90:GLN:HB3	2.40	0.50
40:BM:30:SER:HB2	40:BM:81:THR:HA	1.94	0.50
20:DU:43:ASN:CB	20:DU:64:GLU:HA	2.41	0.50
44:CQ:24:CYS:SG	44:CQ:27:CYS:N	2.84	0.50
46:CS:53:VAL:HG23	46:CS:54:GLU:N	2.26	0.50
1:AA:2787:C:O2	1:AA:2787:C:H2'	2.11	0.50
1:AA:2808:U:H2'	1:AA:2809:A:H8	1.75	0.50
4:AE:52:LEU:O	4:AE:74:PRO:CA	2.57	0.50
9:DM:94:HIS:CD2	9:DM:97:ARG:HH21	2.30	0.50
9:DM:96:GLU:CG	9:DM:97:ARG:N	2.73	0.50
54:CA:1400:C:C4'	54:CA:1401:G:OP2	2.60	0.50
32:CE:168:THR:HG23	32:CE:169:LYS:H	1.77	0.50
32:CE:47:THR:O	32:CE:50:GLU:HB2	2.11	0.50
1:AA:2495:G:OP1	22:A3:4:LYS:HE3	2.12	0.50
16:D1:88:ILE:N	16:D1:88:ILE:HD13	2.23	0.50
5:AF:185:ASP:HA	5:AF:188:ARG:HE	1.77	0.50
32:BE:12:GLU:O	32:BE:14:GLY:N	2.44	0.50
55:DA:1798:U:H5'	3:DD:259:THR:CG2	2.29	0.50
1:AA:141:A:C8	1:AA:1408:C:H1'	2.45	0.50
1:AA:1802:A:N1	1:AA:1822:G:H1'	2.27	0.50
4:AE:199:ARG:CB	4:AE:199:ARG:NH1	2.75	0.50
48:BU:52:PRO:O	48:BU:56:THR:HG23	2.11	0.50
34:BG:100:ARG:NH1	34:BG:137:SER:CB	2.74	0.50
31:BA:518:C:H5'	31:BA:519:C:H6	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CF:131:ARG:HG3	33:CF:131:ARG:NH1	2.26	0.50
55:DA:445:C:C2'	55:DA:446:G:H5'	2.41	0.50
34:CG:112:VAL:HG12	34:CG:116:GLN:CD	2.31	0.50
55:DA:1347:G:O2'	55:DA:1348:G:H5'	2.11	0.50
7:AH:17:VAL:HA	7:AH:26:VAL:HA	1.91	0.50
31:BA:394:G:H2'	31:BA:395:C:H6	1.76	0.50
52:BC:18:G:O6	52:BC:55:U:H1'	2.11	0.50
31:BA:373:A:C2	31:BA:374:A:C8	2.99	0.50
1:AA:2173:A:C6	1:AA:2174:C:H1'	2.46	0.50
55:DA:1936:A:N3	55:DA:1945:G:C6	2.80	0.50
54:CA:381:C:H2'	54:CA:382:A:O4'	2.12	0.50
34:CG:58:LEU:O	34:CG:58:LEU:HD22	2.12	0.50
22:A3:47:PRO:HB2	22:A3:51:VAL:O	2.12	0.50
14:AQ:14:VAL:O	14:AQ:18:ILE:HG13	2.10	0.50
34:BG:96:LEU:HD12	34:BG:139:ARG:CZ	2.41	0.50
1:AA:922:U:H2'	1:AA:923:C:H6	1.71	0.50
54:CA:344:A:H3'	54:CA:346:G:O6	2.11	0.50
54:CA:346:G:C5'	15:DR:41:ARG:HD2	2.41	0.50
1:AA:361:G:N3	1:AA:362:U:H1'	2.26	0.50
39:CL:17:VAL:HG21	39:CL:80:GLY:HA3	1.92	0.50
54:CA:780:A:C2	54:CA:803:G:C6	3.00	0.50
55:DA:1204:A:O2'	55:DA:1205:U:P	2.69	0.50
45:CR:17:ARG:NH1	45:CR:77:ARG:CZ	2.75	0.50
1:AA:1879:C:H2'	1:AA:1880:C:H5'	1.93	0.50
52:CB:21:A:N7	52:CB:46:G:C6	2.80	0.50
16:A1:5:LYS:O	16:A1:6:THR:C	2.50	0.50
31:BA:277:C:H5'	47:BT:68:ARG:NH1	2.27	0.50
54:CA:922:G:C2	54:CA:923:A:C4	3.00	0.50
55:DA:1992:G:N2	55:DA:1996:C:O2'	2.44	0.50
48:CU:50:ILE:HD11	48:CU:74:ARG:NH1	2.26	0.50
4:AE:16:ARG:O	4:AE:17:ASP:HB3	2.12	0.50
37:BJ:153:HIS:C	37:BJ:155:ARG:H	2.15	0.50
36:BI:1:MET:HB2	36:BI:66:GLU:HG2	1.94	0.50
40:CM:31:GLY:HA2	40:CM:78:ASN:ND2	2.26	0.50
18:AS:55:ALA:O	18:AS:56:ALA:C	2.49	0.50
54:CA:243:A:C2	54:CA:245:C:H2'	2.47	0.50
55:DA:790:C:O2'	55:DA:791:C:H5'	2.11	0.50
38:BK:85:ARG:HG3	38:BK:85:ARG:HH11	1.76	0.50
32:BE:61:LEU:HG	32:BE:68:ILE:HD11	1.94	0.50
54:CA:1069:C:H2'	54:CA:1070:U:O5'	2.11	0.50
31:BA:191(F):U:O2	50:BW:105:SER:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1532:U:O5'	31:BA:1532:U:H6	1.94	0.50
1:AA:1678:G:N2	1:AA:1989:G:H1	2.09	0.50
31:BA:657:G:O2'	31:BA:658:G:H5'	2.12	0.50
1:AA:2271:G:H2'	1:AA:2272:U:C6	2.46	0.50
55:DA:833:U:H2'	55:DA:834:C:C6	2.47	0.50
1:AA:552:G:H2'	1:AA:553:U:O4'	2.11	0.50
19:DT:28:PHE:N	19:DT:28:PHE:CD1	2.79	0.50
3:AD:182:LEU:O	3:AD:271:ILE:HG13	2.12	0.50
35:BH:72:GLN:O	35:BH:73:ASN:HB2	2.12	0.50
55:DA:1262:A:N3	27:D5:10:LYS:HE3	2.27	0.50
10:DN:10:VAL:HG23	10:DN:17:ARG:O	2.11	0.50
40:CM:45:ARG:HG3	40:CM:45:ARG:HH11	1.76	0.50
32:BE:114:ARG:HA	32:BE:117:GLU:CG	2.42	0.50
4:AE:10:GLY:O	4:AE:11:MET:CB	2.60	0.50
58:DL:12:LEU:HD12	58:DL:13:PRO:C	2.31	0.50
58:DL:58:THR:CB	58:DL:66:THR:CG2	2.90	0.50
57:DY:75:GLN:OE1	57:DY:109:SER:CB	2.59	0.50
1:AA:894:C:C3'	1:AA:895:U:H6	2.08	0.50
21:AV:180:VAL:O	21:AV:181:GLU:O	2.30	0.50
31:BA:1356:G:H2'	31:BA:1357:A:C8	2.46	0.50
1:AA:644:A:H61	1:AA:2349:G:H1'	1.76	0.50
1:AA:1373:A:H2'	1:AA:1374:G:O4'	2.12	0.50
1:AA:864:G:H1'	1:AA:914:C:N4	2.27	0.50
21:DV:180:VAL:HG13	21:DV:181:GLU:H	1.72	0.50
26:A4:38:LYS:C	26:A4:38:LYS:HD2	2.30	0.50
6:AG:2:PRO:C	6:AG:4:ASP:H	2.15	0.50
43:BP:15:VAL:C	43:BP:17:VAL:N	2.65	0.50
27:D5:54:GLY:O	27:D5:55:ARG:C	2.49	0.50
55:DA:2808:U:O2'	55:DA:2809:A:H5'	2.12	0.50
55:DA:1177:A:H5"	55:DA:1178:C:C5'	2.42	0.50
17:A2:3:ALA:HB1	17:A2:38:LEU:HD22	1.94	0.50
1:AA:1930:G:H2'	1:AA:1931:U:OP2	2.12	0.50
1:AA:1940:U:H5'	1:AA:1965:C:C5	2.47	0.50
1:AA:65:C:O2'	1:AA:66:C:H5'	2.12	0.50
1:AA:1484:G:C3'	1:AA:1485:G:H5"	2.41	0.50
31:BA:429:U:H5'	34:BG:9:CYS:HB2	1.93	0.50
39:BL:4:TYR:CE2	39:BL:88:TYR:HB2	2.46	0.50
7:DH:103:LEU:CD2	7:DH:115:VAL:HB	2.41	0.50
7:DH:125:VAL:O	7:DH:125:VAL:HG12	2.12	0.50
32:CE:12:GLU:C	32:CE:14:GLY:N	2.65	0.50
32:CE:168:THR:HB	32:CE:192:SER:OG	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DG:129:GLY:HA2	6:DG:169:ALA:HB2	1.93	0.50
54:CA:1178:G:C8	54:CA:1180:A:OP2	2.65	0.50
54:CA:562:C:H2'	42:CO:16:GLU:O	2.10	0.50
1:AA:1022:G:O2'	1:AA:1023:U:OP2	2.30	0.50
21:AV:128:VAL:HG22	21:AV:129:SER:N	2.26	0.50
27:D5:40:LYS:HB2	27:D5:46:CYS:SG	2.51	0.50
5:AF:117:ARG:HH22	5:AF:187:VAL:HA	1.76	0.50
14:DQ:88:ASP:CG	14:DQ:90:GLY:H	2.14	0.50
55:DA:2418:A:H2'	55:DA:2419:U:C6	2.47	0.50
1:AA:2898:U:C2	1:AA:2899:G:C8	3.00	0.50
32:CE:122:PHE:HA	32:CE:139:LYS:HZ3	1.75	0.50
26:D4:50:VAL:O	26:D4:52:THR:N	2.45	0.50
43:BP:66:LEU:HA	43:BP:70:LEU:HD12	1.94	0.50
1:AA:1205:U:O2'	1:AA:1206:G:OP1	2.30	0.50
33:BF:58:GLU:HB2	33:BF:65:ALA:CB	2.41	0.50
33:CF:8:ILE:HG23	33:CF:16:ARG:HG2	1.94	0.50
1:AA:2355:C:H5'	22:A3:36:ILE:CD1	2.33	0.50
42:CO:60:LEU:N	42:CO:60:LEU:HD22	2.26	0.50
54:CA:430:A:OP1	34:CG:9:CYS:HB2	2.11	0.50
1:AA:13:A:H61	1:AA:525:U:H3'	1.77	0.50
1:AA:2173:A:H5''	1:AA:2174:C:C6	2.47	0.50
15:DR:86:ILE:O	15:DR:86:ILE:HG12	2.12	0.50
26:D4:39:CYS:C	26:D4:41:PRO:CD	2.80	0.50
54:CA:31:G:O2'	54:CA:32:A:O5'	2.27	0.50
1:AA:976:C:C5'	1:AA:1156:A:N6	2.72	0.50
33:CF:62:ASP:HA	33:CF:97:LYS:CD	2.42	0.50
1:AA:530:G:H2'	1:AA:531:C:OP2	2.11	0.50
31:BA:60:A:N6	31:BA:110:C:N3	2.58	0.50
55:DA:2188:C:H2'	55:DA:2189:U:O4'	2.12	0.50
55:DA:1887:C:H2'	55:DA:1888:G:H5''	1.93	0.50
38:BK:63:LEU:H	38:BK:63:LEU:HD22	1.76	0.50
27:D5:36:CYS:SG	27:D5:48:GLU:O	2.60	0.50
41:BN:16:SER:HA	41:BN:79:SER:O	2.12	0.50
54:CA:1250:A:H2'	54:CA:1251:A:C8	2.47	0.50
32:BE:36:ARG:HH11	32:BE:36:ARG:HG3	1.77	0.50
31:BA:1080:A:OP1	35:BH:47:LYS:HE3	2.11	0.50
34:CG:52:SER:HB3	34:CG:55:ALA:HB2	1.92	0.50
37:CJ:95:ARG:HH11	37:CJ:95:ARG:HG3	1.75	0.50
2:DB:116:G:H4'	14:DQ:54:LEU:CD1	2.41	0.50
55:DA:270(Q):C:H2'	55:DA:270(R):G:O4'	2.12	0.50
46:BS:21:VAL:O	46:BS:21:VAL:HG13	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:30:C:H4'	2:AB:58:A:H2	1.77	0.50
1:AA:780:G:OP1	3:AD:218:ARG:NH2	2.44	0.50
1:AA:1490:A:H4'	1:AA:1491:G:OP2	2.12	0.50
1:AA:1130:U:O2	1:AA:2025:C:H5'	2.11	0.50
55:DA:664:C:H4'	55:DA:941:A:OP1	2.12	0.50
55:DA:1751:C:O2'	55:DA:1752:C:H5'	2.11	0.50
33:BF:117:ALA:HB2	33:BF:200:ALA:HB2	1.93	0.50
54:CA:41:G:H2'	54:CA:42:G:C8	2.46	0.50
55:DA:721:C:O2	55:DA:721:C:H2'	2.11	0.50
32:CE:157:ARG:HG2	32:CE:158:LEU:HD12	1.94	0.50
31:BA:1114:C:H2'	31:BA:1115:C:H6	1.76	0.50
31:BA:593:G:O2'	31:BA:594:G:H5'	2.11	0.50
11:AO:27:HIS:ND1	11:AO:27:HIS:N	2.59	0.50
35:BH:140:ARG:O	35:BH:140:ARG:HG2	2.12	0.50
56:DI:3:LEU:CD2	56:DI:4:ASP:H	2.23	0.50
57:DY:89:ALA:CA	56:DJ:15:ALA:CB	2.90	0.50
57:DY:122:VAL:C	57:DY:126:ALA:H	2.14	0.50
57:DY:16:ASN:C	57:DY:16:ASN:OD1	2.49	0.50
57:DY:52:PHE:HD2	57:DY:52:PHE:H	1.56	0.50
21:AV:179:ASP:O	21:AV:179:ASP:OD2	2.30	0.50
49:BV:63:THR:H	49:BV:66:MET:CE	2.01	0.50
1:AA:945:A:O4'	1:AA:946:G:OP1	2.30	0.50
1:AA:952:G:P	12:AP:16:ARG:HH22	2.35	0.50
21:DV:178:GLU:HG3	21:DV:180:VAL:CA	2.41	0.50
3:DD:131:LEU:HB2	3:DD:136:ILE:CD1	2.42	0.50
3:DD:35:LYS:HD3	3:DD:63:ARG:C	2.32	0.50
6:AG:111:LEU:HB2	6:AG:112:PRO:HD3	1.92	0.50
31:BA:1353:G:O2'	31:BA:1354:C:H5'	2.12	0.50
8:AK:82:ARG:HH11	8:AK:146:ALA:H	1.60	0.50
55:DA:1379:A:O2'	55:DA:1380:G:OP1	2.30	0.50
1:AA:35:G:H2'	1:AA:36:G:O4'	2.11	0.50
54:CA:1281:U:H5'	54:CA:1282:C:OP2	2.12	0.50
31:BA:1027:C:C2	31:BA:1028:C:C5	2.99	0.50
52:BD:58:A:O2'	52:BD:59:U:P	2.70	0.50
21:AV:158:PRO:O	21:AV:161:VAL:CG2	2.60	0.50
13:D0:53:HIS:HA	13:D0:56:LYS:HB2	1.93	0.50
31:BA:152:A:C8	31:BA:153:C:C5	3.00	0.50
55:DA:2119:A:N6	55:DA:2170:A:N7	2.58	0.50
31:BA:792:A:O2'	31:BA:793:U:P	2.69	0.50
55:DA:1289:C:H2'	55:DA:1290:C:H6	1.76	0.50
47:CT:67:LYS:CA	47:CT:70:ARG:HH12	2.08	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:47:LYS:C	20:AU:49:VAL:H	2.15	0.50
20:AU:47:LYS:HG3	20:AU:60:PHE:CD1	2.45	0.50
5:AF:3:GLU:HA	5:AF:24:LEU:CD2	2.40	0.50
55:DA:654(C):G:C2	55:DA:654(D):G:C4	2.99	0.50
3:AD:25:THR:C	3:AD:27:THR:H	2.14	0.50
1:AA:26:G:C2	1:AA:27:G:N2	2.80	0.50
55:DA:2468:G:O2'	55:DA:2469:A:O5'	2.30	0.50
8:DK:18:VAL:O	8:DK:18:VAL:HG12	2.10	0.50
54:CA:1347:G:C8	39:CL:107:ARG:HB3	2.47	0.50
55:DA:1826:G:H2'	55:DA:1827:C:H6	1.76	0.50
1:AA:1992:G:O2'	1:AA:1993:U:OP2	2.22	0.50
55:DA:1047:G:C2'	55:DA:1110:G:H22	2.23	0.50
55:DA:2317:C:O2'	55:DA:2318:G:H5'	2.11	0.50
1:AA:322:A:O4'	1:AA:322:A:OP2	2.30	0.50
54:CA:1189:C:H5''	33:CF:5:ILE:CG2	2.34	0.50
33:CF:6:HIS:HD2	33:CF:8:ILE:H	1.60	0.50
2:AB:7:G:H3'	2:AB:8:U:C5'	2.36	0.50
55:DA:1507:A:C3'	55:DA:1508:A:H5''	2.34	0.50
7:AH:13:LYS:O	7:AH:15:VAL:HG13	2.11	0.50
1:AA:1161:C:C1'	17:A2:8:GLY:O	2.56	0.50
35:CH:140:ARG:HH11	35:CH:140:ARG:HB3	1.77	0.50
12:DP:20:ALA:CB	12:DP:99:PRO:HD2	2.42	0.50
21:DV:130:PRO:HA	21:DV:133:ILE:CD1	2.37	0.50
54:CA:152:A:H62	54:CA:169:C:H42	1.58	0.50
54:CA:152:A:N6	54:CA:169:C:H42	2.10	0.50
34:CG:61:LYS:HE2	34:CG:65:ARG:HD2	1.93	0.50
5:AF:65:TRP:HZ3	5:AF:73:ALA:O	1.94	0.50
29:A7:10:ARG:O	29:A7:14:LYS:HB2	2.12	0.50
39:CL:47:LEU:HD13	39:CL:47:LEU:N	2.27	0.50
2:AB:56:G:H4'	2:AB:57:A:C8	2.46	0.50
54:CA:890:G:O2'	54:CA:906:G:N1	2.44	0.50
54:CA:664:G:N2	54:CA:741:G:H1	2.07	0.50
7:DH:30:LYS:HB2	7:DH:79:VAL:O	2.12	0.50
54:CA:1179:A:H5''	39:CL:102:LEU:O	2.11	0.50
55:DA:1887:C:C2'	55:DA:1888:G:H5''	2.41	0.50
42:BO:79:GLU:HG3	42:BO:80:HIS:CG	2.47	0.50
42:BO:91:LYS:HG2	42:BO:91:LYS:O	2.11	0.50
52:CB:11:C:H2'	52:CB:12:U:H6	1.76	0.50
44:BQ:26:ARG:HD3	44:BQ:43:CYS:SG	2.52	0.50
16:A1:5:LYS:NZ	16:A1:5:LYS:CB	2.74	0.50
18:DS:70:TYR:N	18:DS:70:TYR:HD2	2.07	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BP:94:ARG:HG3	43:BP:96:LEU:HG	1.94	0.50
1:AA:1695:G:N7	3:AD:14:ARG:NH2	2.59	0.50
55:DA:2035:G:H4'	55:DA:2036:C:OP2	2.12	0.50
16:A1:17:ILE:HG23	16:A1:39:LEU:HD12	1.94	0.50
2:DB:65:C:C2'	2:DB:66:A:H5'	2.41	0.50
52:CD:37:MIA:H3'	52:CD:38:A:C8	2.47	0.50
1:AA:2300:G:H2'	1:AA:2301:C:H6	1.77	0.50
1:AA:270:A:C2'	1:AA:270(A):A:H5'	2.42	0.50
54:CA:1538:C:H2'	54:CA:1539:C:C6	2.46	0.50
32:BE:114:ARG:HA	32:BE:117:GLU:HG3	1.93	0.50
50:BW:93:GLU:OE1	50:BW:94:ALA:N	2.45	0.50
1:AA:2886:G:H2'	1:AA:2887:U:H6	1.77	0.50
33:BF:173:VAL:N	33:BF:174:PRO:HD3	2.27	0.50
42:CO:41:ARG:HH11	42:CO:41:ARG:HG3	1.77	0.50
1:AA:2820:A:N3	13:A0:4:LEU:HD21	2.27	0.50
4:AE:24:THR:HG23	4:AE:186:GLY:HA2	1.94	0.50
55:DA:1062:G:N2	55:DA:1077:A:N7	2.56	0.50
58:DL:109:LYS:C	58:DL:111:LYS:H	2.13	0.50
57:DY:122:VAL:CB	57:DY:126:ALA:CB	2.90	0.50
57:DY:122:VAL:HB	57:DY:126:ALA:HB3	1.93	0.50
57:DY:73:GLY:O	57:DY:119:ALA:CB	2.59	0.50
21:DV:194:PRO:HG2	21:DV:196:VAL:HG12	1.84	0.50
26:A4:58:ARG:HD2	26:A4:58:ARG:C	2.32	0.50
30:A8:32:LEU:CD2	30:A8:33:ASN:N	2.75	0.50
2:AB:81:G:N2	2:AB:82:G:O6	2.44	0.50
52:CB:18:G:O2'	52:CB:60:U:N3	2.45	0.50
21:DV:174:VAL:C	21:DV:175:VAL:HG22	2.31	0.50
2:AB:44:G:H1'	2:AB:47:C:H42	1.76	0.50
4:DE:35:GLN:CD	4:DE:37:ARG:HG2	2.33	0.50
4:DE:64:LYS:C	4:DE:66:HIS:N	2.64	0.50
4:DE:78:LEU:CD2	4:DE:79:ARG:HB2	2.32	0.50
55:DA:2377:A:O2'	55:DA:2378:A:H5'	2.11	0.50
55:DA:695:G:OP1	55:DA:1380:G:O2'	2.29	0.50
28:D6:20:ASN:CG	28:D6:21:TYR:N	2.61	0.50
28:D6:34:LEU:O	28:D6:36:LEU:HB3	2.12	0.50
28:D6:14:THR:HG22	28:D6:50:ARG:O	2.12	0.50
16:A1:90:VAL:HG13	17:A2:39:LEU:HB2	1.94	0.50
17:A2:32:THR:HG22	17:A2:58:VAL:CG1	2.42	0.50
20:DU:97:ARG:CD	20:DU:97:ARG:H	2.18	0.50
52:BB:75:C:C6	52:BB:75:C:H3'	2.46	0.50
4:AE:63:LEU:O	4:AE:63:LEU:HD23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BM:5:ARG:HG3	40:BM:71:LEU:HD11	1.94	0.50
1:AA:1050:A:H1'	1:AA:2751:G:H22	1.77	0.50
31:BA:889:A:O3'	31:BA:890:G:C4'	2.56	0.50
17:D2:99:ILE:HD13	17:D2:99:ILE:N	2.25	0.50
54:CA:1124:G:H8	54:CA:1124:G:OP2	1.95	0.50
54:CA:1128:C:N3	54:CA:1139:G:N1	2.60	0.50
52:CD:18:G:O2'	52:CD:19:G:P	2.70	0.50
16:D1:92:ARG:CZ	16:D1:94:ASN:HD22	2.25	0.50
23:AZ:86:SER:O	23:AZ:87:PRO:C	2.49	0.50
54:CA:562:C:C2	42:CO:16:GLU:HB3	2.47	0.50
31:BA:1118:C:O2'	31:BA:1119:C:H5'	2.12	0.50
7:DH:7:LEU:N	7:DH:8:PRO:CD	2.74	0.50
1:AA:2653:U:C2	1:AA:2654:A:N7	2.80	0.50
5:AF:117:ARG:HG3	5:AF:122:LYS:HB2	1.92	0.50
32:BE:163:PHE:HA	32:BE:185:ILE:HG13	1.94	0.50
6:DG:82:LEU:HA	6:DG:86:MET:SD	2.52	0.50
55:DA:2059:A:O3'	5:DF:69:HIS:HA	2.12	0.50
6:DG:95:ARG:O	6:DG:96:ARG:O	2.30	0.50
24:AW:70:GLN:CG	24:AW:71:ASN:H	2.09	0.50
31:BA:1178:G:N2	31:BA:1181:G:O6	2.44	0.50
33:BF:41:GLY:C	33:BF:45:LYS:HE3	2.32	0.50
55:DA:1799:G:N3	55:DA:1800:C:H5	2.10	0.50
55:DA:990:A:N6	55:DA:1186:G:H1'	2.27	0.50
31:BA:713:G:H21	31:BA:777:A:C4'	2.25	0.50
1:AA:1272:A:C5	1:AA:1618:A:H1'	2.47	0.50
55:DA:2657:A:C4	55:DA:2665:A:N6	2.79	0.50
52:BC:18:G:N2	52:BC:58:A:O4'	2.45	0.50
43:CP:115:LYS:O	43:CP:117:VAL:HG13	2.11	0.50
55:DA:805:G:N2	55:DA:829:A:OP1	2.44	0.50
46:BS:54:GLU:O	46:BS:57:ARG:HB2	2.12	0.50
55:DA:1155:A:O3'	16:D1:55:ARG:NH1	2.45	0.50
33:CF:119:ARG:HG3	33:CF:119:ARG:HH11	1.77	0.50
54:CA:112:G:C4'	54:CA:389:A:H5''	2.41	0.50
25:DX:38:GLU:C	25:DX:40:THR:H	2.15	0.50
39:CL:47:LEU:C	39:CL:49:PRO:HD2	2.32	0.50
54:CA:60:A:O2'	54:CA:61:G:OP2	2.30	0.50
10:DN:104:ARG:CZ	15:DR:34:VAL:HG11	2.42	0.50
1:AA:532:A:O2'	1:AA:533:G:OP2	2.30	0.50
54:CA:1240:U:OP2	37:CJ:116:ALA:HB2	2.11	0.50
1:AA:2182:G:H2'	1:AA:2183:C:C6	2.47	0.50
44:CQ:47:LEU:O	44:CQ:50:LYS:HG3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BN:84:VAL:HG11	41:BN:95:ILE:HD11	1.93	0.50
38:BK:89:PRO:HA	38:BK:92:ARG:NH1	2.24	0.50
55:DA:2302:G:C6	55:DA:2303:G:N7	2.79	0.50
53:B1:42:U:O2'	53:B1:44:U:OP2	2.27	0.50
1:AA:17:G:H4'	16:A1:25:TRP:CZ3	2.47	0.50
15:AR:97:ALA:HB1	15:AR:98:LYS:NZ	2.26	0.50
31:BA:1541:U:O2	31:BA:1541:U:C2'	2.60	0.50
3:AD:166:GLN:NE2	3:AD:166:GLN:HA	2.26	0.50
54:CA:179:A:C2'	54:CA:180:U:H5'	2.42	0.50
36:BI:36:ARG:HG2	36:BI:36:ARG:O	2.12	0.50
5:DF:174:VAL:O	5:DF:174:VAL:CG2	2.60	0.50
5:DF:36:VAL:HG11	5:DF:183:VAL:CG1	2.41	0.50
37:CJ:54:THR:HG23	37:CJ:54:THR:O	2.12	0.50
6:AG:51:ARG:HB2	6:AG:51:ARG:CZ	2.41	0.50
36:CI:49:ALA:HB1	48:CU:80:PRO:HG3	1.93	0.50
45:BR:30:ALA:HA	45:BR:85:LEU:HD11	1.93	0.50
45:BR:32:LEU:O	45:BR:36:ILE:HG13	2.11	0.50
29:D7:20:ALA:HA	29:D7:23:ARG:CZ	2.42	0.50
54:CA:127:G:OP1	54:CA:635:G:H1'	2.11	0.50
39:CL:117:HIS:CD2	39:CL:123:PRO:HA	2.47	0.50
56:DI:4:ASP:HA	56:DI:7:ARG:CD	2.37	0.50
57:DY:64:LYS:O	57:DY:65:GLU:HB2	2.11	0.50
21:AV:145:GLU:O	21:AV:145:GLU:OE1	2.30	0.50
52:BB:19:G:O2'	52:BB:20:U:OP2	2.29	0.50
31:BA:1305:G:O2'	31:BA:1306:A:O5'	2.29	0.50
31:BA:992:U:H4'	31:BA:993:G:O5'	2.12	0.50
44:BQ:17:LYS:O	44:BQ:20:ALA:HB3	2.12	0.50
30:A8:32:LEU:CB	30:A8:36:LYS:NZ	2.75	0.50
43:BP:84:ILE:HG22	43:BP:85:GLY:N	2.27	0.50
1:AA:954:G:H2'	1:AA:2274:A:C2	2.46	0.50
42:CO:45:PRO:C	42:CO:46:LYS:O	2.48	0.50
21:DV:116:VAL:HG12	21:DV:118:GLN:CG	2.39	0.50
49:CV:41:VAL:HA	49:CV:44:MET:CG	2.41	0.50
26:D4:56:VAL:HA	26:D4:60:GLN:HG2	1.94	0.50
26:D4:56:VAL:O	26:D4:57:GLU:C	2.50	0.50
54:CA:1003:G:N2	54:CA:1004:A:O3'	2.40	0.50
20:DU:46:LYS:O	20:DU:48:ALA:N	2.45	0.50
4:DE:34:VAL:HG23	4:DE:48:GLN:HB2	1.94	0.50
8:AK:78:THR:HG23	8:AK:80:PRO:HD3	1.93	0.50
8:DK:129:THR:HA	8:DK:137:PRO:HA	1.94	0.50
28:D6:36:LEU:HD23	28:D6:36:LEU:C	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:A1:92:ARG:C	16:A1:94:ASN:N	2.64	0.50
16:A1:65:ILE:HD11	16:A1:96:ALA:HB3	1.92	0.50
55:DA:654(L):G:C4	55:DA:654(M):C:C6	2.99	0.50
34:BG:9:CYS:HA	34:BG:12:CYS:H	1.77	0.50
4:AE:61:ARG:N	4:AE:62:PRO:HD2	2.27	0.50
39:BL:17:VAL:HG22	39:BL:63:ILE:HG12	1.94	0.50
1:AA:2489:G:O2'	1:AA:2518:A:N6	2.40	0.50
32:CE:93:VAL:HG11	32:CE:97:TRP:CD1	2.47	0.50
31:BA:1037:C:H6	31:BA:1037:C:O5'	1.95	0.50
45:CR:76:GLU:C	45:CR:78:TYR:H	2.14	0.50
6:DG:115:ARG:CG	6:DG:115:ARG:HH11	2.25	0.50
17:D2:39:LEU:HD13	17:D2:39:LEU:N	2.27	0.50
23:AZ:96:LYS:HG3	23:AZ:97:LEU:H	1.77	0.50
20:AU:81:LYS:NZ	20:AU:97:ARG:NH2	2.59	0.50
27:D5:42:PRO:HB2	27:D5:43:HIS:HD2	1.77	0.50
54:CA:191(D):U:H2'	54:CA:191(E):G:C8	2.47	0.50
1:AA:2111:C:O2	1:AA:2118:U:O2'	2.30	0.50
55:DA:2468:G:O2'	55:DA:2469:A:OP2	2.30	0.50
55:DA:2481:G:O2'	55:DA:2482:G:O5'	2.30	0.50
26:A4:47:GLN:O	26:A4:48:ARG:C	2.51	0.50
12:AP:33:GLY:HA2	12:AP:105:GLU:CA	2.41	0.50
31:BA:1206:G:O2'	33:BF:193:TYR:HA	2.12	0.50
31:BA:517:G:C6	31:BA:531:U:H1'	2.47	0.50
34:CG:150:GLU:H	34:CG:150:GLU:CD	2.15	0.50
40:CM:39:PRO:CB	40:CM:70:ARG:HH12	2.20	0.50
55:DA:2655:G:C2'	55:DA:2656:U:OP2	2.60	0.50
12:DP:18:LYS:O	12:DP:19:GLY:O	2.30	0.50
35:CH:7:GLU:OE2	35:CH:7:GLU:HA	2.12	0.50
31:BA:1270:C:O2'	31:BA:1271:G:H5'	2.11	0.50
7:AH:89:ILE:CD1	7:AH:90:LYS:H	2.25	0.50
55:DA:2392:A:C2	55:DA:2424:C:N4	2.76	0.50
10:DN:34:THR:O	10:DN:62:VAL:HB	2.11	0.50
9:AM:120:LEU:HD21	9:AM:122:VAL:CG2	2.39	0.50
55:DA:5:A:C2'	55:DA:6:A:H5'	2.42	0.50
40:CM:75:ILE:HG13	40:CM:76:ASN:N	2.23	0.50
1:AA:2029:G:N1	1:AA:2033:A:OP1	2.45	0.50
39:CL:5:TYR:HD2	39:CL:6:GLY:H	1.57	0.50
1:AA:704:G:HO2'	1:AA:705:A:P	2.35	0.50
1:AA:704:G:O2'	1:AA:705:A:P	2.70	0.50
1:AA:705:A:H62	1:AA:726:G:H1'	1.75	0.50
8:DK:33:ARG:HB3	8:DK:35:LEU:HG	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DK:30:LEU:HB3	8:DK:36:ALA:HB3	1.92	0.50
50:BW:87:LYS:O	50:BW:88:VAL:C	2.49	0.50
45:CR:56:LEU:HA	45:CR:59:MET:CE	2.41	0.50
55:DA:1680:U:O2	55:DA:1763:G:H3'	2.11	0.50
1:AA:200:U:H4'	23:AZ:34:THR:CG2	2.42	0.50
35:CH:126:ARG:HG3	35:CH:126:ARG:NH1	2.26	0.50
13:D0:42:LYS:CA	13:D0:45:ARG:HH11	2.25	0.50
55:DA:814:C:H4'	55:DA:1225:C:O2	2.11	0.50
54:CA:243:A:O2'	54:CA:244:U:OP2	2.26	0.50
14:AQ:42:ASP:C	14:AQ:44:LYS:H	2.14	0.50
31:BA:1001:G:H5'	31:BA:1001:G:H8	1.77	0.50
55:DA:654(H):G:O5'	55:DA:654(H):G:H8	1.94	0.50
54:CA:1326:C:O2'	54:CA:1327:C:H5'	2.12	0.50
7:DH:26:VAL:HG13	7:DH:27:LYS:N	2.26	0.50
52:BC:65:G:H2'	52:BC:66:U:H6	1.76	0.50
7:DH:34:GLU:O	7:DH:36:PRO:HD3	2.12	0.50
31:BA:1050:G:H2'	31:BA:1050:G:N3	2.27	0.50
42:BO:127:GLU:O	42:BO:128:ALA:HB3	2.12	0.50
6:DG:49:ASP:HB3	6:DG:52:ILE:HG12	1.94	0.50
55:DA:579:G:H2'	55:DA:580:C:C6	2.46	0.50
55:DA:2123:G:O2'	55:DA:2124:G:H5'	2.11	0.50
40:CM:22:LYS:HD2	40:CM:22:LYS:C	2.32	0.50
15:DR:29:ARG:HH11	15:DR:29:ARG:HB2	1.77	0.50
31:BA:894:G:O2'	31:BA:895:G:H5'	2.12	0.50
16:D1:106:PHE:O	16:D1:109:LEU:HB2	2.11	0.50
55:DA:1062:G:H2'	55:DA:1077:A:N6	2.26	0.49
57:DY:40:LEU:O	57:DY:41:ARG:CB	2.59	0.49
57:DY:43:ALA:O	57:DY:44:LEU:HB2	2.12	0.49
55:DA:1046:A:O2'	57:DY:57:THR:HA	2.11	0.49
26:A4:56:VAL:HG12	26:A4:57:GLU:N	2.27	0.49
31:BA:942:G:N2	39:BL:124:GLN:NE2	2.58	0.49
44:BQ:15:LYS:HA	44:BQ:15:LYS:HE2	1.94	0.49
1:AA:2346:A:H5'	1:AA:2383:G:H1'	1.93	0.49
26:D4:68:ARG:CB	26:D4:68:ARG:CZ	2.90	0.49
1:AA:818:G:N1	1:AA:1188:U:OP2	2.32	0.49
1:AA:919:G:H5''	2:AB:81:G:H1'	1.93	0.49
15:AR:16:ARG:HG3	15:AR:79:HIS:HA	1.94	0.49
54:CA:1003:G:C2	54:CA:1004:A:H4'	2.47	0.49
4:DE:67:PHE:C	4:DE:69:LYS:H	2.09	0.49
54:CA:464:G:O6	54:CA:466:C:H5''	2.12	0.49
1:AA:580:C:H2'	1:AA:581:C:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DM:60:ILE:HD13	9:DM:60:ILE:H	1.77	0.49
14:DQ:66:ALA:O	14:DQ:69:VAL:CG1	2.60	0.49
1:AA:1110:G:O2'	1:AA:1111:A:O4'	2.30	0.49
33:CF:70:VAL:HG21	33:CF:76:VAL:CG1	2.42	0.49
55:DA:1608:A:C4'	55:DA:1609:A:OP1	2.60	0.49
39:BL:10:ARG:HD3	39:BL:75:ASP:OD1	2.12	0.49
21:AV:56:VAL:HG12	21:AV:57:ILE:N	2.26	0.49
20:AU:17:SER:HB3	20:AU:71:LYS:HD2	1.93	0.49
1:AA:2654:A:C4	1:AA:2656:U:O2	2.65	0.49
7:AH:94:TYR:N	7:AH:94:TYR:CD1	2.80	0.49
10:AN:8:LEU:HD23	10:AN:8:LEU:N	2.26	0.49
39:CL:79:LEU:HD13	39:CL:83:ARG:HD2	1.93	0.49
32:BE:5:ILE:HD12	32:BE:59:GLU:CB	2.42	0.49
6:DG:77:ILE:O	6:DG:77:ILE:CG2	2.60	0.49
3:AD:24:ILE:HD11	3:AD:84:TYR:N	2.27	0.49
55:DA:2712:U:O2'	55:DA:2712(A):A:OP1	2.30	0.49
1:AA:2012:G:O5'	1:AA:2012:G:H8	1.95	0.49
1:AA:141(A):C:H6	1:AA:141(A):C:O5'	1.95	0.49
8:AK:5:LEU:CD1	8:AK:19:VAL:HG12	2.30	0.49
3:DD:44:ASN:C	3:DD:44:ASN:ND2	2.64	0.49
55:DA:1926:U:O4'	55:DA:1929:G:O6	2.30	0.49
37:BJ:113:GLU:HB3	37:BJ:118:VAL:CG2	2.42	0.49
35:CH:74:GLY:O	35:CH:115:VAL:HA	2.12	0.49
31:BA:1182:G:H4'	31:BA:1183:A:C5'	2.42	0.49
54:CA:1540:U:N3	54:CA:1541:U:H1'	2.27	0.49
54:CA:1094:G:C2'	54:CA:1095:U:OP2	2.59	0.49
26:A4:50:VAL:O	26:A4:50:VAL:HG22	2.11	0.49
26:A4:51:ASP:O	26:A4:52:THR:C	2.50	0.49
42:BO:33:ARG:HE	42:BO:33:ARG:HA	1.77	0.49
42:BO:55:VAL:HG12	42:BO:56:ALA:N	2.26	0.49
36:BI:8:ILE:HG21	36:BI:26:ILE:CD1	2.42	0.49
34:CG:47:ARG:NH2	53:C1:57:U:C5	2.63	0.49
1:AA:288:C:O2	1:AA:288:C:H2'	2.13	0.49
33:BF:21:ARG:O	33:BF:22:TRP:HB3	2.12	0.49
44:BQ:39:LEU:HD13	44:BQ:47:LEU:HD12	1.94	0.49
55:DA:528:A:C3'	55:DA:529:A:C5'	2.86	0.49
55:DA:528:A:H3'	55:DA:529:A:H5''	1.90	0.49
36:CI:19:LEU:HD23	36:CI:19:LEU:C	2.32	0.49
31:BA:704:A:N3	31:BA:704:A:H2'	2.27	0.49
55:DA:2432:A:H2'	55:DA:2433:A:C8	2.46	0.49
55:DA:536:A:P	16:D1:53:ARG:NH1	2.85	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2210:G:O2'	1:AA:2211:G:OP1	2.24	0.49
31:BA:737:A:H1'	36:BI:73:ASN:ND2	2.27	0.49
1:AA:1729:A:N6	1:AA:1731:G:N7	2.60	0.49
55:DA:189:G:N1	55:DA:205:G:O2'	2.38	0.49
55:DA:1:G:H2'	55:DA:2:G:H8	1.76	0.49
55:DA:2614:A:C4'	55:DA:2615:U:OP1	2.60	0.49
22:A3:45:PHE:CE2	22:A3:69:PHE:HE2	2.31	0.49
31:BA:450:G:H5'	46:BS:41:PRO:O	2.12	0.49
12:DP:109:VAL:HG13	12:DP:110:THR:H	1.76	0.49
54:CA:1015:A:H1'	54:CA:1218:C:O2'	2.12	0.49
34:CG:108:LEU:HB3	34:CG:110:PHE:CD1	2.47	0.49
55:DA:1429:G:H2'	55:DA:1430:C:H6	1.73	0.49
31:BA:321:A:H2'	31:BA:322:C:C6	2.47	0.49
55:DA:1657:C:H2'	55:DA:1658:C:C6	2.47	0.49
19:AT:89:ILE:CG2	19:AT:92:LEU:HG	2.42	0.49
31:BA:1064:G:HO2'	31:BA:1065:U:P	2.34	0.49
31:BA:160:A:O2'	31:BA:344:A:N6	2.45	0.49
4:DE:176:ILE:HG22	4:DE:179:GLU:H	1.76	0.49
55:DA:1493:C:H4'	55:DA:1494:A:OP1	2.12	0.49
41:BN:96:ARG:HA	41:BN:99:GLN:HG2	1.94	0.49
54:CA:552:U:C2'	54:CA:553:A:H5'	2.41	0.49
55:DA:1694:C:H1'	55:DA:1695:G:C2	2.46	0.49
55:DA:1695:G:H1'	3:DD:8:PRO:O	2.12	0.49
55:DA:2227:A:H5'	3:DD:263:ARG:NH1	2.26	0.49
55:DA:191:A:H2'	55:DA:192:C:H6	1.77	0.49
54:CA:662:G:O2'	54:CA:836:G:C5'	2.59	0.49
55:DA:1630:G:H2'	55:DA:1630(A):C:C6	2.47	0.49
1:AA:234:C:H2'	1:AA:235:U:C6	2.47	0.49
54:CA:136:C:H2'	54:CA:137:C:H6	1.77	0.49
31:BA:490:G:OP2	34:BG:132:ARG:NH2	2.39	0.49
55:DA:2526:G:H5'	55:DA:2742:C:O2'	2.12	0.49
55:DA:2740:A:C6	55:DA:2764:A:C8	3.00	0.49
6:AG:8:LYS:O	6:AG:11:TYR:HB3	2.12	0.49
55:DA:2439:A:H5'	55:DA:2439:A:H8	1.77	0.49
55:DA:2638:G:O2'	55:DA:2639:A:C8	2.65	0.49
31:BA:339:C:O2'	31:BA:340:U:H5'	2.12	0.49
27:D5:52:TYR:O	27:D5:53:ALA:HB2	2.12	0.49
55:DA:2690:C:OP2	13:D0:14:SER:HB3	2.12	0.49
2:AB:66:A:C2'	2:AB:67:G:OP2	2.60	0.49
54:CA:833:U:H2'	54:CA:834:C:H6	1.75	0.49
48:CU:33:ASP:O	48:CU:40:LEU:HD11	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BJ:95:ARG:HG3	37:BJ:95:ARG:HH11	1.76	0.49
5:AF:6:VAL:O	5:AF:6:VAL:HG12	2.12	0.49
56:DI:24:ILE:O	56:DI:25:ASP:C	2.49	0.49
57:DY:139:VAL:CG2	56:DJ:6:GLU:CD	2.77	0.49
58:DL:135:GLY:C	58:DL:136:VAL:CG1	2.80	0.49
58:DL:132:ARG:O	58:DL:137:GLU:OE2	2.30	0.49
58:DL:63:ARG:CA	58:DL:63:ARG:NE	2.73	0.49
58:DL:63:ARG:HA	58:DL:63:ARG:NE	2.26	0.49
57:DY:16:ASN:OD1	57:DY:25:PHE:CE2	2.65	0.49
57:DY:70:GLU:C	57:DY:113:GLN:CB	2.81	0.49
1:AA:2249:U:H4'	1:AA:2275:C:C5	2.47	0.49
1:AA:859:G:HO2'	1:AA:860:U:H6	1.53	0.49
54:CA:531:U:C4'	54:CA:532:A:OP1	2.60	0.49
1:AA:779:U:OP1	3:AD:49:ILE:CG2	2.60	0.49
3:DD:61:LEU:O	3:DD:63:ARG:NH1	2.45	0.49
6:AG:88:ILE:O	6:AG:88:ILE:HG23	2.12	0.49
43:BP:48:LEU:H	43:BP:48:LEU:CD2	2.24	0.49
1:AA:1379:A:O2'	1:AA:1380:G:OP1	2.29	0.49
13:D0:33:ARG:NH1	27:D5:57:VAL:HG23	2.27	0.49
43:CP:78:ILE:O	43:CP:81:LEU:HB2	2.11	0.49
49:CV:67:VAL:O	49:CV:67:VAL:HG12	2.12	0.49
26:D4:56:VAL:HG13	26:D4:60:GLN:CG	2.41	0.49
54:CA:947:G:H2'	54:CA:948:C:H6	1.77	0.49
4:DE:68:ALA:C	4:DE:69:LYS:HG3	2.32	0.49
21:DV:154:ASP:O	21:DV:155:LEU:C	2.50	0.49
54:CA:397:A:N7	54:CA:548:G:C8	2.80	0.49
1:AA:996:A:O3'	16:A1:92:ARG:CD	2.59	0.49
4:AE:72:VAL:O	4:AE:73:GLU:O	2.30	0.49
31:BA:1147:C:H2'	39:BL:16:ARG:HD3	1.94	0.49
7:AH:19:VAL:HG12	7:AH:20:ALA:N	2.27	0.49
54:CA:1399:C:C2	54:CA:1502:A:N6	2.80	0.49
54:CA:1128:C:C2	54:CA:1139:G:C6	3.00	0.49
32:CE:20:GLU:HG2	32:CE:189:ASP:OD2	2.12	0.49
22:A3:5:LYS:HE2	52:BC:73:A:C2'	2.42	0.49
52:CD:12:U:H2'	52:CD:13:C:O4'	2.12	0.49
52:CD:15:G:H2'	52:CD:16:U:H5'	1.94	0.49
43:CP:7:VAL:CG2	6:DG:115:ARG:HH12	2.25	0.49
17:D2:40:LEU:HD23	17:D2:47:VAL:HA	1.93	0.49
31:BA:1117:G:H5'	31:BA:1117:G:H8	1.77	0.49
21:AV:74:VAL:HG13	21:AV:86:VAL:HG22	1.93	0.49
8:DK:92:VAL:O	8:DK:120:ILE:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:DQ:5:THR:HG1	14:DQ:8:GLU:HG3	1.74	0.49
55:DA:2469:A:O2'	12:DP:56:ARG:HG2	2.11	0.49
11:AO:101:VAL:HG23	11:AO:107:LYS:H	1.76	0.49
37:BJ:66:VAL:HG12	37:BJ:70:LYS:HE3	1.94	0.49
55:DA:1045:A:O2'	55:DA:1047:G:C4	2.62	0.49
54:CA:827:U:C5'	54:CA:828:A:OP2	2.59	0.49
1:AA:1935:G:H3'	1:AA:1962:C:N4	2.17	0.49
7:AH:130:ARG:NH1	7:AH:132:ARG:NH1	2.60	0.49
31:BA:777:A:H2'	31:BA:778:G:C8	2.47	0.49
12:AP:130:LYS:O	12:AP:130:LYS:HG2	2.11	0.49
13:A0:13:HIS:O	13:A0:14:SER:C	2.51	0.49
1:AA:1893:C:C5	1:AA:1894:C:C5	3.00	0.49
34:BG:126:ILE:HG22	34:BG:127:THR:N	2.27	0.49
1:AA:523:C:C2'	1:AA:524:U:H5'	2.41	0.49
35:CH:32:VAL:HG12	35:CH:33:VAL:O	2.11	0.49
2:AB:110:G:C2'	2:AB:111:U:H5'	2.42	0.49
6:DG:4:ASP:O	6:DG:5:VAL:HB	2.12	0.49
54:CA:890:G:C2'	54:CA:891:U:OP2	2.60	0.49
1:AA:666:G:H5''	1:AA:667:U:OP2	2.12	0.49
18:DS:4:LYS:CB	18:DS:106:ILE:HG22	2.42	0.49
46:CS:43:LYS:HE2	46:CS:48:TRP:CZ3	2.47	0.49
39:CL:4:TYR:CD1	39:CL:88:TYR:HB2	2.47	0.49
18:AS:79:GLY:O	18:AS:80:PRO:O	2.30	0.49
45:CR:65:ARG:NH1	45:CR:65:ARG:HB2	2.27	0.49
31:BA:622:A:C8	31:BA:623:C:C6	3.00	0.49
1:AA:655:A:C2'	1:AA:656:G:H5'	2.42	0.49
16:A1:6:THR:O	16:A1:9:VAL:HG23	2.12	0.49
11:AO:92:GLU:HA	11:AO:123:LEU:CD1	2.42	0.49
1:AA:1810:A:C2'	1:AA:1811:G:H5'	2.41	0.49
55:DA:191:A:H2'	55:DA:192:C:C6	2.46	0.49
54:CA:1069:C:C2'	54:CA:1070:U:O5'	2.61	0.49
39:BL:47:LEU:O	39:BL:50:LEU:HB2	2.12	0.49
14:AQ:3:ARG:CG	14:AQ:4:LEU:N	2.75	0.49
34:BG:199:ASN:O	34:BG:200:GLU:CG	2.59	0.49
34:BG:200:GLU:HG3	34:BG:201:GLN:N	2.27	0.49
13:A0:101:ALA:O	13:A0:102:GLU:HB3	2.12	0.49
1:AA:1952:A:C5	10:AN:22:ILE:HD12	2.46	0.49
38:BK:6:ILE:HD12	38:BK:6:ILE:H	1.76	0.49
55:DA:2821:A:H2'	55:DA:2822:G:O4'	2.12	0.49
6:DG:73:ALA:O	6:DG:84:LYS:O	2.30	0.49
1:AA:1973:G:H2'	1:AA:1974:C:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:262:ARG:NH1	3:AD:262:ARG:HG3	2.27	0.49
55:DA:1081:U:O2	58:DL:115:LEU:CD2	2.60	0.49
56:DI:27:LEU:O	56:DI:28:LYS:C	2.49	0.49
55:DA:1080:A:H2'	58:DL:126:MET:HE2	1.94	0.49
57:DY:62:ALA:O	57:DY:63:LEU:O	2.29	0.49
57:DY:51:LEU:CG	57:DY:82:PHE:H	2.23	0.49
28:A6:41:PRO:CD	28:A6:45:LYS:C	2.75	0.49
3:DD:35:LYS:HZ3	3:DD:104:TYR:HB2	1.75	0.49
3:DD:125:ILE:HD13	3:DD:131:LEU:HD21	1.95	0.49
26:A4:9:LEU:HG	26:A4:25:TYR:C	2.32	0.49
6:AG:154:GLY:O	6:AG:155:MET:HB3	2.13	0.49
1:AA:2715:C:O2'	1:AA:2716:U:H5'	2.12	0.49
15:AR:61:PHE:CE2	15:AR:76:PHE:HB2	2.47	0.49
30:A8:48:PHE:O	30:A8:49:VAL:HG22	2.13	0.49
54:CA:1002:G:N3	54:CA:1003:G:C8	2.80	0.49
20:DU:38:ILE:CG2	20:DU:66:PRO:HG3	2.43	0.49
20:DU:38:ILE:HG22	20:DU:66:PRO:HA	1.94	0.49
55:DA:1177:A:H5''	55:DA:1178:C:O5'	2.13	0.49
9:DM:60:ILE:HD13	9:DM:60:ILE:N	2.27	0.49
40:BM:96:ILE:N	40:BM:96:ILE:HD13	2.16	0.49
1:AA:807:U:O2'	1:AA:2060:A:N1	2.39	0.49
1:AA:566:U:H4'	1:AA:809:G:OP2	2.12	0.49
32:CE:185:ILE:HA	32:CE:199:TYR:O	2.13	0.49
11:AO:19:VAL:CG2	11:AO:21:ARG:HD2	2.43	0.49
31:BA:58:C:O2'	31:BA:59:A:H5'	2.13	0.49
1:AA:2656:U:O4	1:AA:2657:A:N7	2.46	0.49
1:AA:2660:A:H2'	1:AA:2661:G:O4'	2.12	0.49
55:DA:265:A:O2'	55:DA:266:G:O5'	2.30	0.49
1:AA:654(S):G:O2'	1:AA:654(T):A:O4'	2.30	0.49
54:CA:376:G:C5'	46:CS:5:ARG:HD2	2.41	0.49
31:BA:251:G:C4	31:BA:266:G:N7	2.80	0.49
30:D8:4:MET:O	30:D8:62:LEU:HD12	2.12	0.49
55:DA:2505:G:O6	55:DA:2576:G:H2'	2.12	0.49
1:AA:2897:U:H2'	1:AA:2898:U:C6	2.48	0.49
15:DR:39:ARG:HG2	15:DR:40:THR:N	2.14	0.49
37:CJ:108:ALA:O	37:CJ:111:ARG:HG3	2.12	0.49
37:CJ:44:TYR:C	37:CJ:46:ALA:N	2.64	0.49
54:CA:685:G:H5'	41:CN:39:PRO:O	2.11	0.49
39:BL:43:ALA:C	39:BL:45:ALA:H	2.15	0.49
53:C1:32:A:H2'	53:C1:33:G:C4'	2.41	0.49
34:CG:196:LEU:O	34:CG:198:VAL:N	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1206:G:O4'	33:BF:194:GLY:N	2.45	0.49
21:DV:86:VAL:HG12	21:DV:87:ASP:N	2.27	0.49
36:BI:10:LEU:HD13	36:BI:61:LEU:HD13	1.93	0.49
54:CA:1064:G:H1'	54:CA:1066:C:C6	2.47	0.49
39:BL:114:TYR:CD1	40:BM:60:ARG:HG2	2.47	0.49
31:BA:1399:C:C4'	31:BA:1400:C:O5'	2.54	0.49
50:BW:67:ALA:HA	50:BW:73:HIS:N	2.27	0.49
7:AH:39:PRO:O	7:AH:40:GLU:HG3	2.11	0.49
52:BC:53:G:O2'	52:BC:54:U:H5'	2.12	0.49
52:BC:58:A:O2'	52:BC:59:U:O5'	2.24	0.49
43:CP:116:THR:C	43:CP:117:VAL:HG13	2.33	0.49
32:BE:32:ILE:HD12	32:BE:33:TYR:H	1.77	0.49
54:CA:484:G:O2'	54:CA:485:G:OP2	2.28	0.49
6:DG:61:ALA:HB2	6:DG:68:PRO:HD3	1.95	0.49
40:CM:27:ALA:CB	40:CM:34:VAL:HG21	2.42	0.49
26:D4:14:ILE:HA	26:D4:31:ILE:O	2.12	0.49
6:AG:56:ALA:HB2	6:AG:153:ARG:NE	2.25	0.49
55:DA:1854:A:H3'	55:DA:1855:G:H8	1.77	0.49
32:BE:97:TRP:CD2	32:BE:101:MET:HG3	2.47	0.49
55:DA:1386:C:H2'	55:DA:1387:C:C6	2.47	0.49
3:AD:174:ILE:N	3:AD:174:ILE:HD12	2.27	0.49
1:AA:1656:C:H2'	1:AA:1657:C:H6	1.77	0.49
21:AV:76:LEU:HA	21:AV:83:PRO:HA	1.95	0.49
44:BQ:21:TYR:CD2	44:BQ:22:THR:O	2.65	0.49
54:CA:1074:G:H4'	32:CE:104:ASN:HB2	1.93	0.49
55:DA:371:A:H1'	55:DA:373:U:C6	2.47	0.49
13:D0:41:ALA:O	13:D0:43:GLU:N	2.46	0.49
1:AA:1912:A:N6	1:AA:1918:A:H1'	2.27	0.49
34:BG:107:ARG:HH12	34:BG:114:ARG:NH2	2.10	0.49
20:DU:14:LEU:HD23	20:DU:14:LEU:O	2.12	0.49
30:A8:46:ARG:NH1	30:A8:46:ARG:HB2	2.26	0.49
14:AQ:74:ALA:O	14:AQ:75:GLU:C	2.51	0.49
3:DD:263:ARG:CB	3:DD:263:ARG:NH1	2.73	0.49
52:CC:51:U:H2'	52:CC:52:G:H8	1.76	0.49
24:AW:19:VAL:O	24:AW:23:LYS:HG3	2.12	0.49
54:CA:848:C:O2'	54:CA:849:C:H5'	2.12	0.49
13:A0:81:ASP:O	13:A0:82:GLU:HB2	2.12	0.49
55:DA:699:A:H2'	55:DA:700:G:O4'	2.12	0.49
1:AA:1530:G:H2'	1:AA:1531:C:C6	2.48	0.49
1:AA:1131:G:O2'	1:AA:1132:A:O5'	2.30	0.49
6:AG:83:ARG:O	6:AG:84:LYS:C	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BB:37:MIA:H3'	52:BB:38:A:H8	1.76	0.49
54:CA:426:G:H2'	54:CA:427:U:C6	2.47	0.49
8:AK:2:LYS:HB2	8:AK:39:ALA:CB	2.42	0.49
32:BE:228:GLY:O	32:BE:230:VAL:HG13	2.12	0.49
15:AR:124:ASP:HB3	15:AR:128:GLU:OE2	2.13	0.49
31:BA:297:G:N2	31:BA:299:G:H3'	2.27	0.49
1:AA:2737:G:O2'	1:AA:2738:A:H5'	2.11	0.49
20:DU:12:THR:OG1	20:DU:26:LYS:HE2	2.12	0.49
57:DY:135:ARG:NH2	56:DJ:18:LEU:HD13	2.24	0.49
56:DJ:2:ALA:O	56:DJ:6:GLU:HG3	2.12	0.49
58:DL:111:LYS:HG2	58:DL:111:LYS:O	2.11	0.49
58:DL:25:PRO:HA	58:DL:27:LEU:CD2	2.42	0.49
21:AV:177:PRO:O	21:AV:178:GLU:OE1	2.30	0.49
49:BV:51:VAL:HG21	49:BV:71:LEU:HB3	1.93	0.49
28:A6:17:LYS:O	28:A6:18:ARG:HB3	2.12	0.49
1:AA:953:A:C4	1:AA:954:G:C8	3.00	0.49
12:AP:86:GLY:C	12:AP:88:GLY:N	2.61	0.49
21:DV:140:ASP:CG	21:DV:141:VAL:N	2.63	0.49
21:DV:146:ILE:HA	21:DV:174:VAL:CG1	2.42	0.49
43:BP:3:ARG:HA	43:BP:9:ILE:HG12	1.94	0.49
23:DZ:51:VAL:HG11	23:DZ:74:VAL:CG2	2.42	0.49
40:BM:31:GLY:O	40:BM:81:THR:HG21	2.13	0.49
1:AA:391:G:H2'	1:AA:392:C:C6	2.47	0.49
21:DV:152:ALA:O	21:DV:154:ASP:C	2.51	0.49
17:A2:2:PHE:HD2	17:A2:42:GLY:HA2	1.76	0.49
1:AA:1225:C:C3'	17:A2:85:LYS:HB2	2.42	0.49
4:AE:73:GLU:HG3	4:AE:74:PRO:HD2	1.93	0.49
7:DH:98:LEU:HB2	7:DH:125:VAL:CB	2.43	0.49
7:DH:126:PRO:HB2	7:DH:130:ARG:O	2.12	0.49
31:BA:280:C:O2	31:BA:280:C:H2'	2.12	0.49
50:CW:39:LYS:O	50:CW:43:LEU:HG	2.13	0.49
54:CA:1402:C:O2	54:CA:1500:A:N1	2.46	0.49
11:DO:148:LEU:O	11:DO:149:GLU:HG3	2.13	0.49
6:DG:97:ASP:H	6:DG:100:TRP:HD1	1.59	0.49
35:BH:31:LEU:HD23	35:BH:32:VAL:N	2.27	0.49
17:D2:35:LEU:HD22	17:D2:57:VAL:O	2.12	0.49
47:CT:63:ARG:HG2	47:CT:64:PRO:N	2.27	0.49
1:AA:2645:G:H3'	1:AA:2646:C:H5'	1.93	0.49
1:AA:1005:C:N1	1:AA:1143:A:C2	2.80	0.49
1:AA:83:G:N2	1:AA:102:G:H2'	2.27	0.49
1:AA:479:A:H4'	1:AA:480:A:H5'	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:507:A:O4'	1:AA:509:C:C2	2.66	0.49
5:AF:34:TRP:CZ3	11:AO:8:PRO:HB3	2.47	0.49
55:DA:2444:G:OP2	5:DF:68:LYS:HE3	2.13	0.49
1:AA:1798:U:OP2	3:AD:273:ARG:NH1	2.45	0.49
8:DK:52:ARG:NH1	8:DK:52:ARG:HB3	2.27	0.49
3:DD:58:HIS:CD2	3:DD:59:LYS:O	2.48	0.49
21:AV:120:ILE:O	21:AV:121:HIS:HB2	2.11	0.49
3:AD:70:TRP:HD1	3:AD:70:TRP:C	2.13	0.49
10:AN:88:ASN:HD21	10:AN:90:GLN:CB	2.20	0.49
5:DF:126:VAL:HG23	5:DF:127:GLU:N	2.27	0.49
14:AQ:29:PHE:CD2	14:AQ:30:ARG:N	2.81	0.49
55:DA:2163:C:OP1	55:DA:2172:U:H5	1.96	0.49
3:AD:211:ARG:O	3:AD:215:LEU:HG	2.12	0.49
55:DA:806:C:OP2	11:DO:41:ARG:NH2	2.45	0.49
31:BA:1298:C:H5	37:BJ:114:ARG:HD2	1.70	0.49
1:AA:2211:G:H2'	1:AA:2211:G:N3	2.28	0.49
5:AF:65:TRP:O	5:AF:67:GLN:N	2.45	0.49
54:CA:450:G:N7	54:CA:481:G:C6	2.81	0.49
37:CJ:16:LEU:CD2	39:CL:45:ALA:HB2	2.42	0.49
25:DX:46:ASN:O	25:DX:50:VAL:HG22	2.12	0.49
11:AO:47:ASP:HB3	11:AO:48:PRO:HA	1.93	0.49
54:CA:801:U:H5'	54:CA:801:U:H6	1.77	0.49
52:BC:8:U:O2'	52:BC:48:C:H1'	2.12	0.49
52:BC:8:U:O4'	52:BC:48:C:O2'	2.30	0.49
42:BO:78:GLN:HG3	42:BO:79:GLU:N	2.28	0.49
52:CB:9:A:H2	52:CB:11:C:N4	2.10	0.49
44:BQ:6:LEU:C	44:BQ:8:GLU:H	2.15	0.49
42:CO:83:VAL:CG2	42:CO:100:ILE:HG23	2.42	0.49
55:DA:2618:G:H2'	55:DA:2619:C:H6	1.77	0.49
1:AA:1113:U:H2'	1:AA:1114:G:C8	2.47	0.49
31:BA:328:C:HO2'	31:BA:329:A:P	2.35	0.49
55:DA:2771:C:H5''	4:DE:202:LYS:HG2	1.95	0.49
14:DQ:52:SER:O	14:DQ:56:LEU:CD2	2.60	0.49
52:CB:67:C:H2'	52:CB:68:C:C6	2.47	0.49
34:CG:146:ILE:HD12	34:CG:146:ILE:H	1.76	0.49
53:C1:42:U:O2'	53:C1:43:U:OP1	2.28	0.49
55:DA:2817:G:N2	55:DA:2830:G:H1'	2.28	0.49
5:DF:39:TRP:CB	5:DF:101:LEU:HD22	2.43	0.49
55:DA:2108:C:O2'	55:DA:2109:U:H5'	2.12	0.49
23:DZ:63:ALA:O	23:DZ:65:SER:N	2.46	0.49
41:BN:114:VAL:O	41:BN:114:VAL:HG13	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DS:24:ILE:C	18:DS:24:ILE:HD12	2.32	0.49
52:CC:40:C:O2	52:CC:40:C:H2'	2.13	0.49
52:CC:76:A:N6	55:DA:2450:A:N3	2.60	0.49
55:DA:1077:A:N1	55:DA:1088:A:N6	2.60	0.49
55:DA:1108:U:H2'	55:DA:1109:C:O4'	2.13	0.49
56:DJ:7:ARG:HA	56:DJ:11:GLU:OE2	2.13	0.49
58:DL:108:ALA:HA	58:DL:111:LYS:HZ2	1.76	0.49
58:DL:20:ALA:HB3	58:DL:21:PRO:HD3	1.95	0.49
58:DL:51:ALA:C	58:DL:52:ILE:CG1	2.78	0.49
58:DL:55:VAL:HG23	58:DL:69:THR:OG1	2.13	0.49
58:DL:72:PRO:HG2	58:DL:76:TYR:CE2	2.47	0.49
55:DA:1056:G:OP1	57:DY:35:LYS:CG	2.60	0.49
21:AV:178:GLU:OE1	21:AV:178:GLU:O	2.30	0.49
26:A4:63:TYR:CD2	49:BV:41:VAL:HA	2.48	0.49
55:DA:1358:G:H2'	55:DA:1359:A:OP2	2.12	0.49
1:AA:829:A:C5	1:AA:2248:C:H5'	2.48	0.49
21:DV:116:VAL:O	21:DV:174:VAL:CA	2.48	0.49
31:BA:1329:A:P	43:BP:28:ALA:HB3	2.53	0.49
43:BP:34:LEU:HA	43:BP:37:THR:OG1	2.12	0.49
49:CV:88:LYS:O	49:CV:89:ALA:O	2.30	0.49
4:DE:27:LEU:HD21	15:DR:1:MET:CE	2.42	0.49
54:CA:397:A:N6	54:CA:548:G:C5	2.80	0.49
16:A1:102:GLU:O	16:A1:105:VAL:HG22	2.12	0.49
17:A2:98:GLU:C	17:A2:99:ILE:HD12	2.33	0.49
1:AA:2590:A:H2'	1:AA:2591:C:H6	1.77	0.49
5:AF:84:VAL:C	5:AF:86:GLY:N	2.63	0.49
31:BA:411:A:H62	31:BA:413:G:N2	2.10	0.49
31:BA:405:U:H5''	31:BA:495:A:H2	1.76	0.49
34:BG:8:VAL:O	34:BG:11:LEU:HB2	2.12	0.49
31:BA:1127:G:C2'	31:BA:1147:C:H42	2.26	0.49
54:CA:1453:G:O6	50:CW:51:GLU:HB3	2.13	0.49
33:CF:107:GLN:H	33:CF:107:GLN:CD	2.16	0.49
32:CE:216:SER:C	32:CE:218:ALA:H	2.16	0.49
52:CD:56:C:H2'	52:CD:57:G:H8	1.76	0.49
43:CP:8:GLU:OE1	43:CP:67:GLU:HB2	2.12	0.49
37:BJ:105:VAL:O	37:BJ:108:ALA:HB3	2.13	0.49
37:BJ:50:ILE:O	37:BJ:54:THR:HG23	2.11	0.49
5:AF:34:TRP:HA	11:AO:6:LEU:HD12	1.95	0.49
1:AA:654(T):A:H2'	1:AA:654(U):A:O4'	2.11	0.49
32:BE:54:THR:O	32:BE:57:PHE:HB3	2.12	0.49
55:DA:654(S):G:O2'	55:DA:654(T):A:O4'	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:A7:12:ARG:HD3	29:A7:46:VAL:CG2	2.31	0.49
55:DA:1869:G:H5'	55:DA:1870:C:P	2.52	0.49
24:AW:46:GLN:HA	24:AW:46:GLN:OE1	2.12	0.49
35:CH:79:GLU:OE1	35:CH:79:GLU:O	2.30	0.49
1:AA:849:A:N1	25:AX:25:ALA:HA	2.26	0.49
1:AA:1995:U:H2'	1:AA:1996:C:C5	2.48	0.49
31:BA:973:G:H1'	40:BM:55:LYS:CG	2.42	0.49
42:BO:83:VAL:CG2	42:BO:100:ILE:HG23	2.43	0.49
5:DF:123:LEU:HD13	5:DF:192:LEU:HB3	1.92	0.49
54:CA:1535:C:C6	54:CA:1535:C:H5'	2.48	0.49
1:AA:1688:U:O2	1:AA:1700:A:H5'	2.12	0.49
4:AE:36:ARG:HG2	4:AE:36:ARG:NH1	2.27	0.49
34:CG:147:ALA:HB1	34:CG:181:MET:O	2.12	0.49
31:BA:1399:C:H4'	31:BA:1400:C:C5'	2.41	0.49
48:CU:23:LYS:HG3	48:CU:24:ALA:N	2.28	0.49
17:A2:40:LEU:HD23	17:A2:47:VAL:HA	1.95	0.49
55:DA:71:A:C2	19:DT:31:HIS:CE1	2.99	0.49
31:BA:652:U:C1'	31:BA:653:A:H2	2.17	0.49
5:DF:34:TRP:HB2	11:DO:6:LEU:HD12	1.95	0.49
46:BS:52:ASP:OD2	46:BS:54:GLU:CG	2.61	0.49
1:AA:1157:G:H2'	1:AA:1158:C:H6	1.77	0.49
31:BA:818:G:C3'	31:BA:819:A:C5'	2.90	0.49
10:AN:54:GLU:C	10:AN:56:ASP:H	2.15	0.49
15:DR:32:TYR:O	15:DR:34:VAL:HG23	2.12	0.49
55:DA:1678:G:N2	55:DA:1989:G:N2	2.58	0.49
50:CW:15:ARG:O	50:CW:19:SER:HB2	2.12	0.49
54:CA:942:G:C2	54:CA:943:U:C6	3.00	0.49
39:CL:5:TYR:HD2	39:CL:17:VAL:O	1.95	0.49
15:AR:50:ILE:O	15:AR:99:LEU:HD12	2.13	0.49
54:CA:1288:A:H2'	54:CA:1289:A:C8	2.48	0.49
8:DK:29:TYR:HD1	8:DK:33:ARG:HE	1.60	0.49
54:CA:564:C:H5'	47:CT:32:TYR:CD2	2.47	0.49
1:AA:1169:G:H2'	1:AA:1170:G:O4'	2.13	0.49
55:DA:828:U:C2'	55:DA:828:U:O2	2.60	0.49
24:DW:32:LEU:HD12	24:DW:57:ILE:HD12	1.93	0.49
54:CA:865:A:C2	54:CA:918:A:H4'	2.47	0.49
36:BI:87:ARG:HG2	36:BI:87:ARG:NH1	2.27	0.49
31:BA:468:A:C2'	31:BA:474:G:H5'	2.42	0.49
18:DS:42:ARG:HG2	18:DS:42:ARG:HH11	1.78	0.49
55:DA:2472:G:N2	55:DA:2477:C:H5''	2.26	0.49
55:DA:312:G:H5'	55:DA:331:A:C2'	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2291:U:O2'	55:DA:2374:C:O2	2.25	0.49
55:DA:602:G:O2'	55:DA:655:A:N6	2.45	0.49
31:BA:1201:A:O2'	31:BA:1202:G:OP2	2.26	0.49
55:DA:1639:U:O2'	55:DA:1640:C:H5''	2.12	0.49
13:D0:57:ARG:HD2	13:D0:62:ALA:HB2	1.94	0.49
15:DR:136:GLN:HG3	15:DR:137:LYS:N	2.28	0.49
1:AA:1131:G:O2'	1:AA:1132:A:O4'	2.28	0.49
1:AA:59:U:H6	1:AA:59:U:O5'	1.94	0.49
41:CN:69:ALA:O	41:CN:70:LYS:C	2.50	0.49
55:DA:152:G:H2'	55:DA:153:C:C6	2.47	0.49
35:BH:68:GLU:HG3	35:BH:68:GLU:O	2.12	0.49
55:DA:1396:U:H2'	55:DA:1396:U:O2	2.12	0.49
38:BK:91:ARG:HH11	38:BK:91:ARG:HG2	1.77	0.49
52:BC:76:A:H8	52:BC:76:A:H5'	1.77	0.49
47:BT:89:LEU:O	47:BT:92:ARG:HB3	2.13	0.49
4:AE:14:ILE:O	4:AE:21:VAL:HG22	2.12	0.49
55:DA:1092:C:H3'	55:DA:1092:C:C6	2.47	0.49
58:DL:132:ARG:O	58:DL:137:GLU:CD	2.51	0.49
58:DL:44:ALA:C	58:DL:46:ALA:N	2.59	0.49
58:DL:52:ILE:CD1	58:DL:53:VAL:H	2.21	0.49
58:DL:60:TYR:O	58:DL:61:ALA:HB2	2.11	0.49
57:DY:73:GLY:CA	57:DY:112:LEU:HG	2.42	0.49
57:DY:50:ARG:O	57:DY:83:TYR:N	2.45	0.49
57:DY:73:GLY:N	57:DY:118:THR:O	2.45	0.49
31:BA:1305:G:O2'	31:BA:1306:A:H8	1.83	0.49
49:BV:58:VAL:O	49:BV:58:VAL:HG23	2.12	0.49
55:DA:1358:G:C2'	55:DA:1359:A:OP2	2.61	0.49
11:AO:62:LEU:HD21	30:A8:25:MET:HB3	1.95	0.49
2:AB:82:G:N1	2:AB:95:U:O2	2.46	0.49
54:CA:1206:G:C6	54:CA:1207:G:C5	3.01	0.49
54:CA:518:C:H1'	54:CA:529:G:N1	2.27	0.49
1:AA:1379:A:O4'	1:AA:1379:A:OP1	2.30	0.49
23:DZ:60:PHE:CE2	23:DZ:91:LYS:NZ	2.78	0.49
43:CP:84:ILE:HD11	49:CV:66:MET:CB	2.43	0.49
57:DY:142:LEU:O	57:DY:143:GLN:O	2.31	0.49
55:DA:479:A:C4'	55:DA:480:A:OP1	2.60	0.49
54:CA:1358:U:OP2	54:CA:1359:C:N4	2.45	0.49
54:CA:957:U:O2	54:CA:960:U:H6	1.94	0.49
8:AK:78:THR:CG2	8:AK:104:GLN:HE22	2.22	0.49
55:DA:1179:C:H2'	55:DA:1180:C:O4'	2.12	0.49
34:BG:27:TYR:O	34:BG:28:SER:CB	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:A1:50:ARG:HH11	17:A2:72:VAL:HG11	1.76	0.49
17:A2:71:LEU:CA	17:A2:86:GLY:HA3	2.43	0.49
4:AE:65:GLY:O	4:AE:66:HIS:C	2.50	0.49
4:AE:72:VAL:O	4:AE:72:VAL:HG12	2.13	0.49
7:DH:123:PHE:HB3	7:DH:125:VAL:HG22	1.95	0.49
32:CE:19:HIS:CD2	32:CE:206:ASP:HB2	2.48	0.49
33:CF:162:GLN:CG	53:C1:54:U:O2	2.60	0.49
43:CP:66:LEU:HD12	43:CP:66:LEU:N	2.26	0.49
26:D4:22:ILE:O	26:D4:23:GLU:C	2.51	0.49
8:DK:76:THR:CG2	8:DK:139:GLN:HE22	2.24	0.49
54:CA:1157:A:N6	54:CA:1180:A:C5	2.81	0.49
1:AA:1005:C:C6	1:AA:1143:A:N3	2.80	0.49
21:AV:9:TYR:HE2	21:AV:61:LEU:HD13	1.76	0.49
1:AA:99:U:O2	1:AA:99:U:C2'	2.56	0.49
1:AA:506:G:H4'	1:AA:507:A:O5'	2.12	0.49
10:AN:4:PRO:O	10:AN:5:GLN:CB	2.43	0.49
55:DA:1538:G:C2	55:DA:1539:G:C5	3.01	0.49
32:BE:224:GLN:CA	32:BE:229:VAL:HG22	2.30	0.49
52:CC:22:G:O2'	52:CC:23:A:H5'	2.13	0.49
55:DA:2307:G:O4'	55:DA:2307:G:OP1	2.30	0.49
55:DA:654(S):G:C2'	55:DA:654(T):A:C8	2.95	0.49
1:AA:142:G:H5''	1:AA:1598:C:O2'	2.12	0.49
53:B1:29:G:H2'	53:B1:30:C:O4'	2.12	0.49
1:AA:96:G:H4'	24:AW:48:HIS:ND1	2.28	0.49
1:AA:621:A:C2	1:AA:622:G:C4	3.00	0.49
37:CJ:15:ASP:HB3	37:CJ:19:GLY:H	1.75	0.49
55:DA:310:A:O2'	55:DA:311:A:H2'	2.13	0.49
23:AZ:70:VAL:O	23:AZ:74:VAL:HG23	2.12	0.49
8:DK:57:ARG:O	8:DK:61:ARG:HG2	2.11	0.49
18:AS:59:VAL:CG1	18:AS:60:ASN:N	2.75	0.49
55:DA:1163:G:O2'	55:DA:1164:G:H5'	2.13	0.49
55:DA:1612:C:H4'	29:D7:5:TRP:O	2.13	0.49
10:DN:71:ARG:NH2	10:DN:77:ILE:HG21	2.28	0.49
54:CA:826:C:C2	54:CA:827:U:O2	2.66	0.49
42:CO:28:LYS:HE3	42:CO:33:ARG:HH12	1.77	0.49
42:CO:28:LYS:NZ	42:CO:33:ARG:NH2	2.55	0.49
42:CO:27:LEU:C	42:CO:29:GLY:N	2.66	0.49
1:AA:2713:A:C3'	1:AA:2714:G:H5''	2.42	0.49
35:CH:12:LEU:HB3	35:CH:31:LEU:HB3	1.94	0.49
54:CA:485:G:O2'	54:CA:486:U:P	2.71	0.49
54:CA:1237:C:O2'	54:CA:1300:G:N2	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AK:6:LEU:HD13	8:AK:36:ALA:CA	2.38	0.49
48:CU:31:LEU:H	48:CU:31:LEU:CD2	2.26	0.49
26:D4:14:ILE:O	26:D4:14:ILE:HG23	2.13	0.49
16:A1:59:ARG:O	16:A1:63:VAL:HG23	2.13	0.49
31:BA:48:C:H6	31:BA:365:U:O4	1.95	0.49
48:BU:62:GLU:HA	48:BU:65:ILE:HD11	1.95	0.49
12:DP:110:THR:O	12:DP:113:GLN:N	2.46	0.49
3:DD:70:TRP:CD1	3:DD:70:TRP:C	2.86	0.49
45:CR:8:LYS:HB2	45:CR:8:LYS:HZ2	1.76	0.49
1:AA:671:C:OP1	11:AO:42:SER:O	2.29	0.49
47:BT:12:SER:HB3	47:BT:20:THR:HB	1.93	0.49
3:DD:236:GLY:O	3:DD:237:GLU:OE2	2.30	0.49
16:D1:25:TRP:O	16:D1:28:ARG:HB2	2.13	0.49
55:DA:171:G:O2'	55:DA:172:C:H5'	2.11	0.49
23:AZ:5:CYS:CB	23:AZ:8:SER:HG	2.25	0.49
9:DM:26:LEU:HG	9:DM:30:ILE:CD1	2.41	0.49
1:AA:2639:A:H2'	1:AA:2640:G:H5'	1.95	0.49
40:CM:96:ILE:N	40:CM:96:ILE:HD13	2.27	0.49
48:BU:32:ARG:C	48:BU:69:THR:HG21	2.33	0.49
54:CA:1120:G:H2'	54:CA:1121:U:H6	1.77	0.49
55:DA:2232:U:P	23:DZ:40:ARG:HH12	2.35	0.49
52:BC:66:U:H2'	52:BC:67:C:C6	2.48	0.49
26:A4:14:ILE:HG13	26:A4:31:ILE:HB	1.94	0.49
31:BA:1048:G:H2'	31:BA:1050:G:C8	2.48	0.49
19:DT:28:PHE:CE2	19:DT:92:LEU:HD11	2.48	0.49
33:BF:117:ALA:HB2	33:BF:200:ALA:CB	2.42	0.49
54:CA:1210:C:H5'	54:CA:1214:C:N4	2.28	0.49
24:AW:38:GLN:O	24:AW:41:ILE:HG12	2.11	0.49
34:BG:161:ASN:O	34:BG:164:ALA:N	2.45	0.49
15:AR:12:SER:HB3	15:AR:15:VAL:CG1	2.41	0.49
55:DA:1058:U:H2'	55:DA:1059:G:H8	1.64	0.49
58:DL:135:GLY:C	58:DL:136:VAL:HG13	2.24	0.49
58:DL:60:TYR:HD2	58:DL:63:ARG:HB3	1.74	0.49
58:DL:69:THR:C	58:DL:70:LYS:CG	2.81	0.49
57:DY:13:LEU:HD21	57:DY:62:ALA:O	2.11	0.49
57:DY:28:ASN:CG	57:DY:83:TYR:CD2	2.85	0.49
31:BA:1213:A:N6	31:BA:1215:G:C2	2.81	0.49
49:BV:40:ILE:HD12	49:BV:71:LEU:HD23	1.94	0.49
55:DA:498:G:N2	20:DU:47:LYS:NZ	2.61	0.49
40:CM:54:PHE:C	40:CM:55:LYS:HG3	2.33	0.49
8:DK:111:PRO:O	8:DK:114:LEU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:20:ASN:ND2	28:D6:21:TYR:N	2.54	0.49
55:DA:2286:A:OP2	28:D6:28:ARG:CD	2.60	0.49
55:DA:2347:C:H4'	28:D6:39:TYR:HE2	1.78	0.49
16:A1:98:LEU:O	16:A1:100:VAL:N	2.45	0.49
20:DU:97:ARG:CD	20:DU:97:ARG:N	2.75	0.49
31:BA:410:G:H4'	31:BA:411:A:OP1	2.12	0.49
39:BL:3:GLN:NE2	39:BL:20:ARG:HH12	2.10	0.49
1:AA:811:U:O4	11:AO:21:ARG:NH2	2.45	0.49
4:DE:15:PHE:HA	4:DE:19:ARG:O	2.11	0.49
13:D0:96:ARG:HG2	13:D0:97:VAL:N	2.28	0.49
6:DG:120:LEU:O	6:DG:122:PRO:HD3	2.12	0.49
1:AA:2522:U:H2'	1:AA:2523:G:C5'	2.43	0.49
31:BA:1118:C:P	39:BL:104:ARG:HD3	2.53	0.49
31:BA:397:A:N7	31:BA:547:A:O2'	2.45	0.49
52:CC:18:G:C4	52:CC:58:A:C2	3.00	0.49
1:AA:182:A:H2'	1:AA:183:C:O4'	2.12	0.49
2:DB:40:U:O2'	2:DB:41:U:OP1	2.25	0.49
25:AX:4:LEU:HD23	25:AX:57:GLU:O	2.13	0.49
1:AA:607:U:OP1	5:AF:103:LYS:HG3	2.11	0.49
15:DR:24:PRO:HA	15:DR:49:VAL:CG1	2.33	0.49
37:CJ:43:PHE:O	37:CJ:46:ALA:HB3	2.12	0.49
35:CH:144:THR:O	35:CH:148:VAL:HG23	2.12	0.49
55:DA:1213:A:N3	55:DA:1238:G:H1'	2.27	0.49
55:DA:855:G:H2'	55:DA:856:C:C6	2.47	0.49
55:DA:921:G:H4'	55:DA:2269:A:C6	2.48	0.49
19:DT:65:ARG:CD	19:DT:65:ARG:N	2.66	0.49
21:DV:33:LEU:HG	21:DV:34:ASN:N	2.28	0.49
39:BL:7:THR:HG21	39:BL:9:ARG:NH2	2.27	0.49
54:CA:429:U:O2'	54:CA:430:A:H5'	2.12	0.49
1:AA:2130:U:C4'	1:AA:2134:A:H5'	2.42	0.49
55:DA:1946:U:H2'	55:DA:1947:C:C6	2.48	0.49
31:BA:1298:C:O2'	31:BA:1299:A:C4	2.66	0.49
1:AA:1493:C:H5'	1:AA:1494:A:OP2	2.12	0.49
54:CA:47:C:H6	54:CA:365:U:H2'	1.75	0.49
54:CA:1300:G:HO2'	54:CA:1301:U:P	2.34	0.49
54:CA:538:G:OP2	42:CO:115:LYS:CG	2.60	0.49
47:CT:45:HIS:O	47:CT:73:VAL:HG23	2.13	0.49
39:CL:53:VAL:O	39:CL:54:ASP:CB	2.60	0.49
33:CF:79:ARG:CG	33:CF:79:ARG:HH11	2.25	0.49
55:DA:1954:G:O2'	55:DA:1955:U:OP2	2.31	0.49
54:CA:637:G:O2'	54:CA:638:G:H5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BW:84:LEU:C	50:BW:84:LEU:HD13	2.32	0.49
54:CA:777:A:H2'	54:CA:778:G:H8	1.78	0.49
55:DA:755:C:H2'	55:DA:756:C:C6	2.47	0.49
5:DF:42:ALA:O	5:DF:45:ARG:HB2	2.13	0.49
43:BP:108:ARG:CZ	43:BP:114:ARG:HG2	2.43	0.49
40:CM:16:LEU:C	40:CM:16:LEU:HD13	2.33	0.49
32:BE:67:THR:HG21	32:BE:155:LEU:HG	1.93	0.49
5:AF:128:ALA:C	5:AF:142:TRP:HE1	2.16	0.49
31:BA:1275:A:O2'	31:BA:1276:G:H5'	2.12	0.49
5:DF:183:VAL:O	5:DF:187:VAL:HG23	2.13	0.49
37:BJ:131:LYS:O	37:BJ:131:LYS:HG2	2.13	0.49
55:DA:2638:G:HO2'	55:DA:2639:A:H8	1.57	0.49
1:AA:1790:C:H5''	1:AA:1791:A:OP1	2.12	0.49
31:BA:1049:U:O2'	31:BA:1050:G:OP2	2.28	0.49
54:CA:424:G:H2'	54:CA:425:G:H8	1.77	0.49
55:DA:2228:G:C5	55:DA:2229:C:C5	3.00	0.49
3:AD:168:ARG:HA	3:AD:173:VAL:HA	1.95	0.49
55:DA:2478:A:H3'	55:DA:2479:G:H8	1.78	0.49
54:CA:119:A:H5'	54:CA:120:A:C4	2.48	0.49
55:DA:270(T):G:O2'	55:DA:270(U):C:H5'	2.11	0.49
1:AA:1615:C:H1'	18:AS:87:PRO:HG2	1.95	0.49
55:DA:852:G:O2'	55:DA:853:G:H5'	2.12	0.49
1:AA:1080:A:H2'	1:AA:1081:U:H6	1.77	0.49
35:BH:34:VAL:O	35:BH:42:GLY:N	2.44	0.49
4:AE:22:PRO:O	4:AE:23:VAL:CG1	2.59	0.49
55:DA:1083:U:C2'	55:DA:1085:A:OP2	2.49	0.49
56:DI:4:ASP:HA	56:DI:8:ILE:HG12	1.95	0.49
58:DL:11:GLN:HB3	58:DL:41:PHE:CE1	2.46	0.49
58:DL:41:PHE:HE2	58:DL:45:THR:HG1	1.52	0.49
57:DY:23:SER:CB	57:DY:68:LEU:O	2.58	0.49
21:AV:105:VAL:HG22	21:AV:106:GLY:N	2.27	0.49
52:BD:75:C:O2'	52:BD:76:A:H2	1.95	0.49
54:CA:625:G:H2'	54:CA:626:U:H6	1.77	0.49
54:CA:627:G:O2'	54:CA:628:G:H5'	2.13	0.49
31:BA:1353:G:H5''	51:BX:13:ILE:HG21	1.95	0.49
49:CV:47:HIS:O	49:CV:62:ILE:HB	2.13	0.49
49:CV:67:VAL:HB	26:D4:59:PHE:CD1	2.48	0.49
30:A8:48:PHE:CD1	30:A8:48:PHE:N	2.80	0.49
44:CQ:24:CYS:CB	44:CQ:40:CYS:HB3	2.42	0.49
55:DA:1178:C:H2'	55:DA:1179:C:C5	2.41	0.49
28:D6:15:GLU:CG	28:D6:16:CYS:H	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:A2:1:MET:O	17:A2:2:PHE:C	2.51	0.49
17:A2:35:LEU:HD23	17:A2:37:VAL:CG1	2.43	0.49
1:AA:1923:U:H2'	1:AA:1924:C:H6	1.77	0.49
1:AA:1344:G:H4'	1:AA:1384:A:N7	2.28	0.49
31:BA:428:G:O2'	31:BA:429:U:P	2.70	0.49
16:A1:50:ARG:NH1	17:A2:72:VAL:CG1	2.74	0.49
4:AE:54:GLN:O	4:AE:75:VAL:HG22	2.13	0.49
22:D3:32:ARG:O	22:D3:33:ALA:C	2.51	0.49
7:DH:153:LYS:HG2	7:DH:162:ILE:CG1	2.41	0.49
1:AA:1111:A:H4'	7:AH:3:ARG:HH11	1.78	0.49
55:DA:639:U:C2	55:DA:640:C:C5	3.00	0.49
24:DW:11:GLU:HA	24:DW:14:ARG:HD2	1.95	0.49
31:BA:1490:C:O2'	31:BA:1491:G:H5'	2.13	0.49
43:CP:57:ARG:HH21	26:D4:34:GLU:CB	2.24	0.49
29:D7:46:VAL:HG12	29:D7:47:ARG:H	1.78	0.49
55:DA:1283:G:N2	55:DA:1286:A:OP2	2.45	0.49
54:CA:265:G:H2'	54:CA:267:C:C5	2.48	0.49
37:BJ:29:LYS:O	37:BJ:105:VAL:HG11	2.13	0.49
1:AA:1210:A:C4'	1:AA:1211:U:O5'	2.59	0.49
10:AN:2:ILE:HD11	10:AN:82:ASN:HB3	1.93	0.49
32:BE:19:HIS:O	32:BE:39:ILE:HG23	2.12	0.49
1:AA:91:A:C2'	1:AA:92:G:H5'	2.42	0.49
3:DD:43:ARG:HB2	3:DD:54:ARG:HB2	1.95	0.49
34:CG:114:ARG:CG	34:CG:114:ARG:NH1	2.72	0.49
32:CE:127:ILE:HD11	32:CE:139:LYS:HE2	1.95	0.49
55:DA:2461:C:H2'	55:DA:2462:U:C6	2.47	0.49
20:AU:89:PHE:HD1	20:AU:90:LEU:CD2	2.16	0.49
39:BL:26:VAL:HG13	39:BL:61:ALA:HB3	1.95	0.49
55:DA:860:U:C2	55:DA:2268:A:O4'	2.66	0.49
8:DK:60:GLU:CG	8:DK:61:ARG:HH12	2.22	0.49
31:BA:336:C:O2'	31:BA:337:C:H5'	2.13	0.49
11:AO:115:LEU:HD23	11:AO:131:SER:HB2	1.94	0.49
54:CA:91:C:H2'	54:CA:92:G:H5'	1.94	0.49
44:CQ:12:ARG:C	44:CQ:14:PRO:CD	2.75	0.49
47:BT:62:SER:HB2	47:BT:72:ARG:NH1	2.28	0.49
21:AV:170:THR:O	21:AV:171:ILE:CB	2.60	0.49
1:AA:1069:A:H5'	1:AA:1070:A:H8	1.73	0.49
55:DA:2475:C:H41	55:DA:2529:G:H22	1.61	0.49
1:AA:323:G:O2'	1:AA:1205:U:O2	2.30	0.49
11:AO:15:ARG:HG3	11:AO:16:ARG:N	2.28	0.49
33:CF:6:HIS:HB3	44:CQ:49:HIS:HD2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DX:6:VAL:HG12	25:DX:56:VAL:HG13	1.93	0.49
31:BA:132:C:H5'	31:BA:262:A:O2'	2.13	0.49
31:BA:831:U:O2'	31:BA:1539:C:OP1	2.31	0.49
1:AA:908:C:OP1	12:AP:22:LYS:CG	2.61	0.49
36:CI:9:VAL:HA	36:CI:59:TYR:O	2.12	0.49
55:DA:2593:U:C2	55:DA:2594:C:C5	3.01	0.49
55:DA:2173:A:C6	55:DA:2174:C:H1'	2.48	0.49
55:DA:2173:A:H5''	55:DA:2174:C:C5	2.48	0.49
54:CA:429:U:C1'	54:CA:430:A:H5''	2.37	0.49
1:AA:2129:C:C2'	1:AA:2130:U:H5'	2.38	0.49
36:CI:21:LEU:O	36:CI:25:ILE:HG12	2.13	0.49
3:DD:134:ARG:HG2	3:DD:187:GLY:HA3	1.95	0.49
1:AA:1654:A:C2	4:AE:113:PHE:CD2	3.01	0.49
2:AB:15:A:H1'	2:AB:109:G:C8	2.48	0.49
33:CF:95:THR:O	33:CF:97:LYS:N	2.41	0.49
10:DN:3:GLN:O	10:DN:4:PRO:C	2.49	0.49
54:CA:500:G:H2'	54:CA:501:C:H6	1.78	0.49
55:DA:1654:A:OP1	13:D0:1:MET:O	2.31	0.49
54:CA:1097:C:H2'	54:CA:1098:C:C6	2.48	0.49
54:CA:1353:G:O2'	54:CA:1354:C:H5'	2.13	0.49
32:BE:102:LEU:HD23	32:BE:182:ILE:HD12	1.95	0.49
55:DA:2355:C:O4'	22:D3:36:ILE:CD1	2.61	0.49
19:DT:51:VAL:HG13	19:DT:81:VAL:HG23	1.94	0.49
44:BQ:60:SER:O	44:BQ:61:TRP:HB3	2.13	0.49
31:BA:277:C:H5''	47:BT:68:ARG:HH22	1.78	0.49
55:DA:1657:C:H2'	55:DA:1658:C:H6	1.78	0.49
55:DA:2835:A:H5'	55:DA:2836:U:OP1	2.13	0.49
31:BA:1065:U:O2'	31:BA:1066:C:OP2	2.30	0.49
55:DA:2846:G:P	15:DR:54:ARG:HB2	2.53	0.49
36:CI:74:ASP:O	36:CI:77:ARG:N	2.46	0.49
55:DA:1668:A:H61	55:DA:1676:A:H61	1.61	0.49
39:CL:65:VAL:HG21	39:CL:73:GLN:NE2	2.27	0.49
10:DN:86:ILE:HD12	10:DN:86:ILE:H	1.78	0.49
32:BE:68:ILE:N	32:BE:68:ILE:HD12	2.28	0.49
54:CA:1164:G:C6	54:CA:1173:G:C6	3.01	0.49
31:BA:191(F):U:O2'	31:BA:191:G:H5'	2.12	0.49
6:DG:137:GLU:CB	6:DG:152:LEU:HD22	2.43	0.49
31:BA:1136:U:H5''	31:BA:1137:C:C5	2.48	0.49
55:DA:2098:U:H2'	55:DA:2099:U:C6	2.48	0.49
6:AG:96:ARG:O	6:AG:98:ARG:N	2.44	0.49
31:BA:42:G:H2'	31:BA:43:C:O4'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2305:A:H2'	55:DA:2306:C:O4'	2.12	0.49
9:DM:38:HIS:N	9:DM:38:HIS:ND1	2.60	0.49
39:CL:99:LEU:HD22	39:CL:99:LEU:N	2.28	0.49
47:BT:52:LYS:H	47:BT:52:LYS:HD2	1.78	0.49
55:DA:1092:C:H6	55:DA:1092:C:H5'	1.78	0.49
55:DA:1098:A:H2'	55:DA:1099:G:H5''	1.95	0.49
21:DV:192:ALA:HA	21:DV:193:GLU:OE1	2.12	0.49
26:A4:63:TYR:HE2	49:BV:41:VAL:CG2	2.24	0.49
31:BA:991:U:O2	31:BA:993:G:H1'	2.13	0.49
55:DA:1357:U:H2'	55:DA:1358:G:O4'	2.13	0.49
28:A6:18:ARG:NE	28:A6:43:CYS:HB3	2.27	0.49
28:A6:48:VAL:HG22	28:A6:49:HIS:N	2.27	0.49
26:D4:69:LYS:CG	26:D4:70:GLY:N	2.76	0.49
1:AA:888:C:C2'	1:AA:889:C:OP2	2.60	0.49
1:AA:915:C:O2'	1:AA:916:G:H5'	2.13	0.49
3:DD:92:ILE:HD13	3:DD:104:TYR:CD2	2.48	0.49
15:AR:77:PRO:O	15:AR:79:HIS:N	2.46	0.49
1:AA:996:A:H4'	16:A1:92:ARG:HD2	1.95	0.49
17:A2:14:VAL:HA	17:A2:18:LEU:HD13	1.95	0.49
1:AA:1009:A:OP2	1:AA:1010:A:OP2	2.30	0.49
40:BM:35:SER:O	40:BM:36:GLY:O	2.31	0.49
7:DH:89:ILE:HA	7:DH:162:ILE:HA	1.94	0.49
1:AA:1049:C:C4	7:AH:2:SER:HB2	2.48	0.49
17:D2:18:LEU:HD23	17:D2:19:LYS:N	2.28	0.49
33:CF:106:VAL:O	33:CF:107:GLN:C	2.51	0.49
21:DV:5:LEU:HD22	21:DV:5:LEU:O	2.13	0.49
52:CD:14:A:N6	52:CD:22:G:C5	2.80	0.49
6:DG:107:LEU:O	26:D4:38:LYS:HE2	2.13	0.49
6:DG:110:ALA:C	6:DG:112:PRO:HD2	2.32	0.49
8:DK:127:VAL:HA	8:DK:139:GLN:HA	1.95	0.49
8:DK:77:LEU:CD1	8:DK:78:THR:H	2.25	0.49
8:AK:111:PRO:O	8:AK:113:ARG:HG2	2.12	0.49
21:AV:4:ARG:HH11	21:AV:58:VAL:HG11	1.77	0.49
1:AA:1213:A:N3	1:AA:1238:G:H1'	2.27	0.49
10:AN:63:VAL:HG23	10:AN:64:ARG:HG3	1.93	0.49
18:DS:38:TYR:OH	27:D5:47:PRO:HG3	2.13	0.49
32:BE:17:PHE:CD1	32:BE:42:ILE:HG23	2.48	0.49
1:AA:2258:C:H2'	1:AA:2427:C:OP2	2.12	0.49
1:AA:2391:G:C2'	1:AA:2424:C:H41	2.26	0.49
25:AX:43:ILE:O	25:AX:47:VAL:HG23	2.13	0.49
3:AD:201:HIS:O	3:AD:204:ILE:HG12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1786:A:N1	55:DA:2606:C:H1'	2.27	0.49
12:DP:52:VAL:O	12:DP:54:MET:N	2.46	0.49
33:BF:156:ARG:NE	33:BF:160:ALA:O	2.42	0.49
31:BA:517:G:H21	31:BA:530:G:P	2.36	0.49
31:BA:518:C:H2'	31:BA:530:G:N3	2.28	0.49
8:AK:91:SER:OG	8:AK:119:PRO:HB2	2.13	0.49
22:A3:36:ILE:CD1	22:A3:36:ILE:N	2.74	0.49
12:AP:99:PRO:HG3	21:AV:79:ARG:NH1	2.27	0.49
55:DA:2531:A:N3	55:DA:2658:C:O2'	2.34	0.49
55:DA:1734:C:H3'	55:DA:1735:C:H5''	1.93	0.49
31:BA:737:A:H1'	36:BI:73:ASN:HD21	1.78	0.49
55:DA:2562:U:O2'	10:DN:23:ARG:NH1	2.46	0.49
54:CA:160:A:N6	54:CA:347:G:H1'	2.24	0.49
55:DA:1095:A:N3	55:DA:1095:A:C2'	2.75	0.49
1:AA:2033:A:O2'	1:AA:2034:U:P	2.71	0.49
15:AR:28:VAL:HG22	15:AR:29:ARG:N	2.27	0.49
12:DP:30:GLY:HA2	12:DP:107:ALA:CB	2.41	0.49
2:AB:12:C:C5'	2:AB:13:A:OP1	2.61	0.49
35:BH:105:VAL:HB	35:BH:106:PRO:HD3	1.95	0.49
1:AA:227:A:O2'	1:AA:228:A:OP2	2.29	0.49
55:DA:508:G:N7	18:DS:80:PRO:HG3	2.28	0.49
55:DA:2355:C:H5'	22:D3:36:ILE:HD11	1.94	0.49
58:DL:98:ARG:H	58:DL:98:ARG:HH11	1.57	0.49
55:DA:1464:C:O2'	55:DA:1528:A:H8	1.93	0.49
55:DA:828:U:H3	55:DA:2247:A:C4'	2.25	0.49
3:AD:2:ALA:O	3:AD:3:VAL:CB	2.59	0.49
9:DM:34:LEU:O	9:DM:49:GLY:HA3	2.13	0.49
52:CB:66:U:H3'	52:CB:67:C:C6	2.48	0.49
54:CA:88:C:H5''	54:CA:89:U:OP2	2.13	0.49
19:DT:8:ILE:N	19:DT:8:ILE:CD1	2.76	0.49
54:CA:1327:C:H2'	54:CA:1328:C:H6	1.74	0.49
1:AA:634:C:H2'	1:AA:635:C:C6	2.48	0.49
52:BD:44:G:H2'	52:BD:45:U:O4'	2.12	0.49
54:CA:1276:G:H2'	54:CA:1277:C:O4'	2.12	0.49
35:BH:149:GLU:O	35:BH:153:LYS:N	2.46	0.49
42:BO:22:SER:O	42:BO:24:VAL:N	2.46	0.49
18:DS:14:PRO:HG2	18:DS:78:GLU:HB2	1.95	0.49
52:CB:29:G:O2'	52:CB:30:G:H5'	2.13	0.49
41:BN:87:THR:O	41:BN:87:THR:HG22	2.13	0.49
1:AA:903:C:H2'	1:AA:904:C:H6	1.78	0.49
55:DA:1059:G:C2	55:DA:1060:U:O4	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:14:ALA:HB1	58:DL:50:ASP:HB3	1.92	0.49
58:DL:63:ARG:O	58:DL:64:SER:HB3	2.13	0.49
43:CP:120:LYS:O	43:CP:121:LYS:HB2	2.13	0.49
31:BA:975:A:H5''	31:BA:976:G:O5'	2.13	0.49
1:AA:195:A:C8	1:AA:197:A:OP1	2.66	0.49
55:DA:898:C:C3'	55:DA:899:A:C5'	2.90	0.49
31:BA:1288:A:H2'	31:BA:1289:A:C8	2.48	0.49
26:A4:34:GLU:CB	43:BP:57:ARG:NH1	2.75	0.49
54:CA:1003:G:H2'	54:CA:1004:A:C5'	2.16	0.49
20:DU:54:LYS:O	20:DU:55:TYR:CB	2.60	0.49
54:CA:948:C:C6	43:CP:106:ASN:ND2	2.81	0.49
4:DE:49:LEU:O	4:DE:50:GLY:O	2.31	0.49
8:AK:79:ILE:CA	8:AK:142:VAL:HG11	2.42	0.49
14:DQ:94:TYR:CE2	14:DQ:99:LYS:HG3	2.48	0.49
28:D6:40:CYS:HA	28:D6:46:HIS:HA	1.95	0.49
1:AA:747:U:C2	27:A5:2:ALA:N	2.80	0.49
20:DU:84:ARG:O	20:DU:95:LYS:HD3	2.13	0.49
31:BA:437:U:H4'	34:BG:125:HIS:HE2	1.77	0.49
7:DH:152:ARG:HE	7:DH:153:LYS:CE	2.26	0.49
54:CA:1139:G:C2	54:CA:1143:G:O6	2.66	0.49
31:BA:1004:A:C2	31:BA:1005:A:C2	3.01	0.49
1:AA:1252:G:O4'	16:A1:33:ARG:CD	2.60	0.49
22:A3:4:LYS:O	22:A3:5:LYS:O	2.30	0.49
26:D4:23:GLU:CD	26:D4:23:GLU:N	2.65	0.49
54:CA:255:G:O6	54:CA:266:G:O6	2.31	0.49
1:AA:1140:C:C4'	1:AA:1143:A:H62	2.26	0.49
31:BA:547:A:H1'	31:BA:548:G:O4'	2.13	0.49
1:AA:1238:G:O2'	1:AA:1239:G:H5'	2.13	0.49
20:AU:75:ILE:C	20:AU:75:ILE:HD13	2.33	0.49
1:AA:479:A:O2'	1:AA:480:A:O5'	2.29	0.49
55:DA:654(S):G:C3'	55:DA:654(T):A:C8	2.95	0.49
19:AT:39:ILE:O	19:AT:40:LYS:C	2.51	0.49
19:AT:23:GLU:C	19:AT:25:LYS:H	2.16	0.49
19:AT:25:LYS:NZ	19:AT:82:GLN:OE1	2.39	0.49
31:BA:1502:A:C2	31:BA:1505:G:N1	2.62	0.49
55:DA:2146:C:H4'	55:DA:2147:G:C8	2.48	0.49
25:AX:4:LEU:O	25:AX:36:VAL:HA	2.13	0.49
39:CL:118:LYS:HB3	39:CL:118:LYS:HZ3	1.77	0.49
39:BL:82:ALA:CB	39:BL:96:LEU:HD11	2.42	0.49
21:AV:122:ARG:NH1	21:AV:122:ARG:HG2	2.28	0.49
31:BA:1053:G:N7	31:BA:1200:C:H5''	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BV:31:ILE:CG2	49:BV:49:ILE:HA	2.43	0.49
49:BV:49:ILE:HG22	49:BV:50:ALA:H	1.77	0.49
5:DF:125:LEU:HA	5:DF:194:MET:O	2.12	0.49
50:BW:50:GLU:CG	50:BW:51:GLU:N	2.76	0.49
55:DA:686:G:N7	29:D7:5:TRP:CH2	2.81	0.49
34:CG:24:GLU:O	34:CG:27:TYR:HB2	2.13	0.49
33:BF:22:TRP:HB2	33:BF:59:ARG:HB2	1.95	0.49
52:CC:35:A:C3'	52:CC:36:A:H5''	2.43	0.49
41:BN:27:ASN:ND2	41:BN:29:ILE:HG22	2.28	0.49
1:AA:1785:A:H2'	1:AA:1787:A:N7	2.28	0.49
40:BM:51:ARG:CB	40:BM:60:ARG:HA	2.42	0.49
7:AH:125:VAL:HG22	7:AH:126:PRO:HA	1.94	0.49
55:DA:2661:G:H2'	55:DA:2662:A:O4'	2.13	0.49
52:BC:58:A:H1'	52:BC:60:U:C6	2.47	0.49
27:A5:16:ARG:HH11	27:A5:16:ARG:CG	2.18	0.49
34:CG:3:ARG:O	34:CG:5:ILE:HG13	2.13	0.49
1:AA:2126:A:H4'	1:AA:2127:G:O5'	2.13	0.49
55:DA:2430:A:H8	55:DA:2431:U:C5	2.30	0.49
1:AA:116:C:C2'	1:AA:117:G:H5'	2.43	0.49
1:AA:116:C:O2'	1:AA:117:G:H5'	2.12	0.49
2:AB:110:G:C2	2:AB:111:U:H1'	2.47	0.49
54:CA:992:U:H4'	54:CA:993:G:O5'	2.13	0.49
17:D2:62:LEU:CD1	17:D2:95:LEU:HB2	2.42	0.49
46:CS:39:TYR:CZ	46:CS:41:PRO:HB3	2.48	0.49
1:AA:226:G:H1'	1:AA:228:A:N6	2.25	0.49
55:DA:1853:A:N1	55:DA:2087:G:H1'	2.27	0.49
45:CR:26:GLU:CD	45:CR:77:ARG:HH12	2.16	0.49
32:BE:97:TRP:CZ2	32:BE:101:MET:HB2	2.47	0.49
55:DA:1681:G:O2'	55:DA:1762:A:C2'	2.61	0.49
55:DA:345:A:C4'	55:DA:346:A:OP1	2.59	0.49
1:AA:374:A:H1'	1:AA:401:A:N6	2.27	0.49
23:DZ:78:LYS:CD	23:DZ:78:LYS:O	2.61	0.49
43:BP:94:ARG:O	43:BP:94:ARG:HG3	2.13	0.49
45:CR:3:ILE:O	45:CR:3:ILE:HG12	2.13	0.49
42:BO:19:ARG:HG2	42:BO:20:LYS:N	2.28	0.49
1:AA:2:G:H2'	1:AA:3:U:O4'	2.12	0.49
55:DA:1639:U:C2'	55:DA:1640:C:H5''	2.43	0.49
53:C1:42:U:O2'	53:C1:43:U:P	2.71	0.49
31:BA:658:G:H2'	31:BA:659:U:H6	1.78	0.49
55:DA:660:G:H5'	5:DF:99:TYR:CE2	2.48	0.49
2:AB:28:C:O2'	2:AB:29:A:H5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BE:24:TRP:H	32:BE:24:TRP:HD1	1.59	0.49
54:CA:681:C:H2'	54:CA:682:G:H8	1.78	0.49
54:CA:153:C:H2'	54:CA:154:C:H6	1.77	0.49
43:BP:36:LYS:HB2	43:BP:59:TYR:CE2	2.48	0.49
54:CA:258:G:C2	54:CA:259:G:C8	3.00	0.49
24:DW:4:SER:OG	24:DW:5:GLU:OE2	2.26	0.49
54:CA:369:C:OP2	54:CA:388:G:N2	2.46	0.49
1:AA:1853:A:H2'	1:AA:1854:A:C8	2.48	0.49
10:AN:34:THR:O	10:AN:37:ASP:HB2	2.12	0.49
8:DK:62:LYS:O	8:DK:66:GLU:HG2	2.13	0.49
1:AA:2396:G:O2'	23:AZ:29:GLY:HA3	2.13	0.49
29:A7:34:ARG:HB2	29:A7:42:LEU:HD22	1.94	0.49
55:DA:1056:G:O2'	55:DA:1086:A:H1'	2.13	0.48
55:DA:1080:A:O2'	58:DL:126:MET:HE2	2.13	0.48
57:DY:15:GLU:HG3	57:DY:19:ARG:HH22	1.78	0.48
57:DY:97:ALA:O	57:DY:98:LYS:O	2.30	0.48
21:AV:178:GLU:OE1	21:AV:181:GLU:O	2.30	0.48
1:AA:1372:U:H2'	1:AA:1373:A:H5'	1.95	0.48
1:AA:946:G:O6	1:AA:972:G:N2	2.46	0.48
1:AA:974:G:O2'	1:AA:975:G:N7	2.33	0.48
21:DV:114:GLY:O	21:DV:116:VAL:HG23	2.12	0.48
3:DD:30:GLU:HG3	3:DD:63:ARG:NH2	2.27	0.48
15:AR:90:GLN:CD	15:AR:91:ARG:H	2.17	0.48
40:BM:90:LEU:N	40:BM:91:PRO:CD	2.76	0.48
20:DU:44:ILE:HD12	20:DU:45:VAL:H	1.78	0.48
54:CA:973:G:H3'	54:CA:974:A:H5''	1.95	0.48
4:DE:51:PHE:CD1	4:DE:52:LEU:N	2.81	0.48
28:D6:30:THR:HA	28:D6:31:PRO:O	2.12	0.48
1:AA:610:C:H2'	1:AA:611:C:C6	2.47	0.48
7:DH:149:ARG:HG3	7:DH:162:ILE:O	2.12	0.48
55:DA:118:A:OP2	55:DA:119:A:H5''	2.13	0.48
40:CM:5:ARG:NH2	40:CM:99:LYS:HD2	2.27	0.48
5:DF:206:ILE:C	5:DF:206:ILE:HD12	2.34	0.48
55:DA:2879:C:C4'	55:DA:2880:C:OP1	2.60	0.48
6:DG:106:LEU:HA	6:DG:110:ALA:CB	2.43	0.48
55:DA:888:C:O5'	55:DA:889:C:H5	1.95	0.48
1:AA:2521:C:H2'	1:AA:2522:U:O4'	2.12	0.48
21:AV:39:VAL:CG2	21:AV:44:PHE:HB2	2.42	0.48
21:AV:7:ALA:C	21:AV:8:TYR:CD2	2.87	0.48
1:AA:330:A:H2	1:AA:1210:A:H2'	1.77	0.48
55:DA:1537:C:C5	55:DA:1538:G:C6	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2816:C:H5''	13:D0:99:LYS:NZ	2.27	0.48
39:CL:79:LEU:C	39:CL:79:LEU:HD13	2.34	0.48
39:CL:83:ARG:C	39:CL:86:VAL:HG12	2.33	0.48
46:CS:1:MET:HG2	46:CS:2:VAL:N	2.28	0.48
30:D8:56:GLU:O	30:D8:57:ARG:C	2.51	0.48
1:AA:686:G:O6	29:A7:12:ARG:HG3	2.13	0.48
1:AA:1971:A:C5	3:AD:241:PRO:HD3	2.48	0.48
6:DG:133:LEU:CD2	6:DG:157:ILE:HB	2.42	0.48
55:DA:1929:G:C5'	55:DA:1930:G:OP1	2.61	0.48
35:CH:78:HIS:CE1	35:CH:143:ARG:H	2.30	0.48
55:DA:2543:G:H5'	55:DA:2543:G:H8	1.78	0.48
1:AA:1993:U:H4'	4:AE:128:SER:HB2	1.94	0.48
5:DF:123:LEU:HD13	5:DF:192:LEU:HD13	1.95	0.48
21:DV:28:MET:O	21:DV:34:ASN:HA	2.12	0.48
41:CN:81:ASP:O	41:CN:82:VAL:O	2.31	0.48
34:CG:103:ASN:O	34:CG:106:TYR:HB3	2.11	0.48
34:CG:29:PRO:O	34:CG:30:LYS:CB	2.61	0.48
10:DN:77:ILE:HD12	10:DN:79:PHE:CE1	2.48	0.48
33:BF:181:ASN:HD21	33:BF:204:LEU:HD12	1.78	0.48
3:DD:13:ARG:CZ	3:DD:16:MET:CE	2.91	0.48
10:AN:35:VAL:HG11	10:AN:103:ALA:CB	2.33	0.48
31:BA:777:A:H2'	31:BA:778:G:H8	1.77	0.48
31:BA:1241:G:OP2	37:BJ:38:LEU:HD21	2.13	0.48
35:CH:11:ILE:O	35:CH:12:LEU:CB	2.54	0.48
31:BA:556:C:O2'	31:BA:557:G:H5'	2.13	0.48
39:CL:70:LYS:O	39:CL:74:ILE:HG13	2.12	0.48
55:DA:2391:G:H2'	55:DA:2424:C:H41	1.77	0.48
1:AA:1173:G:H2'	1:AA:1174:A:OP2	2.13	0.48
48:CU:31:LEU:H	48:CU:31:LEU:HD23	1.77	0.48
47:CT:14:LYS:HZ2	47:CT:14:LYS:H	1.61	0.48
9:DM:71:ILE:H	9:DM:71:ILE:HD13	1.74	0.48
55:DA:2050:C:H2'	55:DA:2051:A:O4'	2.13	0.48
45:BR:17:ARG:HD3	45:BR:26:GLU:CD	2.34	0.48
41:BN:95:ILE:CG2	41:BN:108:ILE:HD13	2.43	0.48
31:BA:526:C:OP2	42:BO:91:LYS:HE2	2.13	0.48
54:CA:195:A:H1'	54:CA:222:U:O2'	2.13	0.48
55:DA:1991:U:C2'	55:DA:1992:G:H5''	2.43	0.48
8:AK:58:LEU:C	8:AK:60:GLU:H	2.15	0.48
3:AD:268:ARG:HD3	3:AD:269:PHE:CE1	2.48	0.48
31:BA:577:G:H1'	31:BA:816:A:N3	2.27	0.48
33:BF:5:ILE:O	33:BF:5:ILE:HD13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1844:C:H5''	3:DD:258:LYS:HG3	1.95	0.48
4:DE:39:PRO:HA	4:DE:44:TYR:N	2.28	0.48
31:BA:748:C:O2'	31:BA:749:C:P	2.71	0.48
15:AR:31:SER:HB3	15:AR:42:ILE:CG2	2.42	0.48
1:AA:633:A:C2'	1:AA:634:C:H5'	2.42	0.48
5:AF:60:SER:O	5:AF:61:GLY:O	2.31	0.48
9:DM:120:LEU:HD11	9:DM:122:VAL:CG2	2.43	0.48
9:AM:51:PHE:CE2	9:AM:119:ARG:HD2	2.48	0.48
1:AA:476:G:H4'	1:AA:502:A:N1	2.28	0.48
40:CM:101:VAL:HG22	40:CM:101:VAL:O	2.12	0.48
1:AA:2115:G:H2'	1:AA:2116:G:N7	2.28	0.48
1:AA:2115:G:H2'	1:AA:2116:G:C8	2.47	0.48
35:BH:59:GLY:O	35:BH:60:TYR:C	2.51	0.48
55:DA:2694:G:O2'	55:DA:2695:C:H5'	2.13	0.48
1:AA:487:C:N4	1:AA:488:G:C6	2.81	0.48
47:CT:27:PHE:CE1	47:CT:36:ILE:HD11	2.48	0.48
54:CA:952:U:H4'	54:CA:964:A:N1	2.28	0.48
45:BR:74:ASP:OD2	45:BR:76:GLU:HB3	2.13	0.48
26:A4:71:ARG:NH1	26:A4:71:ARG:HB3	2.28	0.48
20:AU:21:LYS:O	20:AU:21:LYS:HG3	2.13	0.48
1:AA:421:U:O2'	1:AA:422:A:P	2.71	0.48
55:DA:1082:U:O2	57:DY:41:ARG:NH2	2.46	0.48
21:DV:190:GLU:O	21:DV:191:VAL:HB	2.13	0.48
1:AA:886:C:C2	1:AA:890:A:N1	2.82	0.48
55:DA:1899:G:HO2'	55:DA:1900:A:P	2.35	0.48
42:CO:89:ARG:NE	42:CO:91:LYS:HZ3	2.10	0.48
21:DV:174:VAL:C	21:DV:175:VAL:HG13	2.34	0.48
26:A4:9:LEU:HA	26:A4:26:SER:O	2.13	0.48
43:BP:15:VAL:O	43:BP:19:LEU:HD23	2.14	0.48
40:BM:4:ILE:HD12	40:BM:74:ILE:HG13	1.94	0.48
54:CA:398:C:O2'	54:CA:399:G:H5'	2.13	0.48
28:D6:34:LEU:O	28:D6:35:GLU:C	2.51	0.48
16:A1:76:TYR:CZ	16:A1:80:ILE:HG13	2.48	0.48
1:AA:1340:U:O2'	1:AA:1341:U:OP1	2.30	0.48
55:DA:554:U:O2'	55:DA:556:G:C8	2.65	0.48
40:BM:5:ARG:CG	40:BM:71:LEU:HD11	2.43	0.48
32:CE:77:ALA:HB2	32:CE:211:ILE:CD1	2.42	0.48
31:BA:1025:U:H2'	31:BA:1026:G:H8	1.78	0.48
55:DA:1020:A:N6	55:DA:1141:U:O2'	2.46	0.48
55:DA:1142(A):A:C5	55:DA:1144:G:C5	3.01	0.48
35:BH:9:LYS:HB3	35:BH:112:LEU:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DK:79:ILE:O	8:DK:79:ILE:HG22	2.12	0.48
1:AA:1022:G:O2'	1:AA:1024:G:N7	2.37	0.48
1:AA:1212:G:HO2'	1:AA:1213:A:P	2.36	0.48
1:AA:311:A:O4'	1:AA:332:A:C4	2.67	0.48
15:AR:118:ARG:CZ	31:BA:1446:A:C6	2.96	0.48
3:AD:35:LYS:NZ	3:AD:104:TYR:CB	2.65	0.48
3:AD:85:ASP:HB2	3:AD:92:ILE:CD1	2.44	0.48
1:AA:142:G:H1'	19:AT:37:THR:CG2	2.35	0.48
4:AE:201:THR:CG2	4:AE:202:LYS:H	2.19	0.48
1:AA:621:A:C2	1:AA:622:G:C8	3.01	0.48
54:CA:691:G:H2'	54:CA:692:U:C6	2.48	0.48
55:DA:1827:C:O2	55:DA:1827:C:H2'	2.13	0.48
11:AO:110:TYR:O	11:AO:111:ARG:C	2.52	0.48
1:AA:1991:U:H2'	1:AA:1992:G:C5'	2.43	0.48
55:DA:1885:A:H2'	55:DA:1886:C:O4'	2.12	0.48
10:DN:71:ARG:HG3	10:DN:71:ARG:NH1	2.25	0.48
41:BN:57:THR:HG22	41:BN:59:TYR:H	1.78	0.48
54:CA:84:U:O2	54:CA:84:U:H2'	2.12	0.48
10:AN:23:ARG:HG3	10:AN:24:VAL:H	1.78	0.48
55:DA:2127:G:H21	55:DA:2173:A:C1'	2.27	0.48
34:CG:7:PRO:HB2	34:CG:10:ARG:HD2	1.94	0.48
55:DA:301:G:HO2'	55:DA:302:C:H6	1.57	0.48
55:DA:1946:U:C2	55:DA:1947:C:C5	3.01	0.48
22:A3:7:LEU:N	22:A3:7:LEU:HD13	2.28	0.48
4:AE:117:MET:CE	4:AE:124:GLY:HA3	2.43	0.48
33:CF:61:ALA:O	33:CF:62:ASP:C	2.51	0.48
1:AA:2884:U:H2'	1:AA:2885:C:O4'	2.13	0.48
54:CA:1132:C:H2'	54:CA:1133:G:C8	2.48	0.48
1:AA:1362:C:O2'	1:AA:1363:C:H5'	2.13	0.48
1:AA:832:G:H2'	1:AA:833:U:C6	2.48	0.48
55:DA:2210:G:H4'	55:DA:2211:G:OP1	2.13	0.48
55:DA:1889:A:O2'	55:DA:2087:G:H5'	2.14	0.48
47:CT:52:LYS:HD2	47:CT:52:LYS:H	1.78	0.48
1:AA:2695:C:H2'	1:AA:2696:U:C6	2.49	0.48
22:D3:25:ARG:HD3	22:D3:29:GLN:HE22	1.78	0.48
47:BT:65:ILE:HG22	47:BT:65:ILE:O	2.12	0.48
35:CH:42:GLY:HA2	35:CH:65:ASN:O	2.12	0.48
8:AK:47:LEU:HG	8:AK:51:ILE:CD1	2.43	0.48
8:AK:56:LYS:CG	8:AK:57:ARG:N	2.76	0.48
47:BT:8:GLY:CA	47:BT:23:VAL:HG22	2.43	0.48
54:CA:1014:A:H4'	49:CV:14:HIS:ND1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:11:GLU:OE2	21:AV:12:GLY:N	2.46	0.48
13:A0:21:TYR:OH	13:A0:43:GLU:HG2	2.13	0.48
1:AA:1858:G:C6	1:AA:1883:G:C6	3.01	0.48
17:D2:1:MET:HG2	17:D2:42:GLY:H	1.78	0.48
34:CG:144:ASP:C	34:CG:146:ILE:HD12	2.34	0.48
55:DA:2839:G:H5'	13:D0:46:GLY:HA2	1.95	0.48
1:AA:2162:G:H2'	1:AA:2163:C:H6	1.78	0.48
55:DA:532:A:N7	55:DA:2021:C:H2'	2.28	0.48
38:CK:44:PHE:HA	38:CK:79:VAL:CG1	2.43	0.48
23:AZ:30:VAL:HG23	23:AZ:30:VAL:O	2.14	0.48
15:AR:42:ILE:HD12	15:AR:42:ILE:N	2.28	0.48
54:CA:718:G:H1'	41:CN:116:HIS:HA	1.95	0.48
55:DA:950:G:H2'	55:DA:951:C:H6	1.77	0.48
55:DA:1336:A:H2'	55:DA:1337:G:H8	1.76	0.48
55:DA:1322:A:OP1	18:DS:11:ARG:HG3	2.13	0.48
54:CA:892:A:O2'	54:CA:1415:G:H4'	2.13	0.48
55:DA:821:A:H5''	55:DA:822:U:H6	1.78	0.48
23:DZ:63:ALA:O	23:DZ:64:ALA:C	2.51	0.48
31:BA:903:G:H2'	31:BA:904:C:C6	2.48	0.48
54:CA:11:G:H2'	54:CA:12:U:C6	2.48	0.48
55:DA:526:A:H2	55:DA:2625:G:N3	2.11	0.48
1:AA:2056:G:C2	1:AA:2057:A:C8	3.01	0.48
1:AA:136:G:H2'	1:AA:137:C:H6	1.78	0.48
21:DV:158:PRO:C	21:DV:160:GLY:H	2.15	0.48
29:A7:23:ARG:HH11	29:A7:23:ARG:HG3	1.78	0.48
54:CA:1137:C:O2'	54:CA:1138:G:H5''	2.12	0.48
25:DX:18:ASP:N	25:DX:18:ASP:OD1	2.46	0.48
54:CA:543:C:P	34:CG:14:ARG:HH21	2.37	0.48
1:AA:273(C):C:H3'	1:AA:273(D):C:H6	1.77	0.48
56:DJ:18:LEU:C	56:DJ:21:LYS:HB2	2.33	0.48
58:DL:101:TRP:CE2	58:DL:140:GLY:HA3	2.48	0.48
58:DL:18:THR:HG22	58:DL:38:VAL:HG13	1.86	0.48
58:DL:25:PRO:CB	58:DL:27:LEU:HG	2.43	0.48
57:DY:117:LEU:HD13	57:DY:117:LEU:N	2.27	0.48
57:DY:90:ALA:HB3	56:DJ:15:ALA:H	1.78	0.48
21:AV:144:LEU:HD12	21:AV:144:LEU:C	2.33	0.48
52:BB:57:G:H2'	52:BB:58:A:H5''	1.94	0.48
21:DV:191:VAL:CB	21:DV:197:ILE:HG12	2.43	0.48
31:BA:1213:A:C6	31:BA:1215:G:C4	3.01	0.48
31:BA:977:A:N3	31:BA:977:A:H3'	2.27	0.48
1:AA:2346:A:H61	28:A6:28:ARG:NH2	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A6:35:GLU:O	28:A6:36:LEU:CB	2.61	0.48
1:AA:1815:A:P	3:AD:54:ARG:HH22	2.36	0.48
32:CE:11:LEU:HG	32:CE:213:LEU:HD11	1.94	0.48
1:AA:1888:G:H5'	1:AA:1888:G:N3	2.28	0.48
27:D5:49:CYS:HA	27:D5:58:LEU:CB	2.36	0.48
49:CV:44:MET:C	49:CV:62:ILE:HG21	2.34	0.48
49:CV:64:GLU:HG3	49:CV:65:ASN:N	2.27	0.48
54:CA:1004:A:C2'	54:CA:1005:A:O4'	2.61	0.48
4:DE:196:VAL:O	4:DE:197:ILE:HG22	2.12	0.48
16:A1:90:VAL:HA	17:A2:39:LEU:HD23	1.93	0.48
17:A2:57:VAL:CG1	17:A2:99:ILE:HG13	2.43	0.48
1:AA:1930:G:H2'	1:AA:1968:G:H1	1.78	0.48
50:CW:71:THR:CG2	50:CW:72:LEU:H	1.93	0.48
55:DA:12:U:O2	55:DA:2627:G:OP1	2.31	0.48
9:DM:43:THR:HG22	9:DM:45:ASN:HD22	1.75	0.48
9:DM:43:THR:CG2	9:DM:45:ASN:HD21	2.26	0.48
31:BA:1027:C:HO2'	31:BA:1028:C:P	2.36	0.48
13:D0:53:HIS:CD2	13:D0:56:LYS:HE3	2.48	0.48
43:CP:19:LEU:HB3	43:CP:25:ILE:HG21	1.94	0.48
6:DG:108:ASN:O	26:D4:38:LYS:HB2	2.13	0.48
17:D2:35:LEU:CD2	17:D2:57:VAL:HG22	2.28	0.48
54:CA:254:G:H21	47:CT:16:GLN:NE2	2.12	0.48
31:BA:1372:U:H2'	31:BA:1373:G:C5'	2.42	0.48
1:AA:1667:G:OP2	1:AA:1667:G:O4'	2.30	0.48
5:AF:8:GLN:HG2	5:AF:126:VAL:HG12	1.95	0.48
32:BE:212:GLN:HE22	32:BE:216:SER:HB2	1.78	0.48
29:D7:8:ASN:ND2	29:D7:10:ARG:N	2.61	0.48
3:AD:109:ASP:HB2	3:AD:197:GLY:CA	2.43	0.48
55:DA:465:G:N2	55:DA:466:A:C2	2.81	0.48
55:DA:792:G:C5'	55:DA:793:A:H5'	2.30	0.48
4:AE:37:ARG:CG	4:AE:46:ALA:HB3	2.32	0.48
39:CL:111:ARG:O	39:CL:113:LYS:HE3	2.14	0.48
54:CA:817:C:H4'	54:CA:818:G:O5'	2.12	0.48
8:DK:61:ARG:NH2	8:DK:64:GLU:OE2	2.46	0.48
35:BH:146:ALA:O	35:BH:148:VAL:N	2.46	0.48
31:BA:1054:C:H2'	31:BA:1055:A:H5''	1.95	0.48
42:BO:60:LEU:CD2	42:BO:60:LEU:N	2.76	0.48
54:CA:982:U:C4'	54:CA:983:A:O5'	2.50	0.48
55:DA:447:A:H2'	55:DA:473:G:N7	2.29	0.48
33:BF:64:VAL:CG2	33:BF:97:LYS:HE3	2.43	0.48
1:AA:1541:U:H2'	1:AA:1542:G:O4'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1542:U:OP1	54:CA:1542:U:H4'	2.11	0.48
12:AP:35:VAL:HG22	12:AP:36:ALA:N	2.28	0.48
1:AA:2713:A:H3'	1:AA:2714:G:C5'	2.43	0.48
11:DO:41:ARG:HH21	11:DO:41:ARG:CG	2.18	0.48
54:CA:64:G:N2	54:CA:67:C:C4	2.81	0.48
31:BA:1301:U:C4	31:BA:1303:C:C6	3.01	0.48
54:CA:50:A:O2'	54:CA:51:A:OP2	2.31	0.48
5:AF:63:LYS:HZ3	5:AF:67:GLN:HB2	1.78	0.48
54:CA:481:G:O2'	54:CA:482:A:P	2.70	0.48
54:CA:485:G:C2'	54:CA:486:U:OP2	2.61	0.48
1:AA:1175:U:H2'	1:AA:1176:G:C4'	2.41	0.48
12:AP:30:GLY:N	12:AP:65:PHE:HE2	2.11	0.48
54:CA:502:G:H2'	54:CA:503:C:H6	1.79	0.48
54:CA:676:A:O2'	54:CA:677:U:H5'	2.13	0.48
2:AB:55:U:HO2'	6:AG:29:TRP:HD1	1.60	0.48
15:AR:29:ARG:NE	15:AR:44:ASP:HB3	2.28	0.48
55:DA:2848:G:O2'	55:DA:2849:U:P	2.71	0.48
55:DA:646:A:H5'	55:DA:646:A:N3	2.27	0.48
2:AB:12:C:H4'	2:AB:13:A:C5'	2.43	0.48
54:CA:1239:A:H1'	54:CA:1241:G:C5	2.48	0.48
21:DV:51:ALA:CB	21:DV:57:ILE:HD11	2.43	0.48
8:DK:124:GLY:H	8:DK:142:VAL:CG2	2.27	0.48
55:DA:1954:G:O2'	55:DA:1956:U:C5	2.66	0.48
8:DK:32:PRO:C	8:DK:34:GLY:N	2.65	0.48
55:DA:1682:G:H5'	55:DA:1762:A:O2'	2.13	0.48
1:AA:2864:G:O2'	1:AA:2865:U:H5'	2.12	0.48
1:AA:2387:U:C5'	1:AA:2388:A:OP2	2.62	0.48
55:DA:222:A:O2'	55:DA:223:A:O5'	2.25	0.48
37:CJ:78:ARG:HG3	37:CJ:79:ARG:H	1.77	0.48
32:CE:101:MET:C	32:CE:102:LEU:HD12	2.33	0.48
31:BA:176:C:H2'	31:BA:177:C:H6	1.78	0.48
1:AA:2119:A:N6	1:AA:2171:A:N3	2.62	0.48
1:AA:616:A:H2'	1:AA:617:G:O4'	2.14	0.48
55:DA:287:C:H2'	55:DA:288:C:H6	1.78	0.48
55:DA:1970:A:C5'	55:DA:1971:A:OP1	2.61	0.48
31:BA:1448:C:H2'	31:BA:1449:C:O4'	2.12	0.48
1:AA:1301:A:O2'	1:AA:1302:A:H3'	2.13	0.48
33:CF:33:LEU:O	33:CF:37:GLN:HG2	2.13	0.48
9:DM:75:TYR:C	9:DM:76:SER:O	2.48	0.48
37:CJ:33:ASP:C	37:CJ:35:LYS:H	2.16	0.48
9:DM:78:TYR:H	9:DM:78:TYR:HD1	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1336:C:H1'	54:CA:1337:G:C2	2.47	0.48
54:CA:509:A:C6	54:CA:510:A:N1	2.81	0.48
31:BA:357:G:C2	31:BA:358:U:C5	3.02	0.48
55:DA:2537:U:H2'	55:DA:2538:C:C6	2.48	0.48
55:DA:2455:G:H2'	55:DA:2456:C:C6	2.48	0.48
5:AF:141:ALA:O	5:AF:144:LYS:HB3	2.13	0.48
1:AA:1842:G:H2'	1:AA:1843:C:C6	2.47	0.48
31:BA:834:C:H2'	31:BA:835:U:H6	1.78	0.48
32:BE:161:ALA:HA	32:BE:183:PRO:O	2.13	0.48
31:BA:575:G:O2'	31:BA:576:G:P	2.71	0.48
35:BH:83:GLU:HG2	35:BH:88:LYS:HD2	1.94	0.48
15:AR:23:ARG:HG2	15:AR:120:ARG:NH1	2.29	0.48
39:CL:127:LYS:CE	52:CC:34:G:OP2	2.61	0.48
1:AA:2366:A:H2'	1:AA:2367:G:O4'	2.12	0.48
43:CP:20:THR:C	43:CP:22:ILE:H	2.17	0.48
1:AA:270(V):G:O2'	1:AA:270(W):G:H5'	2.13	0.48
1:AA:270(N):G:H1'	1:AA:270(P):C:H1'	1.96	0.48
55:DA:1082:U:OP2	57:DY:45:LYS:HG3	2.13	0.48
56:DI:1:MET:HB3	56:DI:5:ILE:CG2	2.43	0.48
58:DL:46:ALA:C	58:DL:48:MET:N	2.62	0.48
55:DA:1059:G:H4'	58:DL:71:THR:CB	2.43	0.48
57:DY:43:ALA:CB	57:DY:47:ASN:HA	2.41	0.48
11:AO:62:LEU:CD2	11:AO:63:PRO:O	2.61	0.48
1:AA:2414:G:H21	11:AO:67:MET:HE1	1.77	0.48
54:CA:533:A:O2'	54:CA:535:A:OP2	2.19	0.48
55:DA:1301:A:C8	55:DA:1303:G:C8	3.01	0.48
26:D4:55:ARG:HD2	26:D4:56:VAL:H	1.79	0.48
54:CA:1027:C:O2'	54:CA:1028:C:P	2.70	0.48
20:DU:61:ILE:HG23	20:DU:62:GLU:N	2.28	0.48
54:CA:1054:C:O2'	54:CA:1055:A:C5'	2.60	0.48
55:DA:1485:G:H8	55:DA:1485:G:H5'	1.78	0.48
1:AA:456:C:O2'	1:AA:457:A:O5'	2.30	0.48
34:BG:33:MET:O	34:BG:34:GLU:HB2	2.13	0.48
16:A1:50:ARG:HH21	16:A1:50:ARG:HB2	1.78	0.48
1:AA:2307:G:O2'	1:AA:2308:G:C5	2.64	0.48
7:DH:98:LEU:HD12	7:DH:102:ALA:C	2.34	0.48
31:BA:787:A:C2	31:BA:796:C:N3	2.82	0.48
47:CT:63:ARG:O	47:CT:65:ILE:HD12	2.14	0.48
21:AV:56:VAL:CG1	21:AV:57:ILE:N	2.76	0.48
20:AU:17:SER:OG	20:AU:18:GLY:N	2.46	0.48
5:AF:205:ARG:O	5:AF:206:ILE:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BE:215:LEU:O	32:BE:218:ALA:HB3	2.13	0.48
55:DA:226:G:OP1	55:DA:256:A:O2'	2.31	0.48
1:AA:654(L):G:C4	1:AA:654(M):C:C6	3.01	0.48
12:DP:118:LEU:CD1	12:DP:131:ILE:HG23	2.42	0.48
41:CN:127:LYS:HE2	41:CN:127:LYS:CA	2.32	0.48
9:AM:134:ARG:HG2	9:AM:134:ARG:O	2.13	0.48
9:AM:15:LEU:HD21	9:AM:55:VAL:HG13	1.95	0.48
54:CA:93:U:C3'	54:CA:95:G:H5''	2.44	0.48
49:BV:31:ILE:CG2	49:BV:49:ILE:HG23	2.43	0.48
33:BF:113:ALA:HB2	33:BF:202:ILE:HG12	1.94	0.48
31:BA:1111:A:H2'	31:BA:1112:C:C6	2.49	0.48
55:DA:1188:U:H4'	17:D2:79:VAL:HG22	1.94	0.48
54:CA:826:C:C5'	38:CK:12:ARG:HH21	2.24	0.48
2:DB:79:C:H2'	2:DB:80:U:O4'	2.13	0.48
4:DE:203:LYS:HD2	4:DE:203:LYS:O	2.13	0.48
10:AN:86:ILE:N	10:AN:86:ILE:HD12	2.27	0.48
48:CU:22:VAL:O	48:CU:25:THR:HB	2.14	0.48
1:AA:857:C:H1'	22:A3:26:TYR:CE2	2.49	0.48
54:CA:353:A:H2'	54:CA:354:G:OP2	2.13	0.48
54:CA:64:G:H5''	54:CA:65:U:OP1	2.14	0.48
38:CK:31:PHE:O	38:CK:34:GLU:HB2	2.13	0.48
1:AA:119:A:O2'	1:AA:120:U:P	2.72	0.48
31:BA:1073:U:H2'	31:BA:1074:G:C8	2.47	0.48
54:CA:1149:C:P	39:CL:9:ARG:HH21	2.37	0.48
54:CA:1238:A:N6	54:CA:1299:A:H61	2.11	0.48
26:D4:13:ARG:O	26:D4:24:THR:HG21	2.14	0.48
33:BF:71:ALA:CA	33:BF:106:VAL:HB	2.43	0.48
21:DV:8:TYR:HD1	21:DV:38:TYR:CZ	2.31	0.48
19:AT:14:SER:O	19:AT:17:ALA:HB3	2.13	0.48
37:CJ:41:ARG:HH11	37:CJ:41:ARG:HG2	1.78	0.48
1:AA:2867:G:O2'	1:AA:2868:A:C8	2.57	0.48
1:AA:2867:G:C2'	1:AA:2868:A:OP2	2.61	0.48
1:AA:2867:G:O2'	1:AA:2868:A:P	2.71	0.48
55:DA:2212:A:H1'	55:DA:2215:G:C4	2.48	0.48
1:AA:2317:C:C2'	1:AA:2318:G:H5'	2.43	0.48
55:DA:1203:G:C5'	11:DO:3:LEU:HD12	2.43	0.48
32:CE:117:GLU:O	32:CE:121:LEU:HB2	2.13	0.48
54:CA:559:A:OP1	35:CH:126:ARG:NH2	2.45	0.48
34:CG:108:LEU:HD23	34:CG:110:PHE:CE1	2.47	0.48
55:DA:2600:A:H2'	55:DA:2601:C:C6	2.48	0.48
38:BK:20:TYR:CE2	38:BK:75:ARG:HD2	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:83:ILE:HA	38:CK:136:GLU:O	2.13	0.48
55:DA:2771:C:H2'	55:DA:2772:C:H6	1.78	0.48
31:BA:1059:C:O2'	40:BM:53:PRO:HD3	2.14	0.48
31:BA:746:A:O2'	31:BA:747:C:H5'	2.14	0.48
31:BA:865:A:H5'	31:BA:1078:U:O4	2.14	0.48
1:AA:235:U:H2'	1:AA:236:C:H6	1.77	0.48
52:CD:37:MIA:H111	52:CD:38:A:H1'	1.96	0.48
55:DA:236:C:H2'	55:DA:237:C:H6	1.79	0.48
54:CA:831:U:H2'	54:CA:832:C:H6	1.79	0.48
54:CA:895:G:H2'	54:CA:896:C:C6	2.49	0.48
1:AA:2682:U:H6	1:AA:2682:U:H5'	1.77	0.48
1:AA:2681:C:O2'	1:AA:2682:U:OP2	2.28	0.48
1:AA:1292:U:H2'	1:AA:1293:C:C6	2.48	0.48
1:AA:2309:A:H2'	1:AA:2310:A:O4'	2.13	0.48
18:AS:29:LEU:HD21	18:AS:33:ARG:NH2	2.28	0.48
54:CA:1486:G:H2'	54:CA:1487:G:O4'	2.13	0.48
54:CA:392:G:H2'	54:CA:393:A:H8	1.78	0.48
1:AA:1612:C:H4'	29:A7:5:TRP:O	2.14	0.48
37:BJ:75:VAL:O	37:BJ:75:VAL:HG23	2.14	0.48
26:A4:43:TYR:O	26:A4:43:TYR:CG	2.66	0.48
38:CK:84:ARG:NH1	38:CK:86:ILE:HD13	2.28	0.48
1:AA:723:G:H2'	1:AA:724:U:C6	2.48	0.48
1:AA:2821:A:OP2	13:A0:3:HIS:CE1	2.67	0.48
4:AE:25:VAL:CG1	4:AE:181:LEU:HD12	2.43	0.48
56:DI:7:ARG:NE	56:DI:8:ILE:HD13	2.28	0.48
58:DL:106:GLU:HG2	58:DL:109:LYS:HD2	1.95	0.48
55:DA:1064:C:H5'	58:DL:88:ALA:O	2.12	0.48
57:DY:30:GLN:CD	57:DY:79:ALA:O	2.47	0.48
57:DY:88:ALA:O	56:DJ:15:ALA:CB	2.59	0.48
31:BA:1223:C:OP1	31:BA:1224:G:H3'	2.14	0.48
31:BA:978:A:C2	31:BA:1319:A:H1'	2.48	0.48
31:BA:1363:A:N3	31:BA:1363:A:H2'	2.28	0.48
26:A4:63:TYR:CZ	49:BV:39:THR:HB	2.48	0.48
1:AA:2285:C:C5	28:A6:27:LYS:HE3	2.49	0.48
11:AO:64:LYS:HZ1	30:A8:30:ARG:HA	1.77	0.48
1:AA:971:C:C2'	1:AA:972:G:H5'	2.43	0.48
3:AD:43:ARG:NH1	3:AD:44:ASN:HD22	1.95	0.48
46:CS:14:ASN:N	46:CS:15:PRO:CD	2.75	0.48
3:DD:35:LYS:CE	3:DD:104:TYR:HD1	2.24	0.48
6:AG:15:VAL:HG13	6:AG:175:LEU:HB2	1.95	0.48
6:AG:38:VAL:HG13	6:AG:92:VAL:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:94:LEU:N	6:AG:94:LEU:HD23	2.27	0.48
49:BV:8:GLY:O	49:BV:9:VAL:O	2.31	0.48
54:CA:788:U:C2'	54:CA:789:U:H5'	2.43	0.48
49:CV:45:VAL:HA	49:CV:62:ILE:CG2	2.43	0.48
55:DA:2517:C:C2	55:DA:2542:A:N6	2.81	0.48
54:CA:1028(B):C:N4	54:CA:1029:G:H1'	2.28	0.48
20:DU:50:ARG:CB	20:DU:53:PRO:HD2	2.44	0.48
20:DU:56:PRO:O	20:DU:57:GLN:NE2	2.47	0.48
8:DK:114:LEU:O	8:DK:115:ALA:CB	2.61	0.48
55:DA:2702:U:O2'	55:DA:2703:C:P	2.71	0.48
34:BG:29:PRO:CD	34:BG:30:LYS:HD3	2.44	0.48
54:CA:1280:A:O2'	54:CA:1281:U:OP1	2.27	0.48
32:CE:167:PRO:HG2	32:CE:168:THR:H	1.78	0.48
32:CE:216:SER:C	32:CE:218:ALA:N	2.67	0.48
11:DO:144:GLU:N	11:DO:145:PRO:CD	2.74	0.48
52:BD:8:U:C2'	52:BD:13:C:H41	2.18	0.48
13:D0:94:TYR:O	13:D0:117:VAL:HG12	2.14	0.48
43:CP:3:ARG:NH2	43:CP:7:VAL:HG13	2.28	0.48
6:DG:139:LEU:HA	6:DG:144:ILE:HG21	1.96	0.48
8:DK:76:THR:CG2	8:DK:77:LEU:H	2.25	0.48
31:BA:397:A:H5'	31:BA:398:C:OP1	2.14	0.48
20:AU:83:THR:HG22	20:AU:85:VAL:HG22	1.95	0.48
1:AA:1667:G:OP2	1:AA:1667:G:H8	1.96	0.48
32:BE:17:PHE:CE2	32:BE:44:LEU:HB3	2.48	0.48
52:CC:18:G:H4'	52:CC:18:G:OP2	2.13	0.48
14:DQ:20:ARG:HE	14:DQ:21:THR:HA	1.78	0.48
13:A0:80:PHE:O	13:A0:85:PRO:HD3	2.13	0.48
1:AA:433:C:H2'	1:AA:434:U:C6	2.48	0.48
1:AA:2146:C:C5'	1:AA:2147:G:OP1	2.59	0.48
55:DA:468:G:H4'	5:DF:62:ARG:NH1	2.28	0.48
24:AW:47:ASN:O	24:AW:48:HIS:C	2.52	0.48
52:CD:71:G:H2'	52:CD:72:C:C6	2.48	0.48
11:AO:108:LYS:C	11:AO:110:TYR:H	2.17	0.48
11:AO:83:VAL:HG12	11:AO:112:LEU:CD2	2.41	0.48
17:D2:22:VAL:CG1	17:D2:23:GLU:N	2.76	0.48
31:BA:1054:C:C2'	31:BA:1055:A:H5''	2.44	0.48
31:BA:1206:G:C6	31:BA:1207:G:C5	3.01	0.48
53:C1:38:U:H2'	53:C1:39:U:H5'	1.95	0.48
54:CA:1221:G:OP1	54:CA:1321:C:N3	2.46	0.48
55:DA:2296:U:C4'	55:DA:2297:C:OP1	2.56	0.48
1:AA:1204:A:C2'	1:AA:1205:U:OP2	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BK:11:THR:HA	38:BK:14:ARG:NH1	2.29	0.48
2:DB:15:A:H1'	2:DB:109:G:N9	2.28	0.48
3:AD:69:ARG:NH2	3:AD:192:THR:HB	2.28	0.48
1:AA:363(A):A:C3'	1:AA:363(B):G:H5''	2.43	0.48
1:AA:1946:U:H2'	1:AA:1947:C:C6	2.49	0.48
13:A0:9:LYS:O	13:A0:11:ASN:N	2.46	0.48
31:BA:631:G:O3'	31:BA:632:A:C8	2.56	0.48
54:CA:485:G:HO2'	54:CA:486:U:P	2.37	0.48
55:DA:140:A:H8	55:DA:1408:C:O2'	1.96	0.48
54:CA:1298:C:O2'	54:CA:1299:A:C2	2.62	0.48
43:BP:90:LEU:HD13	49:BV:78:ARG:NH2	2.22	0.48
54:CA:502:G:OP1	42:CO:118:SER:CB	2.61	0.48
11:AO:48:PRO:CG	11:AO:49:ARG:H	2.24	0.48
2:AB:10:C:O2'	2:AB:11:C:H5'	2.14	0.48
39:CL:81:ILE:O	39:CL:85:LEU:HG	2.14	0.48
1:AA:2378:A:O2'	14:AQ:23:ARG:HD3	2.12	0.48
55:DA:247:G:H4'	55:DA:386:G:C5	2.48	0.48
31:BA:48:C:C5	31:BA:364:A:H2	2.32	0.48
1:AA:2190:G:H5'	1:AA:2190:G:H8	1.78	0.48
8:AK:72:LEU:C	8:AK:74:ASN:H	2.17	0.48
39:BL:113:LYS:H	39:BL:113:LYS:CD	2.25	0.48
1:AA:2390:U:H6	1:AA:2390:U:O5'	1.96	0.48
37:CJ:85:TYR:HD1	37:CJ:154:TYR:CD1	2.31	0.48
32:CE:102:LEU:HB3	32:CE:180:LEU:HD12	1.94	0.48
31:BA:668:G:O2'	31:BA:669:U:H5'	2.14	0.48
54:CA:1314:C:H2'	54:CA:1315:U:C6	2.48	0.48
31:BA:179:A:H2'	31:BA:180:U:H6	1.77	0.48
13:A0:44:LEU:O	13:A0:44:LEU:HD13	2.13	0.48
8:DK:69:LYS:HG3	8:DK:136:VAL:CG2	2.43	0.48
1:AA:1011:G:H4'	1:AA:1011:G:OP1	2.13	0.48
31:BA:389:A:H3'	31:BA:390:C:C6	2.47	0.48
47:CT:22:LEU:HD13	47:CT:41:LYS:HG2	1.95	0.48
37:BJ:148:ASN:HD22	37:BJ:148:ASN:N	2.11	0.48
31:BA:191(F):U:C2'	31:BA:191:G:H5'	2.43	0.48
31:BA:758:G:H5''	31:BA:880:C:H1'	1.96	0.48
18:DS:12:ILE:CD1	18:DS:17:VAL:HG22	2.44	0.48
58:DL:28:GLY:C	58:DL:30:HIS:N	2.66	0.48
1:AA:940:G:H2'	1:AA:941:A:O4'	2.14	0.48
15:AR:58:ASN:ND2	15:AR:58:ASN:H	2.11	0.48
54:CA:945:G:H2'	54:CA:945:G:N3	2.28	0.48
1:AA:733:G:O6	1:AA:761:A:C8	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:66:A:O2'	2:AB:67:G:P	2.71	0.48
6:DG:20:ILE:O	6:DG:24:GLY:HA2	2.13	0.48
55:DA:1421:G:C2	55:DA:1422:G:C8	3.02	0.48
37:CJ:77:SER:HB2	37:CJ:84:ASN:OD1	2.14	0.48
54:CA:1355:G:H2'	54:CA:1356:G:C8	2.47	0.48
33:CF:123:GLN:O	33:CF:128:PHE:HB2	2.13	0.48
52:CC:2:C:H2'	52:CC:3:C:H6	1.77	0.48
7:DH:96:ALA:HB2	7:DH:105:LEU:HB3	1.95	0.48
1:AA:1196:C:O4'	1:AA:1227:A:C2	2.67	0.48
49:CV:36:ARG:HB3	49:CV:51:VAL:CG1	2.43	0.48
55:DA:1120:G:H2'	55:DA:1121:C:C6	2.49	0.48
55:DA:57:C:H2'	55:DA:58:G:O5'	2.14	0.48
57:DY:71:LEU:N	57:DY:113:GLN:HB3	2.29	0.48
57:DY:127:GLU:CA	57:DY:127:GLU:OE2	2.61	0.48
43:CP:126:LYS:OXT	52:CC:27:G:C5	2.63	0.48
31:BA:1338:G:C6	31:BA:1339:A:C6	3.02	0.48
52:BD:75:C:HO2'	52:BD:76:A:H2	1.61	0.48
2:AB:87:G:N2	2:AB:89(A):A:OP1	2.47	0.48
12:AP:42:ILE:CG2	12:AP:47:ILE:HG13	2.43	0.48
21:DV:105:VAL:C	21:DV:140:ASP:HA	2.32	0.48
32:CE:7:VAL:CG2	32:CE:8:LYS:N	2.77	0.48
6:AG:97:ASP:O	6:AG:100:TRP:N	2.47	0.48
6:AG:41:GLN:O	6:AG:43:LEU:HD13	2.14	0.48
1:AA:1378:A:O2'	1:AA:1379:A:P	2.72	0.48
40:BM:22:LYS:O	40:BM:26:ALA:N	2.47	0.48
30:A8:54:GLU:O	30:A8:57:ARG:HB2	2.13	0.48
34:BG:29:PRO:HD2	34:BG:30:LYS:HE2	1.95	0.48
17:A2:81:TYR:N	17:A2:81:TYR:CD1	2.79	0.48
4:AE:76:ARG:CG	4:AE:195:LEU:HD22	2.43	0.48
9:DM:42:TRP:N	16:D1:64:ARG:NH2	2.62	0.48
55:DA:120:U:O2	55:DA:120:U:O4'	2.29	0.48
1:AA:2748:A:N7	1:AA:2757:A:N6	2.62	0.48
54:CA:1128:C:H2'	54:CA:1139:G:O6	2.13	0.48
32:CE:200:ILE:H	32:CE:200:ILE:CD1	2.18	0.48
32:CE:204:ASN:HD21	32:CE:206:ASP:H	1.51	0.48
45:CR:79:ARG:O	45:CR:82:ILE:HG22	2.12	0.48
11:DO:127:ALA:N	11:DO:147:LEU:HD23	2.29	0.48
12:DP:90:VAL:HG13	12:DP:91:GLU:H	1.77	0.48
31:BA:1348:U:H4'	39:BL:120:ARG:HD2	1.96	0.48
21:AV:94:GLU:C	21:AV:95:PRO:O	2.50	0.48
7:AH:94:TYR:N	7:AH:94:TYR:HD1	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:936:C:O2'	52:BD:34:G:H5'	2.13	0.48
5:AF:107:LYS:O	5:AF:206:ILE:HG21	2.14	0.48
14:DQ:26:LEU:HD22	14:DQ:87:PHE:HD1	1.78	0.48
46:CS:19:ILE:H	46:CS:38:TYR:HA	1.79	0.48
5:AF:165:ARG:CB	5:AF:165:ARG:HH11	2.26	0.48
6:DG:67:LYS:HG2	26:D4:5:ILE:HG21	1.92	0.48
24:AW:15:LYS:HA	24:AW:67:LYS:NZ	2.25	0.48
8:DK:37:VAL:CG1	8:DK:38:LEU:HD12	2.43	0.48
55:DA:1698:A:H4'	55:DA:1699:G:H3'	1.95	0.48
55:DA:1557:C:OP2	55:DA:1558:A:H2'	2.13	0.48
23:AZ:82:LEU:HD23	23:AZ:82:LEU:N	2.22	0.48
35:BH:48:ALA:HB1	35:BH:49:PRO:CD	2.35	0.48
9:AM:56:ASN:HB3	9:AM:125:GLY:C	2.34	0.48
34:CG:68:TYR:OH	34:CG:196:LEU:HD21	2.14	0.48
1:AA:2031:A:C6	1:AA:2498:C:H1'	2.49	0.48
54:CA:982:U:H5''	44:CQ:6:LEU:HD13	1.94	0.48
1:AA:1069:A:C4'	1:AA:1070:A:H5''	2.35	0.48
55:DA:1188:U:H4'	17:D2:79:VAL:CG2	2.43	0.48
7:AH:125:VAL:CG2	7:AH:126:PRO:HA	2.43	0.48
7:AH:140:LYS:O	7:AH:144:VAL:HG23	2.13	0.48
31:BA:714:G:H2'	31:BA:715:A:C8	2.49	0.48
12:AP:21:THR:CG2	12:AP:21:THR:O	2.59	0.48
52:BC:53:G:H2'	52:BC:54:U:C6	2.47	0.48
36:CI:69:GLU:HG2	36:CI:70:ASP:N	2.28	0.48
2:DB:91:C:OP1	21:DV:79:ARG:NH2	2.46	0.48
1:AA:523:C:O2'	1:AA:524:U:H5'	2.13	0.48
1:AA:2130:U:H6	1:AA:2130:U:H3'	1.79	0.48
1:AA:2158:A:O5'	1:AA:2158:A:H8	1.96	0.48
14:AQ:7:TYR:CZ	14:AQ:91:PRO:HG3	2.49	0.48
9:AM:112:LEU:HA	9:AM:115:ARG:CB	2.42	0.48
43:BP:90:LEU:CD1	49:BV:78:ARG:NH2	2.77	0.48
10:AN:19:ILE:HG22	10:AN:43:VAL:HA	1.95	0.48
49:CV:7:LYS:HB3	49:CV:7:LYS:NZ	2.22	0.48
1:AA:832:G:H5'	11:AO:38:GLN:OE1	2.13	0.48
31:BA:1101:A:C4'	31:BA:1102:A:O5'	2.59	0.48
37:CJ:41:ARG:NH1	37:CJ:41:ARG:HG2	2.29	0.48
46:BS:14:ASN:N	46:BS:15:PRO:CD	2.75	0.48
22:D3:25:ARG:HD3	22:D3:29:GLN:NE2	2.29	0.48
55:DA:345:A:H2'	55:DA:347:A:H62	1.77	0.48
55:DA:2836:U:C4	55:DA:2883:A:N6	2.81	0.48
23:AZ:64:ALA:HA	23:AZ:67:ILE:HG13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:355:C:H4'	31:BA:388:G:O2'	2.13	0.48
1:AA:1693:U:O2'	1:AA:1694:C:OP1	2.26	0.48
1:AA:1386:C:OP2	1:AA:1396:U:C5	2.66	0.48
35:CH:152:ARG:HD3	38:CK:44:PHE:CE1	2.49	0.48
32:CE:29:ALA:HA	32:CE:32:ILE:CG2	2.43	0.48
55:DA:968:G:H2'	55:DA:969:U:H6	1.79	0.48
31:BA:91:C:C2'	31:BA:92:G:H5''	2.44	0.48
33:CF:189:ALA:HB3	33:CF:196:LEU:CB	2.44	0.48
1:AA:1387:C:C4	1:AA:1388:G:N7	2.82	0.48
9:AM:76:SER:O	9:AM:78:TYR:N	2.46	0.48
29:D7:25:PRO:HA	29:D7:28:ARG:NH1	2.29	0.48
55:DA:1354:A:P	3:DD:38:LYS:HE2	2.53	0.48
55:DA:270(U):C:C2	55:DA:270(V):G:C8	3.01	0.48
1:AA:2206:C:H2'	1:AA:2207:C:C6	2.49	0.48
41:CN:67:ASP:OD2	41:CN:71:LYS:HE3	2.13	0.48
1:AA:1473:G:H2'	1:AA:1474:C:O4'	2.14	0.48
55:DA:1893:C:C5	55:DA:1894:C:C5	3.01	0.48
54:CA:729:A:H2	54:CA:764:C:O2	1.96	0.48
1:AA:248:G:C2	1:AA:2431:U:H4'	2.49	0.48
11:DO:146:VAL:HG13	11:DO:146:VAL:O	2.13	0.48
34:CG:122:ARG:O	34:CG:122:ARG:HD3	2.14	0.48
55:DA:1581:G:H2'	55:DA:1582:C:O4'	2.14	0.48
55:DA:1080:A:C2'	58:DL:126:MET:HE2	2.43	0.48
56:DI:20:LEU:C	56:DI:24:ILE:HG23	2.28	0.48
58:DL:34:ILE:HD11	58:DL:38:VAL:HG22	1.95	0.48
55:DA:1064:C:O3'	58:DL:89:HIS:HB3	2.13	0.48
57:DY:16:ASN:O	57:DY:16:ASN:OD1	2.30	0.48
57:DY:30:GLN:C	57:DY:31:GLY:O	2.51	0.48
57:DY:52:PHE:C	57:DY:53:VAL:CG2	2.80	0.48
57:DY:80:VAL:CG1	57:DY:81:VAL:N	2.54	0.48
12:AP:58:PHE:HD1	12:AP:61:GLY:HA2	1.78	0.48
12:AP:60:ARG:HD3	21:AV:185:GLU:HG3	1.96	0.48
21:DV:191:VAL:CB	21:DV:197:ILE:CG1	2.91	0.48
31:BA:1218:C:H2'	31:BA:1219:U:H6	1.75	0.48
31:BA:1305:G:N2	31:BA:1331:G:C2'	2.75	0.48
49:BV:20:LEU:CD2	49:BV:43:GLU:HG2	2.43	0.48
43:BP:81:LEU:O	43:BP:83:ASP:N	2.46	0.48
43:BP:86:CYS:O	43:BP:86:CYS:SG	2.72	0.48
49:CV:5:LEU:O	49:CV:6:LYS:O	2.30	0.48
1:AA:1359:A:H2'	1:AA:1360:A:O5'	2.14	0.48
43:BP:15:VAL:HG22	43:BP:41:PRO:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A8:62:LEU:HB2	30:A8:63:PRO:CD	2.43	0.48
54:CA:1004:A:C4	54:CA:1025:U:C2	3.02	0.48
20:DU:19:LYS:O	20:DU:19:LYS:HD2	2.13	0.48
20:DU:42:VAL:HB	20:DU:67:LEU:CD1	2.41	0.48
54:CA:948:C:H2'	54:CA:949:A:H8	1.79	0.48
46:CS:71:ARG:HB2	46:CS:71:ARG:NH1	2.28	0.48
16:A1:95:LEU:CD1	17:A2:11:GLN:HB3	2.43	0.48
1:AA:1932:A:H61	1:AA:1968:G:H1'	1.79	0.48
17:A2:88:ARG:O	17:A2:90:PRO:HD3	2.14	0.48
1:AA:994:C:OP2	16:A1:54:LYS:NZ	2.44	0.48
1:AA:2785:C:H2'	1:AA:2786:U:H6	1.77	0.48
1:AA:2748:A:C2'	1:AA:2749:A:H5'	2.42	0.48
54:CA:1126:U:C1'	54:CA:1280:A:N7	2.76	0.48
32:CE:5:ILE:N	32:CE:5:ILE:HD13	2.29	0.48
55:DA:747:U:C2	27:D5:2:ALA:N	2.82	0.48
55:DA:2168:G:OP1	55:DA:2168:G:H8	1.97	0.48
54:CA:1178:G:C5'	39:CL:93:ARG:HH21	2.08	0.48
54:CA:267:C:OP2	47:CT:67:LYS:HD2	2.14	0.48
8:AK:109:ILE:N	8:AK:109:ILE:HD13	2.09	0.48
21:AV:94:GLU:H	21:AV:130:PRO:HD2	1.77	0.48
21:AV:28:MET:CG	21:AV:37:VAL:HG11	2.41	0.48
1:AA:309:G:H4'	20:AU:19:LYS:H	1.78	0.48
20:AU:39:VAL:C	20:AU:40:GLU:OE2	2.51	0.48
1:AA:479:A:H4'	1:AA:480:A:C5'	2.44	0.48
27:D5:44:THR:O	27:D5:46:CYS:N	2.47	0.48
5:AF:124:LEU:HG	5:AF:126:VAL:HG12	1.94	0.48
5:AF:8:GLN:C	5:AF:8:GLN:CD	2.72	0.48
55:DA:623:G:H2'	55:DA:624:C:C6	2.49	0.48
3:AD:25:THR:HG22	3:AD:82:ILE:O	2.13	0.48
19:AT:83:VAL:CG2	19:AT:87:GLN:HE21	2.26	0.48
1:AA:792:G:H5''	1:AA:793:A:O5'	2.13	0.48
19:AT:11:PRO:HG3	24:AW:37:PHE:CD2	2.49	0.48
4:AE:199:ARG:CB	4:AE:199:ARG:HH11	2.27	0.48
23:AZ:83:GLU:O	23:AZ:85:LEU:N	2.47	0.48
9:AM:15:LEU:HD22	9:AM:53:VAL:O	2.14	0.48
40:BM:54:PHE:CG	40:BM:55:LYS:HG3	2.49	0.48
8:AK:120:ILE:O	8:AK:121:LYS:HB2	2.14	0.48
43:CP:90:LEU:HD12	43:CP:91:ARG:N	2.28	0.48
50:BW:49:ALA:O	50:BW:53:LEU:HG	2.14	0.48
21:DV:30:ASN:HD21	21:DV:32:HIS:CD2	2.32	0.48
55:DA:1884:A:C3'	55:DA:1885:A:H5''	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:990:A:H5'	55:DA:1157:G:OP1	2.14	0.48
31:BA:197:A:H61	31:BA:221:C:H5'	1.78	0.48
48:CU:56:THR:O	48:CU:58:LEU:HD12	2.14	0.48
31:BA:687:A:HO2'	31:BA:688:G:P	2.37	0.48
55:DA:1784:A:H4'	55:DA:1785:A:H5''	1.94	0.48
1:AA:270(Q):C:H5'	8:AK:45:LYS:NZ	2.28	0.48
11:DO:45:LEU:HD12	11:DO:45:LEU:HA	1.50	0.48
22:A3:48:GLY:HA3	22:A3:80:HIS:ND1	2.28	0.48
33:CF:117:ALA:O	33:CF:118:GLN:C	2.52	0.48
1:AA:1288:U:C4'	1:AA:1289:C:OP2	2.62	0.48
52:BC:42:C:C3'	52:BC:43:C:C5'	2.90	0.48
54:CA:555:C:H2'	54:CA:556:C:C6	2.49	0.48
39:CL:80:GLY:O	39:CL:82:ALA:N	2.46	0.48
31:BA:1009:G:O2'	31:BA:1010:G:H5'	2.14	0.48
48:BU:61:LYS:O	48:BU:65:ILE:HG13	2.13	0.48
46:BS:15:PRO:O	46:BS:41:PRO:HD2	2.14	0.48
41:BN:91:ARG:O	41:BN:94:ALA:HB3	2.13	0.48
1:AA:670:A:C4'	1:AA:671:C:OP1	2.60	0.48
1:AA:2763:G:H5'	1:AA:2764:A:P	2.53	0.48
54:CA:913:A:HO2'	54:CA:914:A:P	2.35	0.48
1:AA:270(K):C:O2'	1:AA:270(L):U:H5	1.96	0.48
42:CO:37:CYS:SG	42:CO:83:VAL:HG11	2.53	0.48
55:DA:163:U:OP2	55:DA:164:U:H5	1.96	0.48
55:DA:2009:G:N3	13:D0:107:ASP:HA	2.28	0.48
36:BI:45:LEU:N	36:BI:59:TYR:CD1	2.82	0.48
1:AA:2009:G:C2'	1:AA:2010:G:H5'	2.44	0.48
1:AA:2291:U:H2'	1:AA:2292:C:H6	1.79	0.48
29:A7:48:LYS:CD	29:A7:49:ARG:H	2.26	0.48
55:DA:865:C:H4'	55:DA:866:A:OP1	2.13	0.48
55:DA:1449:A:N3	55:DA:1530:G:H1'	2.29	0.48
55:DA:1547:C:O2'	55:DA:1548:C:H5'	2.13	0.48
45:CR:64:ARG:CZ	45:CR:64:ARG:HB2	2.44	0.48
54:CA:402:G:OP1	34:CG:74:GLN:HG2	2.14	0.48
40:BM:56:HIS:O	40:BM:58:ASP:N	2.45	0.48
14:DQ:48:LEU:CD2	14:DQ:82:ILE:HD11	2.44	0.48
55:DA:270(U):C:H2'	55:DA:270(V):G:H8	1.79	0.48
1:AA:2057:A:H2'	1:AA:2058:A:O4'	2.14	0.48
55:DA:57:C:C2'	55:DA:58:G:O5'	2.62	0.48
31:BA:1378:C:N3	31:BA:1379:G:H1'	2.29	0.48
20:AU:54:LYS:C	20:AU:55:TYR:CG	2.86	0.48
5:AF:50:SER:HB2	5:AF:94:PRO:HD3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:195:ASP:OD1	5:AF:197:ASP:CB	2.61	0.48
1:AA:2819:G:C2'	1:AA:2820:A:OP2	2.61	0.48
55:DA:1101:U:H2'	55:DA:1102:C:H6	1.79	0.48
56:DJ:14:GLN:CA	56:DJ:15:ALA:O	2.61	0.48
58:DL:13:PRO:O	58:DL:50:ASP:HA	2.14	0.48
12:AP:58:PHE:HD1	12:AP:58:PHE:O	1.96	0.48
21:DV:187:ALA:HB1	21:DV:193:GLU:HG2	1.90	0.48
12:AP:84:GLY:CA	22:A3:10:THR:HG21	2.44	0.48
1:AA:947:G:H2'	1:AA:948:G:C8	2.48	0.48
12:AP:43:THR:OG1	12:AP:45:GLN:HG2	2.13	0.48
21:DV:184:ALA:O	21:DV:185:GLU:CB	2.51	0.48
6:AG:2:PRO:O	6:AG:4:ASP:N	2.47	0.48
13:D0:33:ARG:HH12	27:D5:57:VAL:HG23	1.78	0.48
49:CV:41:VAL:CB	49:CV:42:PRO:CA	2.74	0.48
40:BM:31:GLY:O	40:BM:32:ALA:HB2	2.14	0.48
20:DU:44:ILE:HD12	20:DU:45:VAL:HG23	1.95	0.48
28:D6:15:GLU:CG	28:D6:16:CYS:N	2.60	0.48
1:AA:980:A:N7	1:AA:1136:G:H5''	2.29	0.48
4:DE:13:ARG:HA	4:DE:21:VAL:HA	1.95	0.48
4:DE:21:VAL:CB	4:DE:22:PRO:HB3	2.16	0.48
30:D8:17:THR:HG23	30:D8:21:LYS:C	2.34	0.48
34:BG:4:TYR:CE2	34:BG:11:LEU:HD11	2.49	0.48
34:BG:9:CYS:C	34:BG:11:LEU:N	2.65	0.48
55:DA:557:U:O2	9:DM:45:ASN:HB2	2.13	0.48
31:BA:1145:C:O2	31:BA:1145:C:C2'	2.62	0.48
39:BL:4:TYR:HB2	39:BL:19:LEU:CB	2.40	0.48
7:DH:153:LYS:HE2	7:DH:153:LYS:CA	2.43	0.48
1:AA:2519:U:C4'	1:AA:2520:C:OP1	2.43	0.48
31:BA:1024:G:O4'	31:BA:1024:G:OP1	2.32	0.48
45:CR:79:ARG:C	45:CR:82:ILE:HG22	2.34	0.48
52:BD:18:G:N2	52:BD:57:G:O6	2.47	0.48
52:CD:58:A:C6	52:CD:61:C:C6	3.02	0.48
16:D1:92:ARG:HD3	16:D1:92:ARG:O	2.13	0.48
1:AA:85:G:N3	1:AA:103:A:H2	2.10	0.48
1:AA:1669:A:N3	1:AA:1669:A:H2'	2.27	0.48
1:AA:2572:A:OP1	4:AE:144:ARG:HB2	2.13	0.48
4:AE:144:ARG:HB3	4:AE:145:LYS:H	1.51	0.48
32:BE:9:GLU:C	32:BE:11:LEU:N	2.65	0.48
32:BE:5:ILE:CD1	32:BE:55:PHE:HB3	2.43	0.48
52:CC:46:G:H5''	52:CC:47:U:OP2	2.14	0.48
11:DO:108:LYS:O	11:DO:110:TYR:N	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:DQ:5:THR:HG1	14:DQ:7:TYR:HB3	1.76	0.48
1:AA:2145:C:H5''	1:AA:2146:C:OP2	2.14	0.48
25:AX:57:GLU:OE2	25:AX:59:VAL:HG22	2.14	0.48
52:CD:70:G:H2'	52:CD:71:G:H8	1.79	0.48
31:BA:1161:C:H2'	31:BA:1162:C:C6	2.48	0.48
1:AA:1098:A:C2'	1:AA:1099:G:H5''	2.43	0.48
23:AZ:83:GLU:HG2	23:AZ:84:GLY:N	2.28	0.48
55:DA:2645:G:H3'	55:DA:2646:C:H5'	1.94	0.48
35:BH:101:ILE:HD11	35:BH:119:LEU:HD23	1.96	0.48
54:CA:1322:C:O4'	54:CA:1322:C:OP1	2.32	0.48
17:A2:61:VAL:O	17:A2:93:GLU:O	2.32	0.48
52:BC:53:G:H2'	52:BC:54:U:H6	1.79	0.48
36:CI:2:ARG:HB2	36:CI:4:TYR:CE2	2.49	0.48
54:CA:412:A:HO2'	54:CA:413:G:P	2.36	0.48
36:CI:24:GLU:HA	36:CI:27:GLN:CG	2.43	0.48
35:CH:9:LYS:CB	35:CH:112:LEU:HD11	2.43	0.48
16:D1:52:ARG:CG	16:D1:52:ARG:HH11	2.26	0.48
1:AA:1937:A:O2'	1:AA:1938:A:OP1	2.30	0.48
4:AE:117:MET:HE1	4:AE:124:GLY:HA3	1.96	0.48
1:AA:1558:A:O2'	1:AA:1559:G:P	2.72	0.48
6:DG:5:VAL:HG22	26:D4:25:TYR:CE2	2.48	0.48
1:AA:2318:G:N2	14:AQ:2:ALA:N	2.57	0.48
37:CJ:90:GLU:H	37:CJ:90:GLU:CD	2.16	0.48
3:AD:268:ARG:C	3:AD:269:PHE:HD1	2.17	0.48
7:AH:44:VAL:HG22	7:AH:46:GLU:HG3	1.96	0.48
50:BW:10:LEU:O	50:BW:12:ALA:N	2.47	0.48
32:BE:137:ARG:C	32:BE:139:LYS:H	2.17	0.48
4:AE:101:ARG:NH1	4:AE:171:GLU:HB3	2.28	0.48
36:CI:75:LEU:HD23	36:CI:79:LEU:HG	1.95	0.48
21:AV:111:VAL:O	21:AV:112:ARG:C	2.51	0.48
54:CA:1172:C:H2'	54:CA:1173:G:H8	1.79	0.48
25:AX:23:LEU:HD11	25:AX:53:LEU:HD13	1.95	0.48
1:AA:2369:A:H2'	1:AA:2370:G:C8	2.49	0.48
1:AA:1639:U:O2'	1:AA:1640:C:H5''	2.14	0.48
38:BK:64:LYS:HG2	38:BK:79:VAL:HG21	1.94	0.48
54:CA:622:A:C8	54:CA:623:C:C6	3.02	0.48
31:BA:650:G:O2'	31:BA:651:C:H5'	2.12	0.48
1:AA:2633:G:H5'	1:AA:2811:G:O2'	2.13	0.48
1:AA:510:C:H3'	1:AA:510:C:OP1	2.13	0.48
31:BA:1428:A:H2'	31:BA:1429:C:C6	2.49	0.48
55:DA:1077:A:C2'	55:DA:1078:U:C5'	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:95:LYS:CB	58:DL:136:VAL:HG11	2.44	0.48
55:DA:1107:G:OP1	57:DY:56:ASN:OD1	2.32	0.48
1:AA:896:A:C2	21:AV:178:GLU:OE2	2.57	0.48
26:A4:63:TYR:HE1	49:BV:39:THR:HG21	1.77	0.48
31:BA:1364:U:O2'	31:BA:1365:G:OP1	2.29	0.48
11:AO:66:GLY:O	11:AO:67:MET:HB3	2.14	0.48
1:AA:916:G:C2'	1:AA:917:A:H5''	2.43	0.48
55:DA:1899:G:O2'	55:DA:1900:A:C5'	2.62	0.48
54:CA:1023:G:H3'	54:CA:1024:G:H5''	1.96	0.48
16:A1:58:ARG:HA	16:A1:61:TRP:HE3	1.74	0.48
55:DA:634:C:H2'	55:DA:635:C:C6	2.47	0.48
1:AA:2554:U:N3	52:BB:74:C:H5	2.12	0.48
34:BG:24:GLU:N	34:BG:27:TYR:HB3	2.29	0.48
31:BA:1145:C:H5'	31:BA:1146:A:OP1	2.13	0.48
39:BL:3:GLN:HG2	39:BL:20:ARG:NH1	2.29	0.48
40:BM:24:VAL:O	40:BM:28:ARG:HB2	2.14	0.48
40:CM:98:ILE:HD12	40:CM:98:ILE:N	2.28	0.48
20:AU:42:VAL:CG1	20:AU:67:LEU:HD13	2.44	0.48
1:AA:1254:A:H5'	1:AA:1255:U:C5'	2.43	0.48
37:BJ:111:ARG:HH12	37:BJ:122:HIS:CB	2.27	0.48
20:AU:75:ILE:HD13	20:AU:76:CYS:N	2.29	0.48
46:CS:20:VAL:HG22	46:CS:21:VAL:H	1.79	0.48
55:DA:101:G:HO2'	55:DA:102:G:P	2.37	0.48
25:AX:6:VAL:HG13	25:AX:56:VAL:HG23	1.95	0.48
52:CD:40:C:H2'	52:CD:41:C:C6	2.48	0.48
55:DA:2732:G:H3'	55:DA:2733:A:C5'	2.40	0.48
11:AO:109:GLY:O	11:AO:110:TYR:O	2.31	0.48
52:BB:9:A:HO2'	52:BB:10:G:P	2.33	0.48
7:DH:92:ILE:CD1	7:DH:160:LYS:HD3	2.44	0.48
41:CN:30:VAL:HG21	41:CN:65:ALA:HA	1.95	0.48
32:CE:161:ALA:HA	32:CE:183:PRO:O	2.14	0.48
33:BF:39:ILE:O	33:BF:43:LEU:HB2	2.14	0.48
31:BA:923:A:O2'	31:BA:1399:C:OP2	2.31	0.48
4:DE:103:ASP:CG	4:DE:201:THR:HA	2.33	0.48
4:DE:1:MET:O	4:DE:2:LYS:C	2.52	0.48
10:AN:88:ASN:ND2	10:AN:90:GLN:H	2.12	0.48
1:AA:1272:A:C3'	1:AA:1273:U:C5'	2.92	0.48
15:DR:28:VAL:CG2	15:DR:86:ILE:HG13	2.44	0.48
34:CG:61:LYS:HE2	34:CG:65:ARG:CD	2.44	0.48
3:AD:131:LEU:CD1	3:AD:131:LEU:N	2.77	0.48
46:BS:18:ARG:HD3	46:BS:35:LYS:CD	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1253:G:N1	31:BA:1285:A:N6	2.62	0.48
31:BA:738:C:H2'	31:BA:739:C:H6	1.79	0.48
54:CA:113:G:H2'	54:CA:114:U:H6	1.78	0.48
31:BA:819:A:H4'	31:BA:820:U:OP2	2.14	0.48
49:BV:76:PRO:HB2	49:BV:78:ARG:HH11	1.75	0.48
23:DZ:76:ARG:N	23:DZ:76:ARG:HD2	2.29	0.48
10:DN:1:MET:CE	10:DN:67:LYS:HG2	2.43	0.48
1:AA:532:A:O2'	1:AA:533:G:P	2.69	0.48
54:CA:890:G:H2'	54:CA:906:G:O6	2.13	0.48
55:DA:26:G:C6	55:DA:27:G:N1	2.82	0.48
28:D6:52:VAL:O	28:D6:53:LYS:C	2.52	0.48
54:CA:1241:G:H2'	54:CA:1242:C:H6	1.77	0.48
34:BG:190:ASP:O	34:BG:191:ARG:C	2.52	0.48
55:DA:2210:G:H5'	55:DA:2211:G:OP2	2.14	0.48
46:CS:43:LYS:HA	46:CS:48:TRP:HB2	1.96	0.48
31:BA:44:G:C2	31:BA:45:U:H1'	2.48	0.48
1:AA:404:C:O2'	1:AA:405:U:P	2.72	0.48
55:DA:1950:G:O6	55:DA:1954:G:H2'	2.14	0.48
38:CK:1:MET:O	38:CK:2:LEU:HB2	2.14	0.48
5:AF:170:LEU:HD23	5:AF:172:TRP:NE1	2.28	0.48
55:DA:1151:G:H5''	16:D1:81:HIS:NE2	2.28	0.48
54:CA:812:C:HO2'	54:CA:813:U:H6	1.57	0.48
1:AA:2114:A:H1'	1:AA:2168:G:H1'	1.95	0.48
52:BB:21:A:N6	52:BB:46:G:C4	2.82	0.48
31:BA:115:G:C2	31:BA:289:G:N7	2.82	0.48
10:DN:36:GLY:HA2	10:DN:106:LEU:HD23	1.94	0.48
14:AQ:36:TYR:CD1	14:AQ:36:TYR:N	2.82	0.48
10:DN:59:LYS:O	10:DN:87:ILE:HG12	2.14	0.48
55:DA:184:C:H2'	55:DA:185:U:C6	2.49	0.48
52:BB:42:C:H2'	52:BB:43:C:C6	2.48	0.48
26:A4:67:TYR:C	26:A4:67:TYR:CD2	2.87	0.48
1:AA:365:C:O2'	1:AA:366:C:H5'	2.14	0.48
19:DT:88:LYS:NZ	19:DT:88:LYS:HB3	2.28	0.48
54:CA:1256:A:H2	54:CA:1277:C:C2'	2.26	0.48
34:CG:142:PRO:HA	34:CG:185:PHE:O	2.14	0.48
2:DB:37:C:C2'	2:DB:38:C:H5'	2.44	0.48
1:AA:649:G:H2'	1:AA:650:C:H6	1.79	0.48
15:AR:92:GLY:HA2	15:AR:117:ASP:H	1.78	0.48
54:CA:392:G:H5'	46:CS:12:LYS:HG3	1.94	0.48
31:BA:1428:A:H2'	31:BA:1429:C:O4'	2.14	0.48
1:AA:2052:G:O4'	4:AE:142:GLY:HA3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:726:C:O2'	31:BA:727:G:H5'	2.14	0.48
41:BN:48:ILE:HD11	41:BN:64:ALA:HA	1.95	0.48
55:DA:299:A:OP2	55:DA:299:A:H8	1.95	0.48
10:AN:26:LYS:HB2	10:AN:30:ALA:HB2	1.95	0.48
1:AA:1015:G:C6	1:AA:1148:A:C6	3.01	0.48
41:BN:103:LEU:HD22	41:BN:103:LEU:N	2.29	0.48
55:DA:141(A):C:O5'	55:DA:141(A):C:H6	1.97	0.48
40:CM:17:ASP:C	40:CM:17:ASP:OD2	2.52	0.48
55:DA:1057:A:N1	55:DA:1082:U:O2	2.47	0.48
58:DL:110:GLN:C	58:DL:111:LYS:CE	2.82	0.48
58:DL:67:PHE:O	58:DL:68:VAL:HG12	2.14	0.48
58:DL:53:VAL:HG12	58:DL:76:TYR:CD2	2.48	0.48
57:DY:73:GLY:CA	57:DY:112:LEU:CG	2.92	0.48
57:DY:121:ASP:O	57:DY:122:VAL:C	2.52	0.48
1:AA:2345:G:O2'	1:AA:2382:G:H5'	2.14	0.48
1:AA:2395:C:C2	52:BD:76:A:H1'	2.49	0.48
11:AO:64:LYS:HG3	30:A8:30:ARG:HH12	1.78	0.48
1:AA:2458:G:O6	1:AA:2490:G:O2'	2.29	0.48
3:DD:130:ALA:HA	3:DD:192:THR:HA	1.96	0.48
49:CV:44:MET:O	49:CV:47:HIS:N	2.44	0.48
55:DA:2567:G:H2'	55:DA:2568:C:C6	2.49	0.48
30:A8:61:LEU:CD1	30:A8:62:LEU:N	2.77	0.48
20:DU:45:VAL:HG12	20:DU:60:PHE:HB3	1.95	0.48
55:DA:2783:G:H2'	55:DA:2784:C:C6	2.49	0.48
21:DV:150:LEU:CD2	21:DV:154:ASP:OD1	2.62	0.48
55:DA:2345:G:O2'	55:DA:2381:C:C2'	2.61	0.48
17:A2:18:LEU:HD23	17:A2:19:LYS:N	2.29	0.48
20:DU:75:ILE:HD13	20:DU:76:CYS:N	2.28	0.48
31:BA:426:G:OP1	34:BG:38:TYR:OH	2.23	0.48
34:BG:18:LYS:HG2	34:BG:21:LEU:HD11	1.96	0.48
34:BG:34:GLU:O	34:BG:35:ARG:CB	2.61	0.48
34:BG:3:ARG:NH2	34:BG:3:ARG:CB	2.77	0.48
17:A2:85:LYS:HD3	17:A2:86:GLY:H	1.78	0.48
1:AA:1225:C:O2'	17:A2:84:LYS:HA	2.13	0.48
21:DV:127:LYS:O	21:DV:161:VAL:CG2	2.62	0.48
6:AG:75:LYS:HG3	6:AG:76:SER:N	2.29	0.48
4:AE:61:ARG:C	4:AE:63:LEU:N	2.66	0.48
45:CR:76:GLU:O	45:CR:78:TYR:N	2.47	0.48
6:DG:151:ALA:HB3	6:DG:153:ARG:HH12	1.79	0.48
55:DA:1021:A:H3'	55:DA:1021:A:H8	1.77	0.48
9:DM:63:THR:O	9:DM:66:LYS:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:D1:83:LEU:CD1	16:D1:113:ALA:HB2	2.44	0.48
16:D1:88:ILE:HB	16:D1:90:VAL:HG23	1.95	0.48
23:AZ:87:PRO:O	23:AZ:89:GLU:N	2.45	0.48
1:AA:1012:U:H3	9:AM:25:ARG:HD3	1.78	0.48
1:AA:483:A:H3'	1:AA:484:C:C6	2.48	0.48
20:AU:49:VAL:O	20:AU:50:ARG:C	2.52	0.48
32:BE:80:ILE:HD12	32:BE:212:GLN:HA	1.96	0.48
3:DD:253:GLN:HB2	3:DD:257:LEU:HG	1.95	0.48
6:DG:88:ILE:C	6:DG:88:ILE:CD1	2.83	0.48
46:CS:1:MET:HG2	46:CS:2:VAL:O	2.13	0.48
1:AA:139:G:O2'	1:AA:140:A:C2	2.66	0.48
50:CW:89:ARG:O	50:CW:93:GLU:HB3	2.14	0.48
15:DR:102:ILE:HB	15:DR:110:ILE:HD11	1.92	0.48
24:DW:69:ARG:HB2	24:DW:69:ARG:CZ	2.44	0.48
53:B1:35:A:H2'	53:B1:36:G:C8	2.48	0.48
1:AA:1100:C:H2'	1:AA:1101:U:C6	2.49	0.48
55:DA:859:G:O2'	55:DA:860:U:OP2	2.31	0.48
54:CA:96:G:H2'	54:CA:97:U:O4'	2.14	0.48
31:BA:4:U:O2'	31:BA:5:U:P	2.72	0.48
31:BA:5:U:H2'	31:BA:5:U:O2	2.13	0.48
5:DF:178:PRO:HB3	5:DF:198:ALA:CB	2.44	0.48
21:AV:124:ILE:HG23	21:AV:124:ILE:O	2.13	0.48
55:DA:447:A:N1	55:DA:454:A:H2'	2.29	0.48
31:BA:713:G:H21	31:BA:777:A:C1'	2.25	0.48
36:CI:43:LEU:HD11	48:CU:35:ARG:NH1	2.29	0.48
15:DR:16:ARG:HG2	15:DR:18:ASP:OD1	2.14	0.48
3:AD:132:PRO:O	3:AD:136:ILE:HD13	2.14	0.48
31:BA:553:A:H2'	31:BA:554:C:H6	1.78	0.48
54:CA:371:G:H21	54:CA:374:A:N6	2.12	0.48
55:DA:363(F):A:H1'	55:DA:364:C:C5	2.49	0.48
1:AA:2729:G:C6	1:AA:2730:C:C4	3.02	0.48
36:CI:98:LEU:HA	48:CU:31:LEU:HD22	1.95	0.48
54:CA:646:U:H2'	54:CA:647:C:C6	2.49	0.48
33:BF:76:VAL:HG23	33:BF:77:ILE:HG13	1.95	0.48
31:BA:186:C:O2'	50:BW:82:SER:HA	2.14	0.48
21:DV:38:TYR:CG	21:DV:38:TYR:O	2.66	0.48
54:CA:872:A:C6	54:CA:874:G:C5	3.02	0.48
1:AA:414:C:O2	1:AA:1864:U:O2'	2.27	0.48
54:CA:659:U:C2	54:CA:660:G:C8	3.02	0.48
45:CR:39:LEU:O	45:CR:42:HIS:HB3	2.13	0.48
16:A1:31:SER:O	16:A1:32:PHE:C	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1729:A:O2'	55:DA:1730:U:H5''	2.14	0.48
55:DA:2010:G:H5''	18:DS:42:ARG:HB2	1.95	0.48
31:BA:509:A:H2'	31:BA:510:A:C8	2.49	0.48
52:BB:23:A:H2'	52:BB:24:G:C8	2.48	0.48
55:DA:492:A:H2'	55:DA:493:G:O4'	2.14	0.48
54:CA:9:G:OP1	35:CH:121:LYS:HD2	2.14	0.48
1:AA:221:A:H1'	1:AA:233:A:H1'	1.96	0.48
55:DA:2602:A:H5'	55:DA:2603:G:C5'	2.44	0.48
1:AA:1301:A:C2'	1:AA:1302:A:H5''	2.43	0.48
4:AE:39:PRO:HA	4:AE:43:GLY:CA	2.44	0.48
37:CJ:18:TYR:OH	37:CJ:58:PRO:HG2	2.14	0.48
15:DR:136:GLN:HG3	15:DR:137:LYS:H	1.78	0.48
55:DA:363(B):G:H2'	55:DA:363(C):G:H8	1.78	0.48
1:AA:1790:C:H4'	3:AD:209:ALA:HB2	1.94	0.48
16:D1:68:ALA:HB1	16:D1:106:PHE:CE2	2.48	0.48
1:AA:2206:C:H2'	1:AA:2207:C:H6	1.79	0.48
31:BA:1171:G:O2'	31:BA:1172:C:H5'	2.14	0.48
1:AA:2870:C:H2'	1:AA:2871:C:H5'	1.95	0.48
1:AA:937:U:H2'	1:AA:938:G:O4'	2.14	0.48
55:DA:321:G:O2'	55:DA:340:A:H1'	2.13	0.48
1:AA:2432:A:C6	23:AZ:33:LYS:HB3	2.49	0.48
1:AA:2543:G:H2'	1:AA:2544:G:C8	2.48	0.48
37:BJ:121:ALA:O	37:BJ:125:MET:HG3	2.14	0.48
31:BA:1043:C:O2'	31:BA:1044:A:H5'	2.14	0.48
17:A2:65:GLY:O	17:A2:91:TYR:HB2	2.14	0.48
56:DJ:1:MET:O	56:DJ:5:ILE:HG13	2.14	0.47
58:DL:21:PRO:HG2	58:DL:24:GLY:CA	2.26	0.47
57:DY:29:TYR:HA	57:DY:80:VAL:HG13	1.96	0.47
12:AP:59:ARG:O	12:AP:60:ARG:HB2	2.14	0.47
21:DV:191:VAL:CG1	21:DV:197:ILE:CB	2.49	0.47
31:BA:1320:C:O2	49:BV:72:GLY:HA3	2.14	0.47
49:BV:47:HIS:O	49:BV:48:THR:OG1	2.26	0.47
28:A6:28:ARG:C	28:A6:29:ASN:HD22	2.17	0.47
55:DA:881:G:C4	55:DA:882:G:H1'	2.49	0.47
21:DV:185:GLU:OE1	21:DV:185:GLU:C	2.52	0.47
3:DD:28:GLU:HB2	3:DD:29:PRO:HD2	1.96	0.47
43:BP:15:VAL:HG23	43:BP:41:PRO:HA	1.96	0.47
23:DZ:58:ILE:HG21	23:DZ:87:PRO:HG3	1.96	0.47
23:DZ:85:LEU:N	23:DZ:85:LEU:CD2	2.77	0.47
54:CA:789:U:C3'	54:CA:789:U:O2	2.61	0.47
43:CP:74:VAL:O	43:CP:78:ILE:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BM:34:VAL:CG2	40:BM:74:ILE:HG22	2.35	0.47
30:A8:61:LEU:HD13	30:A8:62:LEU:N	2.28	0.47
54:CA:1234:C:O2'	54:CA:1235:U:H5'	2.14	0.47
4:DE:5:LEU:O	4:DE:51:PHE:HE2	1.97	0.47
15:DR:2:ASN:O	15:DR:3:ARG:HB3	2.14	0.47
28:D6:20:ASN:O	28:D6:21:TYR:HB2	2.14	0.47
17:A2:5:VAL:HG23	17:A2:37:VAL:HG21	1.95	0.47
17:A2:43:GLU:HA	17:A2:43:GLU:OE2	2.14	0.47
1:AA:2554:U:O2	52:BB:74:C:H5	1.96	0.47
34:BG:19:LEU:O	34:BG:21:LEU:HG	2.14	0.47
9:DM:99:LEU:O	9:DM:99:LEU:HD22	2.13	0.47
7:DH:154:PRO:HD3	7:DH:161:GLY:C	2.34	0.47
1:AA:2749:A:H62	1:AA:2750:A:H61	1.56	0.47
32:CE:221:LEU:C	32:CE:221:LEU:HD13	2.34	0.47
32:CE:5:ILE:O	32:CE:6:THR:O	2.32	0.47
32:CE:83:MET:O	32:CE:85:ALA:N	2.47	0.47
11:DO:112:LEU:HD11	11:DO:114:ILE:HG22	1.94	0.47
11:DO:91:PHE:HE2	11:DO:95:VAL:HG22	1.78	0.47
24:DW:41:ILE:O	24:DW:43:GLN:N	2.47	0.47
27:D5:31:VAL:HG13	27:D5:42:PRO:HG3	1.96	0.47
5:AF:125:LEU:HD12	5:AF:196:LEU:HD23	1.96	0.47
52:CC:56:C:H42	6:DG:83:ARG:HH22	1.61	0.47
55:DA:654(S):G:O2'	55:DA:654(T):A:O5'	2.17	0.47
55:DA:2712:U:OP1	55:DA:2714:G:H4'	2.14	0.47
6:DG:67:LYS:CE	26:D4:6:HIS:NE2	2.67	0.47
1:AA:2439:A:H4'	1:AA:2440:C:O5'	2.14	0.47
1:AA:1828:G:O6	3:AD:222:ARG:HD3	2.14	0.47
55:DA:72:U:H3	24:DW:62:THR:HG22	1.79	0.47
1:AA:654(F):C:H6	1:AA:654(F):C:O5'	1.96	0.47
50:CW:86:ARG:HG3	50:CW:86:ARG:NH1	2.28	0.47
8:DK:37:VAL:HG12	8:DK:38:LEU:N	2.28	0.47
15:DR:39:ARG:CG	15:DR:40:THR:N	2.76	0.47
31:BA:5:U:H2'	31:BA:6:G:OP2	2.13	0.47
1:AA:1688:U:O2	1:AA:1700:A:C8	2.67	0.47
53:B1:51:U:H3'	53:B1:51:U:C6	2.49	0.47
1:AA:323:G:O2'	1:AA:1205:U:C2	2.67	0.47
54:CA:250:A:O2'	54:CA:251:G:OP2	2.29	0.47
1:AA:753:C:H2'	1:AA:754:C:C6	2.49	0.47
31:BA:680:C:H2'	31:BA:681:C:C6	2.49	0.47
31:BA:700:G:H4'	31:BA:704:A:H1'	1.96	0.47
55:DA:2656:U:O4	55:DA:2657:A:N7	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1829:A:O5'	1:AA:1830:C:H5	1.97	0.47
54:CA:405:U:C3'	54:CA:406:G:H5'	2.40	0.47
1:AA:1614:A:H62	18:AS:93:ALA:CB	2.22	0.47
3:DD:134:ARG:CB	3:DD:135:PHE:HD2	2.26	0.47
33:CF:52:LEU:N	33:CF:52:LEU:HD23	2.29	0.47
16:D1:78:THR:O	16:D1:79:PHE:C	2.52	0.47
55:DA:26:G:N1	55:DA:27:G:N2	2.62	0.47
1:AA:2331:G:O2'	1:AA:2336:A:N1	2.36	0.47
1:AA:2180:U:H2'	1:AA:2181:G:C8	2.49	0.47
54:CA:815:A:O2'	54:CA:1527:C:O4'	2.32	0.47
31:BA:353:A:C8	31:BA:353:A:H5'	2.43	0.47
31:BA:877:C:H1'	38:BK:3:THR:OG1	2.12	0.47
1:AA:184:C:O4'	1:AA:216:A:H2	1.97	0.47
55:DA:756:C:N4	55:DA:757:U:C4	2.82	0.47
1:AA:374:A:H3'	1:AA:375:C:H6	1.79	0.47
31:BA:477:G:H2'	31:BA:478:A:H8	1.78	0.47
1:AA:2795:G:H3'	1:AA:2797:U:H5'	1.94	0.47
36:BI:1:MET:SD	36:BI:68:PRO:HD3	2.54	0.47
31:BA:1190:G:OP1	33:BF:5:ILE:HD12	2.14	0.47
34:BG:173:TRP:CD1	34:BG:174:LEU:HG	2.49	0.47
9:DM:61:ARG:HE	9:DM:61:ARG:CA	2.26	0.47
55:DA:338:G:N2	55:DA:339:U:H1'	2.29	0.47
46:CS:75:ARG:O	46:CS:77:ALA:N	2.41	0.47
18:AS:75:TYR:OH	18:AS:104:THR:HG21	2.13	0.47
1:AA:1515:C:H2'	1:AA:1516:U:H6	1.78	0.47
46:BS:21:VAL:HG11	46:BS:34:GLU:HB3	1.95	0.47
34:BG:59:ARG:NH2	34:BG:66:ARG:HH12	2.12	0.47
54:CA:340:U:H2'	54:CA:341:C:C6	2.49	0.47
54:CA:1256:A:H2	54:CA:1277:C:H2'	1.79	0.47
54:CA:7:G:H5'	54:CA:298:A:O4'	2.13	0.47
21:DV:35:ARG:NH1	21:DV:35:ARG:CB	2.77	0.47
1:AA:1198:U:C2	1:AA:1199:U:C5	3.02	0.47
31:BA:649:G:C6	31:BA:650:G:N7	2.82	0.47
20:AU:33:LYS:CE	20:AU:34:LYS:HG2	2.44	0.47
7:DH:56:SER:OG	7:DH:58:GLU:HG3	2.13	0.47
55:DA:698:C:O2'	55:DA:734:A:N6	2.47	0.47
57:DY:132:ASP:HA	57:DY:134:LEU:HD22	1.97	0.47
57:DY:5:ARG:O	57:DY:7:VAL:HB	2.14	0.47
21:AV:145:GLU:OE1	21:AV:174:VAL:HB	2.13	0.47
26:A4:53:GLU:CG	26:A4:54:GLY:N	2.66	0.47
31:BA:1336:C:O2'	31:BA:1337:G:OP2	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BV:40:ILE:CD1	49:BV:62:ILE:HD13	2.44	0.47
1:AA:859:G:C2'	1:AA:860:U:OP2	2.63	0.47
1:AA:955:C:H5'	1:AA:956:G:P	2.54	0.47
3:DD:35:LYS:HB3	3:DD:36:PRO:HA	1.96	0.47
6:AG:97:ASP:O	6:AG:101:ILE:HG23	2.14	0.47
6:AG:139:LEU:HD12	6:AG:139:LEU:C	2.35	0.47
15:AR:24:PRO:O	15:AR:94:ALA:HB2	2.13	0.47
49:CV:63:THR:HG23	49:CV:65:ASN:ND2	2.26	0.47
40:BM:34:VAL:HA	40:BM:74:ILE:HA	1.95	0.47
30:A8:60:LEU:O	30:A8:61:LEU:C	2.51	0.47
54:CA:1028:C:C4	54:CA:1028(A):C:C5	3.03	0.47
33:CF:28:GLN:HA	33:CF:31:HIS:HD2	1.78	0.47
44:CQ:40:CYS:SG	44:CQ:42:ILE:HB	2.54	0.47
8:AK:104:GLN:O	8:AK:105:HIS:HD2	1.97	0.47
55:DA:2286:A:OP2	28:D6:28:ARG:CG	2.62	0.47
16:A1:60:LEU:HD11	16:A1:64:ARG:HH21	1.80	0.47
17:A2:5:VAL:CG2	17:A2:6:LYS:N	2.77	0.47
9:AM:39:ARG:HG2	9:AM:40:PRO:HD2	1.97	0.47
1:AA:1485:G:O2'	1:AA:1486:A:H5'	2.14	0.47
55:DA:654(J):A:C2	55:DA:654(K):C:C4	3.02	0.47
34:BG:33:MET:O	34:BG:34:GLU:CB	2.61	0.47
4:AE:76:ARG:HG3	4:AE:195:LEU:HD22	1.95	0.47
31:BA:1279:A:O2'	31:BA:1282:C:N4	2.48	0.47
39:BL:16:ARG:O	39:BL:63:ILE:HG23	2.14	0.47
7:DH:126:PRO:HG2	7:DH:130:ARG:O	2.14	0.47
7:DH:151:ILE:O	7:DH:152:ARG:HG2	2.15	0.47
7:AH:23:ARG:N	7:AH:36:PRO:HA	2.29	0.47
21:DV:5:LEU:O	21:DV:6:LYS:C	2.52	0.47
21:DV:5:LEU:C	21:DV:6:LYS:HG3	2.34	0.47
24:DW:13:ALA:HA	24:DW:16:LEU:CD2	2.43	0.47
6:DG:173:LEU:O	6:DG:178:PHE:HB2	2.14	0.47
37:BJ:18:TYR:CD2	37:BJ:59:LEU:HD22	2.47	0.47
21:AV:53:ILE:C	21:AV:70:LEU:HD21	2.33	0.47
20:AU:63:LYS:HA	20:AU:63:LYS:HZ3	1.77	0.47
7:AH:92:ILE:HG22	7:AH:93:GLY:N	2.28	0.47
32:BE:51:LEU:HD23	32:BE:201:ILE:HG23	1.97	0.47
8:DK:92:VAL:O	8:DK:120:ILE:CG2	2.62	0.47
3:AD:93:ALA:N	3:AD:107:ALA:HB2	2.29	0.47
1:AA:141:A:H8	1:AA:1595:G:N2	2.04	0.47
54:CA:191:G:N3	50:CW:105:SER:HB3	2.29	0.47
42:BO:36:VAL:O	42:BO:58:VAL:HA	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1858:G:O2'	55:DA:1884:A:N6	2.46	0.47
1:AA:1061:U:H1'	1:AA:1070:A:H1'	1.96	0.47
35:CH:50:GLU:CD	35:CH:51:VAL:H	2.17	0.47
55:DA:1048:A:H2	55:DA:1112:G:N3	2.12	0.47
55:DA:1044:G:N3	55:DA:1111:A:N1	2.63	0.47
1:AA:1204:A:N3	1:AA:1206:G:C2	2.82	0.47
31:BA:674:G:H2'	31:BA:675:A:C8	2.49	0.47
1:AA:1543:A:C1'	1:AA:1545:A:O4'	2.59	0.47
31:BA:713:G:N2	31:BA:777:A:C1'	2.76	0.47
5:DF:128:ALA:O	5:DF:129:PHE:CB	2.61	0.47
10:DN:93:PRO:CG	10:DN:113:LYS:HD3	2.44	0.47
1:AA:270(Q):C:H4'	8:AK:45:LYS:HE3	1.95	0.47
55:DA:2174:C:H2'	55:DA:2175:C:H6	1.79	0.47
55:DA:2173:A:H3'	55:DA:2174:C:O4'	2.14	0.47
54:CA:411:A:C6	54:CA:429:U:C5	3.02	0.47
35:CH:10:MET:HA	35:CH:32:VAL:HG13	1.97	0.47
18:AS:4:LYS:HG2	18:AS:106:ILE:CG2	2.42	0.47
35:CH:153:LYS:HD3	35:CH:153:LYS:C	2.35	0.47
1:AA:2001:A:H2'	1:AA:2002:G:C8	2.49	0.47
33:CF:52:LEU:O	33:CF:115:LEU:HD21	2.14	0.47
1:AA:446:G:H4'	1:AA:449:A:N3	2.30	0.47
54:CA:647:C:O2'	54:CA:648:A:H5'	2.14	0.47
1:AA:923:C:H2'	1:AA:924:C:C6	2.49	0.47
54:CA:498:A:O2'	54:CA:500:G:C5'	2.62	0.47
7:AH:43:VAL:O	7:AH:43:VAL:HG23	2.14	0.47
28:D6:52:VAL:HG22	28:D6:53:LYS:N	2.25	0.47
1:AA:1753:G:N1	1:AA:1756:G:C2	2.82	0.47
1:AA:2378:A:H4'	14:AQ:23:ARG:CZ	2.44	0.47
33:BF:25:GLY:O	33:BF:27:LYS:N	2.47	0.47
22:A3:55:ARG:NH1	22:A3:55:ARG:CB	2.75	0.47
1:AA:2187:G:O2'	1:AA:2188:C:H5'	2.14	0.47
55:DA:1879:C:C2'	55:DA:1880:C:C5'	2.91	0.47
1:AA:2851:A:H2'	1:AA:2852:G:C8	2.49	0.47
5:DF:57:VAL:HG13	5:DF:58:ALA:H	1.78	0.47
1:AA:1682:G:H2'	1:AA:1683:C:H6	1.75	0.47
33:CF:114:PRO:HD3	33:CF:183:ASP:OD1	2.15	0.47
55:DA:331:A:H4'	55:DA:332:A:OP1	2.14	0.47
55:DA:2290:G:H2'	55:DA:2291:U:O4'	2.15	0.47
55:DA:1839:G:N3	55:DA:1839:G:H2'	2.29	0.47
55:DA:2698:U:H2'	55:DA:2699:C:H6	1.77	0.47
1:AA:189:G:H1	1:AA:205:G:HO2'	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:658:G:H2'	31:BA:659:U:C6	2.49	0.47
54:CA:1336:C:H2'	54:CA:1336:C:O2	2.13	0.47
54:CA:833:U:H2'	54:CA:834:C:C6	2.49	0.47
13:A0:25:ALA:O	13:A0:29:LEU:HB2	2.14	0.47
31:BA:384:G:H2'	31:BA:385:C:C6	2.49	0.47
54:CA:128:G:C5	54:CA:129:U:C5	3.02	0.47
52:CD:33:U:O5'	52:CD:33:U:H6	1.98	0.47
5:DF:170:LEU:HD23	5:DF:172:TRP:CZ2	2.49	0.47
56:DI:20:LEU:O	56:DI:21:LYS:C	2.51	0.47
58:DL:21:PRO:CB	58:DL:22:PRO:HD3	2.43	0.47
57:DY:70:GLU:C	57:DY:113:GLN:HB3	2.34	0.47
57:DY:132:ASP:CA	57:DY:134:LEU:HD22	2.45	0.47
57:DY:21:GLN:HE21	57:DY:22:GLY:H	0.54	0.47
57:DY:91:LYS:HA	57:DY:94:VAL:CB	2.43	0.47
31:BA:942:G:H2'	31:BA:943:U:H6	1.79	0.47
1:AA:642:G:H21	1:AA:646:A:H2	1.56	0.47
1:AA:1360:A:N6	1:AA:1372:U:O4	2.47	0.47
1:AA:911:A:H2'	12:AP:9:TYR:CZ	2.48	0.47
2:AB:39:A:C2'	26:A4:1:MET:CE	2.76	0.47
2:AB:42:C:O3'	6:AG:67:LYS:NZ	2.44	0.47
54:CA:976:G:H5'	54:CA:977:A:OP1	2.14	0.47
55:DA:2784:C:O2'	4:DE:37:ARG:HD2	2.14	0.47
15:DR:3:ARG:HD3	15:DR:7:ILE:HD11	1.97	0.47
55:DA:2414:G:H21	11:DO:67:MET:HE3	1.78	0.47
34:BG:112:VAL:HG12	34:BG:116:GLN:NE2	2.29	0.47
1:AA:1225:C:H5''	17:A2:85:LYS:HE3	1.96	0.47
1:AA:2311:A:C3'	1:AA:2312:U:C6	2.97	0.47
4:AE:29:GLY:H	4:AE:51:PHE:HE1	1.62	0.47
4:AE:35:GLN:CG	4:AE:64:LYS:NZ	2.76	0.47
9:DM:95:PRO:O	9:DM:96:GLU:OE2	2.31	0.47
7:DH:126:PRO:CD	7:DH:127:GLU:N	2.47	0.47
40:CM:6:ILE:O	40:CM:71:LEU:HD12	2.13	0.47
5:DF:204:ASN:C	5:DF:206:ILE:N	2.67	0.47
31:BA:168:G:C3'	31:BA:169:C:H5''	2.44	0.47
35:BH:32:VAL:CG1	35:BH:33:VAL:H	2.26	0.47
55:DA:887:A:H1'	55:DA:889:C:C5	2.49	0.47
1:AA:2646:C:H2'	1:AA:2647:U:O4'	2.14	0.47
1:AA:2146:C:OP2	1:AA:2146:C:H6	1.97	0.47
2:DB:42:C:H4'	6:DG:67:LYS:HD2	1.91	0.47
29:A7:47:ARG:HD3	29:A7:47:ARG:N	2.29	0.47
29:A7:47:ARG:HB2	29:A7:47:ARG:NH1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1971:A:C4	3:AD:241:PRO:HD3	2.50	0.47
1:AA:1821:A:C2'	1:AA:1822:G:H5'	2.43	0.47
55:DA:1930:G:H2'	55:DA:1968:G:C6	2.50	0.47
8:DK:12:LEU:O	8:DK:13:GLY:O	2.33	0.47
37:BJ:113:GLU:CG	37:BJ:119:ARG:HG2	2.44	0.47
55:DA:1791:A:H5'	55:DA:1792:G:OP2	2.14	0.47
1:AA:851:U:H5''	25:AX:49:LYS:HD2	1.96	0.47
11:AO:79:ARG:HD3	11:AO:109:GLY:HA2	1.96	0.47
44:CQ:12:ARG:CA	44:CQ:14:PRO:HD2	2.44	0.47
2:DB:55:U:H2'	2:DB:56:G:O4'	2.14	0.47
34:CG:25:ARG:HH12	34:CG:30:LYS:HB2	1.78	0.47
55:DA:1156:A:H4'	55:DA:1157:G:OP2	2.14	0.47
25:DX:7:LYS:C	25:DX:54:VAL:HG23	2.34	0.47
54:CA:1228:C:P	43:CP:108:ARG:NH2	2.87	0.47
7:AH:54:ARG:HG3	7:AH:56:SER:O	2.14	0.47
47:CT:58:GLU:O	47:CT:74:LEU:N	2.46	0.47
1:AA:1537:C:O2'	1:AA:1538:G:O4'	2.28	0.47
22:A3:25:ARG:HH11	22:A3:25:ARG:HG2	1.78	0.47
1:AA:1956:U:C4	1:AA:1957:C:C5	3.02	0.47
31:BA:1073:U:C2	31:BA:1074:G:C8	3.02	0.47
2:AB:15:A:H1'	2:AB:109:G:N9	2.28	0.47
55:DA:2205:C:O2	55:DA:2226:C:N4	2.46	0.47
17:D2:59:ALA:HA	17:D2:95:LEU:O	2.15	0.47
5:DF:54:ARG:HG2	5:DF:81:PRO:HD3	1.96	0.47
55:DA:74:A:H5'	55:DA:75:G:O4'	2.13	0.47
39:CL:88:TYR:CZ	39:CL:89:ASN:ND2	2.82	0.47
55:DA:2087:G:C2'	55:DA:2088:G:H5'	2.44	0.47
33:CF:77:ILE:HA	33:CF:84:ILE:HB	1.95	0.47
13:A0:104:ARG:HB2	13:A0:104:ARG:HH11	1.80	0.47
38:CK:116:LYS:HB2	38:CK:119:LEU:HD11	1.96	0.47
45:CR:12:ILE:C	45:CR:14:GLU:H	2.16	0.47
55:DA:221:A:H1'	55:DA:233:A:H1'	1.97	0.47
55:DA:1271:G:C2	55:DA:1617:C:H4'	2.49	0.47
27:D5:48:GLU:CG	27:D5:59:GLU:HG3	2.45	0.47
41:BN:34:ASP:HB2	41:BN:35:PRO:CD	2.44	0.47
1:AA:374:A:H3'	1:AA:375:C:C6	2.49	0.47
1:AA:372:G:N2	1:AA:401:A:OP2	2.29	0.47
31:BA:181:G:O2'	31:BA:182:U:P	2.71	0.47
28:A6:53:LYS:NZ	28:A6:53:LYS:HB3	2.29	0.47
4:AE:101:ARG:CZ	4:AE:171:GLU:HB3	2.44	0.47
1:AA:1694:C:H1'	1:AA:1695:G:N2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BI:42:GLU:O	36:BI:44:GLY:N	2.47	0.47
55:DA:2292:C:H2'	55:DA:2293:C:C6	2.49	0.47
3:DD:263:ARG:HH11	3:DD:263:ARG:HB3	1.78	0.47
38:CK:63:LEU:HB2	38:CK:65:TYR:CE1	2.49	0.47
35:BH:107:ARG:O	35:BH:110:LEU:N	2.30	0.47
55:DA:218:A:C2	55:DA:235:U:H4'	2.48	0.47
55:DA:2039:C:O2'	55:DA:2040:C:H5'	2.14	0.47
1:AA:198:C:H5'	1:AA:2244:U:OP1	2.14	0.47
1:AA:729:G:H2'	1:AA:1775:U:O2	2.13	0.47
55:DA:2540:C:C2'	55:DA:2541:A:H5'	2.44	0.47
31:BA:1136:U:H6	31:BA:1136:U:O5'	1.96	0.47
40:CM:23:ILE:HG23	40:CM:85:LEU:HD13	1.97	0.47
47:BT:58:GLU:CB	47:BT:74:LEU:HB3	2.44	0.47
54:CA:425:G:O2'	54:CA:426:G:H5'	2.15	0.47
46:CS:26:ARG:NH2	46:CS:31:LYS:HE2	2.29	0.47
55:DA:20:C:O2'	55:DA:21:A:H5'	2.15	0.47
10:AN:68:GLU:HB3	10:AN:78:ARG:HH11	1.78	0.47
7:AH:166:GLY:O	7:AH:167:GLU:O	2.32	0.47
55:DA:2121:G:H2'	55:DA:2122:U:C6	2.49	0.47
35:BH:109:ILE:O	35:BH:109:ILE:HG22	2.12	0.47
12:AP:96:VAL:HG12	12:AP:96:VAL:O	2.14	0.47
1:AA:541:C:C2	1:AA:542:C:C5	3.02	0.47
57:DY:74:LEU:HD13	57:DY:75:GLN:CG	2.43	0.47
1:AA:897:C:H6	1:AA:897:C:P	2.37	0.47
21:AV:175:VAL:CG2	21:AV:176:PRO:HD2	2.44	0.47
1:AA:889:C:C5	1:AA:890:A:H1'	2.50	0.47
1:AA:973:A:H1'	1:AA:1188:U:C5	2.49	0.47
12:AP:11:LYS:CE	12:AP:86:GLY:O	2.62	0.47
54:CA:533:A:O2'	54:CA:534:U:P	2.72	0.47
21:DV:111:VAL:CG2	21:DV:145:GLU:HA	2.45	0.47
21:DV:178:GLU:HG3	21:DV:180:VAL:HA	1.96	0.47
3:DD:35:LYS:HE2	3:DD:104:TYR:HB2	1.95	0.47
6:AG:64:THR:HG23	6:AG:65:GLY:N	2.29	0.47
54:CA:789:U:O4	54:CA:792:A:OP2	2.30	0.47
54:CA:794:A:H2'	54:CA:795:C:O4'	2.13	0.47
30:A8:50:LEU:HD12	30:A8:54:GLU:N	2.28	0.47
33:CF:30:ARG:HD2	44:CQ:38:GLY:HA3	1.96	0.47
55:DA:2891:G:H5'	55:DA:2892:A:P	2.55	0.47
14:DQ:108:GLY:O	14:DQ:110:LEU:HG	2.13	0.47
1:AA:386:G:H3'	1:AA:388:G:N2	2.29	0.47
1:AA:390:A:H4'	1:AA:391:G:O5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:20:ASN:O	28:D6:21:TYR:CB	2.62	0.47
1:AA:1344:G:C2	1:AA:1385:G:C8	3.03	0.47
1:AA:2552:U:O2	1:AA:2554:U:H5'	2.14	0.47
34:BG:24:GLU:HG3	34:BG:25:ARG:H	1.78	0.47
4:AE:61:ARG:N	4:AE:62:PRO:CD	2.78	0.47
39:BL:3:GLN:NE2	39:BL:20:ARG:NH1	2.62	0.47
54:CA:1449:C:H2'	54:CA:1450:U:C5'	2.25	0.47
32:CE:70:PHE:HB3	32:CE:81:VAL:HG13	1.96	0.47
52:CD:24:G:O2'	52:CD:25:C:H5'	2.13	0.47
6:DG:112:PRO:CB	26:D4:37:SER:H	2.12	0.47
35:BH:31:LEU:HD21	35:BH:43:LEU:CD1	2.26	0.47
8:DK:78:THR:CG2	8:DK:141:LYS:HD2	2.45	0.47
54:CA:1160:G:H2'	54:CA:1161:C:O5'	2.14	0.47
31:BA:869:G:H4'	31:BA:872:A:C1'	2.45	0.47
1:AA:2453:A:HO2'	1:AA:2572:A:H1'	1.80	0.47
14:DQ:18:ILE:HD13	14:DQ:87:PHE:O	2.15	0.47
46:CS:4:ILE:HG13	46:CS:21:VAL:HG12	1.97	0.47
55:DA:802:A:H2'	55:DA:803:U:H5'	1.97	0.47
1:AA:607:U:OP1	5:AF:102:PRO:HA	2.14	0.47
9:DM:137:LYS:CG	9:DM:138:LEU:N	2.75	0.47
15:DR:23:ARG:HA	15:DR:52:ILE:CD1	2.44	0.47
39:CL:113:LYS:N	39:CL:113:LYS:CD	2.78	0.47
12:DP:51:ARG:NH1	12:DP:51:ARG:HG2	2.29	0.47
39:BL:53:VAL:C	39:BL:55:ALA:H	2.18	0.47
11:AO:84:ASN:HD22	11:AO:84:ASN:N	2.12	0.47
54:CA:723:U:H5''	54:CA:724:G:OP2	2.15	0.47
55:DA:774:A:C2'	55:DA:775:G:OP2	2.62	0.47
1:AA:1761:C:N4	1:AA:1762:A:N1	2.62	0.47
53:B1:53:U:HO2'	53:B1:54:U:P	2.31	0.47
54:CA:1046:A:H3'	54:CA:1047:G:H8	1.79	0.47
44:CQ:3:ARG:O	44:CQ:4:LYS:C	2.52	0.47
7:DH:19:VAL:O	7:DH:20:ALA:HB2	2.14	0.47
31:BA:501:C:H2'	31:BA:502:G:C8	2.47	0.47
55:DA:1045:A:H1'	55:DA:1047:G:N3	2.29	0.47
54:CA:1366:C:O2'	40:CM:60:ARG:NH2	2.45	0.47
19:DT:12:VAL:HG11	19:DT:27:THR:HG23	1.96	0.47
33:CF:6:HIS:CD2	33:CF:8:ILE:H	2.31	0.47
2:DB:82:G:N1	2:DB:95:U:O2	2.46	0.47
14:AQ:25:ARG:HH11	14:AQ:25:ARG:HB2	1.77	0.47
25:DX:7:LYS:HE2	25:DX:32:GLN:CA	2.44	0.47
10:AN:87:ILE:HD13	10:AN:93:PRO:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:CI:42:GLU:C	36:CI:44:GLY:N	2.66	0.47
5:DF:129:PHE:C	5:DF:131:GLY:H	2.17	0.47
31:BA:371:G:O2'	31:BA:372:C:H5'	2.14	0.47
35:CH:33:VAL:CG1	35:CH:112:LEU:HD12	2.43	0.47
4:AE:116:VAL:HG23	4:AE:120:TRP:HD1	1.79	0.47
1:AA:830:G:H22	1:AA:2446:G:H5'	1.79	0.47
40:CM:4:ILE:HG22	40:CM:74:ILE:HD11	1.95	0.47
1:AA:529:A:C4'	1:AA:530:G:OP1	2.62	0.47
1:AA:666:G:OP1	11:AO:47:ASP:O	2.32	0.47
18:DS:29:LEU:HD11	18:DS:55:ALA:HB2	1.96	0.47
55:DA:2849:U:H5	15:DR:93:ARG:HH12	1.62	0.47
1:AA:2334:G:H4'	1:AA:2335:A:OP2	2.11	0.47
39:CL:21:PRO:HA	39:CL:59:PHE:HA	1.95	0.47
15:AR:50:ILE:HA	15:AR:99:LEU:CD1	2.44	0.47
51:CX:3:LYS:HB3	51:CX:14:TRP:CD1	2.49	0.47
43:BP:49:THR:N	43:BP:52:GLU:OE1	2.47	0.47
38:CK:1:MET:HE2	38:CK:1:MET:N	2.29	0.47
12:DP:136:ALA:HB1	21:DV:52:SER:HB2	1.96	0.47
1:AA:2329:G:H2'	1:AA:2330:G:H8	1.78	0.47
25:DX:36:VAL:O	25:DX:37:LEU:HD23	2.15	0.47
53:B1:42:U:H5'	53:B1:42:U:H6	1.79	0.47
31:BA:182:U:OP2	31:BA:183:G:N7	2.47	0.47
1:AA:1278:A:C5'	13:A0:36:THR:HG22	2.44	0.47
1:AA:2817:G:OP1	13:A0:42:LYS:NZ	2.44	0.47
1:AA:2171:A:H2'	1:AA:2172:U:C6	2.48	0.47
34:CG:163:GLU:C	34:CG:165:MET:H	2.17	0.47
43:BP:115:LYS:O	43:BP:116:THR:C	2.53	0.47
24:AW:30:ARG:NH1	24:AW:30:ARG:HG3	2.29	0.47
37:CJ:95:ARG:HG2	37:CJ:99:LEU:CD1	2.44	0.47
16:A1:17:ILE:O	16:A1:20:LEU:HB2	2.14	0.47
2:DB:14:U:O2'	2:DB:107:U:H4'	2.15	0.47
55:DA:1838:C:H4'	55:DA:1839:G:H8	1.79	0.47
46:BS:59:TRP:O	46:BS:64:ALA:HB3	2.14	0.47
55:DA:2540:C:O2'	55:DA:2541:A:H5'	2.15	0.47
1:AA:1897:G:H2'	1:AA:1898:U:C6	2.49	0.47
48:BU:34:TYR:HA	48:BU:40:LEU:HD11	1.97	0.47
47:BT:58:GLU:HB2	47:BT:74:LEU:HB3	1.97	0.47
1:AA:648:G:O2'	1:AA:649:G:H5'	2.14	0.47
23:DZ:21:ARG:HG3	23:DZ:35:THR:HG23	1.96	0.47
55:DA:2831:G:OP1	55:DA:2834:G:H4'	2.14	0.47
19:DT:57:LEU:CD1	19:DT:57:LEU:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:45:VAL:O	7:AH:45:VAL:HG13	2.14	0.47
54:CA:1447:G:OP2	54:CA:1447:G:C8	2.68	0.47
1:AA:229:A:OP2	1:AA:229:A:H4'	2.14	0.47
55:DA:1952:A:C6	55:DA:1953:A:C6	3.02	0.47
55:DA:1056:G:C2	55:DA:1103:A:N7	2.81	0.47
7:DH:164:TYR:O	7:DH:166:GLY:N	2.47	0.47
56:DI:26:ALA:O	56:DI:28:LYS:O	2.32	0.47
58:DL:19:PRO:O	58:DL:20:ALA:HB3	2.13	0.47
58:DL:34:ILE:CG1	58:DL:38:VAL:HG22	2.45	0.47
57:DY:50:ARG:CD	57:DY:51:LEU:N	2.70	0.47
57:DY:6:ASN:C	57:DY:7:VAL:CG1	2.82	0.47
57:DY:97:ALA:C	57:DY:98:LYS:O	2.53	0.47
31:BA:1320:C:C2	49:BV:72:GLY:HA3	2.48	0.47
55:DA:1360:A:C8	55:DA:1361:G:C8	3.02	0.47
1:AA:954:G:N2	1:AA:955:C:H1'	2.30	0.47
2:AB:40:U:H2'	2:AB:41:U:OP1	2.14	0.47
43:BP:15:VAL:CG2	43:BP:41:PRO:HA	2.44	0.47
49:BV:5:LEU:HG	49:BV:9:VAL:CA	2.36	0.47
1:AA:1754:C:P	15:AR:96:ARG:HH12	2.38	0.47
40:BM:75:ILE:CG1	40:BM:76:ASN:N	2.77	0.47
40:BM:33:GLN:H	40:BM:75:ILE:HG12	1.79	0.47
30:A8:6:THR:O	30:A8:7:HIS:CB	2.63	0.47
4:DE:9:VAL:HG11	15:DR:7:ILE:HB	1.95	0.47
46:CS:51:VAL:HG12	46:CS:52:ASP:N	2.30	0.47
28:D6:15:GLU:OE2	28:D6:44:ARG:NH1	2.47	0.47
1:AA:1925:C:H42	1:AA:1929:G:H21	1.62	0.47
1:AA:1406:U:C3'	1:AA:1407:C:H6	2.25	0.47
55:DA:2393:A:H5'	11:DO:62:LEU:HB2	1.97	0.47
16:A1:50:ARG:HH11	17:A2:72:VAL:CG1	2.28	0.47
4:AE:58:ARG:NH2	4:AE:58:ARG:HA	2.27	0.47
9:DM:35:ARG:O	9:DM:37:LYS:N	2.48	0.47
31:BA:1126:U:N3	31:BA:1281:U:O4'	2.47	0.47
39:BL:14:VAL:C	39:BL:65:VAL:HG23	2.35	0.47
1:AA:2749:A:H1'	7:AH:63:SER:OG	2.14	0.47
5:DF:107:LYS:O	5:DF:108:LYS:C	2.53	0.47
31:BA:1024:G:C3'	31:BA:1025:U:H5''	2.44	0.47
27:D5:2:ALA:O	27:D5:3:LYS:HD2	2.13	0.47
21:DV:62:PRO:O	21:DV:63:ASP:HB3	2.14	0.47
31:BA:959:A:C3'	31:BA:960:U:H4'	2.44	0.47
6:DG:122:PRO:C	6:DG:123:ASN:HD22	2.18	0.47
23:AZ:96:LYS:O	23:AZ:97:LEU:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:888:C:O5'	55:DA:889:C:C5	2.67	0.47
9:AM:28:THR:HA	9:AM:106:MET:CE	2.44	0.47
1:AA:330:A:C2	1:AA:1210:A:H2'	2.49	0.47
55:DA:2311:A:H3'	55:DA:2312:U:C6	2.49	0.47
6:DG:88:ILE:O	6:DG:88:ILE:CG2	2.62	0.47
19:AT:18:TYR:O	19:AT:21:PHE:HB2	2.14	0.47
1:AA:789:A:H4'	1:AA:790:C:OP1	2.14	0.47
20:AU:6:HIS:HE2	20:AU:72:VAL:CG2	2.27	0.47
54:CA:1346:A:N1	54:CA:1374:A:H5''	2.30	0.47
48:BU:21:LYS:HB3	48:BU:22:VAL:H	1.45	0.47
1:AA:1053:C:H3'	1:AA:1054:A:C5'	2.43	0.47
1:AA:1085:A:O2'	1:AA:1086:A:P	2.72	0.47
11:AO:114:ILE:HG21	11:AO:125:VAL:HG21	1.95	0.47
12:AP:104:PHE:O	12:AP:105:GLU:O	2.32	0.47
5:DF:178:PRO:HB2	5:DF:201:VAL:CG1	2.42	0.47
55:DA:1964:G:O2'	55:DA:1967:C:OP2	2.29	0.47
52:BB:9:A:C2	52:BB:11:C:N4	2.80	0.47
34:CG:25:ARG:C	34:CG:27:TYR:H	2.11	0.47
55:DA:1044:G:O2'	55:DA:1045:A:H5''	2.14	0.47
55:DA:2728:U:H2'	55:DA:2729:G:C8	2.50	0.47
10:AN:86:ILE:O	10:AN:87:ILE:HD13	2.15	0.47
36:CI:41:GLU:O	36:CI:41:GLU:HG2	2.14	0.47
48:CU:26:LEU:HD22	48:CU:42:ARG:NE	2.29	0.47
48:CU:58:LEU:N	48:CU:58:LEU:HD12	2.29	0.47
55:DA:2126:A:H4'	55:DA:2127:G:O5'	2.14	0.47
36:CI:21:LEU:O	36:CI:24:GLU:N	2.47	0.47
11:DO:36:LYS:HG3	11:DO:36:LYS:HZ3	1.51	0.47
43:CP:16:ASP:N	43:CP:16:ASP:OD2	2.46	0.47
33:CF:34:LEU:O	33:CF:38:ARG:HG3	2.15	0.47
33:CF:35:GLU:OE2	33:CF:95:THR:HG23	2.15	0.47
55:DA:565:C:H4'	55:DA:1253:A:N6	2.30	0.47
54:CA:1298:C:H1'	54:CA:1299:A:C6	2.49	0.47
9:AM:120:LEU:CD2	9:AM:122:VAL:HG23	2.38	0.47
40:CM:32:ALA:CB	40:CM:76:ASN:HB2	2.45	0.47
55:DA:851:U:C4'	25:DX:46:ASN:ND2	2.77	0.47
1:AA:223:A:O2'	1:AA:420:C:O2	2.31	0.47
31:BA:663:A:H5'	31:BA:836:G:OP1	2.15	0.47
22:A3:74:ARG:NH1	22:A3:74:ARG:HG3	2.26	0.47
55:DA:719:C:H2'	55:DA:720:C:C6	2.48	0.47
34:BG:190:ASP:O	34:BG:192:GLU:N	2.48	0.47
31:BA:359:U:H2'	31:BA:360:A:H8	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:46:G:O2'	31:BA:365:U:H1'	2.15	0.47
55:DA:1416:G:C4	55:DA:1417:C:C5	3.03	0.47
31:BA:965:A:C5'	31:BA:966:G:OP1	2.61	0.47
55:DA:1503:U:H2'	55:DA:1504:C:H6	1.77	0.47
3:DD:166:GLN:HE21	3:DD:166:GLN:HA	1.80	0.47
44:BQ:22:THR:O	44:BQ:23:ARG:HB2	2.13	0.47
54:CA:1316:G:H4'	44:CQ:18:VAL:CG1	2.44	0.47
31:BA:109:A:C6	31:BA:326:G:C6	3.02	0.47
31:BA:178:C:O2'	31:BA:179:A:H5'	2.14	0.47
55:DA:2408:U:H2'	55:DA:2409:G:C8	2.49	0.47
38:BK:29:SER:HB3	38:BK:32:LYS:HG3	1.97	0.47
34:CG:160:GLN:O	34:CG:163:GLU:HB3	2.14	0.47
55:DA:1427:A:H4'	55:DA:1428:C:O4'	2.14	0.47
40:CM:94:VAL:HG12	40:CM:95:GLU:N	2.30	0.47
14:AQ:73:LEU:C	14:AQ:73:LEU:HD13	2.34	0.47
26:A4:65:ASP:O	26:A4:66:SER:C	2.53	0.47
54:CA:1336:C:C2'	54:CA:1337:G:OP2	2.63	0.47
55:DA:2762:G:H2'	55:DA:2763:G:H5'	1.97	0.47
55:DA:1242:A:C5'	55:DA:1243:G:OP2	2.63	0.47
42:CO:78:GLN:O	42:CO:80:HIS:N	2.47	0.47
54:CA:1273:G:H3'	54:CA:1274:G:H8	1.79	0.47
54:CA:489:C:H2'	54:CA:490:G:H8	1.80	0.47
54:CA:384:G:H2'	54:CA:385:C:C6	2.49	0.47
31:BA:583:A:H2'	31:BA:584:G:O4'	2.15	0.47
1:AA:613:U:O4'	1:AA:613:U:O2	2.32	0.47
1:AA:2540:C:O2	1:AA:2540:C:H2'	2.13	0.47
1:AA:2540:C:O2'	1:AA:2740:A:N3	2.32	0.47
58:DL:58:THR:HB	58:DL:66:THR:HG21	1.95	0.47
55:DA:1082:U:OP2	57:DY:45:LYS:HG2	2.15	0.47
57:DY:4:LYS:C	57:DY:5:ARG:HG3	2.35	0.47
57:DY:88:ALA:C	57:DY:92:THR:CB	2.83	0.47
26:A4:56:VAL:O	26:A4:57:GLU:HB2	2.15	0.47
31:BA:1342:C:H1'	39:BL:124:GLN:HE21	1.76	0.47
31:BA:1342:C:O2'	31:BA:1343:G:H5'	2.15	0.47
31:BA:1365:G:H2'	31:BA:1366:C:C6	2.48	0.47
54:CA:1313:U:OP2	49:CV:6:LYS:N	2.47	0.47
54:CA:788:U:H3	54:CA:795:C:N4	2.11	0.47
55:DA:1278:A:H2'	55:DA:1279:G:H8	1.79	0.47
54:CA:1003:G:H5'	54:CA:1003:G:H8	1.80	0.47
54:CA:1102:A:C6	54:CA:1103:C:N4	2.83	0.47
54:CA:953:G:H2'	54:CA:954:G:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BG:19:LEU:C	34:BG:21:LEU:HG	2.35	0.47
7:DH:127:GLU:CG	7:DH:128:PRO:HD2	2.45	0.47
7:AH:4:ILE:HG13	7:AH:5:GLY:N	2.28	0.47
54:CA:1128:C:C5'	39:CL:16:ARG:HH22	2.16	0.47
20:AU:20:TYR:N	20:AU:20:TYR:CD1	2.83	0.47
13:D0:94:TYR:C	13:D0:117:VAL:HG12	2.35	0.47
6:DG:122:PRO:HB3	6:DG:180:PHE:HD2	1.79	0.47
16:D1:92:ARG:HD2	16:D1:95:LEU:HD12	1.96	0.47
17:D2:48:GLY:O	17:D2:49:THR:O	2.32	0.47
23:AZ:92:LYS:HZ1	23:AZ:97:LEU:CG	2.20	0.47
54:CA:1175:G:H2'	54:CA:1176:A:H8	1.73	0.47
1:AA:1141:U:H5'	9:AM:25:ARG:NH2	2.30	0.47
21:AV:44:PHE:CE2	21:AV:86:VAL:HG11	2.49	0.47
55:DA:1533:C:C2'	55:DA:1534:G:N7	2.65	0.47
54:CA:129(A):G:H1'	54:CA:190:G:C5'	2.45	0.47
52:CC:21:A:N6	52:CC:46:G:H2'	2.30	0.47
18:AS:13:SER:HA	18:AS:99:ARG:HB2	1.97	0.47
55:DA:242:G:OP2	30:D8:3:LYS:HE3	2.14	0.47
1:AA:27:G:H22	1:AA:512:G:H2'	1.79	0.47
50:CW:94:ALA:O	50:CW:95:ALA:CB	2.63	0.47
6:DG:96:ARG:O	6:DG:98:ARG:N	2.48	0.47
31:BA:1535:C:O2'	31:BA:1536:C:H5'	2.14	0.47
55:DA:1923:U:H2'	55:DA:1924:C:C6	2.49	0.47
54:CA:1346:A:H5'	39:CL:120:ARG:HH12	1.80	0.47
35:CH:79:GLU:HB3	35:CH:92:LYS:HG3	1.95	0.47
55:DA:916:G:C2'	55:DA:917:A:H5''	2.44	0.47
11:AO:114:ILE:HG12	11:AO:130:PHE:CD1	2.49	0.47
35:BH:78:HIS:CG	38:BK:104:ARG:HD2	2.50	0.47
42:BO:70:ILE:CD1	42:BO:77:LEU:HD12	2.45	0.47
53:B1:51:U:C3'	53:B1:51:U:C6	2.98	0.47
7:DH:22:GLY:O	7:DH:37:VAL:N	2.48	0.47
33:CF:5:ILE:H	33:CF:5:ILE:CD1	2.27	0.47
33:BF:64:VAL:HG12	33:BF:66:VAL:HG23	1.96	0.47
10:AN:16:ALA:HA	10:AN:46:ALA:HA	1.96	0.47
7:AH:13:LYS:HA	7:AH:13:LYS:HZ3	1.79	0.47
50:BW:26:ASN:HD22	50:BW:27:LYS:H	1.62	0.47
31:BA:718:G:C5'	41:BN:117:ASN:OD1	2.58	0.47
54:CA:1151:A:H5'	40:CM:40:LEU:O	2.15	0.47
54:CA:736:C:H2'	54:CA:737:A:C8	2.50	0.47
18:DS:9:TYR:N	18:DS:102:HIS:HD2	2.03	0.47
4:AE:111:ARG:HG2	13:A0:2:ARG:HH22	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:51:G:N2	1:AA:119:A:N3	2.63	0.47
1:AA:1165:U:H2'	1:AA:1166:C:H6	1.72	0.47
40:CM:11:PHE:HA	40:CM:66:ARG:O	2.15	0.47
54:CA:143:A:H2	54:CA:220:G:H1	1.62	0.47
8:DK:27:ARG:HB2	23:DZ:71:TYR:CZ	2.49	0.47
52:BC:42:C:C2'	52:BC:43:C:H5''	2.44	0.47
34:BG:139:ARG:NH1	34:BG:139:ARG:HG3	2.22	0.47
10:DN:8:LEU:HB2	10:DN:19:ILE:HD11	1.96	0.47
6:AG:151:ALA:HB3	6:AG:153:ARG:HH11	1.79	0.47
55:DA:74:A:C5'	55:DA:75:G:O4'	2.62	0.47
43:CP:48:LEU:HD23	43:CP:48:LEU:N	2.28	0.47
1:AA:727:A:C2	3:AD:9:TYR:CD2	3.03	0.47
31:BA:707:C:O2'	31:BA:708:C:H5'	2.14	0.47
43:BP:49:THR:HB	43:BP:52:GLU:CG	2.43	0.47
55:DA:469:G:H2'	55:DA:470:A:H5''	1.97	0.47
52:CB:2:C:H2'	52:CB:3:C:H6	1.78	0.47
37:CJ:87:VAL:HG21	37:CJ:154:TYR:HB2	1.96	0.47
5:DF:164:ARG:HG3	5:DF:175:THR:OG1	2.15	0.47
48:CU:50:ILE:CD1	48:CU:50:ILE:N	2.76	0.47
55:DA:212:G:C2'	55:DA:213:A:H5'	2.45	0.47
43:BP:97:PRO:HA	43:BP:110:ARG:CD	2.44	0.47
14:DQ:58:LEU:N	14:DQ:58:LEU:CD2	2.78	0.47
15:AR:98:LYS:N	15:AR:98:LYS:HD2	2.30	0.47
45:BR:66:LEU:O	45:BR:69:TYR:HB3	2.14	0.47
54:CA:715:A:H2'	54:CA:716:A:C8	2.50	0.47
31:BA:508:C:H4'	31:BA:509:A:O5'	2.14	0.47
54:CA:1244:C:OP2	51:CX:9:ARG:HB2	2.15	0.47
2:AB:14:U:O2'	2:AB:107:U:H1'	2.14	0.47
55:DA:1629:U:O2	55:DA:2698:U:H5''	2.14	0.47
55:DA:234:C:H2'	55:DA:235:U:O4'	2.15	0.47
55:DA:235:U:H2'	55:DA:236:C:C6	2.49	0.47
9:DM:131:GLN:NE2	9:DM:132:ALA:N	2.62	0.47
18:AS:70:TYR:CD2	18:AS:70:TYR:N	2.83	0.47
31:BA:247:G:O2'	31:BA:248:C:H5'	2.14	0.47
52:CB:25:C:C4	52:CB:26:A:C2	3.02	0.47
48:BU:45:SER:C	48:BU:47:THR:H	2.18	0.47
15:DR:29:ARG:HH12	15:DR:89:VAL:HG11	1.79	0.47
55:DA:21:A:O2'	55:DA:22:C:H5'	2.15	0.47
4:DE:109:LYS:HE2	4:DE:191:PRO:HA	1.97	0.47
52:CB:22:G:O2'	52:CB:23:A:H5'	2.14	0.47
54:CA:478:A:O2'	54:CA:479:C:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:53:VAL:O	38:CK:54:ASP:HB2	2.14	0.47
56:DI:10:GLU:O	56:DI:14:GLN:CA	2.63	0.47
58:DL:69:THR:O	58:DL:70:LYS:CG	2.63	0.47
57:DY:116:ILE:O	57:DY:117:LEU:CB	2.59	0.47
57:DY:59:ILE:C	57:DY:61:LEU:N	2.68	0.47
57:DY:89:ALA:CA	56:DJ:15:ALA:HB2	2.44	0.47
57:DY:41:ARG:O	58:DL:116:ASN:O	2.33	0.47
58:DL:78:ILE:HG21	58:DL:131:ALA:HB2	1.97	0.47
57:DY:38:HIS:C	57:DY:40:LEU:N	2.66	0.47
21:AV:178:GLU:C	21:AV:180:VAL:H	2.17	0.47
21:DV:192:ALA:CA	21:DV:193:GLU:OE1	2.62	0.47
55:DA:1074:G:H2'	55:DA:1075:C:C6	2.49	0.47
30:A8:37:SER:O	30:A8:38:GLY:C	2.53	0.47
1:AA:2418:A:OP2	30:A8:29:LYS:CE	2.63	0.47
1:AA:863:A:H2'	1:AA:864:G:H8	1.80	0.47
2:AB:93:C:O2'	2:AB:94:C:H5'	2.15	0.47
12:AP:89:ASN:HD22	12:AP:89:ASN:N	2.12	0.47
42:CO:90:VAL:O	42:CO:91:LYS:C	2.53	0.47
21:DV:178:GLU:O	21:DV:179:ASP:CB	2.61	0.47
54:CA:630:G:H8	54:CA:630:G:C3'	2.16	0.47
3:DD:66:ASP:OD1	3:DD:68:LYS:O	2.33	0.47
3:DD:94:LEU:C	3:DD:94:LEU:CD1	2.81	0.47
26:A4:16:CYS:C	26:A4:18:CYS:H	2.18	0.47
6:AG:7:LEU:HD22	6:AG:100:TRP:CZ3	2.49	0.47
40:BM:97:GLU:C	40:BM:98:ILE:HD12	2.34	0.47
30:A8:64:TYR:HB2	30:A8:65:GLU:H	1.36	0.47
54:CA:1055:A:O2'	33:CF:161:GLU:OE1	2.33	0.47
54:CA:957:U:H1'	54:CA:960:U:C6	2.49	0.47
55:DA:2811:G:OP1	4:DE:61:ARG:HG2	2.14	0.47
55:DA:2420:C:OP1	30:D8:34:TRP:N	2.46	0.47
16:A1:102:GLU:H	16:A1:103:PRO:CD	2.28	0.47
20:DU:91:GLU:HG3	20:DU:92:ASN:N	2.30	0.47
55:DA:633:A:H2'	55:DA:634:C:H5'	1.95	0.47
1:AA:458:G:H2'	1:AA:459:U:OP2	2.11	0.47
1:AA:1462:C:H2'	1:AA:1463:C:H6	1.79	0.47
1:AA:612:G:C5'	1:AA:612:G:H8	2.19	0.47
34:BG:119:GLN:OE1	34:BG:123:HIS:CD2	2.68	0.47
31:BA:542:G:H5'	34:BG:41:GLY:CA	2.45	0.47
34:BG:9:CYS:C	34:BG:11:LEU:H	2.17	0.47
6:AG:47:LYS:HG3	6:AG:82:LEU:HD23	1.96	0.47
55:DA:2779:U:O2'	55:DA:2781:A:N7	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DM:7:LYS:CD	9:DM:7:LYS:H	2.23	0.47
31:BA:1143:G:H2'	31:BA:1144:G:C8	2.50	0.47
39:BL:28:VAL:HG22	39:BL:63:ILE:O	2.15	0.47
7:DH:89:ILE:HD13	7:DH:90:LYS:H	1.78	0.47
1:AA:2758:A:C2	7:AH:67:LEU:HD21	2.49	0.47
7:AH:67:LEU:O	7:AH:71:LEU:HB2	2.15	0.47
1:AA:2517:C:C2	1:AA:2542:A:N6	2.83	0.47
54:CA:1139:G:N2	54:CA:1143:G:O6	2.47	0.47
32:CE:48:MET:C	32:CE:50:GLU:N	2.66	0.47
32:CE:97:TRP:CH2	32:CE:176:GLU:OE2	2.68	0.47
32:CE:212:GLN:CG	32:CE:235:SER:HB2	2.40	0.47
31:BA:1004:A:O5'	31:BA:1025:U:C4	2.66	0.47
11:DO:88:LEU:C	11:DO:88:LEU:HD23	2.35	0.47
52:CD:9:A:H5''	52:CD:10:G:OP2	2.15	0.47
31:BA:791:G:C5	31:BA:792:A:N7	2.82	0.47
6:DG:108:ASN:HA	26:D4:38:LYS:CG	2.44	0.47
16:D1:92:ARG:HD2	17:D2:11:GLN:HE21	1.70	0.47
21:AV:67:LEU:HD21	21:AV:90:VAL:HG13	1.96	0.47
1:AA:332:A:O2'	1:AA:334:C:OP2	2.26	0.47
20:AU:75:ILE:CB	20:AU:80:GLY:H	2.28	0.47
20:AU:75:ILE:CG1	20:AU:80:GLY:H	2.28	0.47
31:BA:1381:U:H2'	31:BA:1381:U:O2	2.15	0.47
5:AF:110:LEU:O	5:AF:113:ALA:HB3	2.14	0.47
5:AF:24:LEU:O	5:AF:25:PRO:O	2.33	0.47
1:AA:2453:A:O2'	1:AA:2572:A:H1'	2.15	0.47
6:DG:75:LYS:HD2	6:DG:77:ILE:HD11	1.96	0.47
11:DO:79:ARG:HD3	11:DO:110:TYR:HE1	1.77	0.47
46:CS:21:VAL:O	46:CS:21:VAL:HG23	2.15	0.47
50:CW:45:GLN:HB2	50:CW:91:LEU:HD22	1.96	0.47
1:AA:2147:G:C8	1:AA:2147:G:C3'	2.97	0.47
31:BA:1502:A:O2'	31:BA:1503:A:OP1	2.23	0.47
1:AA:1827:C:H1'	1:AA:1970:A:O2'	2.15	0.47
55:DA:1906:G:C4	55:DA:1929:G:N2	2.83	0.47
42:CO:18:VAL:O	42:CO:19:ARG:HB2	2.14	0.47
37:CJ:45:ASP:O	37:CJ:49:ILE:HG12	2.15	0.47
35:CH:78:HIS:CB	38:CK:104:ARG:HG2	2.45	0.47
31:BA:1157:A:N6	31:BA:1180:A:N7	2.62	0.47
1:AA:395:U:H2'	1:AA:396:G:N7	2.30	0.47
53:C1:30:C:C6	53:C1:30:C:C3'	2.97	0.47
23:AZ:82:LEU:H	23:AZ:82:LEU:CD2	2.21	0.47
55:DA:857:C:H1'	22:D3:26:TYR:HE2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AM:56:ASN:HB3	9:AM:126:PRO:N	2.30	0.47
12:AP:105:GLU:HG3	12:AP:105:GLU:O	2.14	0.47
35:BH:144:THR:O	35:BH:147:ASP:OD2	2.33	0.47
35:BH:80:ILE:CD1	35:BH:82:VAL:HG23	2.44	0.47
31:BA:1053:G:N7	31:BA:1199:U:H3'	2.29	0.47
42:BO:35:GLY:HA3	42:BO:58:VAL:CG1	2.45	0.47
55:DA:684:G:C2	55:DA:774:A:C2	3.03	0.47
33:BF:148:GLY:CA	33:BF:203:PHE:HB3	2.43	0.47
53:C1:56:U:O2'	53:C1:57:U:O5'	2.33	0.47
55:DA:33:U:O2'	55:DA:34:C:P	2.73	0.47
1:AA:1061:U:O2'	1:AA:1070:A:O4'	2.33	0.47
55:DA:448:U:C4	55:DA:583:G:H1'	2.50	0.47
7:DH:2:SER:O	7:DH:3:ARG:C	2.53	0.47
1:AA:1202:C:N4	1:AA:1203:G:C6	2.83	0.47
1:AA:322:A:H3'	5:AF:169:ASN:ND2	2.28	0.47
1:AA:2468:G:OP1	12:AP:119:ARG:NH2	2.45	0.47
40:CM:49:VAL:CG1	40:CM:50:ILE:N	2.78	0.47
10:DN:79:PHE:HE2	10:DN:101:PRO:HB2	1.79	0.47
44:BQ:48:ALA:CA	44:BQ:53:LEU:HD12	2.44	0.47
54:CA:828:A:H5''	54:CA:859:A:C2	2.50	0.47
55:DA:528:A:C2	55:DA:2043:C:H4'	2.49	0.47
12:AP:37:LEU:HD21	12:AP:130:LYS:HD2	1.96	0.47
36:CI:99:ALA:O	48:CU:28:GLU:HA	2.14	0.47
1:AA:588:U:H2'	1:AA:589:C:H6	1.79	0.47
14:AQ:62:LYS:O	14:AQ:65:VAL:HB	2.15	0.47
1:AA:270(Q):C:H5'	8:AK:45:LYS:CE	2.44	0.47
34:CG:8:VAL:O	34:CG:11:LEU:N	2.45	0.47
19:DT:47:PHE:O	19:DT:48:LYS:C	2.53	0.47
1:AA:528:A:N1	1:AA:2042:A:H2'	2.28	0.47
31:BA:1297:C:OP2	31:BA:1297:C:H6	1.97	0.47
1:AA:1498:C:O4'	1:AA:1577:C:H4'	2.15	0.47
31:BA:209:U:HO2'	31:BA:210:U:P	2.35	0.47
31:BA:208:U:O2'	31:BA:209:U:OP1	2.28	0.47
1:AA:1937:A:HO2'	1:AA:1938:A:P	2.38	0.47
1:AA:1652:A:H62	13:A0:11:ASN:ND2	2.03	0.47
31:BA:126:G:H4'	31:BA:634:C:O2	2.15	0.47
1:AA:1151:G:H5''	16:A1:81:HIS:NE2	2.30	0.47
54:CA:184:G:O4'	54:CA:224:C:H4'	2.15	0.47
55:DA:2219:G:H2'	55:DA:2224:G:C5'	2.45	0.47
33:BF:76:VAL:CG2	33:BF:77:ILE:H	2.28	0.47
10:DN:5:GLN:O	10:DN:20:MET:CE	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:33:TYR:CD2	32:CE:43:ASP:HB2	2.48	0.47
33:CF:91:LEU:CD1	33:CF:101:LEU:HD12	2.43	0.47
54:CA:275:G:H5'	47:CT:14:LYS:HB3	1.95	0.47
14:DQ:3:ARG:CG	14:DQ:4:LEU:N	2.75	0.47
55:DA:510:C:O2'	55:DA:511:U:H5'	2.15	0.47
1:AA:2850:A:H5'	1:AA:2868:A:C2	2.49	0.47
14:AQ:103:GLU:O	14:AQ:106:ARG:HG3	2.15	0.47
14:AQ:83:LYS:HE2	14:AQ:84:GLN:HG3	1.96	0.47
55:DA:1710:C:H2'	55:DA:1711:C:C6	2.50	0.47
55:DA:1011:G:P	16:D1:77:SER:HG	2.38	0.47
54:CA:872:A:N1	54:CA:874:G:C6	2.82	0.47
52:BC:39:U:C2	52:BC:40:C:C5	3.03	0.47
12:DP:6:ARG:O	12:DP:7:MET:HB2	2.15	0.47
32:CE:41:ILE:HD12	32:CE:41:ILE:N	2.29	0.47
32:CE:60:ASP:HB3	32:CE:64:ARG:CZ	2.44	0.47
12:DP:140:ALA:CB	21:DV:53:ILE:HD11	2.43	0.47
1:AA:2330:G:H1'	22:A3:41:ARG:O	2.15	0.47
1:AA:2387:U:H1'	22:A3:41:ARG:HD2	1.96	0.47
16:D1:44:ASN:ND2	16:D1:44:ASN:N	2.59	0.47
55:DA:2273:A:C2'	55:DA:2274:A:H5'	2.44	0.47
55:DA:2618:G:H2'	55:DA:2619:C:C6	2.50	0.47
1:AA:370:G:O2'	1:AA:371:A:OP1	2.27	0.47
53:B1:42:U:H4'	53:B1:43:U:OP1	2.15	0.47
16:A1:28:ARG:NH1	16:A1:38:THR:OG1	2.47	0.47
1:AA:1011:G:OP1	16:A1:75:ASN:HB3	2.15	0.47
54:CA:328:C:C2'	54:CA:328:C:O2	2.63	0.47
55:DA:2408:U:O5'	55:DA:2408:U:H6	1.98	0.47
1:AA:2169:A:N3	1:AA:2169:A:H2'	2.30	0.47
1:AA:758:C:H2'	1:AA:758:C:O2	2.15	0.47
4:DE:179:GLU:HB3	4:DE:181:LEU:HD23	1.95	0.47
55:DA:2477:C:O5'	55:DA:2477:C:H6	1.97	0.47
43:BP:108:ARG:NH1	43:BP:108:ARG:HG3	2.30	0.47
2:AB:14:U:O2'	2:AB:107:U:H4'	2.15	0.47
37:CJ:122:HIS:O	37:CJ:125:MET:HB2	2.14	0.47
52:BB:5:G:H2'	52:BB:6:G:C8	2.46	0.47
54:CA:9:G:OP2	54:CA:9:G:O4'	2.33	0.47
1:AA:2037:G:H2'	1:AA:2038:G:H8	1.79	0.47
1:AA:233:A:O2'	1:AA:234:C:H5'	2.15	0.47
55:DA:471:A:O5'	55:DA:471:A:H8	1.98	0.47
1:AA:2672:G:H2'	1:AA:2673:G:H5''	1.97	0.47
54:CA:999:U:H2'	54:CA:1000:A:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:913:A:H1'	31:BA:914:A:O4'	2.15	0.47
34:CG:131:ARG:NH1	34:CG:131:ARG:HG3	2.28	0.47
33:CF:153:VAL:HG13	33:CF:196:LEU:HD12	1.95	0.47
55:DA:1458:C:H5''	55:DA:1459:G:O5'	2.15	0.47
38:BK:31:PHE:CE2	38:BK:35:ILE:HD11	2.49	0.47
7:DH:16:SER:O	7:DH:17:VAL:HG23	2.15	0.47
2:AB:58:A:H5'	2:AB:59:A:OP2	2.15	0.47
34:BG:200:GLU:O	34:BG:203:VAL:N	2.48	0.47
41:CN:78:GLN:O	41:CN:103:LEU:HA	2.15	0.47
23:DZ:15:ALA:O	23:DZ:40:ARG:HG3	2.14	0.47
1:AA:2861:G:O2'	1:AA:2862:G:H5'	2.15	0.47
55:DA:847:U:H5	55:DA:933:A:N1	2.12	0.47
55:DA:2737:G:H2'	55:DA:2738:A:C8	2.50	0.47
46:BS:75:ARG:HG3	46:BS:80:PHE:CD1	2.50	0.47
54:CA:41:G:H2'	54:CA:42:G:H8	1.80	0.47
54:CA:392:G:H2'	54:CA:393:A:C8	2.50	0.47
55:DA:321:G:O2'	55:DA:340:A:O2'	2.27	0.47
1:AA:1219:G:OP2	16:A1:19:LYS:NZ	2.48	0.47
55:DA:1978:A:H2'	55:DA:1979:C:C6	2.50	0.47
21:AV:73:GLN:HB3	21:AV:87:ASP:OD2	2.15	0.47
13:A0:103:ARG:HD3	13:A0:110:PRO:HA	1.95	0.47
22:D3:14:ARG:O	22:D3:15:ASP:HB2	2.13	0.47
35:BH:129:ILE:O	35:BH:132:ALA:HB3	2.15	0.47
55:DA:77:C:H5''	24:DW:10:LEU:HD11	1.97	0.47
2:DB:35:U:H2'	2:DB:36:C:C6	2.50	0.47
15:AR:108:ARG:O	15:AR:108:ARG:HG2	2.15	0.47
7:DH:137:ASP:O	7:DH:138:LYS:HB2	2.15	0.47
1:AA:345:A:O2'	1:AA:346:A:P	2.72	0.47
55:DA:2241:A:H2'	55:DA:2242:G:C8	2.49	0.47
23:AZ:15:ALA:HB2	23:AZ:42:GLN:OE1	2.14	0.47
10:DN:31:LYS:HB3	10:DN:32:TYR:CD1	2.50	0.47
42:CO:82:VAL:HG23	42:CO:106:ASP:OD2	2.14	0.47
31:BA:1370:G:O2'	31:BA:1371:G:H5'	2.14	0.47
2:AB:2:C:H2'	2:AB:3:C:H6	1.80	0.47
31:BA:1455:G:OP1	50:BW:35:THR:HG21	2.15	0.47
10:DN:12:ASP:C	10:DN:12:ASP:OD2	2.53	0.47
1:AA:2407:G:O5'	1:AA:2407:G:C8	2.68	0.47
47:CT:80:GLY:O	47:CT:82:MET:HG2	2.15	0.47
4:AE:93:VAL:C	4:AE:95:ILE:H	2.17	0.47
4:AE:93:VAL:HG21	4:AE:180:ASN:HA	1.97	0.47
55:DA:1071:G:N1	55:DA:1091:G:N7	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DI:24:ILE:O	56:DI:27:LEU:CB	2.61	0.47
56:DJ:14:GLN:H	56:DJ:17:VAL:HG23	1.79	0.47
57:DY:102:LYS:CD	57:DY:103:GLY:N	2.78	0.47
55:DA:1082:U:H2'	57:DY:41:ARG:CZ	2.45	0.47
57:DY:75:GLN:NE2	57:DY:75:GLN:CA	2.75	0.47
21:DV:192:ALA:O	21:DV:193:GLU:OE1	2.32	0.47
49:BV:67:VAL:C	49:BV:69:HIS:H	2.17	0.47
30:A8:36:LYS:HB2	30:A8:41:ILE:HG13	1.97	0.47
1:AA:957:A:N6	1:AA:959:A:C2	2.83	0.47
3:DD:133:LEU:HA	3:DD:136:ILE:HD13	1.97	0.47
40:BM:22:LYS:C	40:BM:22:LYS:HD2	2.35	0.47
30:A8:61:LEU:O	30:A8:62:LEU:C	2.53	0.47
54:CA:1037:C:H2'	54:CA:1038:C:C6	2.50	0.47
54:CA:1100:C:O2	54:CA:1102:A:H5'	2.14	0.47
54:CA:973:G:O4'	40:CM:55:LYS:HG2	2.15	0.47
17:A2:38:LEU:HD21	17:A2:57:VAL:HG13	1.97	0.47
17:A2:44:LYS:HG2	17:A2:45:THR:HG23	1.97	0.47
1:AA:1930:G:H2'	1:AA:1968:G:N1	2.30	0.47
30:D8:15:LYS:HD3	30:D8:16:ILE:N	2.30	0.47
1:AA:2753:A:C3'	1:AA:2754:U:H5''	2.44	0.47
1:AA:457:A:O2'	1:AA:458:G:OP2	2.30	0.47
55:DA:2702:U:H2'	55:DA:2702:U:O2	2.15	0.47
55:DA:2779:U:H5'	55:DA:2780:G:OP1	2.14	0.47
31:BA:1128:C:C4	31:BA:1139:G:C2	3.03	0.47
39:BL:3:GLN:CG	39:BL:20:ARG:NH1	2.77	0.47
33:CF:70:VAL:O	33:CF:106:VAL:HG23	2.15	0.47
33:CF:162:GLN:HG2	53:C1:54:U:O2	2.14	0.47
55:DA:2112:G:H1	55:DA:2169:A:N6	2.13	0.47
55:DA:2760:C:C2'	55:DA:2761:G:C5'	2.76	0.47
11:DO:31:ALA:O	11:DO:32:THR:HG22	2.15	0.47
54:CA:1176:A:N6	54:CA:1177:G:N1	2.63	0.47
22:D3:3:HIS:CG	22:D3:4:LYS:N	2.83	0.47
5:DF:63:LYS:HE2	5:DF:67:GLN:HB2	1.96	0.47
8:AK:100:ALA:O	8:AK:102:SER:N	2.48	0.47
21:AV:33:LEU:O	21:AV:34:ASN:HB2	2.15	0.47
1:AA:310:A:P	20:AU:18:GLY:HA2	2.54	0.47
55:DA:2481:G:O2'	55:DA:2482:G:P	2.73	0.47
1:AA:1819:A:OP1	3:AD:161:THR:HG21	2.13	0.47
1:AA:96:G:O5'	24:AW:48:HIS:ND1	2.45	0.47
24:AW:47:ASN:O	24:AW:50:ILE:HG13	2.14	0.47
31:BA:1161:C:H2'	31:BA:1162:C:H6	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BL:37:PHE:CE1	39:BL:74:ILE:HG12	2.49	0.47
54:CA:818:G:C3'	54:CA:819:A:C5'	2.93	0.47
8:DK:57:ARG:CA	8:DK:60:GLU:HB3	2.45	0.47
8:DK:64:GLU:HA	8:DK:64:GLU:OE1	2.14	0.47
54:CA:1095:U:OP1	54:CA:1108:G:N1	2.47	0.47
22:D3:50:ASN:O	22:D3:81:VAL:HG21	2.15	0.47
1:AA:640:C:O2'	1:AA:641:C:H5'	2.15	0.47
40:BM:48:THR:CB	40:BM:62:HIS:HB3	2.43	0.47
34:CG:60:GLU:OE2	34:CG:198:VAL:HA	2.15	0.47
42:BO:57:LYS:HG3	42:BO:67:THR:HG22	1.96	0.47
52:BB:7:A:C5'	52:BB:8:U:OP2	2.53	0.47
41:CN:21:ILE:HG13	41:CN:30:VAL:CG1	2.45	0.47
34:CG:23:GLY:O	34:CG:27:TYR:HD1	1.97	0.47
31:BA:198:G:O2'	31:BA:199:G:H5'	2.14	0.47
12:AP:21:THR:CG2	12:AP:100:GLY:HA3	2.41	0.47
12:AP:22:LYS:HD3	12:AP:101:ARG:NH1	2.30	0.47
12:DP:18:LYS:O	12:DP:19:GLY:C	2.53	0.47
1:AA:1291:C:C5'	1:AA:1536:A:H5''	2.44	0.47
55:DA:138:G:H5'	55:DA:138:G:N3	2.30	0.47
1:AA:2133:G:O2'	1:AA:2158:A:N1	2.45	0.47
54:CA:170:U:O2'	54:CA:171:A:H5'	2.15	0.47
37:BJ:38:LEU:O	37:BJ:42:ILE:HG13	2.14	0.47
31:BA:302:G:N3	31:BA:556:C:H4'	2.29	0.47
33:CF:23:TYR:O	33:CF:24:ALA:HB2	2.14	0.47
1:AA:1171:G:H1'	1:AA:1173:G:O4'	2.14	0.47
55:DA:3:U:C2	55:DA:4:C:C6	3.03	0.47
13:A0:63:ARG:HH11	13:A0:63:ARG:CB	2.24	0.47
55:DA:510:C:C2'	55:DA:511:U:H5'	2.44	0.47
39:CL:50:LEU:HD23	39:CL:85:LEU:CD2	2.44	0.47
55:DA:1579:A:H2'	55:DA:1580:A:O4'	2.15	0.47
55:DA:2717:G:O2'	15:DR:96:ARG:HD3	2.15	0.47
45:CR:74:ASP:OD2	45:CR:77:ARG:HD3	2.14	0.47
8:DK:29:TYR:O	8:DK:32:PRO:HD2	2.14	0.47
47:BT:67:LYS:HG2	47:BT:68:ARG:N	2.30	0.47
55:DA:572:A:OP2	17:D2:78:LYS:NZ	2.43	0.47
1:AA:2851:A:H2'	1:AA:2852:G:H8	1.80	0.47
1:AA:2852:G:O2'	1:AA:2853:C:H5'	2.14	0.47
7:DH:59:ARG:NH1	7:DH:59:ARG:HG3	2.27	0.47
8:AK:52:ARG:HG2	8:AK:52:ARG:HH11	1.80	0.47
1:AA:1297:C:H2'	1:AA:1298:C:H6	1.80	0.47
55:DA:2330:G:H2'	55:DA:2331:G:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BW:18:GLN:NE2	50:BW:22:ARG:HH12	2.13	0.47
24:DW:53:LEU:O	24:DW:57:ILE:HG13	2.14	0.47
16:A1:75:ASN:HB2	16:A1:78:THR:OG1	2.15	0.47
32:BE:172:ILE:H	32:BE:172:ILE:CD1	2.25	0.47
45:BR:33:THR:HG23	45:BR:63:ARG:NH1	2.29	0.47
1:AA:2113:U:H3'	1:AA:2114:A:H5'	1.96	0.47
2:AB:14:U:O2'	2:AB:107:U:C1'	2.62	0.47
8:DK:41:GLU:O	8:DK:45:LYS:HB2	2.15	0.47
15:AR:80:SER:HB3	15:AR:83:ILE:HG13	1.96	0.47
1:AA:1517:G:H2'	1:AA:1518:C:C6	2.50	0.47
55:DA:2740:A:N6	55:DA:2764:A:C8	2.82	0.47
34:BG:200:GLU:HG3	34:BG:201:GLN:H	1.80	0.47
55:DA:2243:U:O2	55:DA:2434:A:C2	2.68	0.47
1:AA:920:G:H2'	1:AA:921:G:H8	1.80	0.47
55:DA:1952:A:C6	55:DA:1953:A:N1	2.82	0.47
22:D3:14:ARG:HB2	22:D3:14:ARG:HE	1.23	0.47
3:DD:2:ALA:O	3:DD:3:VAL:HB	2.15	0.47
1:AA:988:A:H3'	25:AX:11:SER:OG	2.14	0.47
34:CG:151:LYS:HD3	34:CG:151:LYS:O	2.15	0.47
32:BE:158:LEU:HD12	32:BE:158:LEU:H	1.78	0.47
4:DE:134:ILE:HD12	4:DE:134:ILE:C	2.36	0.47
47:BT:95:TYR:HD1	47:BT:98:LEU:HD12	1.79	0.47
51:BX:2:GLY:C	51:BX:4:GLY:H	2.18	0.47
55:DA:1059:G:H3'	55:DA:1059:G:C8	2.50	0.47
56:DI:4:ASP:OD2	56:DI:5:ILE:CD1	2.62	0.47
49:BV:29:ARG:O	49:BV:30:LEU:CB	2.57	0.47
11:AO:52:GLU:HB2	11:AO:53:GLY:H	1.60	0.47
12:AP:78:PRO:O	12:AP:79:LEU:HG	2.15	0.47
32:CE:213:LEU:HD21	32:CE:217:ARG:HH11	1.78	0.47
3:DD:72:LYS:HB3	3:DD:75:ILE:HD12	1.96	0.47
6:AG:5:VAL:HG22	26:A4:25:TYR:CZ	2.50	0.47
54:CA:953:G:C5'	54:CA:965:A:H61	2.25	0.47
55:DA:2808:U:C2'	55:DA:2809:A:H5'	2.44	0.47
1:AA:1965:C:H2'	1:AA:1966:A:C8	2.48	0.47
11:DO:66:GLY:O	11:DO:67:MET:CB	2.63	0.47
34:BG:38:TYR:O	34:BG:38:TYR:HD2	1.98	0.47
39:BL:4:TYR:HA	39:BL:88:TYR:HE1	1.80	0.47
1:AA:1043:C:H42	1:AA:1112:G:H1	1.63	0.47
1:AA:2756:U:H1'	1:AA:2757:A:C8	2.50	0.47
1:AA:807:U:O2'	1:AA:808:G:H5'	2.15	0.47
52:CD:58:A:O2'	52:CD:59:U:OP1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2168:G:N2	55:DA:2170:A:OP2	2.47	0.47
43:CP:57:ARG:CB	43:CP:57:ARG:HH11	2.20	0.47
9:AM:30:ILE:CG2	9:AM:34:LEU:HD21	2.44	0.47
1:AA:1665:A:H2'	1:AA:1666:G:O4'	2.14	0.47
10:AN:98:VAL:HG12	10:AN:117:LEU:HB3	1.97	0.47
55:DA:2813:A:H2'	55:DA:2814:C:O4'	2.15	0.47
5:AF:116:ASP:OD2	11:AO:1:MET:N	2.47	0.47
5:AF:17:ARG:HG3	5:AF:17:ARG:HH11	1.80	0.47
11:DO:81:GLN:NE2	11:DO:106:LEU:O	2.48	0.47
55:DA:2444:G:OP2	5:DF:68:LYS:CE	2.63	0.47
37:BJ:118:VAL:HG23	37:BJ:119:ARG:N	2.30	0.47
12:DP:103:MET:HE1	12:DP:125:LEU:HD13	1.96	0.47
55:DA:1173:G:H4'	55:DA:1174:A:N1	2.30	0.47
31:BA:255:G:H2'	31:BA:256:U:H6	1.80	0.47
21:DV:10:ARG:NH2	21:DV:26:GLY:O	2.48	0.47
41:CN:81:ASP:O	41:CN:82:VAL:C	2.53	0.47
32:CE:69:LEU:CD1	32:CE:91:PRO:HB2	2.43	0.47
9:AM:62:VAL:CG2	9:AM:66:LYS:HG3	2.39	0.47
2:DB:29:A:H2'	2:DB:30:C:C6	2.50	0.47
43:BP:70:LEU:O	43:BP:74:VAL:HG23	2.15	0.47
55:DA:1188:U:H5'	17:D2:79:VAL:CG2	2.43	0.47
55:DA:1188:U:H2'	55:DA:1189:A:O5'	2.15	0.47
3:DD:177:LEU:HD12	3:DD:181:GLU:HG2	1.97	0.47
55:DA:705:A:C2	55:DA:727:A:H1'	2.50	0.47
55:DA:1511:A:H2'	55:DA:1512:G:H5'	1.97	0.47
13:D0:63:ARG:HA	13:D0:80:PHE:CZ	2.50	0.47
50:BW:26:ASN:HA	50:BW:29:LYS:HG2	1.96	0.47
21:AV:81:ARG:HD3	21:AV:81:ARG:O	2.15	0.47
48:CU:53:ARG:NH2	48:CU:59:SER:C	2.68	0.47
31:BA:691:G:O2'	31:BA:797:C:H4'	2.15	0.47
52:BD:70:G:H2'	52:BD:71:G:C8	2.50	0.47
55:DA:138:G:N2	19:DT:44:GLU:OE2	2.35	0.47
1:AA:2780:G:OP2	9:AM:118:LYS:HE2	2.15	0.47
31:BA:1296:C:H3'	31:BA:1297:C:H6	1.78	0.47
31:BA:560:U:O2'	31:BA:561:U:OP2	2.22	0.47
6:DG:68:PRO:HG2	6:DG:90:LEU:HD12	1.97	0.47
33:BF:78:GLY:HA3	33:BF:83:ARG:HB3	1.97	0.47
55:DA:28:A:N6	55:DA:512:G:H1'	2.28	0.47
11:AO:48:PRO:O	11:AO:51:PHE:N	2.47	0.47
19:AT:12:VAL:HG22	19:AT:17:ALA:HB2	1.97	0.47
14:DQ:62:LYS:HB3	14:DQ:97:ARG:CD	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CJ:73:MET:HG2	37:CJ:90:GLU:CA	2.42	0.47
24:AW:69:ARG:HB2	24:AW:69:ARG:CZ	2.45	0.47
1:AA:227:A:O2'	1:AA:228:A:P	2.73	0.47
1:AA:726:G:HO2'	1:AA:727:A:H8	1.62	0.47
1:AA:2102:U:O2'	1:AA:2103:C:H5'	2.15	0.47
54:CA:419:C:H2'	54:CA:420:U:H5'	1.96	0.47
1:AA:2389:G:H5''	1:AA:2390:U:O4'	2.15	0.47
37:CJ:78:ARG:HH11	37:CJ:78:ARG:HG3	1.80	0.47
1:AA:372:G:C2'	1:AA:373:U:OP2	2.62	0.47
53:B1:43:U:C2'	53:B1:44:U:H5'	2.45	0.47
55:DA:1225:C:O2'	17:D2:85:LYS:HA	2.15	0.47
13:A0:41:ALA:HB1	13:A0:97:VAL:CG1	2.45	0.47
1:AA:1093:G:O2'	1:AA:1094:U:H5'	2.15	0.47
3:AD:166:GLN:HE21	3:AD:166:GLN:HA	1.79	0.47
8:DK:82:ARG:O	8:DK:89:TYR:HD1	1.98	0.47
55:DA:95:G:H5'	24:DW:46:GLN:OE1	2.15	0.47
18:AS:20:VAL:O	18:AS:21:VAL:C	2.53	0.47
18:AS:75:TYR:CE2	18:AS:104:THR:HB	2.50	0.47
16:D1:107:ALA:O	16:D1:110:VAL:HB	2.14	0.47
4:AE:39:PRO:HA	4:AE:43:GLY:N	2.29	0.47
1:AA:2279:G:N2	1:AA:2280:G:H1'	2.30	0.47
11:AO:138:LEU:HD12	11:AO:139:LYS:N	2.30	0.47
31:BA:641:U:C4'	31:BA:642:A:OP1	2.62	0.47
54:CA:1137:C:O2'	54:CA:1138:G:N3	2.47	0.47
52:CC:2:C:H2'	52:CC:3:C:C6	2.50	0.47
31:BA:22:G:H2'	31:BA:23:C:H6	1.80	0.47
1:AA:1287:A:OP1	13:A0:105:ARG:O	2.33	0.47
54:CA:1473:A:O2'	54:CA:1474:G:H5'	2.14	0.47
31:BA:1506:U:O2'	31:BA:1507:A:P	2.73	0.47
12:AP:26:TYR:O	12:AP:27:VAL:C	2.52	0.47
1:AA:471:A:H8	1:AA:471:A:O5'	1.97	0.47
14:DQ:25:ARG:CB	14:DQ:25:ARG:HH11	2.27	0.47
14:DQ:25:ARG:HB3	14:DQ:25:ARG:HH11	1.80	0.47
31:BA:916:G:H2'	31:BA:916:G:N3	2.30	0.47
55:DA:65:C:H2'	55:DA:66:C:H6	1.78	0.47
52:CC:68:C:H2'	52:CC:69:G:C8	2.50	0.47
1:AA:21:A:O2'	1:AA:22:C:H5'	2.14	0.47
54:CA:602:A:H2'	54:CA:603:U:C6	2.50	0.47
58:DL:10:LEU:HG	58:DL:55:VAL:HG11	1.97	0.47
58:DL:20:ALA:CB	58:DL:21:PRO:CD	2.91	0.47
58:DL:21:PRO:O	58:DL:24:GLY:C	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:52:ILE:CG1	58:DL:76:TYR:CA	2.93	0.47
58:DL:77:LEU:HB3	58:DL:107:ILE:HD13	1.96	0.47
57:DY:38:HIS:O	57:DY:96:PHE:HZ	1.97	0.47
21:AV:108:PRO:HB2	21:AV:141:VAL:O	2.02	0.47
1:AA:2348:U:H4'	28:A6:42:TRP:CD1	2.49	0.47
1:AA:865:C:O2	1:AA:865:C:H2'	2.14	0.47
11:AO:31:ALA:C	11:AO:32:THR:HG23	2.35	0.47
3:DD:25:THR:O	3:DD:26:LYS:C	2.53	0.47
26:A4:24:THR:O	26:A4:25:TYR:HB2	2.15	0.47
8:AK:144:VAL:O	8:AK:145:VAL:CG2	2.62	0.47
14:DQ:100:ALA:O	14:DQ:103:GLU:HG2	2.15	0.47
55:DA:1485:G:H2'	55:DA:1486:A:O5'	2.15	0.47
55:DA:1177:A:H5''	55:DA:1178:C:H5''	1.97	0.47
28:D6:47:THR:HG22	28:D6:48:VAL:H	1.78	0.47
1:AA:610:C:H2'	1:AA:611:C:H6	1.80	0.47
32:CE:55:PHE:HA	32:CE:58:ILE:HG12	1.97	0.47
16:A1:33:ARG:O	16:A1:37:GLU:HG3	2.14	0.47
34:CG:172:PRO:HD2	34:CG:173:TRP:CZ3	2.50	0.47
55:DA:2012:G:H4'	18:DS:96:ILE:CD1	2.45	0.47
52:BD:24:G:C2'	52:BD:25:C:H5'	2.45	0.47
31:BA:953:G:H2'	31:BA:954:G:O4'	2.14	0.47
6:DG:177:GLY:O	6:DG:179:PRO:HD3	2.15	0.47
54:CA:1157:A:C2	54:CA:1181:G:H1'	2.50	0.47
54:CA:1178:G:N7	54:CA:1180:A:OP2	2.48	0.47
54:CA:255:G:O4'	47:CT:16:GLN:HB2	2.15	0.47
20:AU:81:LYS:O	20:AU:96:ILE:HG22	2.15	0.47
37:BJ:78:ARG:HD2	37:BJ:79:ARG:H	1.80	0.47
15:AR:118:ARG:NH1	31:BA:1446:A:C6	2.83	0.47
31:BA:570:G:C6	31:BA:873:A:C2	3.03	0.47
9:DM:15:LEU:HB2	9:DM:134:ARG:HB2	1.95	0.47
54:CA:129(A):G:N3	54:CA:188:U:O2'	2.47	0.47
9:AM:132:ALA:O	9:AM:133:GLN:C	2.53	0.47
13:A0:94:TYR:O	13:A0:117:VAL:HG12	2.15	0.47
24:AW:32:LEU:HB2	24:AW:53:LEU:HD13	1.96	0.47
4:AE:199:ARG:CZ	4:AE:199:ARG:HB2	2.45	0.47
1:AA:608:A:N1	1:AA:621:A:N7	2.63	0.47
15:DR:23:ARG:HG2	15:DR:120:ARG:NH1	2.30	0.47
1:AA:1455:G:C2	1:AA:1456:G:C8	3.03	0.47
55:DA:1173:G:N3	55:DA:1175:U:C5	2.83	0.47
11:AO:95:VAL:HA	11:AO:99:LEU:HD23	1.97	0.47
21:DV:33:LEU:HD23	21:DV:90:VAL:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B1:52:U:C2'	53:B1:53:U:O5'	2.63	0.47
55:DA:1110:G:H2'	55:DA:1111:A:H8	1.80	0.47
1:AA:1204:A:C2	1:AA:1206:G:N2	2.83	0.47
1:AA:322:A:H2	1:AA:339:U:O4	1.98	0.47
50:CW:87:LYS:O	50:CW:88:VAL:C	2.52	0.47
40:BM:50:ILE:HA	40:BM:60:ARG:HB2	1.97	0.47
3:DD:89:SER:C	3:DD:159:ALA:HB2	2.35	0.47
33:CF:6:HIS:HB3	44:CQ:49:HIS:CD2	2.50	0.47
55:DA:991:C:H2'	55:DA:992:C:C6	2.49	0.47
13:A0:31:HIS:C	13:A0:33:ARG:H	2.18	0.47
31:BA:686:U:O2'	31:BA:687:A:O5'	2.33	0.47
54:CA:430:A:H2'	54:CA:431:A:C5'	2.44	0.47
1:AA:2212:A:H1'	1:AA:2215:G:C5	2.50	0.47
31:BA:209:U:O2	31:BA:209:U:H2'	2.13	0.47
3:DD:134:ARG:HD2	3:DD:188:GLU:OE2	2.15	0.47
1:AA:999:U:C2'	1:AA:1000:A:C5'	2.88	0.47
54:CA:140:A:H2'	54:CA:141:A:O4'	2.14	0.47
55:DA:2426:A:HO2'	55:DA:2427:C:P	2.38	0.47
54:CA:644:G:H2'	54:CA:645:C:C5'	2.44	0.47
1:AA:923:C:H2'	1:AA:924:C:H6	1.80	0.47
54:CA:262:A:C6	54:CA:263:A:N6	2.82	0.47
5:DF:23:ASP:O	5:DF:24:LEU:O	2.32	0.47
1:AA:2262:U:H4'	1:AA:2328:A:C2	2.50	0.47
38:BK:63:LEU:HB2	38:BK:65:TYR:CE1	2.50	0.47
31:BA:802:A:H2'	31:BA:803:G:O4'	2.15	0.47
54:CA:1528:U:O2'	54:CA:1529:G:P	2.73	0.47
34:CG:43:HIS:HA	34:CG:46:LYS:HG2	1.97	0.47
12:DP:42:ILE:HD13	12:DP:97:VAL:HG21	1.96	0.47
39:CL:65:VAL:C	39:CL:66:ARG:HG3	2.36	0.47
2:AB:78:A:H3'	2:AB:79:C:C6	2.50	0.47
1:AA:3:U:C2	1:AA:4:C:C6	3.03	0.47
14:AQ:52:SER:O	14:AQ:56:LEU:HD21	2.15	0.47
55:DA:2186:G:H2'	55:DA:2187:G:C8	2.50	0.47
1:AA:1517:G:H2'	1:AA:1518:C:H6	1.80	0.47
34:BG:59:ARG:NH2	34:BG:66:ARG:NH1	2.63	0.47
37:CJ:17:VAL:HG12	37:CJ:18:TYR:CD1	2.50	0.47
34:BG:209:ARG:HG3	34:BG:209:ARG:HH11	1.80	0.47
13:A0:28:LEU:HD22	13:A0:28:LEU:O	2.14	0.47
37:BJ:131:LYS:HZ3	37:BJ:131:LYS:HB2	1.79	0.47
55:DA:2097:C:C2'	55:DA:2098:U:H5'	2.45	0.47
27:A5:6:VAL:HG22	27:A5:7:PRO:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:595:G:N1	31:BA:641:U:H2'	2.30	0.47
1:AA:55:G:O2'	1:AA:127:A:N1	2.35	0.47
31:BA:1387:G:C4	31:BA:1388:C:C5	3.03	0.47
14:AQ:48:LEU:CD2	14:AQ:82:ILE:HD11	2.45	0.47
54:CA:15:G:H4'	35:CH:24:ARG:NH1	2.29	0.47
1:AA:1412:A:H2'	1:AA:1413:G:C8	2.49	0.47
1:AA:824:A:H1'	1:AA:2358:G:N7	2.30	0.47
3:AD:263:ARG:HB2	3:AD:263:ARG:CZ	2.43	0.47
52:BC:37:MIA:N3	52:BC:37:MIA:H2'	2.30	0.47
55:DA:1079:C:C2'	55:DA:1080:A:C8	2.98	0.46
55:DA:1091:G:H2'	55:DA:1092:C:H5'	1.97	0.46
55:DA:1092:C:C2'	55:DA:1093:G:H5'	2.45	0.46
56:DI:8:ILE:O	56:DI:11:GLU:N	2.49	0.46
58:DL:56:GLU:HG2	58:DL:57:ILE:O	2.15	0.46
57:DY:75:GLN:HB2	57:DY:111:LEU:HA	1.90	0.46
43:CP:119:GLY:CA	43:CP:120:LYS:HD3	2.44	0.46
26:A4:58:ARG:HG3	26:A4:59:PHE:N	2.29	0.46
31:BA:1014:A:H4'	49:BV:14:HIS:CE1	2.50	0.46
1:AA:2419:U:O4	30:A8:31:HIS:CE1	2.67	0.46
49:CV:5:LEU:C	49:CV:5:LEU:HD12	2.34	0.46
1:AA:1359:A:C5'	1:AA:1359:A:H8	2.25	0.46
1:AA:910:A:H2	1:AA:2264:C:O2	1.97	0.46
1:AA:917:A:C2	1:AA:918:A:H1'	2.50	0.46
2:AB:94:C:C2'	2:AB:95:U:H5'	2.46	0.46
3:DD:83:GLU:HG3	3:DD:92:ILE:CD1	2.44	0.46
3:DD:96:HIS:ND1	3:DD:102:LYS:HG2	2.29	0.46
31:BA:1327:C:H2'	31:BA:1328:C:C6	2.49	0.46
27:D5:50:GLY:O	27:D5:51:TYR:HB2	2.14	0.46
27:D5:58:LEU:C	27:D5:60:VAL:H	2.19	0.46
30:A8:50:LEU:CD1	30:A8:53:PRO:O	2.63	0.46
20:DU:49:VAL:HG11	20:DU:50:ARG:NH2	2.30	0.46
4:DE:26:ILE:HG13	4:DE:196:VAL:HG21	1.96	0.46
16:A1:98:LEU:O	16:A1:99:ALA:HB3	2.15	0.46
1:AA:1342:A:OP2	19:AT:56:THR:O	2.33	0.46
1:AA:454:A:HO2'	1:AA:455:C:P	2.39	0.46
1:AA:448:U:C4	1:AA:583:G:H1'	2.50	0.46
1:AA:2553:G:H2'	1:AA:2554:U:C4'	2.45	0.46
34:BG:26:CYS:SG	34:BG:31:CYS:O	2.73	0.46
34:BG:4:TYR:HE2	34:BG:7:PRO:O	1.98	0.46
17:A2:85:LYS:CG	17:A2:86:GLY:N	2.78	0.46
9:DM:114:ARG:O	9:DM:115:ARG:HB3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DH:124:GLU:CB	7:DH:132:ARG:HG3	2.45	0.46
1:AA:2759:G:H8	1:AA:2759:G:H5'	1.80	0.46
54:CA:1453:G:H2'	50:CW:39:LYS:NZ	2.28	0.46
32:CE:165:VAL:HG23	32:CE:166:ASP:N	2.25	0.46
31:BA:1006:C:O2'	31:BA:1007:C:H5'	2.14	0.46
11:DO:85:LEU:CD2	11:DO:114:ILE:HD12	2.45	0.46
53:C1:52:U:H2'	53:C1:53:U:C5'	2.45	0.46
43:CP:19:LEU:N	43:CP:19:LEU:HD22	2.30	0.46
12:DP:90:VAL:CG1	12:DP:91:GLU:N	2.78	0.46
1:AA:1019:U:O2'	1:AA:1021:A:C2	2.63	0.46
9:AM:63:THR:O	9:AM:64:GLY:O	2.32	0.46
20:AU:84:ARG:HB3	20:AU:95:LYS:CE	2.45	0.46
20:AU:97:ARG:NH1	20:AU:97:ARG:HG2	2.30	0.46
24:AW:56:GLN:O	24:AW:60:LEU:CD1	2.64	0.46
55:DA:802:A:C2'	55:DA:803:U:H5''	2.45	0.46
24:AW:46:GLN:C	24:AW:49:LYS:HE3	2.35	0.46
37:CJ:23:VAL:HG13	37:CJ:43:PHE:CE2	2.50	0.46
55:DA:330:A:H2	55:DA:1210:A:H2'	1.79	0.46
48:BU:25:THR:O	48:BU:25:THR:HG22	2.15	0.46
53:C1:31:A:O2'	53:C1:32:A:OP1	2.33	0.46
55:DA:858:U:O2'	55:DA:2268:A:C2'	2.64	0.46
55:DA:2543:G:H2'	55:DA:2544:G:O4'	2.16	0.46
54:CA:1534:A:C2	53:C1:39:U:C2	3.03	0.46
50:BW:53:LEU:HD12	50:BW:100:ILE:O	2.15	0.46
53:C1:55:U:O2'	53:C1:56:U:C2	2.69	0.46
43:BP:68:GLY:HA2	43:BP:71:ARG:HB3	1.96	0.46
33:BF:13:GLY:HA2	44:BQ:57:ARG:CZ	2.45	0.46
33:BF:29:TYR:OH	44:BQ:54:PRO:HD2	2.14	0.46
52:CC:36:A:H2'	52:CC:37:MIA:O4'	2.15	0.46
31:BA:923:A:H2'	31:BA:924:C:C6	2.49	0.46
1:AA:2780:G:O2'	1:AA:2781:A:P	2.73	0.46
15:DR:18:ASP:N	15:DR:18:ASP:OD1	2.48	0.46
54:CA:1148:U:C2'	54:CA:1149:C:H5'	2.45	0.46
1:AA:1288:U:H4'	1:AA:1289:C:OP2	2.15	0.46
11:AO:38:GLN:HG2	11:AO:45:LEU:HD13	1.97	0.46
22:A3:74:ARG:HG2	22:A3:75:LEU:CD2	2.44	0.46
22:A3:43:THR:C	22:A3:45:PHE:N	2.68	0.46
33:BF:79:ARG:C	33:BF:81:GLY:H	2.18	0.46
11:AO:23:PRO:O	11:AO:24:GLY:C	2.52	0.46
1:AA:2314:C:C2'	1:AA:2315:G:H5'	2.45	0.46
48:BU:62:GLU:HA	48:BU:65:ILE:CG1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1032(A):G:H2'	31:BA:1032(B):G:C8	2.50	0.46
41:BN:95:ILE:HG21	41:BN:108:ILE:HD13	1.97	0.46
58:DL:98:ARG:HB3	58:DL:98:ARG:CZ	2.45	0.46
6:DG:118:ARG:NE	6:DG:118:ARG:HA	2.28	0.46
54:CA:1270:C:O2'	54:CA:1314:C:H5'	2.14	0.46
53:B1:43:U:H2'	53:B1:44:U:C5'	2.45	0.46
8:DK:69:LYS:HG3	8:DK:136:VAL:CB	2.43	0.46
33:BF:3:ASN:N	33:BF:3:ASN:OD1	2.48	0.46
55:DA:1730:U:H3'	55:DA:1730:U:H6	1.79	0.46
15:AR:74:ARG:HG2	15:AR:74:ARG:HH11	1.78	0.46
37:BJ:57:GLU:OE2	37:BJ:60:LYS:HD3	2.15	0.46
55:DA:2688:U:O2	55:DA:2688:U:H3'	2.15	0.46
39:BL:47:LEU:CD1	39:BL:47:LEU:N	2.78	0.46
31:BA:191(F):U:H2'	31:BA:191:G:C5'	2.44	0.46
1:AA:2038:G:H2'	1:AA:2039:C:O4'	2.15	0.46
55:DA:2803:C:O2'	55:DA:2804:C:H5'	2.15	0.46
4:AE:203:LYS:O	4:AE:204:ALA:CB	2.63	0.46
33:CF:120:VAL:HB	33:CF:198:VAL:HG11	1.95	0.46
18:AS:69:LEU:HA	18:AS:108:GLY:O	2.15	0.46
31:BA:24:U:H2'	31:BA:25:C:H6	1.80	0.46
55:DA:2850:A:H2	13:D0:61:HIS:CG	2.33	0.46
31:BA:641:U:H5''	31:BA:642:A:OP1	2.15	0.46
20:AU:21:LYS:O	20:AU:21:LYS:CG	2.62	0.46
1:AA:1640:C:H2'	1:AA:1641:A:O4'	2.13	0.46
1:AA:742:G:O2'	1:AA:743:G:H5'	2.15	0.46
6:DG:91:ARG:HG2	6:DG:92:VAL:N	2.30	0.46
54:CA:1091:U:H2'	54:CA:1093:A:OP2	2.16	0.46
33:BF:145:GLY:O	33:BF:146:ALA:O	2.33	0.46
18:DS:22:ASP:HA	18:DS:25:ARG:HH12	1.79	0.46
55:DA:1637:A:H4'	55:DA:2711:A:O2'	2.15	0.46
54:CA:1404:C:H6	54:CA:1404:C:O5'	1.97	0.46
50:BW:58:LYS:O	50:BW:58:LYS:HD3	2.15	0.46
45:CR:37:ASN:HD22	45:CR:37:ASN:N	2.13	0.46
29:D7:36:GLN:HG2	29:D7:36:GLN:O	2.14	0.46
32:CE:25:ASN:ND2	32:CE:193:ASP:HB3	2.31	0.46
55:DA:1103:A:H5'	55:DA:1103:A:H8	1.80	0.46
58:DL:105:LEU:CD1	58:DL:106:GLU:N	2.53	0.46
58:DL:52:ILE:CG1	58:DL:53:VAL:N	2.74	0.46
55:DA:1107:G:OP1	57:DY:54:ALA:HA	2.15	0.46
21:AV:175:VAL:CG2	21:AV:176:PRO:CD	2.93	0.46
31:BA:977:A:N6	31:BA:1224:G:OP1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:948:C:O2'	31:BA:949:A:H5'	2.16	0.46
26:A4:63:TYR:HH	49:BV:39:THR:HB	1.74	0.46
49:BV:42:PRO:HA	49:BV:45:VAL:CG2	2.44	0.46
1:AA:2288:A:H5''	1:AA:2289:G:OP2	2.16	0.46
1:AA:1357:U:H2'	1:AA:1358:G:O4'	2.15	0.46
3:DD:136:ILE:CG2	3:DD:165:ILE:HD12	2.46	0.46
2:AB:40:U:N3	2:AB:43:C:OP2	2.47	0.46
51:BX:9:ARG:CZ	51:BX:10:ARG:HA	2.46	0.46
54:CA:1004:A:O5'	54:CA:1025:U:O4	2.32	0.46
8:AK:123:LEU:HD22	8:AK:143:SER:CB	2.43	0.46
55:DA:2284:C:H41	28:D6:25:LYS:HZ1	1.63	0.46
55:DA:2346:A:HO2'	55:DA:2347:C:P	2.38	0.46
1:AA:2612:C:C5	1:AA:2613:U:H5	2.32	0.46
1:AA:1311:G:N2	1:AA:1603:A:H62	2.12	0.46
20:DU:91:GLU:HG3	20:DU:92:ASN:OD1	2.15	0.46
5:AF:80:ALA:O	5:AF:83:PHE:HB2	2.14	0.46
34:BG:10:ARG:HH11	34:BG:10:ARG:HG3	1.80	0.46
34:BG:18:LYS:HG2	34:BG:21:LEU:HD21	1.96	0.46
16:A1:46:ALA:O	16:A1:47:TYR:C	2.53	0.46
17:A2:85:LYS:HG3	17:A2:86:GLY:N	2.26	0.46
1:AA:2311:A:H2'	1:AA:2312:U:C6	2.51	0.46
1:AA:2807:G:C6	1:AA:2893:G:O6	2.68	0.46
4:AE:47:VAL:HG23	4:AE:84:PHE:HB3	1.96	0.46
4:AE:35:GLN:CG	4:AE:64:LYS:HZ2	2.20	0.46
55:DA:527:C:OP2	55:DA:2779:U:C4	2.68	0.46
31:BA:1530:G:H2'	31:BA:1531:A:N7	2.30	0.46
33:BF:134:ILE:HG21	33:BF:168:ALA:HB3	1.97	0.46
42:BO:41:ARG:HB3	42:BO:42:THR:H	1.63	0.46
31:BA:167:G:O2'	31:BA:168:G:H5'	2.15	0.46
43:CP:11:ARG:CB	43:CP:11:ARG:NH1	2.77	0.46
23:AZ:76:ARG:CB	23:AZ:94:LEU:HD13	2.45	0.46
20:AU:97:ARG:NH2	20:AU:98:VAL:HB	2.10	0.46
55:DA:1535:U:C4	55:DA:1537:C:O2	2.68	0.46
55:DA:1535:U:H3'	55:DA:1536:A:C5'	2.45	0.46
3:AD:35:LYS:HD3	3:AD:63:ARG:CG	2.44	0.46
14:DQ:5:THR:HG23	14:DQ:8:GLU:OE2	2.14	0.46
50:CW:49:ALA:CB	50:CW:99:LEU:HB2	2.43	0.46
1:AA:72:U:C4	1:AA:112:U:H4'	2.50	0.46
55:DA:1906:G:N1	55:DA:1907:G:C5	2.83	0.46
54:CA:687:A:H4'	54:CA:688:G:O5'	2.15	0.46
54:CA:687:A:O2'	54:CA:688:G:P	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1158:C:C2'	31:BA:1158:C:O2	2.64	0.46
39:BL:40:LEU:HD11	39:BL:70:LYS:CG	2.41	0.46
55:DA:1826:G:H2'	55:DA:1827:C:C6	2.50	0.46
53:C1:30:C:C4	53:C1:31:A:C8	3.03	0.46
53:C1:33:G:H2'	53:C1:34:G:N7	2.30	0.46
55:DA:2675:A:H61	55:DA:2732:G:H1	1.62	0.46
35:BH:82:VAL:HG21	35:BH:141:GLN:NE2	2.30	0.46
55:DA:297:C:H2'	55:DA:298:G:O4'	2.15	0.46
52:BB:8:U:O2'	52:BB:9:A:C5'	2.63	0.46
1:AA:2050:C:H2'	1:AA:2051:A:O4'	2.15	0.46
54:CA:1324:A:H2'	54:CA:1325:C:H6	1.79	0.46
55:DA:1652:A:O3'	55:DA:1653:G:C8	2.68	0.46
7:DH:62:LYS:O	7:DH:65:HIS:HB3	2.15	0.46
33:BF:11:ARG:O	33:BF:13:GLY:N	2.47	0.46
33:CF:11:ARG:HB3	33:CF:14:ILE:O	2.15	0.46
12:AP:21:THR:O	12:AP:22:LYS:C	2.53	0.46
11:AO:33:ARG:O	11:AO:34:GLY:O	2.33	0.46
17:A2:61:VAL:CG1	17:A2:62:LEU:H	2.26	0.46
53:B1:57:U:C2'	53:B1:57:U:O2	2.63	0.46
34:CG:9:CYS:SG	34:CG:26:CYS:SG	3.12	0.46
19:DT:44:GLU:CB	19:DT:49:VAL:O	2.63	0.46
46:BS:53:VAL:HG23	46:BS:54:GLU:N	2.30	0.46
52:CD:2:C:OP1	52:CD:2:C:C4'	2.63	0.46
32:BE:83:MET:SD	32:BE:234:PRO:HG2	2.55	0.46
39:CL:9:ARG:HB3	39:CL:14:VAL:HG13	1.97	0.46
1:AA:2813:A:H2'	1:AA:2814:C:O4'	2.15	0.46
39:CL:45:ALA:HA	39:CL:48:GLU:CD	2.35	0.46
39:CL:46:ALA:HA	39:CL:78:LYS:HB2	1.97	0.46
55:DA:2198:A:HO2'	55:DA:2199:A:P	2.38	0.46
42:CO:20:LYS:CD	42:CO:20:LYS:H	2.18	0.46
20:AU:28:LYS:O	20:AU:29:GLU:O	2.32	0.46
1:AA:224:G:N7	1:AA:420:C:H4'	2.30	0.46
1:AA:2033:A:H2'	1:AA:2035:G:OP2	2.15	0.46
55:DA:1578:U:H2'	55:DA:1579:A:C5'	2.45	0.46
31:BA:1021:G:H5'	31:BA:1021:G:H8	1.79	0.46
18:DS:73:ALA:HB3	18:DS:106:ILE:HD11	1.98	0.46
38:CK:111:ILE:HG22	38:CK:112:LEU:H	1.80	0.46
38:CK:36:LEU:O	38:CK:39:LEU:HB2	2.14	0.46
1:AA:2695:C:H2'	1:AA:2696:U:H6	1.80	0.46
1:AA:2281:C:O2'	1:AA:2282:G:H5'	2.15	0.46
12:DP:29:PHE:N	12:DP:105:GLU:OE2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:DP:26:TYR:O	12:DP:27:VAL:CB	2.61	0.46
47:BT:8:GLY:HA3	47:BT:21:VAL:HG12	1.97	0.46
54:CA:719:C:O2	48:CU:50:ILE:HD13	2.15	0.46
10:AN:49:ARG:NH1	31:BA:1422:G:O3'	2.49	0.46
1:AA:1825:A:C4'	3:AD:254:THR:HG21	2.44	0.46
22:D3:53:MET:HB3	22:D3:59:LEU:CD2	2.46	0.46
32:BE:194:PRO:HG2	32:BE:195:ASP:OD1	2.15	0.46
32:BE:196:LEU:HD12	32:BE:197:VAL:HG23	1.97	0.46
2:AB:105:G:O2'	2:AB:106:G:H5'	2.15	0.46
14:AQ:56:LEU:HG	14:AQ:58:LEU:HD22	1.98	0.46
32:CE:16:HIS:CD2	32:CE:210:SER:HA	2.47	0.46
4:AE:15:PHE:CB	15:AR:81:PRO:HG2	2.44	0.46
48:CU:82:THR:HG22	48:CU:83:GLU:N	2.30	0.46
18:DS:60:ASN:N	18:DS:60:ASN:ND2	2.64	0.46
1:AA:554:U:HO2'	1:AA:556:G:H8	1.57	0.46
52:CB:51:U:H2'	52:CB:52:G:C8	2.49	0.46
15:DR:29:ARG:NH1	15:DR:29:ARG:HB2	2.30	0.46
32:BE:126:GLU:C	32:BE:128:GLU:N	2.69	0.46
55:DA:76:C:OP1	24:DW:55:ARG:HD3	2.15	0.46
5:AF:156:LEU:HD21	5:AF:163:VAL:HG12	1.97	0.46
55:DA:723:G:H2'	55:DA:724:U:O4'	2.15	0.46
31:BA:513:C:H2'	31:BA:514:C:H6	1.80	0.46
29:A7:17:GLY:O	29:A7:21:ARG:HG2	2.16	0.46
1:AA:2876:G:H4'	15:AR:2:ASN:O	2.16	0.46
55:DA:1059:G:C3'	55:DA:1059:G:C8	2.99	0.46
56:DJ:21:LYS:O	56:DJ:24:ILE:N	2.49	0.46
57:DY:89:ALA:CA	57:DY:92:THR:HB	2.45	0.46
43:CP:125:ARG:HD3	43:CP:126:LYS:N	2.23	0.46
55:DA:1360:A:H2'	55:DA:1361:G:O4'	2.14	0.46
2:AB:94:C:H2'	2:AB:95:U:O4'	2.16	0.46
2:AB:83:G:H5"	25:AX:52:HIS:CE1	2.49	0.46
3:DD:72:LYS:HG2	3:DD:103:ARG:HH22	1.80	0.46
3:DD:35:LYS:NZ	3:DD:65:ILE:HA	2.31	0.46
26:A4:35:VAL:HG23	26:A4:37:SER:H	1.80	0.46
6:AG:135:LEU:CD1	6:AG:135:LEU:N	2.78	0.46
43:BP:8:GLU:OE2	43:BP:22:ILE:HA	2.14	0.46
49:BV:6:LYS:NZ	49:BV:10:PHE:HZ	2.12	0.46
40:BM:33:GLN:H	40:BM:75:ILE:CG1	2.28	0.46
30:A8:52:LYS:H	30:A8:53:PRO:HD2	1.81	0.46
54:CA:1003:G:C8	54:CA:1003:G:H5'	2.51	0.46
54:CA:1003:G:N2	54:CA:1004:A:O2'	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:498:G:N2	20:DU:47:LYS:HZ1	2.13	0.46
40:CM:54:PHE:CE1	40:CM:55:LYS:NZ	2.79	0.46
21:DV:162:GLU:CG	21:DV:163:LEU:H	2.28	0.46
15:DR:91:ARG:HB2	15:DR:121:ILE:CG1	2.41	0.46
16:A1:108:GLU:C	16:A1:110:VAL:N	2.68	0.46
16:A1:113:ALA:C	16:A1:115:ALA:H	2.18	0.46
17:A2:96:ILE:HG22	17:A2:99:ILE:HD11	1.97	0.46
1:AA:1257:C:H4'	5:AF:83:PHE:CE2	2.51	0.46
16:A1:50:ARG:HH11	17:A2:72:VAL:HG21	1.80	0.46
9:DM:97:ARG:HA	9:DM:100:GLU:HB3	1.96	0.46
31:BA:1128:C:C2	31:BA:1139:G:C6	3.03	0.46
31:BA:1277:C:HO2'	31:BA:1279:A:H1'	1.80	0.46
1:AA:1033:U:O2	1:AA:2750:A:C2	2.67	0.46
1:AA:2517:C:HO2'	1:AA:2518:A:H3'	1.75	0.46
45:CR:82:ILE:CG2	45:CR:83:GLU:H	2.27	0.46
11:DO:135:LEU:O	11:DO:136:GLU:C	2.53	0.46
21:DV:9:TYR:CZ	21:DV:61:LEU:HD21	2.50	0.46
4:DE:15:PHE:CE1	4:DE:20:ALA:HB2	2.50	0.46
6:DG:125:PHE:HE1	6:DG:180:PHE:HE2	1.63	0.46
54:CA:254:G:H21	47:CT:16:GLN:HE21	1.62	0.46
54:CA:1308:U:OP1	43:CP:98:VAL:N	2.48	0.46
21:AV:2:GLU:OE2	21:AV:4:ARG:NH2	2.47	0.46
55:DA:1932:A:H2'	55:DA:1933:G:O4'	2.15	0.46
32:BE:12:GLU:OE1	32:BE:16:HIS:HB2	2.15	0.46
46:CS:2:VAL:HG22	46:CS:3:LYS:N	2.31	0.46
50:CW:89:ARG:O	50:CW:93:GLU:N	2.48	0.46
1:AA:2111:C:OP2	1:AA:2145:C:N4	2.49	0.46
55:DA:2469:A:O4'	55:DA:2469:A:N3	2.47	0.46
1:AA:686:G:C5'	29:A7:11:LYS:HE2	2.43	0.46
17:D2:38:LEU:O	17:D2:51:VAL:HG13	2.15	0.46
4:AE:102:VAL:HA	4:AE:201:THR:OG1	2.15	0.46
4:AE:102:VAL:HA	4:AE:200:GLU:O	2.15	0.46
1:AA:70:G:H4'	1:AA:73:A:O4'	2.15	0.46
1:AA:2720:U:N3	1:AA:2873:A:H2	2.10	0.46
55:DA:320:A:H2'	5:DF:136:THR:CG2	2.45	0.46
1:AA:850:C:O3'	25:AX:49:LYS:HE2	2.14	0.46
1:AA:901:A:H2'	1:AA:901:A:N3	2.30	0.46
35:BH:48:ALA:CB	35:BH:49:PRO:HD2	2.32	0.46
40:BM:54:PHE:CE1	40:BM:55:LYS:CE	2.98	0.46
42:BO:28:LYS:O	42:BO:29:GLY:C	2.54	0.46
42:BO:34:ARG:HG2	42:BO:35:GLY:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:9:MET:O	38:CK:12:ARG:N	2.49	0.46
7:AH:102:ALA:CB	7:AH:117:PRO:HD3	2.45	0.46
48:CU:20:ALA:C	48:CU:22:VAL:H	2.19	0.46
31:BA:652:U:O4	31:BA:752:G:C2'	2.62	0.46
52:BC:19:G:C2	52:BC:57:G:N3	2.83	0.46
6:AG:16:ARG:HB3	6:AG:17:PRO:CD	2.45	0.46
47:BT:80:GLY:O	47:BT:81:ARG:CB	2.64	0.46
22:D3:6:GLY:O	22:D3:7:LEU:HB2	2.14	0.46
32:BE:40:HIS:CB	32:BE:190:THR:HG21	2.40	0.46
15:DR:19:LEU:HD22	15:DR:86:ILE:HG22	1.97	0.46
32:BE:79:ASP:O	32:BE:82:ARG:N	2.43	0.46
1:AA:1948:G:C5'	1:AA:1948:G:H8	2.27	0.46
2:AB:16:G:O2'	2:AB:17:C:H5'	2.16	0.46
7:AH:89:ILE:CG1	7:AH:90:LYS:N	2.79	0.46
40:CM:34:VAL:CG2	40:CM:74:ILE:HG22	2.40	0.46
31:BA:818:G:C2	31:BA:820:U:H2'	2.51	0.46
1:AA:2729:G:C5	1:AA:2730:C:C5	3.03	0.46
1:AA:1174:A:H5'	1:AA:1175:U:H5''	1.96	0.46
23:DZ:90:ILE:O	23:DZ:94:LEU:HB3	2.15	0.46
10:DN:8:LEU:HD13	10:DN:82:ASN:CB	2.45	0.46
54:CA:346:G:H5'	15:DR:41:ARG:HD2	1.97	0.46
31:BA:836:G:C6	31:BA:851:G:C6	3.04	0.46
55:DA:2554:U:H2'	55:DA:2555:U:C6	2.50	0.46
1:AA:1872:A:H5'	1:AA:1878:G:OP2	2.16	0.46
41:BN:21:ILE:HG12	41:BN:30:VAL:HG12	1.98	0.46
54:CA:1469:G:H2'	54:CA:1470:G:C8	2.50	0.46
54:CA:927:G:N2	54:CA:1391:U:H1'	2.30	0.46
38:BK:63:LEU:N	38:BK:63:LEU:HD22	2.30	0.46
4:AE:16:ARG:O	4:AE:17:ASP:CB	2.62	0.46
13:D0:8:ARG:HH11	13:D0:39:PRO:HB3	1.80	0.46
31:BA:1499:A:C2	31:BA:1500:A:C8	3.03	0.46
31:BA:1190:G:H8	31:BA:1190:G:O5'	1.99	0.46
45:BR:62:GLN:O	45:BR:66:LEU:HD13	2.15	0.46
17:D2:1:MET:HE2	17:D2:43:GLU:HB2	1.96	0.46
3:DD:18:VAL:HG22	3:DD:211:ARG:NH2	2.30	0.46
41:CN:59:TYR:CZ	41:CN:63:LEU:HD11	2.51	0.46
33:CF:113:ALA:HB2	33:CF:183:ASP:HB3	1.97	0.46
55:DA:760:G:C2'	55:DA:761:A:H5'	2.45	0.46
55:DA:530:G:C5	55:DA:2022:U:H5''	2.50	0.46
54:CA:1171:G:H2'	54:CA:1172:C:C6	2.51	0.46
18:AS:6:ILE:HG23	18:AS:104:THR:OG1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1091:U:O2	31:BA:1093:A:C8	2.68	0.46
54:CA:843:U:H2'	54:CA:848:C:OP1	2.15	0.46
1:AA:302:C:H2'	1:AA:303:U:C6	2.50	0.46
1:AA:411:G:H5''	1:AA:412:A:OP1	2.15	0.46
31:BA:1273:G:H3'	31:BA:1274:G:C8	2.49	0.46
55:DA:2872:G:C2	55:DA:2873:A:N6	2.84	0.46
55:DA:1782:C:H2'	55:DA:2608:G:O2'	2.15	0.46
1:AA:1511:A:H2'	1:AA:1512:G:C8	2.50	0.46
55:DA:1419:A:H5'	55:DA:1420:U:OP2	2.16	0.46
33:CF:179:ARG:O	33:CF:206:GLU:HA	2.14	0.46
55:DA:2536:G:C6	55:DA:2537:U:C4	3.03	0.46
36:CI:78:GLU:OE2	36:CI:81:ILE:HD12	2.15	0.46
37:CJ:144:MET:HE3	52:CD:31:A:H1'	1.98	0.46
1:AA:2820:A:N6	4:AE:192:ASN:HB2	2.21	0.46
58:DL:103:GLN:O	58:DL:107:ILE:CG1	2.64	0.46
58:DL:112:MET:HE1	58:DL:123:ALA:HB2	1.94	0.46
58:DL:62:ASP:OD2	58:DL:63:ARG:N	2.48	0.46
57:DY:120:LYS:HD3	57:DY:120:LYS:HA	1.63	0.46
57:DY:12:THR:C	57:DY:14:LYS:H	2.19	0.46
31:BA:1324:A:H4'	31:BA:1362:C:H4'	1.95	0.46
28:A6:9:LEU:HD23	28:A6:10:LEU:N	2.29	0.46
12:AP:16:ARG:HB2	12:AP:16:ARG:HH11	1.81	0.46
54:CA:530:G:O6	53:C1:51:U:H1'	2.15	0.46
54:CA:74:C:N4	54:CA:75:C:N4	2.63	0.46
3:DD:36:PRO:HB3	3:DD:62:TYR:O	2.16	0.46
2:AB:43:C:OP1	6:AG:67:LYS:NZ	2.47	0.46
54:CA:794:A:C8	54:CA:794:A:C4'	2.99	0.46
54:CA:1002:G:C2	54:CA:1003:G:C5	3.04	0.46
54:CA:1008:C:C5'	54:CA:1008:C:H6	2.27	0.46
20:DU:51:VAL:CG2	20:DU:57:GLN:HA	2.46	0.46
16:A1:108:GLU:C	16:A1:110:VAL:H	2.19	0.46
1:AA:1007:C:H5''	9:AM:35:ARG:NH1	2.30	0.46
9:AM:41:ASP:OD1	16:A1:100:VAL:HG22	2.14	0.46
1:AA:1906:G:C5	1:AA:1929:G:N2	2.83	0.46
11:DO:64:LYS:CB	30:D8:25:MET:HG3	2.46	0.46
1:AA:2791:C:C2	1:AA:2792:G:C8	3.04	0.46
4:AE:58:ARG:O	4:AE:60:ASN:N	2.49	0.46
31:BA:1126:U:H3	31:BA:1281:U:H1'	1.79	0.46
31:BA:1005:A:C2	31:BA:1006:C:C2	3.04	0.46
27:D5:20:ARG:C	27:D5:22:HIS:H	2.19	0.46
55:DA:1022:G:N2	55:DA:1142(A):A:C2	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DE:14:ILE:O	4:DE:15:PHE:HD2	1.89	0.46
24:DW:17:SER:HB2	24:DW:18:PRO:CA	2.46	0.46
52:CD:9:A:H4'	52:CD:46:G:O4'	2.16	0.46
43:CP:15:VAL:O	43:CP:19:LEU:HD23	2.15	0.46
43:CP:25:ILE:HD11	43:CP:66:LEU:HD21	1.98	0.46
55:DA:1339:G:N2	55:DA:1603:A:H1'	2.30	0.46
54:CA:1175:G:N1	54:CA:1176:A:N6	2.64	0.46
9:AM:34:LEU:HD12	9:AM:116:LEU:O	2.15	0.46
10:AN:64:ARG:NH1	10:AN:83:ALA:HB2	2.30	0.46
5:AF:119:ARG:HG2	5:AF:119:ARG:HH11	1.80	0.46
14:DQ:7:TYR:HA	14:DQ:10:ARG:HH11	1.81	0.46
19:AT:49:VAL:HB	19:AT:83:VAL:HG23	1.96	0.46
55:DA:2469:A:N1	55:DA:2481:G:C2	2.84	0.46
29:D7:38:GLY:O	29:D7:39:ARG:C	2.54	0.46
1:AA:607:U:C4	1:AA:608:A:N7	2.84	0.46
1:AA:2131:G:H5'	1:AA:2132:U:C5'	2.33	0.46
52:CC:13:C:O2'	55:DA:1924:C:H4'	2.16	0.46
1:AA:2688:U:H1'	1:AA:2721:A:N6	2.31	0.46
54:CA:701:C:O2	54:CA:703:G:N2	2.48	0.46
48:BU:21:LYS:HA	48:BU:21:LYS:HD2	1.48	0.46
48:BU:53:ARG:C	48:BU:55:ARG:N	2.69	0.46
31:BA:728:A:N1	31:BA:729:A:C6	2.83	0.46
39:BL:69:GLY:O	39:BL:70:LYS:C	2.53	0.46
8:DK:52:ARG:NH1	8:DK:52:ARG:CB	2.79	0.46
12:AP:31:ASP:OD2	12:AP:107:ALA:HA	2.14	0.46
55:DA:1335:U:OP1	19:DT:65:ARG:NE	2.48	0.46
33:BF:148:GLY:HA3	33:BF:172:ARG:O	2.15	0.46
1:AA:2031:A:O4'	1:AA:2031:A:OP1	2.33	0.46
1:AA:1059:G:H2'	1:AA:1060:U:C5	2.50	0.46
32:CE:67:THR:HG21	32:CE:155:LEU:HD11	1.97	0.46
34:CG:98:GLU:OE2	34:CG:103:ASN:ND2	2.48	0.46
55:DA:2298:A:N6	55:DA:2318:G:C8	2.73	0.46
33:BF:22:TRP:HB3	33:BF:59:ARG:HB2	1.97	0.46
33:BF:29:TYR:HE2	33:BF:33:LEU:HD13	1.79	0.46
14:AQ:25:ARG:HB3	14:AQ:25:ARG:NH1	2.30	0.46
55:DA:1511:A:O2'	55:DA:1512:G:H5'	2.14	0.46
31:BA:924:C:H5'	31:BA:1399:C:OP2	2.16	0.46
7:AH:86:GLU:O	7:AH:87:LEU:HB2	2.16	0.46
1:AA:441:U:H2'	1:AA:442:G:C8	2.50	0.46
31:BA:678:U:H4'	31:BA:778:G:OP1	2.16	0.46
36:CI:41:GLU:O	36:CI:43:LEU:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2592:G:C5	55:DA:2593:U:C5	3.04	0.46
27:A5:40:LYS:HD2	27:A5:46:CYS:CB	2.45	0.46
55:DA:2655:G:O2'	55:DA:2656:U:OP2	2.33	0.46
55:DA:2044:C:H6	55:DA:2044:C:C5'	2.22	0.46
55:DA:2086:U:H2'	55:DA:2087:G:C8	2.50	0.46
54:CA:1015:A:H2'	54:CA:1016:A:O4'	2.15	0.46
55:DA:1666:G:O3'	10:DN:6:THR:HG23	2.15	0.46
1:AA:2852:G:C2	1:AA:2853:C:C2	3.03	0.46
54:CA:1074:G:H2'	54:CA:1075:C:C6	2.50	0.46
54:CA:865:A:H2'	54:CA:866:C:H6	1.80	0.46
37:CJ:95:ARG:NH1	37:CJ:95:ARG:HG3	2.31	0.46
1:AA:1335:U:O2'	1:AA:1336:A:H5'	2.16	0.46
10:DN:86:ILE:HG21	10:DN:94:ARG:HD2	1.96	0.46
12:DP:38:GLU:OE2	12:DP:128:LYS:HG3	2.15	0.46
11:AO:86:LYS:HB3	11:AO:117:GLU:O	2.16	0.46
1:AA:691:C:H2'	1:AA:692:C:C6	2.49	0.46
55:DA:17:G:H2'	55:DA:18:C:C6	2.49	0.46
1:AA:2137:C:OP1	54:CA:1000:A:H4'	2.16	0.46
1:AA:718:A:H3'	1:AA:719:C:H6	1.80	0.46
1:AA:2368:C:O2'	1:AA:2369:A:H5'	2.15	0.46
1:AA:263:C:O2'	1:AA:264:C:H5'	2.15	0.46
55:DA:2439:A:H4'	55:DA:2440:C:O5'	2.16	0.46
1:AA:1788:C:O2'	1:AA:1789:A:H5'	2.15	0.46
49:CV:25:LYS:HA	49:CV:25:LYS:NZ	2.31	0.46
55:DA:1978:A:H2'	55:DA:1979:C:H6	1.79	0.46
13:A0:103:ARG:NH1	13:A0:108:GLY:O	2.49	0.46
55:DA:2178:C:O2'	55:DA:2179:C:H5'	2.16	0.46
11:DO:92:GLU:HG3	11:DO:121:LYS:HD2	1.97	0.46
55:DA:738:G:C6	55:DA:739:G:C2	3.04	0.46
55:DA:1545(A):A:H2'	55:DA:1546:C:O4'	2.15	0.46
1:AA:810:U:O5'	1:AA:810:U:H6	1.99	0.46
33:BF:207:VAL:O	33:BF:207:VAL:HG12	2.15	0.46
55:DA:1092:C:C3'	55:DA:1092:C:C6	2.98	0.46
55:DA:1104:C:H6	55:DA:1104:C:O5'	1.98	0.46
56:DI:17:VAL:CG1	56:DI:21:LYS:HE3	2.45	0.46
58:DL:68:VAL:CG2	58:DL:69:THR:N	2.78	0.46
58:DL:82:ALA:C	58:DL:84:LEU:N	2.69	0.46
57:DY:25:PHE:CE1	57:DY:82:PHE:C	2.89	0.46
57:DY:54:ALA:HB3	57:DY:58:LEU:CD2	2.45	0.46
43:CP:120:LYS:HD3	43:CP:120:LYS:H	1.76	0.46
44:BQ:12:ARG:C	44:BQ:14:PRO:HD3	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1372:U:C3'	1:AA:1372:U:C6	2.95	0.46
1:AA:195:A:H3'	1:AA:196:A:H5'	1.98	0.46
1:AA:953:A:OP2	12:AP:16:ARG:NH1	2.45	0.46
1:AA:957:A:N1	1:AA:2459:A:C8	2.84	0.46
21:DV:106:GLY:O	21:DV:107:THR:OG1	2.30	0.46
54:CA:75:C:H2'	54:CA:76:G:O4'	2.16	0.46
3:DD:142:VAL:HG23	3:DD:192:THR:C	2.36	0.46
3:DD:142:VAL:HG23	3:DD:193:VAL:N	2.30	0.46
2:AB:39:A:C2'	26:A4:1:MET:HE2	2.45	0.46
6:AG:101:ILE:HD13	26:A4:25:TYR:HB2	1.98	0.46
30:A8:47:LYS:C	30:A8:48:PHE:CD1	2.89	0.46
54:CA:1054:C:N4	52:CB:34:G:C8	2.84	0.46
55:DA:2631:G:H2'	55:DA:2632:A:O5'	2.15	0.46
21:DV:155:LEU:O	21:DV:156:LYS:C	2.54	0.46
1:AA:579:G:H2'	1:AA:580:C:C6	2.50	0.46
55:DA:654(J):A:H2	55:DA:654(L):G:N7	2.14	0.46
31:BA:280:C:H1'	47:BT:38:ARG:NH1	2.29	0.46
52:BD:18:G:C2	52:BD:57:G:O6	2.69	0.46
33:BF:167:TRP:O	33:BF:168:ALA:HB2	2.15	0.46
6:DG:125:PHE:HB3	6:DG:166:ASP:HB2	1.98	0.46
16:D1:86:ALA:HB3	16:D1:88:ILE:CD1	2.45	0.46
16:D1:98:LEU:C	16:D1:98:LEU:CD2	2.81	0.46
23:AZ:89:GLU:O	23:AZ:93:GLU:HB2	2.15	0.46
23:AZ:91:LYS:HA	23:AZ:91:LYS:CE	2.31	0.46
39:CL:91:ASP:C	39:CL:93:ARG:H	2.19	0.46
5:DF:63:LYS:HE3	5:DF:65:TRP:O	2.16	0.46
8:AK:110:ASP:OD2	8:AK:130:TYR:CE1	2.68	0.46
20:AU:81:LYS:HB3	20:AU:97:ARG:HD3	1.97	0.46
7:AH:156:ALA:HB3	7:AH:159:GLU:O	2.15	0.46
1:AA:1668:A:H4'	1:AA:1669:A:O5'	2.15	0.46
52:CC:18:G:N2	52:CC:57:G:H2'	2.31	0.46
3:AD:35:LYS:HD3	3:AD:63:ARG:CA	2.45	0.46
13:A0:92:GLY:O	13:A0:94:TYR:CD1	2.69	0.46
55:DA:2712:U:O2	55:DA:2712:U:C3'	2.63	0.46
1:AA:1992:G:N2	1:AA:1996:C:O2'	2.48	0.46
31:BA:528:C:H4'	31:BA:535:A:C6	2.50	0.46
31:BA:1106:G:O2'	31:BA:1107:C:H5'	2.16	0.46
33:BF:95:THR:HG22	33:BF:97:LYS:CG	2.42	0.46
55:DA:1188:U:H2'	55:DA:1189:A:H5'	1.97	0.46
39:BL:114:TYR:HD1	40:BM:60:ARG:HG2	1.81	0.46
55:DA:1509:C:C3'	55:DA:1510:A:H4'	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DE:1:MET:HB3	4:DE:200:GLU:OE1	2.15	0.46
54:CA:1228:C:OP1	43:CP:108:ARG:NH2	2.47	0.46
38:BK:12:ARG:HH12	38:BK:27:PRO:HD3	1.78	0.46
31:BA:685:G:H5'	41:BN:39:PRO:O	2.16	0.46
55:DA:2531:A:N6	55:DA:2662:A:H61	2.14	0.46
55:DA:2655:G:N2	55:DA:2665:A:OP2	2.49	0.46
1:AA:605:C:O2	1:AA:657:U:O2'	2.27	0.46
55:DA:1938:A:H5'	55:DA:1939:U:OP2	2.15	0.46
31:BA:560:U:H4'	31:BA:561:U:O5'	2.16	0.46
31:BA:274:A:H4'	31:BA:275:G:OP1	2.16	0.46
35:CH:18:ARG:HG2	35:CH:19:MET:N	2.29	0.46
10:DN:2:ILE:HG13	10:DN:8:LEU:HD11	1.97	0.46
32:CE:134:GLU:O	32:CE:137:ARG:HB3	2.15	0.46
7:DH:9:ILE:HG22	7:DH:51:ARG:CG	2.42	0.46
55:DA:405:U:C2'	55:DA:405:U:O2	2.59	0.46
43:CP:48:LEU:O	43:CP:49:THR:C	2.54	0.46
31:BA:807:A:H2'	31:BA:808:C:H6	1.75	0.46
1:AA:704:G:C2'	1:AA:705:A:OP2	2.63	0.46
31:BA:353:A:C2'	31:BA:354:G:OP2	2.64	0.46
42:BO:90:VAL:O	42:BO:90:VAL:HG12	2.14	0.46
52:CB:8:U:H6	52:CB:8:U:OP2	1.98	0.46
31:BA:1095:U:OP1	31:BA:1108:G:N2	2.48	0.46
3:DD:166:GLN:HA	3:DD:166:GLN:NE2	2.30	0.46
5:DF:161:GLU:O	5:DF:164:ARG:HB3	2.15	0.46
1:AA:212:G:C2'	1:AA:213:A:H5'	2.45	0.46
54:CA:812:C:O2'	54:CA:813:U:OP2	2.33	0.46
3:AD:8:PRO:HB3	3:AD:14:ARG:HE	1.80	0.46
54:CA:748:C:OP2	54:CA:748:C:H6	1.97	0.46
1:AA:2009:G:C6	1:AA:2010:G:N7	2.84	0.46
55:DA:531:C:H5''	55:DA:532:A:C4	2.50	0.46
34:BG:64:LEU:CD1	34:BG:196:LEU:HD23	2.45	0.46
13:A0:30:THR:HA	13:A0:78:LYS:NZ	2.31	0.46
12:DP:111:GLU:O	12:DP:115:MET:HG3	2.15	0.46
1:AA:1300:U:H2'	1:AA:1635:G:OP1	2.16	0.46
9:DM:120:LEU:C	9:DM:120:LEU:HD13	2.36	0.46
6:AG:51:ARG:HH11	6:AG:51:ARG:HB3	1.80	0.46
31:BA:784:C:H2'	31:BA:785:G:H8	1.81	0.46
45:CR:21:ASP:OD1	45:CR:24:SER:HB2	2.16	0.46
50:BW:20:LEU:O	50:BW:21:LYS:C	2.52	0.46
1:AA:751:A:O5'	1:AA:751:A:H8	1.98	0.46
31:BA:310:G:OP1	46:BS:27:LYS:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:95:ILE:HG13	18:AS:95:ILE:O	2.15	0.46
41:CN:43:SER:HB3	41:CN:68:ALA:HB2	1.98	0.46
55:DA:315:G:H2'	55:DA:316:C:C6	2.50	0.46
55:DA:1062:G:N2	55:DA:1077:A:C8	2.83	0.46
56:DI:10:GLU:O	56:DI:11:GLU:C	2.53	0.46
58:DL:12:LEU:HA	58:DL:12:LEU:HD13	1.42	0.46
58:DL:138:VAL:CG1	58:DL:139:VAL:H	2.25	0.46
57:DY:25:PHE:CA	57:DY:82:PHE:CE2	2.99	0.46
1:AA:895:U:C3'	1:AA:895:U:O2	2.63	0.46
21:AV:178:GLU:OE1	21:AV:181:GLU:N	2.49	0.46
21:AV:182:LYS:NZ	52:BB:57:G:H5'	2.30	0.46
21:DV:194:PRO:CB	21:DV:196:VAL:CG1	2.92	0.46
1:AA:948:G:H2'	1:AA:949:C:C6	2.50	0.46
2:AB:87:G:H3'	2:AB:88:C:H5'	1.92	0.46
42:CO:45:PRO:O	42:CO:46:LYS:O	2.34	0.46
55:DA:897:C:C6	55:DA:897:C:C4'	2.98	0.46
32:CE:213:LEU:HD23	32:CE:213:LEU:C	2.36	0.46
3:DD:30:GLU:CG	3:DD:63:ARG:NH2	2.78	0.46
4:DE:62:PRO:O	4:DE:63:LEU:C	2.52	0.46
4:DE:50:GLY:CA	4:DE:74:PRO:HG3	2.44	0.46
55:DA:2420:C:OP1	30:D8:34:TRP:CA	2.63	0.46
16:A1:58:ARG:O	16:A1:62:ILE:HD13	2.14	0.46
16:A1:60:LEU:HD21	16:A1:64:ARG:NH2	2.31	0.46
20:DU:91:GLU:O	20:DU:92:ASN:HB3	2.16	0.46
20:DU:96:ILE:HD11	20:DU:99:CYS:SG	2.55	0.46
5:AF:84:VAL:O	5:AF:86:GLY:N	2.49	0.46
1:AA:2552:U:C5'	1:AA:2553:G:OP2	2.64	0.46
16:A1:50:ARG:HH21	16:A1:50:ARG:CB	2.29	0.46
4:AE:7:VAL:O	4:AE:26:ILE:O	2.34	0.46
9:DM:47:ALA:HB1	9:DM:116:LEU:HD21	1.97	0.46
31:BA:889:A:O3'	31:BA:890:G:H4'	2.15	0.46
21:DV:61:LEU:HD22	21:DV:62:PRO:O	2.15	0.46
16:D1:83:LEU:HD12	16:D1:88:ILE:HD11	1.97	0.46
8:DK:139:GLN:NE2	8:DK:139:GLN:O	2.49	0.46
55:DA:1283:G:H2'	55:DA:1285:G:OP2	2.15	0.46
55:DA:1311:G:H1'	55:DA:1313:U:O4	2.16	0.46
54:CA:266:G:H5''	54:CA:268:C:N4	2.14	0.46
31:BA:1347:G:N2	31:BA:1374:A:OP2	2.44	0.46
37:BJ:44:TYR:O	37:BJ:47:CYS:N	2.48	0.46
54:CA:586:C:H1'	54:CA:878:G:O2'	2.16	0.46
31:BA:36:C:H2'	31:BA:37:U:H5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1442:G:N7	31:BA:1446:A:C2	2.84	0.46
55:DA:265:A:C2'	55:DA:266:G:O4'	2.64	0.46
5:AF:125:LEU:HD12	5:AF:196:LEU:CD2	2.45	0.46
6:DG:44:GLY:O	6:DG:47:LYS:HB2	2.16	0.46
6:DG:75:LYS:HD2	6:DG:77:ILE:CD1	2.45	0.46
3:AD:35:LYS:HE3	3:AD:64:ILE:C	2.36	0.46
1:AA:2391:G:O2'	1:AA:2392:A:P	2.72	0.46
13:A0:55:ALA:CB	13:A0:79:LEU:HD22	2.45	0.46
2:DB:41:U:O4	6:DG:70:VAL:O	2.34	0.46
24:AW:56:GLN:O	24:AW:60:LEU:HD12	2.15	0.46
24:AW:71:ASN:O	24:AW:72:ALA:C	2.52	0.46
8:DK:71:ILE:C	8:DK:74:ASN:HD21	2.19	0.46
54:CA:96:G:C8	54:CA:96:G:H5'	2.43	0.46
12:AP:133:ARG:CG	12:AP:133:ARG:HH11	2.29	0.46
31:BA:4:U:C4	38:BK:105:ARG:NH1	2.83	0.46
31:BA:1198:G:H2'	31:BA:1199:U:C6	2.51	0.46
33:BF:136:GLN:O	33:BF:140:ARG:N	2.48	0.46
6:DG:26:GLN:HE21	6:DG:27:ASN:HB2	1.80	0.46
34:CG:152:SER:HB3	34:CG:155:LEU:HD12	1.96	0.46
33:BF:18:TRP:CD1	44:BQ:54:PRO:HA	2.50	0.46
55:DA:1480:G:O6	55:DA:1510:A:N1	2.49	0.46
7:AH:126:PRO:O	7:AH:127:GLU:O	2.32	0.46
7:AH:12:PRO:C	7:AH:15:VAL:HG22	2.36	0.46
12:AP:98:LYS:HB3	12:AP:99:PRO:CD	2.40	0.46
36:CI:19:LEU:HD11	36:CI:59:TYR:CE2	2.50	0.46
48:CU:53:ARG:HH21	48:CU:60:ALA:N	2.12	0.46
19:DT:49:VAL:CG1	19:DT:50:LYS:N	2.78	0.46
1:AA:2627:G:N3	1:AA:2781:A:H2	2.14	0.46
5:DF:34:TRP:CH2	11:DO:8:PRO:HG3	2.48	0.46
35:CH:102:ALA:HB1	35:CH:106:PRO:CG	2.43	0.46
35:CH:10:MET:SD	35:CH:13:ILE:CD1	3.03	0.46
31:BA:1254:C:OP1	40:BM:45:ARG:HA	2.16	0.46
31:BA:1270:C:OP2	51:BX:24:ARG:NH2	2.49	0.46
32:BE:86:GLU:O	32:BE:88:ALA:N	2.45	0.46
32:BE:85:ALA:HB1	32:BE:92:TYR:HB3	1.98	0.46
1:AA:2883:A:H3'	1:AA:2884:U:H5'	1.96	0.46
54:CA:481:G:O2'	54:CA:482:A:C8	2.64	0.46
54:CA:1333:A:C2	54:CA:1334:G:H1'	2.50	0.46
31:BA:147:G:O2'	31:BA:148:G:H5'	2.16	0.46
2:DB:52:A:H2'	2:DB:53:A:N7	2.30	0.46
55:DA:1999:C:H2'	55:DA:2000:G:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BU:62:GLU:O	48:BU:65:ILE:CD1	2.64	0.46
31:BA:537:G:H5''	42:BO:113:ARG:HH12	1.80	0.46
38:CK:115:SER:HB2	38:CK:116:LYS:HE3	1.98	0.46
22:A3:55:ARG:CB	22:A3:55:ARG:HH11	2.28	0.46
47:BT:59:ILE:HG22	47:BT:71:PHE:CD1	2.50	0.46
31:BA:621:A:H2'	31:BA:622:A:C8	2.50	0.46
31:BA:623:C:C4	31:BA:624:C:C5	3.03	0.46
31:BA:982:U:H6	31:BA:982:U:OP1	1.99	0.46
1:AA:2282:G:H4'	1:AA:2389:G:O2'	2.15	0.46
31:BA:577:G:C1'	31:BA:816:A:C4	2.98	0.46
4:AE:16:ARG:HH11	4:AE:16:ARG:HG3	1.81	0.46
55:DA:2836:U:H2'	55:DA:2837:G:H8	1.79	0.46
13:A0:66:VAL:CG1	13:A0:70:LEU:HD12	2.45	0.46
13:D0:91:GLN:NE2	13:D0:91:GLN:H	2.13	0.46
55:DA:492:A:H2'	55:DA:493:G:C5'	2.46	0.46
35:BH:13:ILE:O	35:BH:13:ILE:HG12	2.15	0.46
9:DM:131:GLN:OE1	9:DM:132:ALA:HB2	2.15	0.46
26:A4:66:SER:O	26:A4:67:TYR:O	2.33	0.46
9:AM:10:GLU:OE2	9:AM:11:PRO:HD2	2.15	0.46
1:AA:699:A:H2'	1:AA:700:G:O4'	2.15	0.46
29:D7:25:PRO:HA	29:D7:28:ARG:CZ	2.46	0.46
55:DA:721:C:H3'	55:DA:722:A:H8	1.81	0.46
31:BA:339:C:H2'	31:BA:340:U:C6	2.50	0.46
54:CA:424:G:O2'	54:CA:425:G:H5'	2.16	0.46
15:AR:126:ALA:C	15:AR:128:GLU:H	2.18	0.46
2:AB:2:C:H2'	2:AB:3:C:C6	2.50	0.46
1:AA:2233:U:H2'	1:AA:2234:G:C8	2.50	0.46
38:BK:39:LEU:O	38:BK:44:PHE:HB2	2.16	0.46
55:DA:381:G:O2'	55:DA:382:G:H5'	2.16	0.46
15:DR:78:LEU:O	15:DR:78:LEU:HD13	2.16	0.46
46:CS:82:GLN:O	46:CS:83:GLU:HB3	2.16	0.46
31:BA:228:A:H2'	31:BA:229:U:H6	1.79	0.46
55:DA:2680:C:H5'	4:DE:189:PRO:HA	1.98	0.46
27:A5:59:GLU:O	27:A5:60:VAL:C	2.53	0.46
55:DA:1058:U:O3'	58:DL:4:VAL:CG1	2.64	0.46
21:AV:148:ASP:OD1	21:AV:174:VAL:HG23	2.16	0.46
31:BA:1234:C:H5'	31:BA:1364:U:O2'	2.16	0.46
31:BA:1323:G:H2'	31:BA:1324:A:C8	2.51	0.46
31:BA:979:C:O2	44:BQ:19:ARG:HG2	2.15	0.46
28:A6:25:LYS:HB2	28:A6:27:LYS:CD	2.46	0.46
1:AA:806:C:OP2	11:AO:41:ARG:NH2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:529:G:O6	42:CO:49:ASN:ND2	2.49	0.46
55:DA:879:G:C4	55:DA:880:G:H1'	2.51	0.46
43:BP:34:LEU:CD1	43:BP:41:PRO:HB3	2.46	0.46
30:A8:8:LYS:O	30:A8:12:LYS:HG3	2.15	0.46
20:DU:48:ALA:HB2	20:DU:61:ILE:HD13	1.98	0.46
54:CA:956:U:H5'	49:CV:87:ALA:HB2	1.98	0.46
28:D6:38:LYS:HA	28:D6:48:VAL:O	2.15	0.46
9:AM:9:VAL:HG11	9:AM:39:ARG:NH1	2.30	0.46
11:DO:62:LEU:CD2	30:D8:25:MET:HB2	2.36	0.46
5:AF:84:VAL:C	5:AF:86:GLY:H	2.19	0.46
34:BG:33:MET:C	34:BG:34:GLU:O	2.48	0.46
55:DA:554:U:O2'	55:DA:556:G:H8	1.97	0.46
9:DM:46:VAL:O	9:DM:47:ALA:HB3	2.15	0.46
7:DH:89:ILE:HD12	7:DH:129:THR:O	2.16	0.46
7:AH:20:ALA:HB3	7:AH:23:ARG:CG	2.46	0.46
32:CE:212:GLN:C	32:CE:212:GLN:CD	2.75	0.46
32:CE:55:PHE:CD1	32:CE:221:LEU:HG	2.51	0.46
32:CE:239:VAL:HG12	32:CE:240:GLN:OE1	2.16	0.46
31:BA:1028:C:C4	31:BA:1028(A):C:C5	3.03	0.46
55:DA:638:G:H2'	55:DA:639:U:H6	1.72	0.46
40:CM:48:THR:HG23	40:CM:62:HIS:ND1	2.31	0.46
26:D4:37:SER:O	26:D4:38:LYS:O	2.34	0.46
17:D2:48:GLY:O	17:D2:49:THR:C	2.54	0.46
8:DK:78:THR:O	8:DK:79:ILE:CB	2.63	0.46
11:DO:30:THR:OG1	11:DO:31:ALA:N	2.47	0.46
54:CA:1155:G:O2'	54:CA:1156:G:H5'	2.16	0.46
9:AM:28:THR:HA	9:AM:106:MET:HE1	1.98	0.46
24:DW:42:GLY:C	24:DW:44:LEU:H	2.07	0.46
21:AV:7:ALA:HB2	21:AV:39:VAL:HG12	1.98	0.46
1:AA:1235:G:N1	1:AA:1236:G:N2	2.64	0.46
1:AA:1665:A:C2'	1:AA:1666:G:H5'	2.46	0.46
10:AN:8:LEU:HD12	10:AN:84:ALA:HB2	1.97	0.46
55:DA:1533:C:C5'	55:DA:1534:G:OP2	2.58	0.46
1:AA:654(S):G:H2'	1:AA:654(T):A:N9	2.30	0.46
32:BE:16:HIS:NE2	32:BE:209:ARG:HD2	2.30	0.46
6:DG:77:ILE:HG22	6:DG:80:PHE:N	2.27	0.46
14:DQ:15:ARG:NE	14:DQ:88:ASP:OD1	2.48	0.46
1:AA:434:U:C4'	1:AA:435:C:OP1	2.50	0.46
55:DA:2469:A:N6	55:DA:2481:G:H1'	2.30	0.46
25:AX:42:ALA:O	25:AX:43:ILE:C	2.52	0.46
1:AA:1798:U:O2	1:AA:1802:A:H2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:621:A:H2'	1:AA:622:G:C5'	2.45	0.46
42:CO:19:ARG:HH11	42:CO:19:ARG:CB	2.28	0.46
38:CK:97:VAL:O	38:CK:100:ILE:HG13	2.15	0.46
1:AA:2580:U:H4'	4:AE:130:GLY:HA3	1.95	0.46
52:BB:34:G:O2'	52:BB:35:A:H5'	2.15	0.46
8:AK:122:GLU:O	8:AK:126:TYR:OH	2.29	0.46
8:AK:88:ILE:HG12	8:AK:121:LYS:C	2.36	0.46
54:CA:723:U:O2	54:CA:723:U:H2'	2.16	0.46
53:B1:53:U:O2'	53:B1:54:U:P	2.73	0.46
35:CH:15:ARG:HD3	53:C1:56:U:OP2	2.16	0.46
54:CA:1324:A:H2'	54:CA:1325:C:C6	2.51	0.46
6:AG:115:ARG:O	6:AG:116:ASP:HB2	2.15	0.46
31:BA:1060:C:O2'	31:BA:1061:G:H5'	2.16	0.46
7:AH:149:ARG:C	7:AH:151:ILE:H	2.19	0.46
50:BW:26:ASN:HA	50:BW:29:LYS:CG	2.46	0.46
12:AP:35:VAL:HG11	12:AP:130:LYS:HD3	1.97	0.46
42:CO:109:GLY:CA	42:CO:121:GLY:O	2.56	0.46
3:AD:16:MET:HG3	3:AD:206:LEU:O	2.15	0.46
55:DA:1944:U:H5''	55:DA:1945:G:OP2	2.16	0.46
11:DO:41:ARG:HD3	11:DO:41:ARG:HA	1.65	0.46
31:BA:1298:C:H5''	37:BJ:114:ARG:HH12	1.81	0.46
38:CK:34:GLU:CB	38:CK:118:VAL:HG21	2.38	0.46
32:BE:219:VAL:HA	32:BE:222:ILE:CD1	2.42	0.46
14:AQ:88:ASP:CG	14:AQ:89:ARG:H	2.19	0.46
54:CA:556:C:H2'	54:CA:557:G:H5'	1.96	0.46
43:BP:11:ARG:O	43:BP:13:LYS:N	2.47	0.46
54:CA:502:G:P	42:CO:118:SER:HB2	2.56	0.46
1:AA:529:A:H2'	1:AA:529:A:N3	2.30	0.46
1:AA:2867:G:H2'	1:AA:2868:A:OP2	2.16	0.46
33:CF:45:LYS:O	33:CF:48:TYR:HB3	2.16	0.46
32:BE:95:GLN:O	32:BE:96:ARG:C	2.54	0.46
55:DA:2355:C:C5'	22:D3:36:ILE:HD11	2.45	0.46
1:AA:669:G:N3	1:AA:669:G:C2'	2.76	0.46
44:BQ:61:TRP:CG	44:BQ:61:TRP:OXT	2.68	0.46
38:CK:83:ILE:HG23	38:CK:83:ILE:O	2.16	0.46
8:AK:68:LEU:HA	8:AK:71:ILE:CG2	2.45	0.46
55:DA:165:U:O2	55:DA:165:U:C2'	2.64	0.46
42:BO:117:ARG:CG	42:BO:117:ARG:HH11	2.29	0.46
55:DA:1287:A:OP1	13:D0:105:ARG:O	2.34	0.46
55:DA:2506:U:O2'	55:DA:2507:C:H5'	2.16	0.46
1:AA:2168:G:C2'	1:AA:2168:G:N3	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BE:67:THR:HA	32:BE:90:MET:SD	2.55	0.46
1:AA:2219:G:C2'	1:AA:2224:G:H5'	2.45	0.46
31:BA:191(F):U:H3	50:BW:105:SER:HB3	1.81	0.46
34:CG:188:LEU:CD2	34:CG:189:PRO:HD2	2.44	0.46
1:AA:270(B):A:C5'	1:AA:270(C):C:OP2	2.64	0.46
54:CA:336:C:O2'	54:CA:337:C:H5'	2.15	0.46
7:DH:26:VAL:CG1	7:DH:33:LEU:HB2	2.45	0.46
39:BL:118:LYS:O	39:BL:119:ALA:HB3	2.15	0.46
47:CT:13:ASP:O	47:CT:15:MET:N	2.48	0.46
52:BC:75:C:H5''	52:BC:76:A:OP2	2.16	0.46
1:AA:273(B):C:H2'	1:AA:273(C):C:C6	2.51	0.46
38:BK:36:LEU:O	38:BK:39:LEU:N	2.49	0.46
46:BS:19:ILE:N	46:BS:37:GLY:O	2.44	0.46
15:AR:70:VAL:HG12	15:AR:71:GLY:N	2.31	0.46
55:DA:1810:A:H2'	55:DA:1811:G:O4'	2.16	0.46
55:DA:2152:G:H2'	55:DA:2153:G:C8	2.50	0.46
55:DA:1094:U:O2'	55:DA:1096:A:OP1	2.33	0.46
57:DY:135:ARG:HB3	56:DJ:10:GLU:OE2	2.15	0.46
56:DJ:14:GLN:N	56:DJ:17:VAL:HG23	2.31	0.46
58:DL:101:TRP:O	58:DL:105:LEU:HG	2.16	0.46
57:DY:5:ARG:O	57:DY:7:VAL:N	2.49	0.46
52:BB:16:U:H2'	52:BB:18:G:OP2	2.15	0.46
28:A6:29:ASN:HD22	28:A6:29:ASN:N	2.12	0.46
1:AA:2485:G:H5''	12:AP:46:GLN:NE2	2.31	0.46
1:AA:818:G:O2'	1:AA:838:C:O2'	2.25	0.46
1:AA:913:U:O2'	1:AA:914:C:O5'	2.34	0.46
1:AA:955:C:H5'	12:AP:14:ARG:HH21	1.81	0.46
1:AA:1814:G:C2	1:AA:1815:A:N6	2.84	0.46
49:BV:8:GLY:O	49:BV:9:VAL:C	2.54	0.46
15:AR:90:GLN:CG	15:AR:91:ARG:N	2.79	0.46
49:CV:63:THR:CG2	49:CV:65:ASN:HD21	2.28	0.46
54:CA:1027:C:HO2'	54:CA:1028:C:P	2.38	0.46
20:DU:19:LYS:O	20:DU:19:LYS:CG	2.64	0.46
54:CA:960:U:O4	54:CA:1225:A:H1'	2.16	0.46
28:D6:19:ARG:HD2	28:D6:19:ARG:HA	1.73	0.46
57:DY:104:ILE:CB	57:DY:105:PRO:CD	2.94	0.46
57:DY:104:ILE:HD12	57:DY:104:ILE:HA	1.77	0.46
20:DU:94:LYS:CD	20:DU:101:LYS:HZ3	2.28	0.46
31:BA:426:G:P	34:BG:36:ARG:HH21	2.38	0.46
34:BG:38:TYR:CE1	34:BG:45:GLN:HB3	2.50	0.46
16:A1:47:TYR:HA	16:A1:50:ARG:HH12	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DM:91:LEU:O	9:DM:95:PRO:HG3	2.16	0.46
7:DH:151:ILE:O	7:DH:152:ARG:O	2.34	0.46
55:DA:118:A:H5'	55:DA:119:A:C8	2.49	0.46
40:CM:5:ARG:O	40:CM:98:ILE:HA	2.16	0.46
11:DO:75:ILE:N	11:DO:75:ILE:CD1	2.62	0.46
32:CE:224:GLN:C	32:CE:226:ARG:N	2.67	0.46
11:DO:138:LEU:O	11:DO:140:ALA:N	2.43	0.46
21:DV:63:ASP:O	21:DV:65:GLN:N	2.48	0.46
31:BA:956:U:H2'	31:BA:957:U:O4'	2.15	0.46
52:CD:8:U:C4'	52:CD:9:A:OP1	2.59	0.46
43:CP:7:VAL:CG2	6:DG:115:ARG:NH1	2.78	0.46
6:DG:34:LEU:HD22	6:DG:34:LEU:C	2.36	0.46
16:D1:108:GLU:HG3	17:D2:44:LYS:CE	2.41	0.46
23:AZ:73:LEU:HB3	23:AZ:90:ILE:CD1	2.46	0.46
55:DA:884:C:N3	55:DA:885:C:C4	2.84	0.46
4:DE:104:VAL:HG11	4:DE:188:VAL:HG23	1.97	0.46
1:AA:1019:U:H2'	1:AA:1020:A:C8	2.50	0.46
9:AM:98:VAL:CG2	9:AM:99:LEU:N	2.78	0.46
21:AV:26:GLY:C	21:AV:37:VAL:HG22	2.36	0.46
20:AU:68:HIS:O	20:AU:71:LYS:CG	2.64	0.46
1:AA:2661:G:H2'	1:AA:2662:A:C8	2.51	0.46
7:AH:91:GLY:O	7:AH:94:TYR:HB2	2.15	0.46
55:DA:2134:A:N6	55:DA:2157:G:C1'	2.76	0.46
32:BE:218:ALA:O	32:BE:221:LEU:HG	2.15	0.46
5:DF:103:LYS:HA	5:DF:106:ARG:CG	2.32	0.46
3:AD:63:ARG:O	3:AD:65:ILE:HG22	2.15	0.46
1:AA:2391:G:HO2'	1:AA:2392:A:P	2.38	0.46
15:DR:104:ASN:O	15:DR:105:LEU:HB3	2.16	0.46
24:AW:59:ARG:O	24:AW:60:LEU:C	2.55	0.46
1:AA:1820:U:C2	3:AD:202:LYS:HB3	2.50	0.46
55:DA:72:U:C5	55:DA:112:U:H4'	2.51	0.46
55:DA:2063:C:C4	55:DA:2064:C:C4	3.04	0.46
1:AA:1428:C:C5	1:AA:1569:A:H5''	2.51	0.46
35:CH:76:ILE:HD11	35:CH:118:ILE:CD1	2.46	0.46
31:BA:1162:C:C2	31:BA:1175:G:N2	2.83	0.46
31:BA:1492:A:H1'	53:B1:50:U:HO2'	1.78	0.46
53:C1:57:U:C2'	53:C1:57:U:O2	2.64	0.46
9:DM:74:ARG:NH1	9:DM:85:ILE:HD11	2.31	0.46
8:AK:129:THR:HG22	8:AK:137:PRO:CB	2.34	0.46
43:BP:23:TYR:HD1	43:BP:71:ARG:CZ	2.28	0.46
33:BF:14:ILE:O	33:BF:15:THR:HB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BF:22:TRP:CZ3	33:BF:24:ALA:HB2	2.51	0.46
33:BF:33:LEU:C	33:BF:35:GLU:N	2.69	0.46
33:BF:59:ARG:CG	33:BF:64:VAL:HG22	2.44	0.46
52:CC:35:A:H2'	52:CC:36:A:C5'	2.37	0.46
3:DD:12:SER:O	3:DD:16:MET:HB2	2.16	0.46
43:CP:108:ARG:NH1	43:CP:108:ARG:HG3	2.30	0.46
1:AA:907:U:OP1	12:AP:24:GLY:C	2.53	0.46
12:DP:20:ALA:HB3	21:DV:79:ARG:CZ	2.46	0.46
12:DP:21:THR:HB	12:DP:22:LYS:H	1.38	0.46
54:CA:542:G:H5'	34:CG:41:GLY:CA	2.45	0.46
35:BH:19:MET:CE	35:BH:24:ARG:HB3	2.45	0.46
1:AA:2777:G:H4'	1:AA:2778:A:H5'	1.98	0.46
36:CI:18:GLN:O	36:CI:21:LEU:HB2	2.16	0.46
35:CH:32:VAL:CG2	35:CH:58:ALA:HB1	2.45	0.46
32:BE:87:ARG:HD2	32:BE:87:ARG:O	2.15	0.46
52:BC:1:G:C4	52:BC:2:C:C5	3.04	0.46
14:AQ:88:ASP:OD2	14:AQ:89:ARG:N	2.49	0.46
1:AA:2556:C:C2'	1:AA:2557:G:H5'	2.46	0.46
31:BA:1512:U:H2'	31:BA:1513:A:H8	1.80	0.46
55:DA:2562:U:H4'	10:DN:25:LEU:CD2	2.46	0.46
55:DA:2199:A:H8	55:DA:2199:A:OP2	1.99	0.46
49:CV:3:ARG:O	49:CV:4:SER:CB	2.61	0.46
50:CW:17:ARG:NH1	50:CW:17:ARG:HG3	2.30	0.46
17:D2:30:GLY:N	17:D2:61:VAL:HG13	2.31	0.46
33:CF:101:LEU:HD23	33:CF:102:ASN:O	2.16	0.46
38:BK:60:ARG:NH1	38:BK:60:ARG:HB2	2.31	0.46
54:CA:344:A:C5'	54:CA:345:C:OP2	2.63	0.46
31:BA:663:A:H2'	31:BA:664:G:O4'	2.15	0.46
39:CL:19:LEU:CD1	39:CL:85:LEU:HB3	2.45	0.46
11:DO:12:ALA:C	11:DO:14:LYS:H	2.19	0.46
38:CK:94:TYR:HE1	38:CK:132:GLU:HB2	1.79	0.46
45:BR:17:ARG:NH1	45:BR:77:ARG:HH12	2.12	0.46
33:CF:83:ARG:C	33:CF:85:ARG:N	2.69	0.46
1:AA:1432:C:H2'	1:AA:1433:U:O4'	2.15	0.46
1:AA:2822:G:OP1	4:AE:112:GLY:HA2	2.16	0.46
12:DP:140:ALA:HB1	21:DV:123:ASP:OD1	2.16	0.46
49:CV:58:VAL:O	49:CV:58:VAL:HG23	2.16	0.46
43:BP:91:ARG:NH2	43:BP:103:THR:HG21	2.28	0.46
13:D0:41:ALA:C	13:D0:43:GLU:H	2.19	0.46
32:BE:72:GLY:C	32:BE:74:LYS:H	2.19	0.46
55:DA:2629:A:O2'	55:DA:2630:G:C5'	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:531:C:C5	55:DA:2035:G:C2	3.04	0.46
18:AS:5:ALA:HB3	18:AS:54:ALA:HB2	1.97	0.46
5:AF:20:LEU:HD22	5:AF:23:ASP:OD2	2.15	0.46
32:BE:68:ILE:O	32:BE:90:MET:HB3	2.16	0.46
21:DV:82:ARG:HG3	21:DV:83:PRO:CD	2.46	0.46
1:AA:1301:A:O2'	1:AA:1302:A:C3'	2.63	0.46
33:CF:153:VAL:HG22	33:CF:198:VAL:HG22	1.97	0.46
41:CN:126:ARG:HG2	41:CN:126:ARG:NH1	2.30	0.46
1:AA:2239:G:P	3:AD:244:ARG:HH22	2.38	0.46
55:DA:343:C:O2	55:DA:343:C:H2'	2.15	0.46
55:DA:1231:G:H2'	55:DA:1232:G:H8	1.80	0.46
37:BJ:95:ARG:HG3	37:BJ:95:ARG:NH1	2.31	0.46
32:BE:160:ASP:O	32:BE:161:ALA:HB2	2.15	0.46
54:CA:321:A:C2	54:CA:333:G:C2	3.04	0.46
1:AA:981:A:H2	1:AA:2027:G:N3	2.13	0.46
31:BA:901:A:C5	31:BA:902:G:H1'	2.50	0.46
3:DD:46:GLN:H	3:DD:46:GLN:HG3	1.30	0.46
50:CW:9:ASN:HD22	50:CW:9:ASN:C	2.18	0.46
35:BH:64:ARG:HH11	35:BH:64:ARG:HG3	1.81	0.46
12:AP:93:TYR:CD1	12:AP:93:TYR:N	2.83	0.46
43:CP:32:GLU:O	43:CP:35:GLU:HG2	2.16	0.46
56:DJ:17:VAL:O	56:DJ:18:LEU:HG	2.16	0.46
56:DJ:21:LYS:HD3	56:DJ:21:LYS:HA	1.49	0.46
58:DL:48:MET:CG	58:DL:48:MET:O	2.63	0.46
58:DL:8:VAL:N	58:DL:57:ILE:HG21	2.30	0.46
57:DY:73:GLY:CA	57:DY:112:LEU:CD1	2.73	0.46
57:DY:71:LEU:HB3	57:DY:113:GLN:HG2	1.91	0.46
21:DV:191:VAL:O	21:DV:192:ALA:HB3	2.10	0.46
31:BA:1317:C:N4	44:BQ:19:ARG:HH21	2.13	0.46
1:AA:644:A:O3'	1:AA:645:C:H6	1.99	0.46
1:AA:196:A:C2'	1:AA:805:G:O6	2.61	0.46
54:CA:522:C:H41	42:CO:53:ARG:HH22	1.64	0.46
4:DE:61:ARG:O	4:DE:63:LEU:HD23	2.16	0.46
4:DE:34:VAL:HG21	4:DE:77:ILE:HG21	1.98	0.46
28:D6:16:CYS:O	28:D6:17:LYS:HB3	2.15	0.46
28:D6:18:ARG:O	28:D6:19:ARG:O	2.32	0.46
16:A1:105:VAL:O	16:A1:106:PHE:C	2.54	0.46
1:AA:1924:C:C2	1:AA:1925:C:H6	2.25	0.46
20:DU:84:ARG:HH22	20:DU:97:ARG:CB	2.28	0.46
55:DA:632:A:H2'	55:DA:633:A:C8	2.51	0.46
1:AA:2552:U:H5'	1:AA:2553:G:OP2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:A2:79:VAL:O	17:A2:80:GLN:CB	2.63	0.46
1:AA:2631:G:N3	1:AA:2810:A:C2	2.81	0.46
21:AV:157:LEU:C	21:AV:161:VAL:HG21	2.37	0.46
16:D1:92:ARG:NH1	17:D2:11:GLN:HB2	2.31	0.46
17:D2:44:LYS:C	17:D2:46:VAL:N	2.68	0.46
31:BA:793:U:O4	31:BA:1517:G:H5'	2.16	0.46
23:AZ:76:ARG:CG	23:AZ:94:LEU:HD13	2.43	0.46
5:AF:22:ALA:O	5:AF:24:LEU:N	2.48	0.46
55:DA:1126:A:H4'	55:DA:1127:A:O5'	2.16	0.46
32:BE:19:HIS:O	32:BE:20:GLU:C	2.53	0.46
32:BE:19:HIS:HD1	32:BE:204:ASN:ND2	2.14	0.46
32:BE:4:GLU:O	32:BE:6:THR:N	2.48	0.46
14:DQ:5:THR:C	14:DQ:7:TYR:H	2.19	0.46
54:CA:375:U:H4'	46:CS:17:TYR:HE2	1.76	0.46
55:DA:2443:C:OP1	5:DF:68:LYS:HD2	2.15	0.46
20:DU:8:LYS:O	20:DU:27:VAL:HG21	2.15	0.46
1:AA:654(H):G:H3'	1:AA:654(I):C:C5'	2.46	0.46
8:DK:9:LEU:O	8:DK:10:GLU:O	2.34	0.46
23:AZ:50:ARG:HA	23:AZ:58:ILE:O	2.16	0.46
31:BA:1179:A:OP2	39:BL:93:ARG:NH2	2.47	0.46
1:AA:396:G:O3'	23:AZ:44:PRO:HA	2.16	0.46
29:A7:24:THR:C	29:A7:26:GLY:N	2.68	0.46
11:AO:85:LEU:HD22	11:AO:115:LEU:O	2.16	0.46
24:AW:26:ARG:HB3	24:AW:26:ARG:NH1	2.29	0.46
53:C1:39:U:H2'	53:C1:40:U:H6	1.81	0.46
50:BW:36:LEU:CD1	50:BW:55:ILE:HG23	2.46	0.46
44:CQ:4:LYS:O	44:CQ:7:ILE:HG12	2.16	0.46
12:DP:70:PRO:HA	12:DP:94:VAL:O	2.16	0.46
55:DA:2529:G:H5''	55:DA:2530:A:C5'	2.46	0.46
33:BF:15:THR:HG22	33:BF:16:ARG:HH12	1.80	0.46
11:AO:12:ALA:C	11:AO:14:LYS:H	2.18	0.46
3:DD:177:LEU:HD12	3:DD:181:GLU:CG	2.46	0.46
13:D0:66:VAL:HG12	13:D0:70:LEU:HD12	1.97	0.46
27:A5:46:CYS:SG	27:A5:48:GLU:HG2	2.56	0.46
36:CI:89:MET:O	36:CI:90:VAL:C	2.53	0.46
34:BG:181:MET:O	34:BG:182:LYS:HB3	2.15	0.46
54:CA:411:A:C8	54:CA:413:G:H1'	2.50	0.46
18:AS:92:ARG:HG2	18:AS:92:ARG:NH1	2.31	0.46
11:DO:36:LYS:CB	11:DO:40:SER:HB3	2.40	0.46
15:DR:84:GLN:HG3	15:DR:85:LYS:N	2.30	0.46
15:DR:28:VAL:HG21	15:DR:86:ILE:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:45:U:H2'	54:CA:46:G:C8	2.50	0.46
25:AX:31:LEU:C	25:AX:33:GLN:H	2.19	0.46
54:CA:1297:C:O2'	54:CA:1298:C:H6	1.98	0.46
40:CM:64:GLU:OE2	40:CM:66:ARG:HD2	2.15	0.46
1:AA:1171:G:H1'	1:AA:1173:G:C5'	2.46	0.46
55:DA:2197:U:H2'	55:DA:2224:G:H1	1.80	0.46
52:BC:44:G:H3'	52:BC:45:U:H6	1.78	0.46
50:CW:16:HIS:O	50:CW:19:SER:HB3	2.16	0.46
31:BA:392:G:H2'	31:BA:393:A:H8	1.81	0.46
31:BA:481:G:H2'	31:BA:483:C:H41	1.81	0.46
38:CK:39:LEU:CD1	38:CK:111:ILE:HD11	2.46	0.46
14:DQ:62:LYS:HB3	14:DQ:97:ARG:HD3	1.96	0.46
1:AA:5:A:H2'	1:AA:6:A:H8	1.81	0.46
1:AA:1880:C:H2'	1:AA:1881:C:O4'	2.15	0.46
45:CR:39:LEU:CD1	45:CR:56:LEU:HB2	2.46	0.46
19:DT:35:THR:HG22	19:DT:38:GLU:OE1	2.16	0.46
31:BA:965:A:H5''	31:BA:966:G:OP1	2.15	0.46
31:BA:1368:G:H4'	44:BQ:61:TRP:HZ2	1.80	0.46
1:AA:2328:A:H2'	1:AA:2329:G:H8	1.80	0.46
55:DA:928:G:H3'	55:DA:929:G:H8	1.81	0.46
38:CK:82:HIS:CD2	38:CK:83:ILE:N	2.83	0.46
55:DA:614:U:O4	5:DF:175:THR:O	2.34	0.46
48:CU:66:LEU:CG	48:CU:70:ILE:HD11	2.46	0.46
42:BO:86:ARG:HB2	42:BO:101:VAL:HG23	1.97	0.46
31:BA:181:G:HO2'	31:BA:182:U:H6	1.62	0.46
14:DQ:56:LEU:HG	14:DQ:58:LEU:HD22	1.98	0.46
21:DV:102:LEU:C	21:DV:103:ARG:HD2	2.36	0.46
12:AP:139:GLU:N	12:AP:139:GLU:OE1	2.48	0.46
55:DA:1649:G:N3	13:D0:107:ASP:HB2	2.30	0.46
55:DA:517:C:OP1	27:D5:16:ARG:NH2	2.49	0.46
55:DA:2167:U:C6	55:DA:2167:U:OP2	2.65	0.46
55:DA:338:G:H2'	55:DA:339:U:H6	1.81	0.46
34:CG:94:LEU:HD13	34:CG:191:ARG:HH11	1.81	0.46
1:AA:2707:G:H5''	13:A0:68:ARG:CZ	2.46	0.46
31:BA:191(F):U:H2'	31:BA:191:G:H5'	1.98	0.46
55:DA:1639:U:O2'	55:DA:2699:C:H4'	2.16	0.46
14:DQ:38:GLN:HG3	14:DQ:47:THR:CG2	2.46	0.46
7:DH:41:MET:HE1	7:DH:64:LEU:HB2	1.98	0.46
55:DA:865:C:C4'	55:DA:866:A:OP1	2.63	0.46
33:CF:189:ALA:HB3	33:CF:196:LEU:HB3	1.96	0.46
48:BU:36:ASN:ND2	48:BU:39:VAL:HG21	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:1081:G:OP1	35:CH:16:THR:OG1	2.34	0.46
10:AN:13:ASN:ND2	10:AN:97:ARG:HB2	2.31	0.46
6:AG:95:ARG:O	6:AG:96:ARG:O	2.34	0.46
52:CC:68:C:H2'	52:CC:69:G:H8	1.79	0.46
39:CL:10:ARG:HG3	39:CL:105:ASP:HB2	1.98	0.46
2:AB:37:C:O2	14:AQ:95:HIS:NE2	2.49	0.46
54:CA:1009:G:O2'	54:CA:1010:G:H5'	2.16	0.46
53:C1:44:U:O2'	53:C1:45:U:P	2.74	0.46
54:CA:767:A:H2'	54:CA:768:A:O4'	2.16	0.46
21:AV:82:ARG:HH11	21:AV:82:ARG:HG2	1.81	0.46
21:DV:81:ARG:HG3	21:DV:81:ARG:O	2.15	0.46
55:DA:1080:A:O2'	58:DL:126:MET:N	2.49	0.46
58:DL:80:LYS:O	58:DL:81:ALA:HB2	2.15	0.46
57:DY:24:PHE:CG	57:DY:25:PHE:N	2.81	0.46
21:AV:144:LEU:HG	21:AV:174:VAL:CG2	2.45	0.46
28:A6:17:LYS:O	28:A6:18:ARG:CB	2.64	0.46
30:A8:39:LYS:O	30:A8:40:GLU:CB	2.64	0.46
11:AO:62:LEU:CD1	30:A8:27:THR:HG22	2.46	0.46
1:AA:886:C:N3	1:AA:890:A:N1	2.64	0.46
22:A3:2:ALA:C	22:A3:3:HIS:O	2.53	0.46
1:AA:943:U:OP2	11:AO:36:LYS:HE3	2.16	0.46
49:BV:9:VAL:CG1	49:BV:10:PHE:N	2.74	0.46
15:AR:60:THR:HG22	15:AR:77:PRO:HA	1.98	0.46
30:D8:50:LEU:O	30:D8:51:ALA:C	2.53	0.46
55:DA:483:A:O5'	55:DA:484:C:H5	1.99	0.46
46:CS:55:ARG:C	46:CS:57:ARG:N	2.68	0.46
17:A2:1:MET:N	17:A2:16:PRO:HD3	2.31	0.46
17:A2:96:ILE:CG2	17:A2:99:ILE:HD11	2.46	0.46
3:AD:237:GLU:O	3:AD:238:GLY:C	2.54	0.46
17:A2:75:PHE:CD2	17:A2:81:TYR:CD1	3.03	0.46
4:AE:58:ARG:O	4:AE:59:VAL:C	2.54	0.46
55:DA:558:G:OP1	9:DM:111:PRO:HD2	2.16	0.46
7:DH:127:GLU:HG2	7:DH:128:PRO:HD3	1.98	0.46
54:CA:1454:G:OP1	50:CW:39:LYS:NZ	2.40	0.46
50:CW:39:LYS:HB2	50:CW:55:ILE:HG21	1.97	0.46
1:AA:2567:G:H2'	1:AA:2568:C:C6	2.51	0.46
1:AA:2061:G:O2'	1:AA:2062:A:P	2.74	0.46
3:AD:152:GLY:O	3:AD:154:LYS:HG3	2.16	0.46
21:AV:157:LEU:N	21:AV:158:PRO:CD	2.78	0.46
6:DG:7:LEU:C	6:DG:7:LEU:HD23	2.37	0.46
55:DA:1191:G:OP1	11:DO:32:THR:HB	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1116:C:H2'	31:BA:1117:G:C5'	2.25	0.46
31:BA:1346:A:O2'	31:BA:1347:G:O4'	2.34	0.46
39:BL:103:THR:HG22	39:BL:105:ASP:H	1.81	0.46
7:DH:54:ARG:HB2	7:DH:55:PRO:HD2	1.97	0.46
21:AV:57:ILE:CG2	21:AV:58:VAL:N	2.79	0.46
1:AA:2654:A:O2'	1:AA:2655:G:H4'	2.16	0.46
55:DA:2134:A:C2	55:DA:2159:G:H1'	2.51	0.46
13:A0:84:ALA:N	13:A0:85:PRO:CD	2.79	0.46
46:CS:20:VAL:CG2	46:CS:34:GLU:O	2.63	0.46
15:DR:111:ARG:O	15:DR:112:ARG:CG	2.59	0.46
55:DA:2146:C:H4'	55:DA:2147:G:N7	2.31	0.46
55:DA:1813:G:H2'	55:DA:1814:G:H5'	1.98	0.46
6:DG:98:ARG:HA	6:DG:101:ILE:HG12	1.97	0.46
24:AW:51:ARG:HH21	24:AW:55:ARG:HH22	1.63	0.46
55:DA:1557:C:H5"	55:DA:1558:A:OP2	2.15	0.46
55:DA:1171:G:C6	55:DA:1174:A:C6	3.04	0.46
1:AA:639:U:C2	1:AA:640:C:C5	3.03	0.46
31:BA:4:U:N3	38:BK:102:ARG:NH1	2.63	0.46
55:DA:687:C:H2'	55:DA:687:C:O2	2.16	0.46
1:AA:1060:U:H1'	1:AA:1062:G:H5'	1.98	0.46
55:DA:811:U:C4	11:DO:21:ARG:NH2	2.84	0.46
11:DO:42:SER:O	11:DO:43:GLY:C	2.51	0.46
55:DA:2751:G:C2	7:DH:3:ARG:CB	2.99	0.46
1:AA:1204:A:O2'	1:AA:1205:U:C5'	2.60	0.46
19:DT:12:VAL:HG13	19:DT:17:ALA:CB	2.45	0.46
33:BF:18:TRP:HE1	44:BQ:53:LEU:C	2.20	0.46
33:BF:34:LEU:CB	33:BF:38:ARG:HH21	2.28	0.46
1:AA:1779:U:C6	1:AA:1783:A:N7	2.84	0.46
55:DA:1509:C:H3'	55:DA:1510:A:C5'	2.46	0.46
13:D0:51:LEU:HD22	13:D0:66:VAL:HG13	1.98	0.46
13:A0:16:HIS:O	13:A0:19:ALA:HB3	2.16	0.46
38:BK:97:VAL:HA	38:BK:100:ILE:CD1	2.40	0.46
11:DO:38:GLN:HG2	11:DO:45:LEU:CD1	2.45	0.46
15:DR:28:VAL:HG21	15:DR:86:ILE:HD11	1.98	0.46
55:DA:536:A:OP1	16:D1:53:ARG:NH1	2.49	0.46
1:AA:49:A:C4'	1:AA:50:U:H5'	2.42	0.46
49:CV:3:ARG:HH11	49:CV:3:ARG:CG	2.29	0.46
10:DN:65:THR:HA	10:DN:82:ASN:HA	1.97	0.46
24:AW:12:GLU:HG3	24:AW:13:ALA:N	2.30	0.46
54:CA:108:G:N1	50:CW:15:ARG:NH2	2.56	0.46
22:A3:27:GLU:HA	22:A3:67:VAL:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CT:5:VAL:HA	47:CT:59:ILE:O	2.16	0.46
48:BU:62:GLU:O	48:BU:65:ILE:HD12	2.16	0.46
54:CA:1352:C:OP1	51:CX:3:LYS:NZ	2.47	0.46
1:AA:2188:C:H2'	1:AA:2189:U:O4'	2.16	0.46
47:BT:69:LYS:C	47:BT:70:ARG:HD2	2.36	0.46
3:DD:79:VAL:HG21	3:DD:111:LEU:HD21	1.97	0.46
7:AH:10:PRO:HG3	7:AH:69:ARG:NE	2.31	0.46
55:DA:163:U:OP2	55:DA:164:U:C5	2.69	0.46
16:D1:85:LYS:HZ2	16:D1:117:GLN:HG2	1.79	0.46
13:D0:45:ARG:HA	13:D0:95:THR:HG21	1.98	0.46
55:DA:2747:G:O6	55:DA:2754:U:H3'	2.16	0.46
31:BA:388:G:H4'	31:BA:389:A:OP2	2.16	0.46
54:CA:865:A:H5'	54:CA:1078:U:C4	2.51	0.46
1:AA:276:A:C4	1:AA:277:C:H5	2.33	0.46
52:CB:69:G:H2'	52:CB:70:G:H5''	1.98	0.46
19:DT:29:TRP:CZ2	19:DT:76:ARG:NH2	2.84	0.46
2:DB:106:G:O2'	2:DB:107:U:H5'	2.17	0.46
31:BA:758:G:C5'	31:BA:880:C:H1'	2.46	0.46
1:AA:460:A:H3'	1:AA:461:C:H6	1.80	0.46
52:BB:42:C:H2'	52:BB:43:C:H6	1.81	0.46
12:AP:137:TYR:O	12:AP:138:ASP:C	2.54	0.46
1:AA:699:A:H4'	1:AA:1634:A:N7	2.31	0.46
54:CA:708:C:H2'	54:CA:709:G:H8	1.81	0.46
55:DA:2228:G:C6	55:DA:2229:C:C4	3.03	0.46
1:AA:1733:G:C2'	1:AA:1734:C:H5'	2.46	0.46
55:DA:2361:A:OP1	30:D8:27:THR:OG1	2.33	0.46
54:CA:28:G:H2'	54:CA:29:G:O4'	2.15	0.46
37:BJ:53:LYS:HE2	37:BJ:53:LYS:HA	1.98	0.46
34:CG:18:LYS:NZ	34:CG:34:GLU:HG2	2.31	0.46
54:CA:138:G:O2'	54:CA:139:G:H5'	2.15	0.46
55:DA:1059:G:O2'	58:DL:73:PRO:CG	2.64	0.45
57:DY:12:THR:CG2	57:DY:58:LEU:HD13	2.46	0.45
1:AA:896:A:H4'	1:AA:897:C:OP1	2.15	0.45
21:AV:103:ARG:HD3	21:AV:104:PHE:O	2.16	0.45
26:A4:59:PHE:HB3	26:A4:60:GLN:NE2	2.31	0.45
11:AO:55:ARG:HG2	11:AO:56:SER:N	2.25	0.45
43:BP:79:LYS:HE2	43:BP:82:MET:HE3	1.97	0.45
1:AA:383:U:O2	1:AA:385:C:N4	2.49	0.45
1:AA:2493:U:H2'	1:AA:2494:G:O4'	2.16	0.45
1:AA:952:G:C6	1:AA:966:G:C6	3.04	0.45
42:CO:92:ASP:O	42:CO:94:PRO:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:DV:113:ALA:O	21:DV:115:GLY:N	2.49	0.45
3:DD:106:ILE:HD11	3:DD:196:VAL:HG13	1.98	0.45
6:AG:61:ALA:HB2	6:AG:67:LYS:HA	1.99	0.45
15:AR:85:LYS:HG3	15:AR:86:ILE:N	2.31	0.45
30:A8:16:ILE:HG21	30:A8:57:ARG:HH11	1.81	0.45
54:CA:1008:C:H5'	54:CA:1008:C:H6	1.81	0.45
54:CA:973:G:C6	54:CA:974:A:C6	3.04	0.45
33:CF:30:ARG:HB2	44:CQ:36:PHE:O	2.17	0.45
44:CQ:42:ILE:O	44:CQ:43:CYS:C	2.54	0.45
49:CV:88:LYS:O	49:CV:89:ALA:C	2.54	0.45
55:DA:2875:C:O2'	15:DR:5:ALA:CB	2.64	0.45
4:DE:62:PRO:C	4:DE:63:LEU:HD23	2.36	0.45
30:D8:33:ASN:O	30:D8:35:GLN:N	2.49	0.45
55:DA:2285:C:C5	28:D6:27:LYS:CE	2.99	0.45
57:DY:105:PRO:O	57:DY:106:GLN:O	2.34	0.45
17:A2:16:PRO:HA	17:A2:96:ILE:O	2.15	0.45
17:A2:95:LEU:HD22	17:A2:97:LYS:HB2	1.98	0.45
11:DO:67:MET:H	11:DO:68:GLN:NE2	2.14	0.45
4:AE:51:PHE:CE2	4:AE:52:LEU:HG	2.51	0.45
4:AE:63:LEU:O	4:AE:66:HIS:CG	2.69	0.45
4:AE:89:ASP:O	4:AE:90:THR:HB	2.15	0.45
9:DM:94:HIS:C	9:DM:95:PRO:O	2.51	0.45
31:BA:890:G:H2'	31:BA:906:G:O6	2.16	0.45
32:CE:5:ILE:CG2	32:CE:221:LEU:HA	2.46	0.45
32:CE:223:ILE:O	32:CE:226:ARG:HB3	2.16	0.45
21:DV:5:LEU:O	21:DV:6:LYS:HG3	2.15	0.45
54:CA:1177:G:H2'	54:CA:1178:G:C4	2.50	0.45
5:DF:65:TRP:CB	5:DF:66:PRO:HD2	2.45	0.45
43:CP:88:ARG:O	43:CP:88:ARG:HD2	2.15	0.45
1:AA:332:A:O2'	1:AA:333:G:P	2.73	0.45
32:BE:55:PHE:HD1	32:BE:221:LEU:CD2	2.30	0.45
52:CC:53:G:H2'	52:CC:54:U:H6	1.81	0.45
13:A0:92:GLY:O	13:A0:94:TYR:CE1	2.68	0.45
1:AA:607:U:P	5:AF:103:LYS:HG3	2.56	0.45
37:BJ:113:GLU:HB3	37:BJ:118:VAL:HG23	1.97	0.45
31:BA:579:G:H2'	31:BA:580:U:H6	1.80	0.45
39:BL:46:ALA:N	39:BL:78:LYS:HZ2	2.14	0.45
1:AA:1084:A:H2'	1:AA:1085:A:C8	2.51	0.45
1:AA:849:A:H3'	1:AA:850:C:C6	2.52	0.45
25:AX:46:ASN:O	25:AX:49:LYS:HB3	2.16	0.45
8:DK:74:ASN:CG	8:DK:75:LEU:H	2.18	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AM:15:LEU:HD13	9:AM:15:LEU:C	2.37	0.45
42:BO:27:LEU:HB2	42:BO:33:ARG:CD	2.46	0.45
42:BO:28:LYS:C	42:BO:30:ALA:N	2.69	0.45
50:BW:50:GLU:CB	50:BW:100:ILE:HG12	2.43	0.45
6:AG:115:ARG:CB	6:AG:115:ARG:HH11	2.29	0.45
43:BP:7:VAL:HG22	43:BP:67:GLU:HG2	1.99	0.45
6:AG:115:ARG:HA	43:BP:7:VAL:HG11	1.98	0.45
1:AA:1206:G:H8	1:AA:1206:G:OP2	1.99	0.45
33:BF:99:VAL:HG23	33:BF:99:VAL:O	2.15	0.45
55:DA:818:G:N7	55:DA:1187:G:C6	2.84	0.45
33:CF:12:LEU:O	33:CF:16:ARG:O	2.34	0.45
35:BH:20:GLN:O	35:BH:21:ALA:C	2.54	0.45
3:DD:238:GLY:O	3:DD:239:ARG:C	2.51	0.45
34:CG:8:VAL:C	34:CG:10:ARG:N	2.68	0.45
1:AA:2173:A:C5	1:AA:2174:C:H1'	2.52	0.45
55:DA:2789:C:O2'	55:DA:2790:A:H4'	2.15	0.45
54:CA:44:G:H2'	54:CA:45:U:O4'	2.15	0.45
33:CF:35:GLU:O	33:CF:39:ILE:HG13	2.16	0.45
1:AA:449:A:C4'	16:A1:3:ARG:HH12	2.29	0.45
40:CM:4:ILE:HB	40:CM:74:ILE:CD1	2.45	0.45
31:BA:819:A:C4'	31:BA:820:U:OP2	2.63	0.45
45:BR:87:ILE:HG22	45:BR:88:ARG:N	2.22	0.45
54:CA:61:G:P	50:CW:10:LEU:HD11	2.55	0.45
55:DA:2614:A:H5''	55:DA:2615:U:OP1	2.16	0.45
19:AT:12:VAL:CG1	19:AT:27:THR:O	2.64	0.45
54:CA:780:A:H2	54:CA:803:G:C6	2.33	0.45
46:CS:49:LEU:HD22	46:CS:73:LEU:HD22	1.97	0.45
55:DA:1204:A:N1	55:DA:1241:A:C2	2.84	0.45
33:CF:44:GLU:O	33:CF:48:TYR:HB2	2.16	0.45
1:AA:839:U:H2'	1:AA:840:C:H6	1.81	0.45
7:AH:9:ILE:HD12	7:AH:49:VAL:CG1	2.43	0.45
31:BA:277:C:H5''	47:BT:68:ARG:NH2	2.31	0.45
1:AA:1274:A:N3	1:AA:1297:C:H1'	2.30	0.45
1:AA:536:A:H2'	1:AA:537:C:H6	1.81	0.45
1:AA:1824:G:H1'	3:AD:254:THR:OG1	2.15	0.45
46:CS:40:ASP:C	46:CS:42:ARG:N	2.69	0.45
55:DA:1444(A):A:H5'	55:DA:1445:C:OP2	2.16	0.45
32:BE:179:LYS:HZ3	32:BE:179:LYS:HB2	1.81	0.45
55:DA:2844:G:H3'	55:DA:2845:G:H8	1.80	0.45
54:CA:511:C:O2'	54:CA:512:U:P	2.73	0.45
52:BB:22:G:O2'	52:BB:23:A:H5'	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A0:54:LEU:HD23	13:A0:66:VAL:CG2	2.46	0.45
11:AO:123:LEU:HD23	11:AO:123:LEU:N	2.31	0.45
55:DA:1693:U:H1'	3:DD:14:ARG:NH2	2.31	0.45
3:DD:8:PRO:HB3	3:DD:14:ARG:HB2	1.97	0.45
1:AA:1810:A:H2'	1:AA:1811:G:O4'	2.17	0.45
1:AA:270(B):A:N1	1:AA:273:G:O2'	2.35	0.45
54:CA:176:C:H2'	54:CA:177:C:H6	1.81	0.45
54:CA:433:C:O2'	54:CA:434:U:H5'	2.15	0.45
1:AA:1367:A:C5'	1:AA:1368:G:OP2	2.64	0.45
55:DA:2862:G:H2'	55:DA:2863:C:C6	2.51	0.45
54:CA:1343:G:H2'	54:CA:1344:C:C6	2.51	0.45
6:DG:51:ARG:HB3	6:DG:51:ARG:NH1	2.31	0.45
2:DB:90:C:OP1	12:DP:16:ARG:CG	2.64	0.45
1:AA:2191:G:O2'	1:AA:2192:G:OP1	2.29	0.45
10:AN:13:ASN:HD21	10:AN:97:ARG:HB2	1.82	0.45
31:BA:1378:C:O2	31:BA:1378:C:H2'	2.15	0.45
23:DZ:21:ARG:HG3	23:DZ:35:THR:CG2	2.47	0.45
55:DA:314:A:O2'	55:DA:315:G:H5'	2.16	0.45
1:AA:37:C:H4'	1:AA:451:C:OP1	2.16	0.45
1:AA:2098:U:H2'	1:AA:2099:U:C6	2.52	0.45
38:BK:28:ALA:HA	38:BK:59:LEU:HG	1.97	0.45
31:BA:755:G:OP2	45:BR:65:ARG:HD3	2.15	0.45
13:D0:13:HIS:CE1	13:D0:15:SER:OG	2.68	0.45
3:DD:218:ARG:HG3	3:DD:218:ARG:HH11	1.81	0.45
58:DL:40:ALA:HA	58:DL:43:ALA:HB3	1.98	0.45
31:BA:601:C:O2'	31:BA:602:A:H5'	2.16	0.45
47:CT:83:ASP:O	47:CT:86:GLU:HB2	2.16	0.45
1:AA:2845:G:H5''	15:AR:54:ARG:O	2.15	0.45
7:AH:29:PRO:HG2	7:AH:30:LYS:CD	2.47	0.45
1:AA:2820:A:C2	13:A0:4:LEU:HD21	2.52	0.45
55:DA:1059:G:O5'	55:DA:1060:U:OP2	2.34	0.45
58:DL:11:GLN:NE2	58:DL:18:THR:HA	2.31	0.45
57:DY:23:SER:O	57:DY:24:PHE:CB	2.56	0.45
57:DY:74:LEU:N	57:DY:74:LEU:CD1	2.79	0.45
57:DY:49:ALA:CA	57:DY:84:GLU:HB2	2.45	0.45
21:AV:106:GLY:O	21:AV:107:THR:OG1	2.31	0.45
31:BA:972:C:O3'	40:BM:57:LYS:HG2	2.17	0.45
1:AA:918:A:C6	1:AA:919:G:H1'	2.51	0.45
12:AP:11:LYS:HE3	12:AP:86:GLY:O	2.17	0.45
12:AP:2:LEU:N	12:AP:2:LEU:HD12	2.30	0.45
2:AB:41:U:C4	6:AG:70:VAL:O	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:974:A:OP2	44:CQ:29:ARG:NH2	2.39	0.45
8:AK:79:ILE:O	8:AK:79:ILE:HG22	2.16	0.45
14:DQ:85:VAL:HG23	14:DQ:112:PHE:CE1	2.51	0.45
16:A1:79:PHE:C	16:A1:79:PHE:HD2	2.18	0.45
17:A2:38:LEU:HD13	17:A2:55:ALA:HB1	1.97	0.45
1:AA:2591:C:P	3:AD:239:ARG:HG3	2.57	0.45
32:CE:178:ARG:HH21	38:CK:68:ARG:HH22	1.64	0.45
32:CE:178:ARG:NH2	38:CK:68:ARG:HH22	2.14	0.45
32:CE:20:GLU:HG3	32:CE:191:ASP:HB2	1.98	0.45
1:AA:1255:U:H5'	1:AA:1256:G:H5'	1.99	0.45
11:DO:127:ALA:CA	11:DO:147:LEU:HD23	2.45	0.45
16:D1:105:VAL:HG22	17:D2:44:LYS:HG2	1.97	0.45
21:AV:44:PHE:CZ	21:AV:86:VAL:HG11	2.50	0.45
20:AU:75:ILE:HG13	20:AU:79:CYS:CA	2.32	0.45
7:AH:153:LYS:O	7:AH:155:SER:N	2.49	0.45
55:DA:2134:A:H62	55:DA:2157:G:C1'	2.14	0.45
32:BE:221:LEU:HA	32:BE:224:GLN:HG2	1.97	0.45
31:BA:1502:A:C2	31:BA:1505:G:N2	2.82	0.45
5:AF:161:GLU:O	5:AF:165:ARG:N	2.42	0.45
20:DU:9:LYS:HE3	20:DU:28:LYS:O	2.16	0.45
24:AW:51:ARG:HH21	24:AW:55:ARG:NH1	2.11	0.45
48:BU:25:THR:HG22	48:BU:42:ARG:HH12	1.81	0.45
55:DA:1725:G:O2'	55:DA:1726:G:H5'	2.16	0.45
44:CQ:13:THR:O	44:CQ:14:PRO:O	2.35	0.45
1:AA:1608:A:HO2'	1:AA:1610:A:P	2.40	0.45
31:BA:1067:A:C4'	31:BA:1068:G:O5'	2.65	0.45
33:CF:5:ILE:N	33:CF:5:ILE:HD13	2.32	0.45
33:BF:16:ARG:HB2	33:BF:16:ARG:NH1	2.31	0.45
55:DA:2729:G:N3	4:DE:187:ALA:HB2	2.32	0.45
48:CU:22:VAL:O	48:CU:23:LYS:C	2.53	0.45
40:CM:13:HIS:ND1	40:CM:14:LYS:N	2.64	0.45
11:AO:34:GLY:O	11:AO:35:HIS:C	2.54	0.45
27:A5:16:ARG:HD2	27:A5:20:ARG:NH2	2.31	0.45
55:DA:2173:A:C4	55:DA:2174:C:C1'	2.99	0.45
34:CG:10:ARG:HG2	34:CG:11:LEU:HG	1.98	0.45
34:CG:4:TYR:HE2	34:CG:7:PRO:O	1.99	0.45
14:AQ:19:LYS:O	14:AQ:20:ARG:CB	2.56	0.45
31:BA:1286:A:H5''	51:BX:25:LYS:CD	2.45	0.45
54:CA:233:C:H2'	54:CA:234:C:H6	1.80	0.45
31:BA:553:A:H2'	31:BA:554:C:O4'	2.17	0.45
54:CA:44:G:C2	54:CA:45:U:H1'	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CL:43:ALA:C	39:CL:45:ALA:H	2.19	0.45
1:AA:1728:G:H8	1:AA:1732:A:N6	2.15	0.45
31:BA:376:G:OP1	46:BS:67:THR:HG21	2.15	0.45
55:DA:1710:C:H2'	55:DA:1711:C:H6	1.81	0.45
6:AG:125:PHE:C	6:AG:127:GLY:H	2.19	0.45
43:CP:49:THR:C	43:CP:51:ALA:N	2.67	0.45
55:DA:2552:U:C2	55:DA:2554:U:H5'	2.51	0.45
1:AA:839:U:H1'	1:AA:1191:G:H1'	1.98	0.45
10:DN:80:ASP:OD2	15:DR:71:GLY:HA3	2.16	0.45
37:CJ:12:LEU:H	37:CJ:12:LEU:CD2	2.26	0.45
16:A1:31:SER:O	16:A1:34:LYS:N	2.50	0.45
37:CJ:85:TYR:CE1	37:CJ:154:TYR:HE1	2.35	0.45
30:D8:48:PHE:N	30:D8:48:PHE:CD1	2.82	0.45
24:DW:31:GLU:HB2	24:DW:53:LEU:HD11	1.97	0.45
20:DU:5:MET:HG2	20:DU:35:TYR:CE2	2.51	0.45
9:DM:26:LEU:CG	9:DM:30:ILE:HD11	2.46	0.45
41:CN:59:TYR:CE2	41:CN:63:LEU:HD11	2.51	0.45
52:CB:66:U:H2'	52:CB:67:C:C6	2.51	0.45
36:CI:67:MET:SD	36:CI:75:LEU:HD13	2.57	0.45
1:AA:1746:G:O2'	1:AA:1747:G:H5'	2.16	0.45
2:DB:69:G:H2'	2:DB:70:C:C6	2.47	0.45
38:CK:65:TYR:N	38:CK:65:TYR:CD1	2.84	0.45
54:CA:1171:G:H2'	54:CA:1172:C:H6	1.79	0.45
55:DA:2023:G:H4'	55:DA:2617:C:O3'	2.16	0.45
1:AA:304:G:H2'	1:AA:305:U:C6	2.51	0.45
54:CA:335:C:H2'	54:CA:336:C:C6	2.51	0.45
33:CF:188:LEU:HB3	33:CF:189:ALA:H	1.49	0.45
55:DA:92:G:H2'	55:DA:93:C:H6	1.81	0.45
1:AA:1555:G:O2'	1:AA:1556:C:H5'	2.17	0.45
1:AA:270(N):G:H1'	1:AA:270(P):C:C1'	2.46	0.45
5:AF:75:HIS:CE1	5:AF:82:ILE:HD11	2.51	0.45
41:BN:85:ARG:HE	41:BN:111:ASP:HB3	1.80	0.45
32:CE:115:LEU:O	32:CE:119:GLU:HB2	2.16	0.45
54:CA:300:A:H2'	54:CA:301:G:O5'	2.17	0.45
1:AA:594:U:H2'	1:AA:595:C:C6	2.51	0.45
45:CR:69:TYR:CE1	45:CR:73:GLU:HG3	2.51	0.45
32:CE:23:ARG:HG2	32:CE:23:ARG:HH11	1.81	0.45
1:AA:357:A:H2'	1:AA:358:U:C6	2.51	0.45
55:DA:1066:U:C3'	55:DA:1066:U:O2	2.63	0.45
56:DI:24:ILE:C	56:DI:26:ALA:H	2.20	0.45
58:DL:112:MET:HE2	58:DL:123:ALA:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:17:LEU:O	57:DY:22:GLY:HA3	2.16	0.45
28:A6:47:THR:OG1	28:A6:48:VAL:N	2.49	0.45
1:AA:1358:G:H2'	1:AA:1359:A:OP2	2.16	0.45
2:AB:96:G:C6	2:AB:97:G:N7	2.85	0.45
12:AP:85:LYS:HG3	12:AP:86:GLY:H	1.79	0.45
54:CA:533:A:H4'	54:CA:534:U:OP1	2.16	0.45
54:CA:626:U:H2'	54:CA:627:G:H8	1.81	0.45
3:DD:72:LYS:HG2	3:DD:103:ARG:NH2	2.30	0.45
26:A4:24:THR:HG22	26:A4:25:TYR:H	1.80	0.45
2:AB:43:C:P	6:AG:67:LYS:NZ	2.90	0.45
6:AG:60:LEU:C	6:AG:62:LEU:N	2.70	0.45
6:AG:63:ILE:HD11	6:AG:155:MET:HE1	1.99	0.45
54:CA:1006:C:O2'	54:CA:1007:C:H5'	2.16	0.45
54:CA:1037:C:H2'	54:CA:1038:C:H6	1.80	0.45
49:CV:85:LYS:HG2	49:CV:86:GLU:N	2.30	0.45
16:A1:110:VAL:O	16:A1:113:ALA:HB3	2.16	0.45
4:AE:81:ILE:O	4:AE:82:ARG:HB3	2.17	0.45
9:DM:96:GLU:O	9:DM:98:VAL:HG12	2.16	0.45
54:CA:1145:C:C5'	54:CA:1146:A:OP1	2.64	0.45
32:CE:78:GLN:HB3	32:CE:94:ASN:HD22	1.81	0.45
31:BA:1003:G:N3	31:BA:1004:A:O3'	2.49	0.45
55:DA:1266:G:O2'	55:DA:1267:U:P	2.74	0.45
55:DA:1140:C:H5''	9:DM:66:LYS:NZ	2.32	0.45
54:CA:277:C:H5''	47:CT:68:ARG:NH2	2.31	0.45
31:BA:36:C:C2'	31:BA:37:U:H5'	2.46	0.45
5:AF:17:ARG:C	5:AF:17:ARG:HD3	2.36	0.45
26:D4:62:ARG:HG3	26:D4:62:ARG:O	2.16	0.45
20:DU:9:LYS:HA	20:DU:27:VAL:CG2	2.46	0.45
25:AX:4:LEU:HD21	25:AX:56:VAL:CG1	2.43	0.45
1:AA:1991:U:O2'	1:AA:1992:G:H5''	2.17	0.45
31:BA:1452:C:C2'	31:BA:1453:G:OP2	2.64	0.45
35:BH:15:ARG:HH22	53:B1:55:U:P	2.40	0.45
7:DH:19:VAL:CG1	7:DH:20:ALA:N	2.79	0.45
6:AG:115:ARG:HA	43:BP:7:VAL:CG1	2.46	0.45
11:AO:11:GLY:O	11:AO:12:ALA:CB	2.64	0.45
1:AA:1528:A:C6	1:AA:1545:A:N1	2.84	0.45
4:DE:92:THR:HG22	4:DE:93:VAL:N	2.31	0.45
50:BW:26:ASN:HB3	50:BW:71:THR:OG1	2.16	0.45
55:DA:2162:G:H2'	55:DA:2163:C:C6	2.52	0.45
36:CI:14:LEU:HB3	36:CI:18:GLN:HE21	1.81	0.45
1:AA:2879:C:H5'	1:AA:2880:C:OP1	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1238:A:C8	31:BA:1303:C:H1'	2.51	0.45
1:AA:1946:U:H2'	1:AA:1947:C:H6	1.79	0.45
1:AA:1288:U:H2'	1:AA:1327:C:O2	2.16	0.45
55:DA:2887:U:O2'	55:DA:2888:C:H5'	2.16	0.45
4:DE:115:GLY:O	4:DE:119:ARG:HB2	2.16	0.45
1:AA:530:G:C2'	1:AA:531:C:OP2	2.64	0.45
55:DA:26:G:H1'	55:DA:514:A:H61	1.77	0.45
1:AA:107:C:C2	1:AA:108:U:C5	3.03	0.45
31:BA:393:A:H5'	31:BA:483:C:O2'	2.17	0.45
55:DA:1416:G:H2'	55:DA:1417:C:C6	2.51	0.45
55:DA:626:U:H5'	55:DA:627:A:C5'	2.47	0.45
55:DA:1956:U:C4	55:DA:1957:C:C5	3.05	0.45
54:CA:657:G:C2	54:CA:658:G:C8	3.04	0.45
18:AS:14:PRO:HB3	18:AS:18:ARG:NH2	2.29	0.45
31:BA:485:G:C2'	31:BA:486:U:OP2	2.64	0.45
39:BL:113:LYS:N	39:BL:113:LYS:CD	2.80	0.45
3:DD:115:GLN:HG2	3:DD:116:GLN:O	2.16	0.45
21:DV:53:ILE:HG22	21:DV:71:VAL:O	2.16	0.45
55:DA:752:A:H4'	55:DA:753:C:O5'	2.17	0.45
37:CJ:155:ARG:N	37:CJ:155:ARG:CD	2.78	0.45
7:AH:50:VAL:O	7:AH:50:VAL:HG22	2.16	0.45
1:AA:69:C:O2	1:AA:69:C:H2'	2.16	0.45
55:DA:396:G:O3'	23:DZ:44:PRO:HA	2.16	0.45
12:DP:31:ASP:OD1	12:DP:134:ARG:HD2	2.17	0.45
9:DM:30:ILE:O	9:DM:34:LEU:CD2	2.64	0.45
1:AA:2112:G:C2'	1:AA:2113:U:H5''	2.46	0.45
5:AF:153:SER:HB2	5:AF:190:GLU:N	2.30	0.45
55:DA:1445:C:H2'	55:DA:1446:C:C6	2.50	0.45
13:D0:91:GLN:NE2	13:D0:91:GLN:N	2.62	0.45
5:DF:132:VAL:HG23	5:DF:133:ASN:N	2.31	0.45
37:BJ:76:ARG:HG2	37:BJ:76:ARG:NH1	2.31	0.45
18:AS:20:VAL:HG23	18:AS:47:VAL:HG21	1.98	0.45
55:DA:2533:A:H2'	55:DA:2534:A:H5'	1.98	0.45
8:AK:1:MET:O	8:AK:3:VAL:HG13	2.16	0.45
54:CA:674:G:H2'	54:CA:675:A:H8	1.80	0.45
55:DA:1449:A:H5'	55:DA:1449(A):G:OP2	2.16	0.45
55:DA:1773:A:N7	55:DA:1829:A:C1'	2.80	0.45
55:DA:846:C:HO2'	55:DA:847:U:P	2.39	0.45
55:DA:903:C:H2'	55:DA:904:C:C6	2.51	0.45
55:DA:550:G:N3	55:DA:1220:A:C2	2.84	0.45
31:BA:1388:C:H2'	31:BA:1389:C:H6	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:98:VAL:C	3:DD:100:GLY:H	2.19	0.45
31:BA:339:C:H2'	31:BA:340:U:H6	1.80	0.45
1:AA:1195:G:O2'	1:AA:1196:C:H5'	2.15	0.45
55:DA:21:A:H2'	55:DA:22:C:O4'	2.15	0.45
31:BA:513:C:H2'	31:BA:514:C:C6	2.52	0.45
31:BA:228:A:H2'	31:BA:229:U:C6	2.51	0.45
55:DA:979:G:H3'	55:DA:980:A:H5''	1.98	0.45
34:BG:76:ARG:O	34:BG:79:PHE:HB3	2.17	0.45
55:DA:2001:A:H2'	55:DA:2002:G:C8	2.52	0.45
54:CA:591:U:OP2	38:CK:30:ARG:NH1	2.48	0.45
8:AK:66:GLU:HA	8:AK:66:GLU:OE1	2.16	0.45
52:CC:65:G:H2'	52:CC:66:U:C6	2.51	0.45
56:DI:16:THR:CG2	56:DI:17:VAL:HG22	2.44	0.45
57:DY:38:HIS:HB3	57:DY:40:LEU:H	1.81	0.45
1:AA:896:A:H2	21:AV:178:GLU:CG	2.27	0.45
43:BP:81:LEU:O	43:BP:82:MET:C	2.54	0.45
1:AA:859:G:O2'	1:AA:860:U:C6	2.69	0.45
3:AD:43:ARG:CB	3:AD:54:ARG:HB2	2.47	0.45
43:BP:15:VAL:O	43:BP:17:VAL:N	2.50	0.45
15:AR:96:ARG:HH11	15:AR:96:ARG:CB	2.30	0.45
30:A8:14:VAL:CG1	30:A8:15:LYS:N	2.77	0.45
54:CA:956:U:O2	54:CA:960:U:C5	2.69	0.45
33:CF:29:TYR:CD1	44:CQ:36:PHE:CE1	3.05	0.45
8:AK:125:GLU:CA	8:AK:141:LYS:HB3	2.40	0.45
46:CS:81:ARG:CB	46:CS:81:ARG:HH11	2.29	0.45
14:DQ:106:ARG:O	14:DQ:107:GLU:CB	2.64	0.45
55:DA:767:U:O2'	55:DA:768:G:H5'	2.17	0.45
28:D6:44:ARG:O	28:D6:45:LYS:HG2	2.17	0.45
1:AA:747:U:O4'	27:A5:2:ALA:HB3	2.17	0.45
1:AA:2590:A:O2'	1:AA:2591:C:H5'	2.17	0.45
55:DA:2415:G:H4'	11:DO:66:GLY:C	2.36	0.45
17:A2:69:LYS:HA	17:A2:87:HIS:O	2.15	0.45
9:DM:112:LEU:O	9:DM:112:LEU:HD23	2.17	0.45
39:BL:3:GLN:HA	39:BL:19:LEU:O	2.17	0.45
1:AA:2092:U:C6	1:AA:2092:U:C5'	2.99	0.45
52:BD:16:U:H2'	52:BD:16:U:O2	2.16	0.45
52:BD:46:G:N2	52:BD:47:U:O2'	2.50	0.45
31:BA:696:A:H1'	31:BA:786:G:O2'	2.17	0.45
13:D0:53:HIS:HB2	13:D0:94:TYR:HE1	1.81	0.45
52:CD:58:A:H2'	52:CD:60:U:OP2	2.17	0.45
17:D2:39:LEU:N	17:D2:39:LEU:CD1	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:265:G:H4'	47:CT:66:SER:CA	2.46	0.45
54:CA:255:G:H1'	47:CT:16:GLN:NE2	2.31	0.45
21:AV:59:LEU:O	21:AV:60:GLU:HG2	2.17	0.45
1:AA:310:A:O2'	1:AA:311:A:O5'	2.28	0.45
20:AU:80:GLY:O	20:AU:81:LYS:HG3	2.16	0.45
47:CT:62:SER:CB	47:CT:72:ARG:NE	2.79	0.45
32:BE:212:GLN:O	32:BE:216:SER:N	2.45	0.45
32:BE:60:ASP:HA	32:BE:63:MET:HE2	1.97	0.45
55:DA:226:G:O2'	55:DA:227:A:P	2.74	0.45
15:DR:106:SER:HA	15:DR:110:ILE:HB	1.98	0.45
1:AA:621:A:H2'	1:AA:622:G:O5'	2.16	0.45
54:CA:1346:A:H5'	39:CL:120:ARG:NH1	2.31	0.45
12:DP:118:LEU:O	12:DP:119:ARG:C	2.55	0.45
11:AO:97:PRO:O	11:AO:98:GLU:CB	2.62	0.45
54:CA:91:C:O2'	54:CA:92:G:H5''	2.17	0.45
36:BI:8:ILE:HD12	36:BI:8:ILE:N	2.31	0.45
31:BA:1106:G:H2'	31:BA:1107:C:C6	2.49	0.45
34:CG:147:ALA:HB2	34:CG:182:LYS:CB	2.46	0.45
33:BF:34:LEU:CG	33:BF:38:ARG:HH21	2.30	0.45
33:BF:39:ILE:C	33:BF:41:GLY:N	2.69	0.45
54:CA:859:A:H2'	54:CA:860:A:O4'	2.17	0.45
55:DA:1819:A:H5''	3:DD:158:ALA:HB3	1.97	0.45
3:DD:12:SER:HB2	3:DD:208:LYS:HB3	1.97	0.45
14:AQ:62:LYS:HB3	14:AQ:97:ARG:CD	2.47	0.45
48:BU:50:ILE:HD12	48:BU:70:ILE:HD12	1.98	0.45
54:CA:382:A:H2'	54:CA:383:A:H8	1.77	0.45
2:DB:15:A:H1'	2:DB:109:G:C4	2.51	0.45
46:BS:7:ALA:CB	46:BS:20:VAL:HG11	2.39	0.45
1:AA:2815:C:C2	1:AA:2816:C:C6	3.04	0.45
54:CA:184:G:H2'	54:CA:185:A:H8	1.82	0.45
34:BG:61:LYS:HZ2	34:BG:62:GLN:NE2	2.14	0.45
34:BG:88:VAL:HG13	35:BH:97:GLY:CA	2.47	0.45
54:CA:1060:C:C5	33:CF:2:GLY:HA3	2.50	0.45
1:AA:2335:A:HO2'	1:AA:2336:A:P	2.36	0.45
11:DO:11:GLY:O	11:DO:12:ALA:HB3	2.13	0.45
54:CA:16:A:O2'	54:CA:17:U:H5'	2.16	0.45
55:DA:1385:G:HO2'	55:DA:1386:C:H6	1.61	0.45
47:BT:10:VAL:HA	47:BT:20:THR:O	2.16	0.45
1:AA:2851:A:C2'	1:AA:2852:G:O5'	2.65	0.45
1:AA:2851:A:H2'	1:AA:2852:G:O5'	2.16	0.45
8:AK:56:LYS:HG3	8:AK:57:ARG:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:80:ILE:HG23	38:CK:137:VAL:HG13	1.98	0.45
3:AD:165:ILE:HD13	3:AD:175:LEU:CD2	2.46	0.45
1:AA:1117:G:O2'	1:AA:1118:C:H5'	2.16	0.45
31:BA:330:C:H5''	31:BA:330:C:H6	1.80	0.45
23:DZ:80:LEU:CD2	23:DZ:80:LEU:O	2.64	0.45
30:D8:48:PHE:N	30:D8:48:PHE:HD1	2.12	0.45
1:AA:1825:A:O4'	3:AD:254:THR:HG21	2.16	0.45
33:BF:125:GLU:HG2	33:BF:190:ARG:O	2.17	0.45
52:CD:65:G:N3	52:CD:65:G:H2'	2.31	0.45
1:AA:278:A:N3	1:AA:279:C:C6	2.85	0.45
31:BA:645:C:H2'	31:BA:646:U:C6	2.52	0.45
43:BP:108:ARG:HH11	43:BP:108:ARG:HG3	1.82	0.45
12:DP:25:ASP:HA	12:DP:100:GLY:O	2.16	0.45
5:AF:21:ALA:HB3	5:AF:23:ASP:CG	2.37	0.45
45:BR:3:ILE:HG22	45:BR:38:ARG:NE	2.32	0.45
38:CK:63:LEU:HD22	38:CK:63:LEU:N	2.30	0.45
55:DA:1638:C:H4'	55:DA:2710:C:O2	2.17	0.45
18:AS:75:TYR:CZ	18:AS:104:THR:HG21	2.51	0.45
1:AA:1449:A:O2'	1:AA:1530:G:N2	2.35	0.45
15:DR:133:GLU:HA	15:DR:136:GLN:HG2	1.98	0.45
3:AD:53:PHE:HA	3:AD:218:ARG:HB2	1.98	0.45
54:CA:1337:G:H5''	54:CA:1338:G:OP1	2.15	0.45
55:DA:2638:G:P	4:DE:82:ARG:NH2	2.89	0.45
27:A5:30:LEU:HA	27:A5:42:PRO:HD3	1.98	0.45
32:BE:124:SER:C	32:BE:126:GLU:H	2.19	0.45
52:BC:15:G:H2'	52:BC:16:U:C6	2.51	0.45
55:DA:2399:G:H2'	55:DA:2400:G:O4'	2.17	0.45
1:AA:1039:G:O2'	1:AA:1040:C:H5'	2.16	0.45
35:BH:91:LEU:HA	35:BH:120:THR:HG22	1.97	0.45
31:BA:491:G:O2'	31:BA:492:G:H5'	2.17	0.45
55:DA:1374:G:C5	55:DA:1375:C:C5	3.04	0.45
1:AA:1322:A:O2'	1:AA:1323:U:H5'	2.17	0.45
37:CJ:63:LYS:HG3	37:CJ:64:GLN:N	2.31	0.45
55:DA:2820:A:O4'	13:D0:4:LEU:HD23	2.17	0.45
1:AA:2000:G:HO2'	1:AA:2689:U:H5	1.63	0.45
4:AE:95:ILE:CD1	4:AE:95:ILE:N	2.79	0.45
55:DA:1055:G:H2'	55:DA:1056:G:C5'	2.44	0.45
55:DA:1060:U:C4'	55:DA:1061:U:O5'	2.53	0.45
56:DI:1:MET:HB3	56:DI:5:ILE:HG22	1.98	0.45
57:DY:138:LEU:HD22	56:DJ:22:GLN:OE1	2.16	0.45
57:DY:73:GLY:CA	57:DY:119:ALA:HA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:131:MET:C	57:DY:133:GLU:N	2.70	0.45
57:DY:49:ALA:HA	57:DY:83:TYR:HB3	1.98	0.45
31:BA:1320:C:N3	49:BV:36:ARG:HG3	2.32	0.45
1:AA:2393:A:H2'	1:AA:2394:C:O4'	2.17	0.45
11:AO:61:ARG:O	11:AO:62:LEU:CB	2.55	0.45
55:DA:1902:C:H5'	3:DD:246:PRO:HD3	1.98	0.45
55:DA:897:C:OP1	55:DA:897:C:H5	1.84	0.45
21:DV:108:PRO:HG3	21:DV:142:SER:O	2.16	0.45
54:CA:624:C:H2'	54:CA:625:G:C8	2.51	0.45
31:BA:1315:U:O2	31:BA:1360:A:H2	2.00	0.45
15:AR:16:ARG:NE	15:AR:19:LEU:HD11	2.31	0.45
15:AR:94:ALA:C	15:AR:96:ARG:N	2.68	0.45
43:CP:84:ILE:HD13	49:CV:65:ASN:CG	2.36	0.45
57:DY:141:VAL:O	57:DY:142:LEU:C	2.55	0.45
54:CA:975:A:H4'	54:CA:1358:U:H1'	1.98	0.45
28:D6:14:THR:O	28:D6:49:HIS:HA	2.16	0.45
16:A1:83:LEU:HD12	16:A1:88:ILE:HD11	1.97	0.45
16:A1:92:ARG:NH1	17:A2:11:GLN:CD	2.69	0.45
1:AA:1343:G:H2'	1:AA:1343:G:N3	2.31	0.45
31:BA:414:A:OP2	31:BA:428:G:N2	2.46	0.45
1:AA:2791:C:N3	1:AA:2792:G:C5	2.85	0.45
1:AA:1048:A:N6	7:AH:2:SER:OG	2.49	0.45
21:AV:131:ARG:CG	21:AV:131:ARG:NH1	2.58	0.45
1:AA:2059:A:H5'	1:AA:2060:A:OP2	2.17	0.45
17:D2:35:LEU:C	17:D2:37:VAL:H	2.20	0.45
21:AV:58:VAL:O	21:AV:59:LEU:HB2	2.15	0.45
7:AH:152:ARG:O	7:AH:153:LYS:CB	2.65	0.45
1:AA:483:A:C5'	20:AU:49:VAL:HG13	2.43	0.45
4:DE:3:GLY:O	4:DE:4:ILE:HB	2.16	0.45
5:AF:124:LEU:HG	5:AF:126:VAL:CG1	2.47	0.45
30:D8:61:LEU:C	30:D8:63:PRO:HD2	2.37	0.45
1:AA:1822:G:H8	1:AA:1822:G:H5'	1.81	0.45
45:CR:54:ARG:NH1	45:CR:54:ARG:HG2	2.31	0.45
52:CD:73:A:H8	52:CD:73:A:H5'	1.80	0.45
8:DK:3:VAL:CB	8:DK:37:VAL:O	2.65	0.45
39:BL:53:VAL:C	39:BL:55:ALA:N	2.69	0.45
55:DA:2646:C:H2'	55:DA:2647:U:O4'	2.16	0.45
21:DV:72:ARG:O	21:DV:73:GLN:HB2	2.17	0.45
4:AE:36:ARG:HG2	4:AE:36:ARG:HH11	1.81	0.45
55:DA:1048:A:H3'	55:DA:1049:C:H5'	1.97	0.45
55:DA:1006:C:O2'	9:DM:106:MET:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BW:23:ARG:HA	50:BW:26:ASN:HD21	1.81	0.45
50:BW:25:ARG:HG2	50:BW:29:LYS:NZ	2.32	0.45
38:CK:41:ARG:HH11	38:CK:41:ARG:HB3	1.79	0.45
1:AA:603:A:HO2'	1:AA:604:G:P	2.40	0.45
1:AA:1851:U:H4'	52:BD:70:G:N2	2.32	0.45
54:CA:412:A:O2'	54:CA:413:G:P	2.75	0.45
55:DA:301:G:O2'	55:DA:302:C:P	2.74	0.45
35:CH:12:LEU:CD2	35:CH:13:ILE:N	2.77	0.45
3:DD:134:ARG:CB	3:DD:135:PHE:CD2	2.95	0.45
54:CA:1295:G:O2'	43:CP:14:ARG:NH1	2.45	0.45
11:AO:124:LYS:HG3	11:AO:143:GLY:C	2.37	0.45
54:CA:1299:A:C6	54:CA:1301:U:C2	3.04	0.45
54:CA:1301:U:C2'	54:CA:1301:U:O2	2.64	0.45
50:CW:13:LEU:CD1	50:CW:17:ARG:NH1	2.78	0.45
32:CE:138:LEU:C	32:CE:140:HIS:H	2.18	0.45
38:CK:91:ARG:NH1	38:CK:91:ARG:CG	2.77	0.45
33:BF:81:GLY:O	33:BF:82:GLU:CB	2.64	0.45
46:CS:76:GLN:O	46:CS:76:GLN:CG	2.64	0.45
55:DA:1416:G:O2'	55:DA:1417:C:O5'	2.34	0.45
35:BH:103:GLY:O	35:BH:104:ALA:C	2.53	0.45
55:DA:1853:A:H2'	55:DA:1854:A:C8	2.52	0.45
32:BE:100:GLY:O	32:BE:101:MET:C	2.55	0.45
50:BW:56:MET:HG3	50:BW:84:LEU:HD11	1.95	0.45
42:BO:89:ARG:HH12	42:BO:91:LYS:HA	1.82	0.45
31:BA:783:C:N4	31:BA:800:G:N2	2.65	0.45
54:CA:1032:A:O5'	54:CA:1032(A):G:H5''	2.16	0.45
1:AA:2154:G:O2'	1:AA:2155:G:H5'	2.17	0.45
31:BA:577:G:C8	31:BA:816:A:C6	3.04	0.45
44:CQ:8:GLU:C	44:CQ:10:ALA:H	2.20	0.45
55:DA:2773:C:OP1	4:DE:166:THR:OG1	2.35	0.45
31:BA:1498:U:O2'	31:BA:1499:A:P	2.74	0.45
31:BA:1058:G:H2'	31:BA:1059:C:H6	1.81	0.45
15:AR:98:LYS:N	15:AR:98:LYS:CD	2.79	0.45
34:CG:92:VAL:O	34:CG:96:LEU:HD22	2.16	0.45
54:CA:9:G:H5'	35:CH:122:GLU:OE2	2.17	0.45
12:DP:57:HIS:NE2	12:DP:116:GLU:HG2	2.31	0.45
55:DA:616:A:H4'	55:DA:617:G:OP1	2.16	0.45
1:AA:315:G:H2'	1:AA:316:C:O4'	2.16	0.45
6:AG:72:ARG:HG3	6:AG:72:ARG:NH1	2.31	0.45
5:DF:117:ARG:HH21	5:DF:187:VAL:HA	1.82	0.45
1:AA:2271:G:H5''	22:A3:20:ARG:NE	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BD:44:G:H2'	52:BD:45:U:C6	2.52	0.45
32:BE:119:GLU:C	32:BE:121:LEU:H	2.20	0.45
1:AA:2451:A:H5'	52:BC:76:A:C2	2.51	0.45
6:DG:39:ILE:HB	6:DG:92:VAL:CG1	2.47	0.45
54:CA:1091:U:O2	54:CA:1093:A:C8	2.70	0.45
7:AH:29:PRO:HG2	7:AH:30:LYS:HD2	1.98	0.45
55:DA:843:G:O2'	55:DA:844:C:H5'	2.16	0.45
33:CF:87:LEU:C	33:CF:89:GLU:N	2.67	0.45
55:DA:1398:C:O2'	55:DA:1399:C:H5'	2.15	0.45
49:BV:86:GLU:HA	49:BV:86:GLU:OE1	2.16	0.45
15:DR:14:TYR:CD1	15:DR:14:TYR:N	2.83	0.45
1:AA:1575:C:H2'	1:AA:1575:C:O2	2.16	0.45
15:AR:137:LYS:NZ	15:AR:137:LYS:HB3	2.32	0.45
55:DA:2143:C:H2'	55:DA:2144:U:O4'	2.17	0.45
1:AA:2820:A:O5'	13:A0:4:LEU:CD2	2.62	0.45
58:DL:60:TYR:OH	58:DL:66:THR:CG2	2.64	0.45
58:DL:76:TYR:O	58:DL:79:ARG:N	2.50	0.45
57:DY:74:LEU:HB2	57:DY:120:LYS:HE2	1.99	0.45
57:DY:59:ILE:O	57:DY:61:LEU:N	2.49	0.45
1:AA:894:C:H5'	1:AA:895:U:OP2	2.17	0.45
21:AV:149:SER:HB2	21:AV:151:HIS:CE1	2.52	0.45
1:AA:2372:G:H1'	28:A6:46:HIS:HE1	1.79	0.45
1:AA:887:A:H2	43:BP:79:LYS:HE3	1.81	0.45
43:BP:79:LYS:C	43:BP:79:LYS:HD3	2.36	0.45
1:AA:1029:A:H2'	1:AA:1030:G:O4'	2.16	0.45
2:AB:81:G:N2	2:AB:82:G:C6	2.84	0.45
25:AX:19:GLN:NE2	25:AX:52:HIS:CE1	2.85	0.45
54:CA:101:A:C2	54:CA:102:G:C8	3.05	0.45
2:AB:44:G:N2	2:AB:48:A:N3	2.65	0.45
6:AG:101:ILE:CD1	26:A4:25:TYR:HB2	2.46	0.45
54:CA:1331:G:OP2	43:CP:23:TYR:CD2	2.69	0.45
54:CA:1026:G:C2	54:CA:1027:C:H1'	2.51	0.45
17:A2:98:GLU:HA	17:A2:98:GLU:OE1	2.16	0.45
1:AA:1930:G:N2	1:AA:1968:G:H2'	2.32	0.45
34:BG:2:GLY:O	34:BG:3:ARG:HB2	2.16	0.45
6:AG:47:LYS:NZ	6:AG:81:LYS:HG2	2.32	0.45
4:AE:68:ALA:HA	4:AE:71:GLY:HA2	1.98	0.45
7:DH:97:ARG:O	7:DH:125:VAL:HG11	2.17	0.45
31:BA:890:G:HO2'	31:BA:891:U:H5	1.61	0.45
54:CA:1126:U:OP2	54:CA:1281:U:O2	2.35	0.45
31:BA:794:A:N3	31:BA:795:C:C2	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:885:C:N3	55:DA:892:G:C2	2.85	0.45
5:DF:65:TRP:CZ3	5:DF:73:ALA:O	2.69	0.45
1:AA:2522:U:C2'	1:AA:2523:G:H5''	2.47	0.45
37:BJ:47:CYS:O	37:BJ:50:ILE:HB	2.17	0.45
9:AM:27:ALA:HB1	9:AM:103:VAL:HG22	1.97	0.45
21:AV:133:ILE:N	21:AV:133:ILE:CD1	2.79	0.45
20:AU:40:GLU:N	20:AU:40:GLU:OE2	2.49	0.45
20:AU:17:SER:HB3	20:AU:71:LYS:HB3	1.98	0.45
1:AA:2654:A:O2'	1:AA:2655:G:C4'	2.65	0.45
1:AA:2665:A:H2'	1:AA:2666:C:H6	1.81	0.45
55:DA:1534:G:H5''	55:DA:1534:G:C8	2.51	0.45
5:AF:24:LEU:HD12	5:AF:25:PRO:HD2	1.99	0.45
9:AM:129:PRO:O	9:AM:130:HIS:C	2.54	0.45
55:DA:608:A:C2	55:DA:621:A:N7	2.85	0.45
1:AA:93:C:H2'	1:AA:93:C:O2	2.17	0.45
55:DA:228:A:O2'	55:DA:229:A:OP1	2.35	0.45
54:CA:191(F):U:O2'	54:CA:191:G:H5'	2.17	0.45
1:AA:685:A:OP1	1:AA:686:G:N2	2.50	0.45
1:AA:654(N):G:C8	1:AA:654(N):G:OP1	2.70	0.45
1:AA:608:A:C2	1:AA:621:A:N7	2.85	0.45
37:CJ:15:ASP:OD2	37:CJ:44:TYR:OH	2.35	0.45
35:CH:148:VAL:CG2	38:CK:107:LEU:HD22	2.37	0.45
39:BL:78:LYS:HB2	39:BL:78:LYS:HZ2	1.80	0.45
1:AA:1102:C:C2'	1:AA:1103:A:H5''	2.46	0.45
20:AU:89:PHE:O	20:AU:90:LEU:O	2.34	0.45
33:CF:174:PRO:C	33:CF:176:HIS:H	2.20	0.45
17:D2:89:GLN:HE21	17:D2:89:GLN:CA	2.07	0.45
17:D2:25:LEU:H	17:D2:92:THR:CG2	2.30	0.45
55:DA:1167:U:H2'	55:DA:1168:G:H8	1.81	0.45
24:AW:26:ARG:NH1	24:AW:26:ARG:CB	2.80	0.45
44:CQ:14:PRO:O	44:CQ:15:LYS:HB2	2.16	0.45
5:DF:197:ASP:C	5:DF:199:TRP:H	2.20	0.45
33:BF:148:GLY:O	33:BF:203:PHE:N	2.43	0.45
36:BI:15:ASP:OD1	36:BI:16:GLN:N	2.49	0.45
54:CA:1367:C:OP1	39:CL:114:TYR:HA	2.16	0.45
33:BF:94:LEU:HD12	33:BF:95:THR:N	2.31	0.45
33:CF:14:ILE:CG1	33:CF:15:THR:N	2.79	0.45
7:AH:13:LYS:HA	7:AH:13:LYS:NZ	2.31	0.45
55:DA:528:A:H3'	55:DA:529:A:C5'	2.47	0.45
41:BN:120:ARG:HA	41:BN:121:PRO:HD3	1.79	0.45
35:CH:140:ARG:CB	35:CH:140:ARG:NH1	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1525:G:H2'	55:DA:1526:G:H8	1.82	0.45
11:DO:41:ARG:NH2	11:DO:41:ARG:CG	2.79	0.45
55:DA:535:C:O3'	16:D1:53:ARG:NH1	2.49	0.45
1:AA:2215:G:O2'	1:AA:2216:G:H5'	2.17	0.45
42:CO:6:THR:HG23	42:CO:9:GLN:HE21	1.81	0.45
54:CA:1148:U:H2'	54:CA:1149:C:H5'	1.98	0.45
1:AA:2884:U:OP2	27:A5:43:HIS:HE1	1.98	0.45
39:CL:40:LEU:C	39:CL:42:ARG:H	2.20	0.45
31:BA:148:G:H2'	31:BA:149:A:H8	1.82	0.45
55:DA:2197:U:O2'	55:DA:2198:A:P	2.75	0.45
55:DA:2:G:H2'	55:DA:3:U:H6	1.82	0.45
54:CA:539:A:OP2	42:CO:115:LYS:HE3	2.16	0.45
19:DT:3:THR:O	19:DT:6:ASP:HB2	2.16	0.45
26:D4:21:VAL:O	26:D4:24:THR:HG23	2.17	0.45
4:DE:116:VAL:O	4:DE:117:MET:HB3	2.16	0.45
10:DN:104:ARG:NH1	15:DR:36:GLU:CD	2.70	0.45
9:DM:71:ILE:HG22	9:DM:86:PRO:HA	1.99	0.45
55:DA:2615:U:H2'	55:DA:2616:C:C6	2.51	0.45
15:AR:102:ILE:C	15:AR:102:ILE:HD12	2.36	0.45
32:BE:102:LEU:N	32:BE:102:LEU:HD12	2.32	0.45
52:CB:9:A:HO2'	52:CB:10:G:P	2.38	0.45
31:BA:626:U:C2	31:BA:627:G:C8	3.05	0.45
1:AA:214:G:H21	1:AA:216:A:H1'	1.82	0.45
34:CG:104:VAL:O	34:CG:105:VAL:C	2.55	0.45
55:DA:971:C:OP1	55:DA:974:G:C8	2.70	0.45
31:BA:848:C:O2'	31:BA:849:C:H5'	2.16	0.45
44:CQ:8:GLU:C	44:CQ:10:ALA:N	2.68	0.45
1:AA:1278:A:H2'	1:AA:1279:G:C8	2.52	0.45
20:DU:4:LYS:O	20:DU:5:MET:O	2.35	0.45
21:DV:122:ARG:NH1	21:DV:122:ARG:HG2	2.32	0.45
51:CX:12:LYS:HE2	51:CX:19:GLY:N	2.31	0.45
35:CH:67:VAL:HG22	35:CH:68:GLU:N	2.31	0.45
1:AA:284:U:O2'	1:AA:285:C:H5'	2.16	0.45
54:CA:748:C:HO2'	54:CA:749:C:P	2.34	0.45
14:DQ:24:LEU:N	14:DQ:24:LEU:HD22	2.32	0.45
34:CG:52:SER:HB3	34:CG:55:ALA:CB	2.47	0.45
14:AQ:49:VAL:HG22	14:AQ:80:LEU:HD12	1.98	0.45
14:DQ:38:GLN:HG3	14:DQ:47:THR:HG21	1.98	0.45
55:DA:1970:A:H1'	55:DA:1972:A:C8	2.51	0.45
18:AS:1:MET:CE	18:AS:2:GLU:H	2.30	0.45
1:AA:2093:G:H21	1:AA:2198:A:N6	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1341:U:O4	19:DT:16:LYS:HE2	2.16	0.45
55:DA:808:G:O2'	55:DA:809:G:H5'	2.16	0.45
34:CG:74:GLN:HA	34:CG:77:ASN:HD22	1.80	0.45
1:AA:1131:G:C8	1:AA:2025:C:H4'	2.51	0.45
55:DA:940:G:H3'	55:DA:941:A:H5''	1.98	0.45
1:AA:1639:U:C2'	1:AA:1640:C:H5''	2.46	0.45
54:CA:1418:A:H2	55:DA:1948:G:N3	2.14	0.45
55:DA:321:G:HO2'	55:DA:340:A:C2'	2.30	0.45
14:DQ:25:ARG:NH1	14:DQ:25:ARG:HB3	2.32	0.45
29:A7:13:ALA:O	29:A7:17:GLY:HA3	2.16	0.45
31:BA:270:A:H2'	31:BA:271:C:O4'	2.17	0.45
3:DD:118:VAL:HG22	3:DD:119:ALA:N	2.32	0.45
31:BA:1463:C:O2'	31:BA:1464:G:H5'	2.17	0.45
37:CJ:31:MET:SD	37:CJ:36:LYS:HB2	2.57	0.45
1:AA:1507:A:O2'	1:AA:1510:A:N1	2.49	0.45
1:AA:380:U:O3'	23:AZ:16:ASN:HB2	2.17	0.45
26:A4:49:PHE:CZ	43:BP:61:GLU:O	2.70	0.45
43:BP:109:THR:O	43:BP:109:THR:HG22	2.16	0.45
17:A2:10:LYS:N	17:A2:10:LYS:HD2	2.31	0.45
11:AO:118:GLY:O	11:AO:119:GLU:C	2.55	0.45
1:AA:2577:A:H5''	1:AA:2578:G:H5'	1.99	0.45
15:AR:1:MET:O	15:AR:3:ARG:N	2.46	0.45
58:DL:10:LEU:HB2	58:DL:11:GLN:H	1.54	0.45
58:DL:19:PRO:HD3	58:DL:38:VAL:CG1	2.43	0.45
58:DL:52:ILE:O	58:DL:53:VAL:C	2.54	0.45
57:DY:112:LEU:HD13	57:DY:121:ASP:CG	2.34	0.45
57:DY:10:LEU:O	57:DY:11:ALA:O	2.35	0.45
57:DY:122:VAL:CG1	57:DY:126:ALA:HB2	2.42	0.45
57:DY:23:SER:HB3	57:DY:68:LEU:CB	2.31	0.45
21:DV:194:PRO:O	21:DV:196:VAL:CG1	2.62	0.45
49:BV:23:ASN:O	49:BV:26:GLY:N	2.48	0.45
28:A6:26:ASN:C	28:A6:27:LYS:HD3	2.36	0.45
1:AA:2406:U:C4	11:AO:72:PRO:HB2	2.52	0.45
12:AP:46:GLN:O	12:AP:47:ILE:C	2.54	0.45
21:DV:111:VAL:HG21	21:DV:146:ILE:N	2.31	0.45
3:DD:34:VAL:CG1	3:DD:34:VAL:O	2.59	0.45
3:DD:85:ASP:HB2	3:DD:92:ILE:HG13	1.99	0.45
43:BP:15:VAL:HG12	43:BP:45:VAL:HG22	1.99	0.45
15:AR:90:GLN:CA	15:AR:90:GLN:HE21	2.23	0.45
26:D4:55:ARG:O	26:D4:57:GLU:N	2.49	0.45
54:CA:1003:G:H21	54:CA:1005:A:P	2.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1180:C:C2'	55:DA:1181:C:C5'	2.94	0.45
17:A2:35:LEU:HD23	17:A2:37:VAL:HG21	1.98	0.45
17:A2:41:GLY:N	17:A2:46:VAL:CG1	2.79	0.45
4:DE:13:ARG:CA	4:DE:21:VAL:HA	2.47	0.45
17:A2:80:GLN:N	17:A2:80:GLN:NE2	2.64	0.45
1:AA:2791:C:N4	1:AA:2792:G:O6	2.49	0.45
55:DA:2353:G:H5''	22:D3:32:ARG:NH1	2.32	0.45
31:BA:1126:U:H5''	31:BA:1280:A:N7	2.32	0.45
1:AA:1111:A:H5'	7:AH:3:ARG:NH1	2.32	0.45
31:BA:278:G:O4'	31:BA:282:A:H1'	2.16	0.45
32:CE:70:PHE:O	32:CE:93:VAL:N	2.49	0.45
31:BA:1025:U:O2'	31:BA:1026:G:O4'	2.31	0.45
27:D5:2:ALA:O	27:D5:3:LYS:HB2	2.16	0.45
13:D0:96:ARG:HG3	13:D0:96:ARG:HH11	1.82	0.45
52:CD:59:U:H2'	52:CD:60:U:O4'	2.17	0.45
55:DA:1340:U:HO2'	55:DA:1602:U:H2'	1.80	0.45
54:CA:1176:A:N6	54:CA:1177:G:C2	2.85	0.45
31:BA:1372:U:OP1	39:BL:71:SER:HB3	2.16	0.45
21:AV:96:VAL:O	21:AV:96:VAL:HG12	2.15	0.45
9:DM:133:GLN:CB	9:DM:135:PRO:HD3	2.42	0.45
5:AF:7:TYR:O	5:AF:17:ARG:N	2.49	0.45
32:BE:10:LEU:O	32:BE:13:ALA:CB	2.65	0.45
55:DA:621:A:H2'	55:DA:622:G:H5'	1.98	0.45
3:AD:30:GLU:CG	3:AD:63:ARG:NH2	2.79	0.45
46:CS:19:ILE:CG2	46:CS:36:ILE:HG13	2.43	0.45
2:DB:40:U:C2'	2:DB:41:U:OP1	2.65	0.45
1:AA:1820:U:C4	3:AD:160:GLY:HA3	2.51	0.45
6:DG:145:THR:HG22	26:D4:28:LYS:NZ	2.30	0.45
6:DG:58:GLN:HE22	6:DG:148:MET:CE	2.30	0.45
1:AA:61:G:OP1	24:AW:50:ILE:HD13	2.17	0.45
5:AF:103:LYS:HA	5:AF:106:ARG:HG3	1.98	0.45
55:DA:442:G:O4'	5:DF:46:ARG:HD3	2.17	0.45
39:CL:111:ARG:O	39:CL:113:LYS:HD2	2.17	0.45
35:CH:72:GLN:C	35:CH:74:GLY:N	2.69	0.45
48:BU:22:VAL:HG22	48:BU:23:LYS:N	2.30	0.45
39:BL:48:GLU:N	39:BL:49:PRO:HD2	2.32	0.45
49:BV:31:ILE:HG23	49:BV:49:ILE:HA	1.99	0.45
55:DA:774:A:H2	55:DA:787:U:C2'	2.30	0.45
31:BA:533:A:O2'	31:BA:535:A:OP2	2.34	0.45
33:BF:115:LEU:O	33:BF:116:VAL:C	2.55	0.45
1:AA:1060:U:H1'	1:AA:1062:G:C4'	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:DO:19:VAL:HG13	11:DO:20:GLY:N	2.32	0.45
50:CW:87:LYS:O	50:CW:90:GLN:N	2.49	0.45
3:AD:70:TRP:O	3:AD:73:VAL:HG22	2.16	0.45
31:BA:197:A:H4'	31:BA:198:G:O5'	2.16	0.45
31:BA:197:A:N6	31:BA:221:C:C5'	2.79	0.45
17:A2:12:TYR:CG	17:A2:20:LEU:HD21	2.52	0.45
35:CH:140:ARG:HB2	35:CH:140:ARG:NH1	2.32	0.45
55:DA:2657:A:H2'	55:DA:2658:C:H5'	1.98	0.45
36:CI:72:VAL:CG1	36:CI:73:ASN:N	2.78	0.45
34:BG:159:ARG:O	34:BG:160:GLN:C	2.55	0.45
55:DA:2115:G:C1'	55:DA:2171:A:H61	2.30	0.45
35:CH:108:ALA:O	35:CH:112:LEU:HG	2.17	0.45
31:BA:210:U:O2'	31:BA:216:G:P	2.75	0.45
4:AE:124:GLY:HA2	4:AE:137:HIS:O	2.15	0.45
31:BA:560:U:H4'	31:BA:561:U:C5'	2.47	0.45
5:AF:63:LYS:CE	5:AF:67:GLN:CB	2.95	0.45
2:AB:17:C:O2'	2:AB:18:G:H5'	2.17	0.45
31:BA:149:A:O2'	31:BA:150:C:H5'	2.17	0.45
8:AK:35:LEU:O	8:AK:36:ALA:HB2	2.17	0.45
55:DA:2428:G:H5''	55:DA:2429:G:OP1	2.16	0.45
26:D4:12:ALA:HB1	26:D4:30:GLU:N	2.22	0.45
4:DE:119:ARG:HB3	4:DE:120:TRP:CD1	2.52	0.45
10:DN:104:ARG:HG3	10:DN:122:LEU:O	2.17	0.45
1:AA:222:A:O2'	1:AA:223:A:P	2.75	0.45
41:CN:34:ASP:HB2	41:CN:35:PRO:CD	2.47	0.45
14:AQ:110:LEU:HA	14:AQ:112:PHE:CE1	2.51	0.45
54:CA:1351:U:O2'	54:CA:1352:C:H5'	2.17	0.45
52:CB:4:C:H2'	52:CB:5:G:H8	1.82	0.45
55:DA:469:G:C2'	55:DA:470:A:H5''	2.46	0.45
55:DA:782:A:N1	3:DD:226:MET:HE1	2.31	0.45
31:BA:1411:C:H2'	31:BA:1412:C:C6	2.51	0.45
55:DA:372:G:HO2'	55:DA:373:U:H5	1.61	0.45
13:A0:41:ALA:HB1	13:A0:97:VAL:HG11	1.99	0.45
54:CA:328:C:HO2'	54:CA:329:A:P	2.35	0.45
28:A6:52:VAL:CG1	28:A6:53:LYS:N	2.80	0.45
1:AA:1812:A:H2'	1:AA:1813:G:C8	2.52	0.45
55:DA:2165:G:C2'	55:DA:2166:G:H5'	2.46	0.45
1:AA:2365:G:H4'	22:A3:60:PHE:CZ	2.52	0.45
32:BE:67:THR:HG22	32:BE:90:MET:HE1	1.98	0.45
32:BE:67:THR:HG22	32:BE:90:MET:CE	2.46	0.45
36:BI:53:ALA:O	36:BI:54:LYS:CB	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:301:G:O2'	1:AA:302:C:O4'	2.34	0.45
1:AA:303:U:C2	1:AA:304:G:C8	3.04	0.45
26:A4:67:TYR:HD2	26:A4:67:TYR:C	2.20	0.45
1:AA:1195:G:N3	1:AA:1227:A:H2	2.14	0.45
55:DA:1893:C:O2'	55:DA:1894:C:H5'	2.17	0.45
31:BA:989:C:H1'	31:BA:1016:A:H2	1.81	0.45
55:DA:1914:C:H2'	55:DA:1915:U:O4'	2.17	0.45
14:DQ:30:ARG:HG2	14:DQ:30:ARG:HH11	1.81	0.45
21:AV:35:ARG:NH1	21:AV:35:ARG:HB3	2.32	0.45
39:CL:11:LYS:O	39:CL:11:LYS:HD2	2.17	0.45
4:AE:95:ILE:CD1	4:AE:95:ILE:H	2.30	0.45
55:DA:1059:G:N2	58:DL:126:MET:HB3	2.31	0.45
55:DA:1086:A:H4'	55:DA:1103:A:N6	2.32	0.45
58:DL:100:THR:O	58:DL:104:VAL:HG23	2.17	0.45
58:DL:122:ALA:C	58:DL:124:ALA:N	2.69	0.45
58:DL:145:LYS:HA	58:DL:145:LYS:HD2	1.74	0.45
58:DL:8:VAL:H	58:DL:57:ILE:CD1	2.30	0.45
57:DY:134:LEU:HA	57:DY:137:GLU:CB	2.46	0.45
55:DA:1083:U:C5'	57:DY:41:ARG:HD3	2.47	0.45
57:DY:51:LEU:HD23	57:DY:51:LEU:HA	1.57	0.45
21:AV:182:LYS:HD3	21:AV:183:LEU:H	1.82	0.45
52:BB:18:G:HO2'	52:BB:19:G:P	2.40	0.45
21:DV:197:ILE:O	21:DV:198:LYS:O	2.35	0.45
26:A4:61:ARG:O	26:A4:62:ARG:NH1	2.49	0.45
49:BV:40:ILE:HA	49:BV:44:MET:HE3	1.99	0.45
1:AA:2346:A:N6	28:A6:28:ARG:NH2	2.64	0.45
30:A8:38:GLY:C	30:A8:41:ILE:HG22	2.36	0.45
1:AA:957:A:N6	1:AA:2494:G:N2	2.64	0.45
1:AA:918:A:H2'	1:AA:919:G:H5'	1.99	0.45
54:CA:101:A:O2'	54:CA:102:G:H5'	2.16	0.45
43:BP:5:ALA:HB2	43:BP:22:ILE:CD1	2.45	0.45
51:BX:9:ARG:NH2	51:BX:10:ARG:NE	2.62	0.45
54:CA:974:A:H1'	44:CQ:31:ARG:HE	1.82	0.45
15:DR:27:THR:HA	15:DR:48:ILE:HA	1.98	0.45
16:A1:88:ILE:O	16:A1:90:VAL:N	2.49	0.45
17:A2:97:LYS:HG2	17:A2:97:LYS:O	2.17	0.45
19:AT:36:LYS:HE3	19:AT:54:VAL:O	2.17	0.45
21:DV:95:PRO:HA	21:DV:128:VAL:O	2.17	0.45
1:AA:2888:C:H2'	1:AA:2889:C:C6	2.52	0.45
11:DO:75:ILE:CG1	11:DO:77:ARG:HH12	2.29	0.45
32:CE:167:PRO:HG3	32:CE:188:ALA:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1007:C:H2'	31:BA:1008:C:C5'	2.33	0.45
31:BA:1028(B):C:H3'	31:BA:1029:G:C5'	2.47	0.45
34:CG:173:TRP:HZ3	34:CG:193:ASP:HB3	1.78	0.45
9:DM:63:THR:CG2	9:DM:66:LYS:NZ	2.80	0.45
35:BH:31:LEU:CD2	35:BH:43:LEU:HD11	2.26	0.45
55:DA:1312:U:O2'	55:DA:1313:U:P	2.75	0.45
1:AA:1005:C:C5	1:AA:1143:A:H1'	2.51	0.45
31:BA:397:A:C3'	31:BA:397:A:N3	2.71	0.45
21:AV:5:LEU:O	21:AV:6:LYS:C	2.55	0.45
1:AA:2656:U:N3	1:AA:2665:A:C2	2.84	0.45
37:BJ:84:ASN:HB2	52:BD:37:MIA:C14	2.47	0.45
9:DM:15:LEU:HD13	9:DM:15:LEU:C	2.37	0.45
5:AF:113:ALA:HB2	5:AF:183:VAL:HG12	1.98	0.45
32:BE:15:VAL:C	32:BE:16:HIS:ND1	2.70	0.45
32:BE:60:ASP:HA	32:BE:63:MET:CE	2.47	0.45
46:CS:21:VAL:O	46:CS:33:ILE:HG12	2.17	0.45
55:DA:2419:U:H5'	28:D6:23:THR:HG21	1.98	0.45
55:DA:111:A:C2'	55:DA:112:U:H5'	2.47	0.45
20:AU:13:VAL:CG2	20:AU:14:LEU:N	2.79	0.45
45:CR:51:HIS:O	45:CR:54:ARG:HB3	2.17	0.45
4:AE:102:VAL:HA	4:AE:201:THR:HG1	1.82	0.45
1:AA:2898:U:C2	1:AA:2899:G:N7	2.85	0.45
39:BL:55:ALA:HA	39:BL:58:HIS:CD2	2.52	0.45
39:BL:46:ALA:CA	39:BL:78:LYS:HZ2	2.29	0.45
53:C1:30:C:N3	53:C1:31:A:C8	2.84	0.45
55:DA:858:U:OP2	22:D3:77:ARG:NH2	2.33	0.45
54:CA:91:C:C2'	54:CA:92:G:C5'	2.94	0.45
1:AA:1699:G:O2'	1:AA:1700:A:P	2.75	0.45
1:AA:2031:A:N3	1:AA:2455:G:O2'	2.37	0.45
55:DA:586:A:H5'	5:DF:89:VAL:HG21	1.98	0.45
9:DM:74:ARG:O	9:DM:83:LYS:N	2.40	0.45
34:CG:157:LEU:O	34:CG:161:ASN:ND2	2.50	0.45
55:DA:1048:A:N7	55:DA:1049:C:C5	2.85	0.45
7:AH:115:VAL:HG11	7:AH:148:ILE:HD12	1.98	0.45
1:AA:908:C:OP1	12:AP:22:LYS:HG3	2.17	0.45
31:BA:701:C:C2'	31:BA:702:A:OP2	2.65	0.45
52:BC:18:G:C5'	52:BC:19:G:OP2	2.55	0.45
1:AA:2130:U:C6	1:AA:2130:U:H3'	2.52	0.45
15:DR:33:LYS:HE2	15:DR:84:GLN:CB	2.47	0.45
31:BA:1238:A:C2	31:BA:1241:G:N3	2.85	0.45
3:AD:144:ALA:HB3	3:AD:192:THR:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:201:C:O2'	31:BA:208:U:P	2.75	0.45
31:BA:560:U:H4'	31:BA:561:U:H5''	1.99	0.45
43:CP:14:ARG:H	43:CP:44:ARG:HD2	1.81	0.45
33:CF:34:LEU:HD23	33:CF:35:GLU:N	2.32	0.45
1:AA:2836:U:C4	1:AA:2883:A:N6	2.84	0.45
54:CA:451:A:N7	54:CA:481:G:C2	2.85	0.45
54:CA:1132:C:H2'	54:CA:1133:G:H8	1.81	0.45
54:CA:1134:G:H2'	54:CA:1135:U:H5'	1.99	0.45
54:CA:1333:A:H2'	54:CA:1334:G:O4'	2.17	0.45
54:CA:198:G:N2	54:CA:220:G:H1'	2.31	0.45
8:DK:23:PRO:O	8:DK:27:ARG:HG2	2.15	0.45
54:CA:61:G:H2'	54:CA:62:U:O4'	2.17	0.45
26:D4:30:GLU:O	26:D4:31:ILE:O	2.35	0.45
16:A1:56:ASP:O	16:A1:59:ARG:HB2	2.16	0.45
5:AF:9:ILE:HG12	5:AF:15:SER:N	2.32	0.45
55:DA:414:C:H2'	55:DA:415:A:C8	2.52	0.45
4:DE:131:ALA:CB	4:DE:135:HIS:HE1	2.24	0.45
54:CA:1350:A:C5	54:CA:1351:U:C4	3.04	0.45
31:BA:984:C:O2'	31:BA:985:C:H5'	2.17	0.45
5:AF:172:TRP:CD2	5:AF:173:VAL:HG23	2.52	0.45
31:BA:1261:A:H2'	31:BA:1262:C:H5'	1.97	0.45
14:AQ:66:ALA:HA	14:AQ:69:VAL:HG12	1.98	0.45
31:BA:1190:G:C5'	33:BF:176:HIS:NE2	2.79	0.45
38:BK:114:THR:HG22	38:BK:130:GLY:O	2.17	0.45
55:DA:956:G:OP2	12:DP:14:ARG:NH2	2.50	0.45
54:CA:1245:A:OP2	51:CX:9:ARG:NH1	2.50	0.45
37:BJ:135:VAL:O	37:BJ:138:LYS:N	2.50	0.45
55:DA:2804:C:O2'	55:DA:2805:G:H5'	2.17	0.45
18:DS:59:VAL:HG12	18:DS:60:ASN:ND2	2.30	0.45
54:CA:177:C:H2'	54:CA:178:C:H6	1.82	0.45
1:AA:2239:G:OP2	3:AD:244:ARG:NH2	2.40	0.45
52:BC:51:U:H2'	52:BC:52:G:C8	2.52	0.45
54:CA:1343:G:C1'	39:CL:121:ARG:HH12	2.29	0.45
37:BJ:147:ALA:C	37:BJ:149:ARG:H	2.19	0.45
15:AR:117:ASP:OD1	15:AR:120:ARG:NE	2.43	0.45
1:AA:928:G:H3'	1:AA:929:G:C8	2.52	0.45
55:DA:1980:G:H4'	55:DA:1981:A:OP2	2.17	0.45
21:DV:92:SER:O	21:DV:94:GLU:HG2	2.16	0.45
55:DA:576:U:H2'	55:DA:577:G:C8	2.52	0.45
55:DA:1825:A:OP1	3:DD:249:PRO:HD3	2.17	0.45
41:CN:12:ARG:CG	41:CN:13:GLN:N	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:D2:75:PHE:C	17:D2:75:PHE:CD1	2.90	0.45
1:AA:2362:G:H2'	1:AA:2363:C:H5'	1.98	0.45
52:CD:53:G:O2'	52:CD:54:U:H5'	2.17	0.45
55:DA:1032:A:H2	55:DA:1122:G:H22	1.65	0.45
15:AR:9:LEU:O	15:AR:12:SER:HB2	2.16	0.45
58:DL:65:PHE:HD2	58:DL:66:THR:N	2.14	0.45
57:DY:112:LEU:O	57:DY:113:GLN:CB	2.65	0.45
57:DY:16:ASN:N	57:DY:19:ARG:NH1	2.62	0.45
57:DY:55:LYS:HD2	57:DY:78:SER:O	2.17	0.45
28:A6:47:THR:HG23	28:A6:49:HIS:CE1	2.51	0.45
11:AO:64:LYS:HZ2	30:A8:30:ARG:HA	1.80	0.45
30:A8:41:ILE:H	30:A8:43:GLN:H	1.64	0.45
1:AA:2344:U:H4'	1:AA:2345:G:OP1	2.16	0.45
52:CB:18:G:O2'	52:CB:19:G:P	2.74	0.45
26:A4:12:ALA:HB3	26:A4:24:THR:CG2	2.43	0.45
1:AA:2683:C:P	15:AR:53:ARG:HH22	2.38	0.45
54:CA:1026:G:O6	54:CA:1036:G:C2	2.70	0.45
54:CA:1200:C:C4'	54:CA:1201:A:H5''	2.40	0.45
4:DE:48:GLN:HB3	4:DE:48:GLN:HE21	1.56	0.45
4:DE:55:ASN:C	4:DE:57:LYS:N	2.61	0.45
8:AK:144:VAL:HG12	8:AK:145:VAL:HG22	1.99	0.45
16:A1:91:ASP:O	16:A1:92:ARG:O	2.35	0.45
1:AA:2791:C:C4	1:AA:2792:G:C5	3.04	0.45
55:DA:2776:A:O2'	55:DA:2781:A:O2'	2.28	0.45
31:BA:1148:U:H2'	31:BA:1149:C:H5'	1.99	0.45
1:AA:2746:U:C4'	7:AH:138:LYS:HG3	2.27	0.45
40:CM:24:VAL:HG21	40:CM:37:PRO:CG	2.42	0.45
32:CE:219:VAL:HA	32:CE:222:ILE:HD12	1.99	0.45
11:DO:95:VAL:O	11:DO:96:THR:HG23	2.17	0.45
52:BD:19:G:N3	52:BD:19:G:H2'	2.32	0.45
24:DW:17:SER:CB	24:DW:18:PRO:HA	2.47	0.45
55:DA:889:C:C2'	55:DA:890:A:O4'	2.48	0.45
54:CA:1156:G:H3'	54:CA:1157:A:H5''	1.99	0.45
1:AA:1142(A):A:N7	1:AA:1144:G:C6	2.84	0.45
1:AA:310:A:HO2'	1:AA:311:A:H3'	1.82	0.45
20:AU:81:LYS:CE	20:AU:97:ARG:NH2	2.79	0.45
31:BA:828:A:H5''	31:BA:859:A:N1	2.32	0.45
2:DB:43:C:H1'	6:DG:93:THR:O	2.17	0.45
3:AD:112:GLN:O	3:AD:115:GLN:CB	2.65	0.45
52:BB:66:U:H2'	52:BB:67:C:C6	2.51	0.45
1:AA:654(J):A:H2	1:AA:654(L):G:N7	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:654(M):C:H2'	1:AA:654(N):G:OP1	2.16	0.45
55:DA:676:A:C8	55:DA:2069:G:N2	2.55	0.45
38:CK:102:ARG:O	38:CK:103:VAL:C	2.54	0.45
38:CK:102:ARG:NH1	38:CK:105:ARG:NH2	2.52	0.45
23:AZ:50:ARG:HD2	23:AZ:57:GLU:OE1	2.17	0.45
20:AU:89:PHE:HD1	20:AU:90:LEU:H	1.62	0.45
11:AO:83:VAL:CG2	11:AO:105:LEU:HD22	2.45	0.45
12:AP:134:ARG:NH1	12:AP:134:ARG:HG2	2.31	0.45
18:DS:1:MET:HE2	18:DS:2:GLU:H	1.82	0.45
33:CF:164:ARG:NH2	53:C1:56:U:O4	2.50	0.45
11:DO:18:ARG:HB3	11:DO:19:VAL:H	1.64	0.45
9:AM:65:LYS:O	9:AM:66:LYS:C	2.54	0.45
36:BI:14:LEU:HD23	36:BI:15:ASP:N	2.32	0.45
33:BF:180:ALA:O	33:BF:181:ASN:HB3	2.17	0.45
3:DD:13:ARG:NH1	3:DD:16:MET:SD	2.89	0.45
31:BA:511:C:H1'	31:BA:512:U:C6	2.52	0.45
4:DE:1:MET:H2	4:DE:84:PHE:HD2	1.65	0.45
55:DA:2654:A:C4	55:DA:2656:U:O2	2.70	0.45
6:AG:16:ARG:HE	6:AG:31:VAL:CG1	2.30	0.45
32:BE:22:LYS:CA	32:BE:22:LYS:NZ	2.79	0.45
1:AA:1829:A:N7	1:AA:1830:C:C4	2.85	0.45
1:AA:2777:G:OP2	1:AA:2781:A:O2'	2.32	0.45
31:BA:1240:U:C5	37:BJ:32:ARG:HD2	2.52	0.45
35:CH:10:MET:CA	35:CH:32:VAL:HG13	2.47	0.45
32:BE:82:ARG:HG2	32:BE:82:ARG:HH11	1.82	0.45
31:BA:210:U:C2'	31:BA:216:G:OP2	2.64	0.45
1:AA:1652:A:O3'	1:AA:1653:G:C8	2.69	0.45
54:CA:51:A:N7	54:CA:114:U:O2'	2.47	0.45
1:AA:48:G:H2'	1:AA:49:A:H2	1.82	0.45
3:DD:176:ARG:CG	3:DD:176:ARG:HH11	2.23	0.45
46:CS:72:ARG:CD	46:CS:72:ARG:C	2.85	0.45
31:BA:1512:U:N3	31:BA:1513:A:N7	2.64	0.45
48:CU:31:LEU:N	48:CU:31:LEU:HD23	2.30	0.45
33:BF:86:VAL:HG23	33:BF:87:LEU:N	2.32	0.45
10:DN:2:ILE:CD1	10:DN:82:ASN:ND2	2.78	0.45
1:AA:1613:G:C2	1:AA:1617:C:C2	3.05	0.45
31:BA:45:U:H2'	31:BA:46:G:C8	2.52	0.45
54:CA:563:A:O2'	54:CA:566:G:O2'	2.21	0.45
1:AA:1879:C:H2'	1:AA:1880:C:C5'	2.47	0.45
54:CA:815:A:HO2'	54:CA:1527:C:C1'	2.30	0.45
3:DD:79:VAL:HG11	3:DD:111:LEU:CD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1170:G:H2'	1:AA:1170:G:N3	2.31	0.45
55:DA:222:A:N6	55:DA:224:G:C2	2.85	0.45
55:DA:997:G:O2'	55:DA:998:C:H5'	2.17	0.45
43:BP:91:ARG:NH2	43:BP:96:LEU:HB3	2.32	0.45
42:BO:117:ARG:NH1	42:BO:117:ARG:HG2	2.31	0.45
50:BW:13:LEU:O	50:BW:17:ARG:HG3	2.16	0.45
18:AS:62:HIS:O	18:AS:63:ASP:O	2.35	0.45
31:BA:464:G:H1'	31:BA:468:A:H61	1.82	0.45
55:DA:2009:G:C6	55:DA:2010:G:N7	2.85	0.45
40:CM:8:LEU:HB3	40:CM:16:LEU:HD21	1.98	0.45
55:DA:2804:C:H2'	55:DA:2805:G:H8	1.78	0.45
31:BA:158:G:C2'	31:BA:159:G:H5'	2.47	0.45
34:BG:199:ASN:O	34:BG:200:GLU:HG3	2.16	0.45
1:AA:1080:A:O2'	1:AA:1081:U:H5'	2.17	0.45
52:CB:30:G:O2'	52:CB:31:A:H5'	2.17	0.45
41:CN:71:LYS:O	41:CN:74:ALA:N	2.48	0.45
55:DA:340:A:H2'	55:DA:341:G:H5'	1.99	0.45
55:DA:2692:C:O2'	55:DA:2693:A:H5'	2.17	0.45
55:DA:2642:G:O2'	55:DA:2643:G:H5'	2.17	0.45
10:DN:88:ASN:HD21	10:DN:92:GLU:HB2	1.82	0.45
55:DA:740:U:H2'	55:DA:741:G:C8	2.52	0.45
1:AA:2820:A:N6	4:AE:192:ASN:CB	2.75	0.45
55:DA:1046:A:H5''	55:DA:1046:A:N3	2.31	0.45
56:DI:7:ARG:CG	56:DI:7:ARG:HH11	2.30	0.45
58:DL:58:THR:HG21	58:DL:66:THR:CG2	2.47	0.45
58:DL:63:ARG:HB3	58:DL:64:SER:H	1.58	0.45
58:DL:72:PRO:HD2	58:DL:73:PRO:HD3	1.98	0.45
57:DY:8:GLU:CD	57:DY:52:PHE:HD1	2.18	0.45
55:DA:1106:G:H4'	57:DY:53:VAL:HG11	1.97	0.45
52:BB:17:C:H5'	52:BB:18:G:OP2	2.17	0.45
43:CP:120:LYS:CD	43:CP:120:LYS:N	2.60	0.45
26:A4:56:VAL:H	26:A4:59:PHE:HB3	1.82	0.45
31:BA:1321:C:H5'	31:BA:1322:C:H5''	1.99	0.45
49:BV:19:VAL:HG22	49:BV:44:MET:HB3	1.98	0.45
26:D4:69:LYS:CD	26:D4:70:GLY:H	2.25	0.45
1:AA:945:A:N3	1:AA:945:A:H2'	2.31	0.45
12:AP:10:ARG:HG3	12:AP:10:ARG:HH11	1.82	0.45
1:AA:910:A:N7	12:AP:13:GLN:HG3	2.32	0.45
54:CA:627:G:H2'	54:CA:628:G:H8	1.82	0.45
3:DD:69:ARG:CD	3:DD:105:ILE:HD11	2.39	0.45
31:BA:1268:A:N3	31:BA:1326:C:O2'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BP:3:ARG:HA	43:BP:8:GLU:O	2.17	0.45
1:AA:768:G:H2'	1:AA:769:G:C8	2.51	0.45
1:AA:768:G:O2'	1:AA:769:G:H5'	2.17	0.45
54:CA:1004:A:C6	54:CA:1025:U:H1'	2.51	0.45
20:DU:51:VAL:HG22	20:DU:57:GLN:HA	1.99	0.45
4:DE:55:ASN:O	4:DE:57:LYS:N	2.47	0.45
8:DK:112:LYS:O	8:DK:113:ARG:CB	2.65	0.45
28:D6:33:LYS:C	28:D6:35:GLU:H	2.18	0.45
34:BG:3:ARG:NH2	34:BG:5:ILE:CD1	2.79	0.45
33:CF:76:VAL:HG21	33:CF:103:VAL:CG1	2.47	0.45
20:AU:20:TYR:CE2	20:AU:42:VAL:N	2.85	0.45
6:DG:151:ALA:HB3	6:DG:153:ARG:HH11	1.80	0.45
52:BD:48:C:H6	52:BD:48:C:H3'	1.81	0.45
55:DA:2168:G:O4'	55:DA:2168:G:P	2.75	0.45
55:DA:1192:G:O2'	55:DA:1193:G:H5'	2.17	0.45
20:AU:81:LYS:NZ	20:AU:98:VAL:HG21	2.31	0.45
27:D5:40:LYS:HG2	27:D5:46:CYS:CB	2.45	0.45
5:AF:32:LEU:HD23	5:AF:32:LEU:C	2.38	0.45
11:DO:106:LEU:HD23	11:DO:106:LEU:HA	1.69	0.45
14:DQ:15:ARG:HG3	14:DQ:19:LYS:HE2	1.99	0.45
1:AA:141:A:H5"	1:AA:141(A):C:H5	1.82	0.45
19:AT:63:LYS:CE	19:AT:63:LYS:N	2.74	0.45
1:AA:2439:A:HO2'	1:AA:2440:C:P	2.40	0.45
24:AW:48:HIS:HD2	24:AW:48:HIS:C	2.20	0.45
1:AA:621:A:C2	1:AA:622:G:N9	2.85	0.45
8:DK:10:GLU:OE2	8:DK:11:ASN:N	2.50	0.45
55:DA:1479:G:C5'	55:DA:1558:A:H2	2.29	0.45
35:CH:79:GLU:HB3	35:CH:93:PRO:HD2	1.98	0.45
39:BL:78:LYS:CB	39:BL:78:LYS:NZ	2.80	0.45
54:CA:819:A:C5'	54:CA:820:U:OP2	2.58	0.45
1:AA:1055:G:O5'	1:AA:1055:G:H8	2.00	0.45
11:AO:110:TYR:HD2	11:AO:111:ARG:HH21	1.64	0.45
35:BH:147:ASP:OD2	35:BH:147:ASP:N	2.49	0.45
35:BH:147:ASP:O	35:BH:151:LEU:HD23	2.17	0.45
49:BV:15:LEU:HD22	49:BV:31:ILE:HD11	1.99	0.45
42:BO:57:LYS:HG2	42:BO:67:THR:HG22	1.99	0.45
43:CP:90:LEU:HD13	49:CV:78:ARG:NH2	2.31	0.45
53:C1:38:U:C2'	53:C1:39:U:H5'	2.47	0.45
18:DS:1:MET:C	18:DS:64:MET:HE3	2.36	0.45
15:AR:115:ARG:N	15:AR:115:ARG:HD3	2.18	0.45
34:CG:50:ARG:NH1	53:C1:57:U:O2'	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DW:47:ASN:ND2	24:DW:47:ASN:N	2.47	0.45
55:DA:1047:G:H2'	55:DA:1110:G:N1	2.31	0.45
55:DA:1049:C:H6	55:DA:1049:C:H5'	1.80	0.45
12:AP:120:ILE:HA	12:AP:120:ILE:HD13	1.82	0.45
1:AA:288:C:H2'	1:AA:289:A:C1'	2.47	0.45
33:BF:63:ASN:O	33:BF:64:VAL:CB	2.65	0.45
44:BQ:39:LEU:CD1	44:BQ:47:LEU:HD12	2.47	0.45
3:DD:182:LEU:HB2	3:DD:271:ILE:HB	1.99	0.45
2:DB:81:G:N2	2:DB:82:G:C5	2.85	0.45
42:CO:28:LYS:HE3	42:CO:33:ARG:HH22	1.82	0.45
31:BA:511:C:N3	31:BA:512:U:C4	2.85	0.45
48:CU:51:LEU:HB2	48:CU:56:THR:CG2	2.48	0.45
54:CA:544:G:C6	54:CA:545:C:C4	3.05	0.45
3:AD:121:PRO:HB3	3:AD:135:PHE:CE1	2.52	0.45
1:AA:2770:G:H5'	1:AA:2771:C:OP2	2.17	0.45
1:AA:2849:U:O2'	1:AA:2850:A:P	2.75	0.45
55:DA:1498:C:O4'	55:DA:1577:C:C4'	2.65	0.45
42:CO:71:PRO:CG	42:CO:99:HIS:HD2	2.26	0.45
3:DD:227:ASN:O	3:DD:230:ASP:OD2	2.34	0.45
38:CK:39:LEU:HD11	38:CK:111:ILE:HD11	1.99	0.45
55:DA:1011:G:O2'	55:DA:1013:C:C5'	2.65	0.45
8:DK:25:TYR:CE2	8:DK:29:TYR:CD2	2.95	0.45
55:DA:469:G:O6	29:D7:37:LYS:CE	2.64	0.45
31:BA:983:A:N1	31:BA:1222:G:N2	2.64	0.45
7:DH:35:VAL:CG2	7:DH:75:ALA:HB2	2.47	0.45
55:DA:347:A:H2'	55:DA:348:G:C8	2.52	0.45
21:AV:12:GLY:O	21:AV:13:GLU:O	2.35	0.45
38:BK:29:SER:HB3	38:BK:32:LYS:CB	2.46	0.45
14:AQ:54:LEU:O	14:AQ:56:LEU:N	2.46	0.45
5:DF:155:LEU:HD12	5:DF:174:VAL:HG22	1.99	0.45
32:CE:21:ARG:HG2	32:CE:21:ARG:O	2.17	0.45
15:AR:48:ILE:HD12	15:AR:48:ILE:H	1.82	0.45
55:DA:2405:G:HO2'	55:DA:2406:U:P	2.39	0.45
1:AA:781:A:C8	3:AD:219:PRO:HG3	2.52	0.45
1:AA:977:G:O2'	1:AA:978:G:H5'	2.17	0.45
55:DA:503:A:O2'	55:DA:504:U:OP2	2.33	0.45
39:BL:117:HIS:HD2	39:BL:123:PRO:HA	1.82	0.45
39:BL:27:THR:HA	39:BL:31:GLN:O	2.17	0.45
15:AR:124:ASP:O	15:AR:128:GLU:HG3	2.16	0.45
55:DA:2695:C:H2'	55:DA:2696:U:H6	1.81	0.45
23:DZ:19:GLN:O	23:DZ:35:THR:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2680:C:N3	55:DA:2681:C:N4	2.65	0.45
31:BA:1015:A:N6	31:BA:1016:A:N6	2.64	0.45
55:DA:2079:U:H2'	55:DA:2080:G:O4'	2.16	0.45
31:BA:619:U:N3	34:BG:134:ASP:OD2	2.34	0.45
52:CC:14:A:C2'	52:CC:15:G:H5'	2.47	0.45
23:DZ:7:ILE:HD13	23:DZ:69:LYS:HB3	1.99	0.45
54:CA:291:C:O2'	54:CA:292:G:H5'	2.17	0.45
6:AG:48:GLU:O	6:AG:48:GLU:HG3	2.17	0.45
37:CJ:50:ILE:O	37:CJ:50:ILE:HG22	2.16	0.45
54:CA:782:A:C8	54:CA:783:C:C5	3.05	0.45
4:AE:11:MET:CA	4:AE:24:THR:HA	2.47	0.44
56:DI:29:GLU:CG	56:DJ:6:GLU:CD	2.85	0.44
56:DJ:13:SER:CB	56:DJ:17:VAL:HG11	2.15	0.44
58:DL:125:ARG:CD	58:DL:132:ARG:NH2	2.79	0.44
58:DL:126:MET:O	58:DL:129:GLY:N	2.37	0.44
57:DY:50:ARG:H	57:DY:83:TYR:CB	2.29	0.44
43:CP:123:ALA:HB1	43:CP:124:PRO:HD2	1.97	0.44
26:A4:63:TYR:HE2	49:BV:41:VAL:CB	2.30	0.44
28:A6:17:LYS:HA	28:A6:17:LYS:CE	2.44	0.44
30:A8:32:LEU:HB2	30:A8:36:LYS:HZ1	1.82	0.44
11:AO:57:THR:O	11:AO:57:THR:CG2	2.59	0.44
26:D4:67:TYR:HB3	26:D4:68:ARG:H	1.38	0.44
1:AA:858:U:O2'	1:AA:2268:A:H1'	2.17	0.44
54:CA:531:U:C5'	54:CA:532:A:OP1	2.65	0.44
54:CA:630:G:C8	54:CA:630:G:C4'	3.00	0.44
3:DD:35:LYS:HD3	3:DD:63:ARG:HA	1.96	0.44
3:DD:95:LEU:C	3:DD:95:LEU:HD12	2.37	0.44
55:DA:1278:A:OP1	13:D0:36:THR:HG22	2.17	0.44
54:CA:1306:A:O2'	54:CA:1307:U:H5'	2.17	0.44
55:DA:2808:U:H2'	55:DA:2809:A:H5'	1.98	0.44
55:DA:1487:G:C2	55:DA:1488:G:C8	3.05	0.44
17:A2:52:VAL:O	17:A2:55:ALA:HB3	2.17	0.44
17:A2:57:VAL:HG12	17:A2:99:ILE:HA	1.99	0.44
50:CW:26:ASN:HB2	50:CW:71:THR:CG2	2.33	0.44
1:AA:2791:C:C4	1:AA:2792:G:N7	2.85	0.44
4:AE:51:PHE:O	4:AE:52:LEU:HB2	2.17	0.44
39:BL:62:TYR:C	39:BL:63:ILE:HD12	2.37	0.44
39:BL:66:ARG:CZ	39:BL:66:ARG:CB	2.94	0.44
31:BA:280:C:C2'	31:BA:280:C:O2	2.65	0.44
11:DO:88:LEU:HD12	11:DO:95:VAL:HG11	1.98	0.44
1:AA:2478:A:H3'	1:AA:2479:G:H8	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DG:110:ALA:O	6:DG:111:LEU:C	2.56	0.44
16:D1:88:ILE:CD1	16:D1:88:ILE:H	2.25	0.44
23:AZ:92:LYS:O	23:AZ:93:GLU:C	2.54	0.44
31:BA:1375:A:H4'	37:BJ:29:LYS:HZ2	1.82	0.44
1:AA:1141:U:H1'	1:AA:1142(A):A:C2	2.52	0.44
43:CP:88:ARG:HD3	43:CP:98:VAL:CG1	2.48	0.44
1:AA:99:U:C4'	1:AA:102:G:H1'	2.47	0.44
20:AU:86:ARG:O	20:AU:93:GLY:N	2.49	0.44
10:AN:12:ASP:HA	10:AN:98:VAL:HA	1.99	0.44
5:AF:155:LEU:CD2	5:AF:186:ILE:HA	2.47	0.44
13:A0:55:ALA:HA	13:A0:80:PHE:CE2	2.51	0.44
54:CA:191(E):G:H2'	54:CA:191(F):U:C6	2.52	0.44
5:AF:164:ARG:HG3	5:AF:175:THR:CG2	2.47	0.44
55:DA:102:G:OP1	24:DW:7:ARG:NH2	2.50	0.44
8:AK:5:LEU:CD1	8:AK:5:LEU:H	2.24	0.44
35:BH:55:VAL:O	35:BH:58:ALA:HB3	2.17	0.44
31:BA:1535:C:H2'	31:BA:1536:C:H5'	1.98	0.44
1:AA:2898:U:O2'	1:AA:2899:G:H5'	2.17	0.44
55:DA:1689:A:N6	55:DA:1698:A:H2	1.87	0.44
54:CA:1347:G:H5''	39:CL:107:ARG:HA	2.00	0.44
54:CA:1347:G:H22	54:CA:1374:A:P	2.39	0.44
54:CA:1346:A:C4	37:CJ:10:ARG:NH1	2.84	0.44
48:BU:22:VAL:HG11	48:BU:56:THR:HA	1.98	0.44
8:DK:52:ARG:HH11	8:DK:52:ARG:HB2	1.81	0.44
10:AN:32:TYR:CD1	10:AN:32:TYR:N	2.84	0.44
31:BA:1203:C:H2'	31:BA:1204:A:O4'	2.17	0.44
54:CA:1536:C:H1'	53:C1:37:G:H22	1.78	0.44
36:BI:8:ILE:HG22	36:BI:10:LEU:HD11	1.98	0.44
33:CF:131:ARG:HH21	53:C1:56:U:H3	1.65	0.44
22:D3:11:ARG:CZ	22:D3:11:ARG:HB2	2.45	0.44
24:DW:47:ASN:HD22	24:DW:47:ASN:N	1.91	0.44
1:AA:2614:A:H5''	1:AA:2615:U:OP1	2.17	0.44
54:CA:1191:A:P	33:CF:3:ASN:HD21	2.40	0.44
11:AO:13:ASN:C	11:AO:15:ARG:N	2.70	0.44
3:DD:13:ARG:NH2	3:DD:16:MET:HE3	2.32	0.44
7:AH:16:SER:O	7:AH:17:VAL:HB	2.18	0.44
31:BA:721:G:H1'	31:BA:722:A:N1	2.32	0.44
54:CA:1542:U:HO3'	54:CA:1542:U:P	2.29	0.44
54:CA:1228:C:P	43:CP:108:ARG:HH22	2.40	0.44
6:AG:16:ARG:NH1	6:AG:16:ARG:CG	2.78	0.44
14:AQ:60:GLY:O	14:AQ:61:ASN:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DF:34:TRP:CA	11:DO:6:LEU:HD12	2.47	0.44
11:DO:7:ARG:HA	11:DO:8:PRO:HD3	1.74	0.44
54:CA:352:C:H4'	54:CA:354:G:OP1	2.17	0.44
46:BS:48:TRP:CE3	46:BS:49:LEU:HB2	2.51	0.44
55:DA:270(J):G:H2'	55:DA:270(K):C:O4'	2.17	0.44
1:AA:1946:U:C2	1:AA:1947:C:C5	3.05	0.44
6:DG:41:GLN:HB3	6:DG:43:LEU:HD11	1.99	0.44
33:BF:73:PRO:HA	33:BF:76:VAL:CG1	2.47	0.44
33:BF:90:GLU:OE2	33:BF:93:LYS:HD2	2.17	0.44
55:DA:2866:U:O2'	55:DA:2867:G:P	2.75	0.44
31:BA:29:G:O2'	31:BA:30:U:H5'	2.16	0.44
33:CF:79:ARG:NH1	33:CF:82:GLU:HG3	2.31	0.44
50:BW:8:ARG:HG2	50:BW:8:ARG:O	2.17	0.44
35:BH:127:ASN:O	35:BH:128:PRO:C	2.55	0.44
31:BA:625:G:C4	31:BA:626:U:C5	3.05	0.44
55:DA:2331:G:C4'	22:D3:42:GLY:HA3	2.47	0.44
5:AF:20:LEU:HD13	5:AF:199:TRP:CZ3	2.52	0.44
1:AA:270(C):C:O2'	1:AA:270(D):C:H5'	2.17	0.44
36:BI:48:LEU:HD13	36:BI:52:ILE:HG13	1.98	0.44
3:DD:223:GLY:C	3:DD:225:ALA:N	2.71	0.44
1:AA:2271:G:H2'	1:AA:2272:U:H6	1.82	0.44
55:DA:439:G:H2'	55:DA:440:G:H8	1.81	0.44
11:AO:138:LEU:HD13	11:AO:144:GLU:HG2	1.98	0.44
45:BR:7:GLU:O	45:BR:11:VAL:HG23	2.17	0.44
55:DA:1010:A:H1'	55:DA:1153:C:H1'	1.98	0.44
31:BA:22:G:H2'	31:BA:23:C:C6	2.52	0.44
32:BE:122:PHE:C	32:BE:124:SER:H	2.21	0.44
46:CS:83:GLU:HA	46:CS:83:GLU:OE2	2.17	0.44
45:BR:61:GLY:O	45:BR:65:ARG:HG3	2.16	0.44
54:CA:609:A:C2'	54:CA:610:G:H5'	2.46	0.44
31:BA:190:G:O6	31:BA:264:U:H5''	2.16	0.44
1:AA:736:C:H2'	1:AA:737:C:H6	1.82	0.44
31:BA:265:G:N2	31:BA:267:C:H5''	2.31	0.44
23:DZ:11:ARG:HB2	23:DZ:12:PRO:HD2	1.99	0.44
32:BE:237:ALA:O	32:BE:238:LEU:HB3	2.17	0.44
55:DA:2465:C:O2'	55:DA:2466:C:H5'	2.17	0.44
4:DE:72:VAL:O	4:DE:73:GLU:C	2.55	0.44
1:AA:1861:G:O2'	1:AA:1862:G:H5'	2.17	0.44
15:DR:45:PHE:HE2	15:DR:63:VAL:HB	1.82	0.44
23:DZ:8:SER:OG	23:DZ:10:LYS:HG3	2.17	0.44
54:CA:585:G:OP1	47:CT:37:LYS:HE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BK:132:GLU:O	38:BK:134:ILE:N	2.51	0.44
2:DB:60:C:O2'	2:DB:61:G:H5'	2.16	0.44
1:AA:1354:A:C8	1:AA:1355:G:C8	3.05	0.44
4:AE:23:VAL:O	4:AE:24:THR:OG1	2.28	0.44
55:DA:1077:A:O4'	58:DL:93:ARG:NH2	2.51	0.44
57:DY:64:LYS:HD2	57:DY:64:LYS:N	2.32	0.44
12:AP:58:PHE:O	12:AP:59:ARG:C	2.56	0.44
21:AV:148:ASP:O	21:AV:149:SER:OG	2.32	0.44
21:AV:178:GLU:OE1	21:AV:180:VAL:C	2.55	0.44
52:CC:44:G:O4'	52:CC:44:G:N3	2.50	0.44
31:BA:945:G:C2	31:BA:946:A:C8	3.05	0.44
26:A4:59:PHE:CE1	49:BV:67:VAL:HB	2.52	0.44
1:AA:1028:A:H2'	1:AA:1029:A:C8	2.52	0.44
21:DV:106:GLY:O	21:DV:107:THR:CB	2.65	0.44
26:A4:38:LYS:C	26:A4:40:HIS:H	2.09	0.44
2:AB:39:A:C2	2:AB:44:G:N3	2.86	0.44
54:CA:1358:U:OP1	44:CQ:35:ARG:HG3	2.17	0.44
4:DE:7:VAL:CG2	4:DE:27:LEU:HD23	2.42	0.44
4:DE:69:LYS:CD	4:DE:89:ASP:OD1	2.65	0.44
8:AK:81:VAL:H	8:AK:143:SER:HA	1.82	0.44
1:AA:1599:C:OP2	19:AT:36:LYS:HD3	2.17	0.44
30:D8:16:ILE:HG23	30:D8:16:ILE:O	2.16	0.44
1:AA:35:G:H1'	1:AA:454:A:C4	2.52	0.44
52:BB:75:C:C6	52:BB:75:C:C3'	2.99	0.44
39:BL:15:ALA:HB2	39:BL:65:VAL:CG2	2.47	0.44
7:DH:146:ALA:O	7:DH:150:ALA:N	2.43	0.44
7:DH:153:LYS:HA	7:DH:153:LYS:CE	2.47	0.44
54:CA:1129:C:H5'	54:CA:1130:A:C5'	2.48	0.44
40:CM:38:ILE:CD1	40:CM:71:LEU:HB3	2.47	0.44
32:CE:9:GLU:HA	32:CE:12:GLU:OE1	2.17	0.44
31:BA:1006:C:C2	31:BA:1007:C:C5	3.05	0.44
1:AA:2091:U:P	1:AA:2092:U:H3'	2.57	0.44
55:DA:1022:G:C5	55:DA:1140:C:C4	3.05	0.44
21:AV:157:LEU:HD22	21:AV:163:LEU:HD22	1.98	0.44
21:AV:157:LEU:O	21:AV:161:VAL:HG21	2.17	0.44
52:CD:56:C:H6	55:DA:2169:A:N7	2.15	0.44
55:DA:1284:A:H2'	55:DA:1285:G:O4'	2.16	0.44
20:AU:75:ILE:HG12	20:AU:76:CYS:N	2.32	0.44
55:DA:2131:G:O5'	55:DA:2133:G:OP1	2.35	0.44
11:DO:107:LYS:HB3	11:DO:110:TYR:HD2	1.82	0.44
3:AD:35:LYS:CE	3:AD:104:TYR:HB2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2259:G:H1'	1:AA:2427:C:C2	2.52	0.44
55:DA:226:G:H1'	55:DA:228:A:H61	1.80	0.44
55:DA:228:A:H2'	55:DA:229:A:OP1	2.17	0.44
26:D4:3:GLU:HG3	26:D4:4:GLY:N	2.31	0.44
24:AW:24:LEU:O	24:AW:24:LEU:HD23	2.17	0.44
1:AA:70:G:H5''	1:AA:75:G:N2	2.33	0.44
1:AA:607:U:C5	1:AA:608:A:N7	2.85	0.44
5:DF:46:ARG:CG	5:DF:46:ARG:NH1	2.72	0.44
39:BL:46:ALA:HA	39:BL:78:LYS:HZ2	1.81	0.44
23:AZ:82:LEU:CG	23:AZ:83:GLU:N	2.73	0.44
8:DK:60:GLU:CG	8:DK:61:ARG:HH22	2.27	0.44
9:AM:53:VAL:HG11	9:AM:128:HIS:CB	2.47	0.44
11:AO:101:VAL:HG21	11:AO:108:LYS:H	1.81	0.44
31:BA:6:G:C4	35:BH:119:LEU:HD11	2.52	0.44
1:AA:1332:G:H21	1:AA:1610:A:H8	1.63	0.44
55:DA:446:G:OP1	16:D1:3:ARG:HD3	2.16	0.44
2:DB:31:C:O2	2:DB:31:C:C2'	2.64	0.44
1:AA:1204:A:H2	1:AA:1241:A:C2	2.35	0.44
1:AA:323:G:H2'	5:AF:169:ASN:OD1	2.17	0.44
54:CA:1065:U:O2'	54:CA:1066:C:OP2	2.26	0.44
55:DA:1820:U:H1'	3:DD:202:LYS:HB3	1.98	0.44
7:AH:86:GLU:O	7:AH:87:LEU:CG	2.65	0.44
42:CO:27:LEU:O	42:CO:29:GLY:N	2.49	0.44
12:AP:35:VAL:HG23	12:AP:100:GLY:O	2.17	0.44
48:CU:73:ALA:O	48:CU:76:LEU:HB2	2.17	0.44
31:BA:689:C:C2'	31:BA:690:G:C5'	2.91	0.44
39:BL:7:THR:HB	39:BL:83:ARG:NH1	2.32	0.44
1:AA:2712:U:H2'	1:AA:2713:A:H5''	1.99	0.44
1:AA:527:C:O5'	1:AA:2779:U:H5	2.01	0.44
55:DA:534:U:O2'	16:D1:49:HIS:HD2	2.00	0.44
1:AA:2555:U:H2'	1:AA:2556:C:H5'	1.98	0.44
55:DA:205:G:C2'	55:DA:206:U:OP2	2.65	0.44
34:BG:61:LYS:HZ2	34:BG:62:GLN:HE21	1.64	0.44
54:CA:302:G:N3	54:CA:556:C:H4'	2.33	0.44
26:D4:12:ALA:HB1	26:D4:29:PRO:HA	1.99	0.44
4:DE:116:VAL:CG2	4:DE:122:PHE:CG	3.00	0.44
55:DA:388:G:H5'	23:DZ:25:LYS:HB3	1.98	0.44
46:CS:48:TRP:CZ2	46:CS:76:GLN:OE1	2.70	0.44
36:BI:99:ALA:N	48:BU:31:LEU:HD22	2.31	0.44
54:CA:872:A:C4	54:CA:874:G:N7	2.84	0.44
52:CB:8:U:H2'	52:CB:9:A:OP2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:624:C:H2'	31:BA:625:G:C8	2.52	0.44
6:DG:118:ARG:O	26:D4:43:TYR:CZ	2.70	0.44
55:DA:2182:G:O2'	55:DA:2183:C:H5'	2.16	0.44
55:DA:614:U:H2'	55:DA:615:G:OP1	2.16	0.44
33:BF:54:ARG:HG2	33:BF:54:ARG:NH1	2.27	0.44
54:CA:720:C:C5	54:CA:721:G:H2'	2.53	0.44
32:BE:137:ARG:HD3	32:BE:137:ARG:O	2.17	0.44
1:AA:1421:G:C2	1:AA:1422:G:N7	2.85	0.44
5:DF:74:ARG:HG2	5:DF:74:ARG:O	2.16	0.44
31:BA:464:G:O5'	31:BA:464:G:H8	2.01	0.44
31:BA:1228:C:H4'	43:BP:116:THR:O	2.18	0.44
34:CG:140:VAL:HG12	34:CG:144:ASP:OD2	2.17	0.44
55:DA:2292:C:H2'	55:DA:2293:C:H6	1.80	0.44
55:DA:2019:A:C2'	55:DA:2020:A:O5'	2.64	0.44
54:CA:157:G:C2'	54:CA:158:G:H5'	2.47	0.44
45:BR:2:PRO:HG2	45:BR:3:ILE:HD13	1.99	0.44
54:CA:836:G:C6	54:CA:851:G:C6	3.06	0.44
55:DA:1299:G:C5'	55:DA:1300:U:OP1	2.65	0.44
55:DA:1629:U:H2'	55:DA:1630:G:O4'	2.17	0.44
5:AF:61:GLY:O	5:AF:77:ASP:CB	2.65	0.44
18:AS:20:VAL:O	18:AS:23:LEU:N	2.41	0.44
15:DR:57:PHE:O	15:DR:58:ASN:C	2.56	0.44
55:DA:1131:G:HO2'	55:DA:1132:A:H8	1.65	0.44
31:BA:693:G:H2'	31:BA:694:A:O4'	2.17	0.44
41:CN:121:PRO:HD2	41:CN:126:ARG:HD3	1.99	0.44
16:D1:35:ALA:O	16:D1:39:LEU:HG	2.16	0.44
1:AA:1381:G:C2'	1:AA:1382:G:H5'	2.46	0.44
1:AA:1512:G:H2'	1:AA:1513:C:H6	1.81	0.44
21:DV:35:ARG:HH11	21:DV:35:ARG:CB	2.30	0.44
1:AA:503:A:H4'	1:AA:504:U:H5''	1.99	0.44
1:AA:1001:A:C2'	1:AA:1002:G:H5'	2.48	0.44
55:DA:1467:C:C5	55:DA:1546:C:H2'	2.53	0.44
38:BK:39:LEU:HD12	38:BK:39:LEU:HA	1.81	0.44
46:CS:82:GLN:O	46:CS:83:GLU:CB	2.65	0.44
31:BA:285:G:O2'	31:BA:286:G:H5'	2.17	0.44
54:CA:750:G:N3	45:CR:23:GLY:HA3	2.32	0.44
3:AD:257:LEU:C	3:AD:257:LEU:HD23	2.37	0.44
35:CH:6:PHE:HA	35:CH:6:PHE:HD2	1.67	0.44
5:AF:162:LEU:HD12	5:AF:162:LEU:H	1.82	0.44
34:CG:76:ARG:HH11	34:CG:76:ARG:HG2	1.82	0.44
40:CM:21:GLN:HG2	40:CM:21:GLN:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CJ:146:GLU:O	37:CJ:149:ARG:HB2	2.18	0.44
55:DA:1057:A:N7	55:DA:1086:A:N3	2.65	0.44
58:DL:102:GLU:HG3	58:DL:103:GLN:N	2.32	0.44
58:DL:111:LYS:HA	58:DL:113:PRO:CG	2.41	0.44
58:DL:54:PRO:HG2	58:DL:55:VAL:N	2.33	0.44
57:DY:98:LYS:HG3	57:DY:99:SER:O	2.18	0.44
21:AV:145:GLU:O	21:AV:146:ILE:HG12	2.16	0.44
31:BA:1217:C:OP1	44:BQ:9:LYS:HE3	2.17	0.44
12:AP:41:TRP:O	12:AP:42:ILE:C	2.55	0.44
1:AA:2250:G:C5	12:AP:82:ARG:HG3	2.53	0.44
31:BA:1328:C:H2'	31:BA:1329:A:H5'	1.99	0.44
20:DU:56:PRO:O	20:DU:57:GLN:O	2.36	0.44
54:CA:955:U:O2'	54:CA:956:U:H5'	2.17	0.44
44:CQ:34:TYR:O	44:CQ:35:ARG:C	2.54	0.44
4:DE:27:LEU:CD2	15:DR:1:MET:HE1	2.47	0.44
4:DE:87:GLU:O	4:DE:89:ASP:N	2.50	0.44
15:DR:3:ARG:HA	59:DR:204:MG:MG	1.42	0.44
8:DK:114:LEU:HD22	8:DK:130:TYR:CE1	2.53	0.44
55:DA:1181:C:C2'	55:DA:1182:A:H5'	2.46	0.44
9:AM:43:THR:HB	9:AM:46:VAL:HG11	1.99	0.44
30:D8:17:THR:HG22	30:D8:23:VAL:HG23	1.98	0.44
11:DO:65:ARG:O	11:DO:66:GLY:C	2.55	0.44
31:BA:428:G:HO2'	31:BA:429:U:P	2.40	0.44
16:A1:50:ARG:HH11	17:A2:72:VAL:HB	1.82	0.44
21:DV:127:LYS:O	21:DV:161:VAL:HG21	2.17	0.44
1:AA:2790:A:O2'	1:AA:2893:G:O2'	2.33	0.44
4:AE:47:VAL:HG12	4:AE:49:LEU:HD23	2.00	0.44
4:AE:7:VAL:HG13	4:AE:51:PHE:CE2	2.53	0.44
4:AE:79:ARG:HB3	4:AE:80:GLU:H	1.60	0.44
40:BM:35:SER:OG	40:BM:73:ASP:HB2	2.17	0.44
32:CE:167:PRO:HG2	32:CE:192:SER:OG	2.18	0.44
32:CE:84:GLU:HG3	32:CE:215:LEU:HD12	1.99	0.44
11:DO:113:LYS:HE2	11:DO:115:LEU:HD23	1.98	0.44
21:DV:9:TYR:CE2	21:DV:61:LEU:HD21	2.52	0.44
13:D0:85:PRO:C	13:D0:87:TYR:N	2.70	0.44
31:BA:955:U:O2'	49:BV:83:HIS:HB2	2.18	0.44
31:BA:153:C:H2'	31:BA:154:C:C6	2.51	0.44
26:D4:32:TYR:CD2	26:D4:33:VAL:N	2.79	0.44
6:DG:179:PRO:HG3	26:D4:38:LYS:NZ	2.32	0.44
16:D1:83:LEU:HD13	16:D1:113:ALA:HB2	1.98	0.44
55:DA:884:C:O2'	55:DA:885:C:OP1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DH:4:ILE:O	7:DH:6:ARG:N	2.42	0.44
20:AU:27:VAL:O	20:AU:27:VAL:CG2	2.65	0.44
20:AU:9:LYS:O	20:AU:27:VAL:CG2	2.66	0.44
40:BM:70:ARG:HG3	40:BM:70:ARG:HH11	1.81	0.44
55:DA:1027:A:N6	55:DA:1126:A:C1'	2.79	0.44
32:BE:38:GLY:O	32:BE:39:ILE:O	2.35	0.44
1:AA:90:U:H2'	1:AA:91:A:C5'	2.47	0.44
3:AD:34:VAL:O	3:AD:35:LYS:CB	2.64	0.44
1:AA:141:A:N6	1:AA:1596:A:H5'	2.32	0.44
15:DR:105:LEU:CD2	15:DR:105:LEU:N	2.80	0.44
3:AD:224:ALA:N	3:AD:233:HIS:HB2	2.32	0.44
53:B1:30:C:H2'	53:B1:31:A:C8	2.53	0.44
54:CA:579:G:H2'	54:CA:580:U:C6	2.53	0.44
37:CJ:23:VAL:O	37:CJ:27:ILE:CD1	2.66	0.44
37:CJ:27:ILE:HD11	37:CJ:43:PHE:CD2	2.53	0.44
54:CA:703:G:H4'	54:CA:704:A:C5'	2.46	0.44
31:BA:1176:A:O2'	31:BA:1177:G:H5'	2.17	0.44
1:AA:1086:A:H4'	1:AA:1103:A:N6	2.17	0.44
54:CA:1540:U:C2	54:CA:1541:U:H1'	2.52	0.44
9:AM:128:HIS:CE1	9:AM:134:ARG:CZ	3.00	0.44
11:AO:106:LEU:HD11	11:AO:112:LEU:CD2	2.40	0.44
42:BO:60:LEU:O	42:BO:61:THR:C	2.55	0.44
29:D7:12:ARG:HG3	29:D7:12:ARG:NH1	2.33	0.44
1:AA:1087:G:C4	1:AA:1089:G:O2'	2.70	0.44
2:DB:24:G:H1'	2:DB:27:C:N4	2.32	0.44
54:CA:1064:G:HO2'	54:CA:1065:U:P	2.39	0.44
39:CL:114:TYR:CE1	40:CM:60:ARG:N	2.84	0.44
33:BF:58:GLU:O	33:BF:59:ARG:HG3	2.18	0.44
55:DA:1188:U:C4'	17:D2:79:VAL:HG22	2.47	0.44
8:AK:118:LYS:O	8:AK:119:PRO:O	2.36	0.44
31:BA:198:G:H2'	31:BA:199:G:H8	1.82	0.44
6:AG:32:PRO:HB3	6:AG:163:ALA:HB2	1.99	0.44
7:AH:136:ILE:O	7:AH:137:ASP:HB2	2.17	0.44
42:CO:27:LEU:HD13	42:CO:28:LYS:N	2.28	0.44
31:BA:713:G:H2'	31:BA:714:G:C8	2.53	0.44
12:AP:35:VAL:HG23	12:AP:101:ARG:O	2.17	0.44
7:AH:40:GLU:HB3	7:AH:41:MET:SD	2.58	0.44
55:DA:70:G:O2'	55:DA:71:A:OP2	2.25	0.44
6:AG:78:SER:OG	52:BC:19:G:N2	2.50	0.44
1:AA:1533:C:H3'	1:AA:1534:G:O4'	2.16	0.44
32:BE:22:LYS:CA	32:BE:22:LYS:CE	2.93	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CG:8:VAL:C	34:CG:10:ARG:H	2.21	0.44
55:DA:197:A:N6	55:DA:2430:A:H2'	2.32	0.44
55:DA:2893:G:H5''	55:DA:2894:G:C4'	2.47	0.44
3:DD:134:ARG:HB3	3:DD:134:ARG:HE	1.59	0.44
4:AE:118:LYS:H	4:AE:121:ASN:H	1.65	0.44
54:CA:113:G:H2'	54:CA:114:U:C6	2.53	0.44
31:BA:633:G:H2'	31:BA:634:C:H6	1.81	0.44
55:DA:2198:A:O2'	55:DA:2199:A:P	2.75	0.44
34:BG:88:VAL:O	34:BG:92:VAL:HG23	2.17	0.44
48:BU:72:ARG:O	48:BU:75:ILE:N	2.50	0.44
55:DA:2512:C:H2'	55:DA:2513:G:O4'	2.17	0.44
1:AA:2035:G:C4'	1:AA:2036:C:OP2	2.65	0.44
2:DB:44:G:C2	2:DB:48:A:C2	3.06	0.44
55:DA:548:A:C2'	55:DA:549:G:H5'	2.46	0.44
55:DA:1889:A:N1	55:DA:2234:G:H1'	2.32	0.44
55:DA:2302:G:H21	6:DG:126:ASP:HB2	1.82	0.44
55:DA:828:U:H2'	55:DA:828:U:O2	2.18	0.44
44:BQ:10:ALA:HB1	44:BQ:23:ARG:HB3	1.98	0.44
37:CJ:79:ARG:HH11	37:CJ:79:ARG:HG2	1.81	0.44
13:D0:41:ALA:C	13:D0:43:GLU:N	2.70	0.44
45:BR:33:THR:HG23	45:BR:63:ARG:HH12	1.82	0.44
1:AA:2170:A:C2'	1:AA:2171:A:H5'	2.48	0.44
12:DP:58:PHE:O	12:DP:61:GLY:N	2.50	0.44
34:CG:148:VAL:CG1	34:CG:149:ALA:N	2.80	0.44
52:BB:21:A:N7	52:BB:46:G:C6	2.86	0.44
55:DA:2020:A:O2'	55:DA:2021:C:H3'	2.16	0.44
36:BI:82:ARG:HG2	36:BI:82:ARG:NH1	2.32	0.44
14:AQ:52:SER:HB2	14:AQ:55:ALA:HB3	2.00	0.44
1:AA:236:C:H2'	1:AA:237:C:C6	2.53	0.44
48:BU:32:ARG:HG3	48:BU:32:ARG:O	2.17	0.44
55:DA:1133:U:O4	55:DA:2026:C:H1'	2.17	0.44
31:BA:657:G:H4'	45:BR:28:GLN:HG2	1.99	0.44
55:DA:2637:U:H2'	55:DA:2638:G:O4'	2.17	0.44
31:BA:312:C:H2'	31:BA:313:A:C8	2.52	0.44
2:DB:90:C:OP1	12:DP:16:ARG:HG2	2.17	0.44
1:AA:1790:C:H4'	3:AD:209:ALA:CB	2.47	0.44
18:AS:29:LEU:HD11	18:AS:51:LEU:HD11	2.00	0.44
18:AS:51:LEU:HD13	18:AS:51:LEU:C	2.36	0.44
1:AA:2358:G:N2	1:AA:2359:C:H1'	2.32	0.44
33:BF:69:HIS:CD2	33:BF:104:GLN:HB2	2.53	0.44
7:AH:70:THR:HA	7:AH:73:ALA:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1466:C:H2'	31:BA:1467:G:O4'	2.16	0.44
13:D0:37:THR:OG1	13:D0:40:LYS:HG3	2.17	0.44
3:AD:124:PRO:HG2	3:AD:129:ASN:ND2	2.33	0.44
54:CA:857:C:H2'	54:CA:858:G:O4'	2.17	0.44
36:CI:28:ARG:HG3	36:CI:28:ARG:HH11	1.82	0.44
1:AA:2232:U:P	23:AZ:40:ARG:HH12	2.41	0.44
56:DI:29:GLU:O	56:DI:30:ALA:HB3	2.17	0.44
57:DY:134:LEU:HD21	56:DJ:19:GLU:CG	2.46	0.44
56:DJ:8:ILE:CA	56:DJ:11:GLU:HB2	2.48	0.44
58:DL:39:LYS:O	58:DL:41:PHE:N	2.51	0.44
58:DL:55:VAL:HG13	58:DL:56:GLU:N	2.33	0.44
57:DY:102:LYS:HD2	57:DY:103:GLY:N	2.32	0.44
57:DY:6:ASN:O	57:DY:7:VAL:HG12	2.18	0.44
21:AV:140:ASP:HB3	21:AV:141:VAL:H	1.46	0.44
43:CP:122:LYS:HG3	43:CP:123:ALA:N	2.33	0.44
31:BA:942:G:H21	39:BL:124:GLN:NE2	2.15	0.44
49:BV:58:VAL:HG21	49:BV:75:ALA:HA	2.00	0.44
1:AA:2348:U:H5'	28:A6:42:TRP:CD1	2.52	0.44
11:AO:59:LEU:CD2	11:AO:60:MET:N	2.80	0.44
1:AA:912:C:H2'	1:AA:912:C:O2	2.17	0.44
26:A4:34:GLU:HB2	26:A4:35:VAL:H	1.49	0.44
2:AB:40:U:P	2:AB:40:U:H6	2.40	0.44
6:AG:7:LEU:H	6:AG:104:GLU:CD	2.18	0.44
27:D5:56:LYS:C	27:D5:58:LEU:N	2.71	0.44
49:CV:41:VAL:CG2	49:CV:67:VAL:HG22	2.41	0.44
40:BM:3:LYS:HB2	40:BM:77:PRO:HD3	2.00	0.44
30:A8:23:VAL:HG13	30:A8:47:LYS:HB3	1.98	0.44
30:A8:56:GLU:O	30:A8:57:ARG:C	2.55	0.44
20:DU:47:LYS:C	20:DU:49:VAL:N	2.69	0.44
9:AM:46:VAL:HG13	9:AM:47:ALA:H	1.83	0.44
3:AD:236:GLY:O	3:AD:237:GLU:OE1	2.34	0.44
55:DA:2702:U:O2'	55:DA:2703:C:C6	2.70	0.44
4:AE:7:VAL:HG13	4:AE:51:PHE:HE2	1.82	0.44
4:AE:51:PHE:CD2	4:AE:52:LEU:HG	2.52	0.44
4:AE:51:PHE:O	4:AE:74:PRO:CB	2.66	0.44
9:DM:41:ASP:C	16:D1:64:ARG:HH22	2.19	0.44
7:DH:103:LEU:CD1	7:DH:131:VAL:HG11	2.48	0.44
14:DQ:35:ILE:CG2	14:DQ:69:VAL:HG11	2.48	0.44
14:DQ:59:LYS:CG	14:DQ:60:GLY:N	2.71	0.44
54:CA:1455:G:OP1	50:CW:35:THR:HG21	2.17	0.44
17:D2:98:GLU:OE1	17:D2:98:GLU:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CS:45:THR:HG23	46:CS:46:PRO:CD	2.45	0.44
21:DV:6:LYS:CE	21:DV:43:GLU:HG3	2.48	0.44
55:DA:2880:C:H1'	13:D0:92:GLY:O	2.17	0.44
31:BA:794:A:H2'	31:BA:795:C:O4'	2.17	0.44
54:CA:1158:C:C2	54:CA:1160:G:C8	3.05	0.44
9:AM:25:ARG:O	9:AM:28:THR:HB	2.17	0.44
8:AK:130:TYR:O	8:AK:136:VAL:CG1	2.65	0.44
21:AV:30:ASN:HA	21:AV:89:PHE:CE2	2.52	0.44
1:AA:85:G:H2'	1:AA:86:C:O4'	2.18	0.44
30:D8:36:LYS:CB	30:D8:40:GLU:HG2	2.30	0.44
31:BA:873:A:H4'	31:BA:874:G:OP1	2.13	0.44
5:AF:30:PRO:O	5:AF:33:LEU:N	2.51	0.44
32:BE:17:PHE:HD1	32:BE:42:ILE:HG23	1.82	0.44
3:AD:83:GLU:OE1	3:AD:104:TYR:CE2	2.71	0.44
54:CA:192:U:O4'	50:CW:103:GLY:HA2	2.17	0.44
6:DG:67:LYS:CE	26:D4:6:HIS:CE1	2.88	0.44
1:AA:654(H):G:H3'	1:AA:654(I):C:H5''	1.99	0.44
37:CJ:46:ALA:O	37:CJ:49:ILE:N	2.49	0.44
1:AA:1102:C:H2'	1:AA:1103:A:C5'	2.47	0.44
1:AA:1102:C:H2'	1:AA:1103:A:H5''	2.00	0.44
1:AA:1104:C:O5'	1:AA:1104:C:H6	2.00	0.44
1:AA:846:C:HO2'	1:AA:847:U:C5'	2.30	0.44
12:AP:33:GLY:HA2	12:AP:105:GLU:CB	2.48	0.44
31:BA:1053:G:H5'	31:BA:1054:C:C5'	2.37	0.44
31:BA:963:G:N3	40:BM:55:LYS:NZ	2.65	0.44
31:BA:362:G:O3'	42:BO:33:ARG:NH2	2.51	0.44
54:CA:1535:C:H2'	54:CA:1536:C:C5'	2.47	0.44
33:BF:129:ALA:HB1	33:BF:132:ARG:HB3	2.00	0.44
41:CN:21:ILE:CD1	41:CN:82:VAL:HG13	2.47	0.44
55:DA:581:C:H2'	55:DA:582:G:C8	2.53	0.44
1:AA:662:G:C5'	11:AO:15:ARG:HA	2.36	0.44
31:BA:922:G:H2'	31:BA:923:A:C8	2.52	0.44
48:CU:25:THR:O	48:CU:25:THR:HG22	2.17	0.44
38:BK:11:THR:O	38:BK:12:ARG:C	2.56	0.44
38:BK:14:ARG:HG2	38:BK:14:ARG:O	2.17	0.44
18:AS:88:ARG:HB3	18:AS:92:ARG:HB3	2.00	0.44
54:CA:642:A:H2'	54:CA:643:C:H6	1.82	0.44
1:AA:2173:A:H3'	1:AA:2174:C:H6	1.81	0.44
55:DA:1936:A:H2'	55:DA:1945:G:O6	2.17	0.44
31:BA:1297:C:O2'	37:BJ:114:ARG:NH2	2.51	0.44
31:BA:1296:C:H4'	31:BA:1302:U:O4	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BE:92:TYR:C	32:BE:92:TYR:CD2	2.91	0.44
13:A0:2:ARG:CG	13:A0:2:ARG:HH11	2.29	0.44
14:AQ:12:PHE:HA	14:AQ:12:PHE:HD2	1.75	0.44
1:AA:2556:C:H2'	1:AA:2557:G:O4'	2.17	0.44
40:CM:34:VAL:HG13	40:CM:73:ASP:O	2.18	0.44
55:DA:2199:A:H3'	55:DA:2205:C:H6	1.82	0.44
33:BF:91:LEU:C	33:BF:93:LYS:N	2.71	0.44
7:DH:9:ILE:O	7:DH:10:PRO:O	2.36	0.44
1:AA:532:A:O2'	1:AA:2021:C:N4	2.50	0.44
31:BA:377:G:OP1	46:BS:3:LYS:HD3	2.17	0.44
55:DA:2213:U:H5'	23:DZ:52:ARG:HH12	1.82	0.44
55:DA:784:A:N7	3:DD:229:VAL:CG2	2.81	0.44
11:DO:16:ARG:HE	11:DO:16:ARG:CA	2.30	0.44
1:AA:2298:A:H2'	1:AA:2299:G:O4'	2.17	0.44
55:DA:1206:G:C6	55:DA:1207:C:C4	3.06	0.44
45:BR:26:GLU:HG2	45:BR:26:GLU:H	1.54	0.44
1:AA:111:A:H4'	24:AW:69:ARG:HH22	1.81	0.44
33:CF:78:GLY:O	33:CF:79:ARG:C	2.56	0.44
1:AA:704:G:O2'	1:AA:726:G:N2	2.51	0.44
31:BA:1394:A:C5'	31:BA:1395:C:OP2	2.64	0.44
21:AV:15:PRO:HB2	21:AV:19:ARG:NH2	2.33	0.44
1:AA:414:C:O2'	1:AA:415:A:H5'	2.17	0.44
54:CA:815:A:H4'	54:CA:816:A:OP2	2.17	0.44
54:CA:659:U:H2'	54:CA:660:G:H8	1.81	0.44
48:BU:43:PHE:O	48:BU:51:LEU:HG	2.18	0.44
31:BA:622:A:C8	31:BA:623:C:C5	3.05	0.44
37:CJ:87:VAL:HG21	37:CJ:154:TYR:CB	2.48	0.44
10:AN:49:ARG:HH22	31:BA:1423:G:C5'	2.29	0.44
32:BE:74:LYS:HE2	32:BE:74:LYS:HB3	1.75	0.44
42:BO:6:THR:OG1	42:BO:9:GLN:HG3	2.18	0.44
1:AA:2698:U:H2'	1:AA:2699:C:H6	1.80	0.44
45:BR:3:ILE:HG22	45:BR:38:ARG:HH21	1.82	0.44
2:AB:78:A:N6	2:AB:98:G:H1'	2.33	0.44
14:AQ:34:HIS:HB2	14:AQ:36:TYR:CE1	2.52	0.44
18:DS:17:VAL:O	18:DS:20:VAL:HG22	2.18	0.44
54:CA:445:G:O2'	54:CA:446:G:H5'	2.17	0.44
18:AS:25:ARG:NH2	18:AS:74:ALA:O	2.48	0.44
16:D1:8:VAL:HG23	16:D1:11:ARG:NH2	2.32	0.44
47:BT:25:ARG:O	47:BT:25:ARG:HG3	2.16	0.44
54:CA:174:C:H2'	54:CA:175:C:C6	2.50	0.44
33:CF:54:ARG:HH12	33:CF:56:ASP:CG	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A0:101:ALA:HB2	27:A5:44:THR:CB	2.47	0.44
31:BA:107:G:H2'	31:BA:108:G:H5'	1.98	0.44
37:BJ:143:ARG:O	37:BJ:146:GLU:N	2.49	0.44
49:BV:52:TYR:HB2	49:BV:57:HIS:CE1	2.53	0.44
2:DB:17:C:O2'	2:DB:18:G:H5'	2.16	0.44
37:CJ:62:PHE:HA	37:CJ:124:LEU:HD22	1.98	0.44
33:CF:156:ARG:HB3	33:CF:160:ALA:O	2.17	0.44
5:DF:165:ARG:HB3	5:DF:165:ARG:HH11	1.83	0.44
3:DD:45:ASN:OD1	3:DD:45:ASN:C	2.55	0.44
1:AA:2727:G:H4'	10:AN:70:LYS:HD2	1.98	0.44
49:CV:32:LYS:HA	49:CV:50:ALA:HB3	1.99	0.44
31:BA:259:G:O2'	31:BA:260:G:H5'	2.17	0.44
55:DA:1062:G:H1'	55:DA:1088:A:C5	2.51	0.44
57:DY:112:LEU:O	57:DY:113:GLN:CG	2.65	0.44
57:DY:93:LEU:HA	57:DY:93:LEU:HD22	1.79	0.44
31:BA:1219:U:OP1	44:BQ:19:ARG:NH1	2.46	0.44
49:BV:47:HIS:O	49:BV:48:THR:CB	2.66	0.44
1:AA:2405:G:HO2'	1:AA:2406:U:P	2.39	0.44
1:AA:957:A:H2	1:AA:2458:G:H4'	1.82	0.44
1:AA:912:C:O2'	1:AA:913:U:H5'	2.18	0.44
3:AD:48:ARG:HG3	3:AD:48:ARG:HH11	1.82	0.44
6:AG:109:VAL:HG11	6:AG:142:PRO:HB3	1.98	0.44
6:AG:41:GLN:HG2	6:AG:155:MET:HB3	1.98	0.44
15:AR:90:GLN:HG3	15:AR:91:ARG:N	2.33	0.44
15:AR:26:ASP:HB3	15:AR:91:ARG:HA	1.98	0.44
15:AR:94:ALA:O	15:AR:96:ARG:N	2.51	0.44
30:A8:61:LEU:HD13	30:A8:62:LEU:H	1.82	0.44
54:CA:1005:A:H5''	54:CA:1006:C:C5	2.52	0.44
54:CA:1006:C:C2	54:CA:1007:C:C5	3.06	0.44
57:DY:143:GLN:HB3	57:DY:144:ALA:H	1.34	0.44
20:DU:46:LYS:NZ	20:DU:63:LYS:HG2	2.33	0.44
54:CA:1225:A:N3	54:CA:1225:A:C2'	2.77	0.44
54:CA:1362(A):C:H5'	54:CA:1363:A:O5'	2.17	0.44
54:CA:954:G:H2'	54:CA:955:U:C6	2.53	0.44
28:D6:43:CYS:O	28:D6:44:ARG:HD3	2.17	0.44
17:A2:18:LEU:HD23	17:A2:19:LYS:C	2.38	0.44
17:A2:59:ALA:HB1	17:A2:94:LEU:HB3	2.00	0.44
20:DU:84:ARG:HH12	20:DU:97:ARG:HB3	1.80	0.44
1:AA:582:G:H2'	1:AA:583:G:C8	2.52	0.44
1:AA:2554:U:H3	52:BB:74:C:H5	1.65	0.44
1:AA:991:C:H2'	1:AA:992:C:H6	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:74:U:C3'	2:DB:75:G:C5'	2.95	0.44
54:CA:1124:G:N2	54:CA:1280:A:N6	2.66	0.44
33:CF:50:ALA:HB2	33:CF:75:VAL:HB	2.00	0.44
32:CE:200:ILE:HG22	32:CE:202:PRO:HD3	1.99	0.44
32:CE:237:ALA:C	32:CE:239:VAL:H	2.20	0.44
31:BA:794:A:H2	31:BA:795:C:N3	2.09	0.44
55:DA:1310:G:H2'	55:DA:1311:G:O4'	2.18	0.44
31:BA:399:G:H2'	31:BA:400:C:H6	1.77	0.44
20:AU:97:ARG:H	20:AU:97:ARG:CD	2.22	0.44
1:AA:2656:U:O4	1:AA:2665:A:C6	2.70	0.44
55:DA:1538:G:C2	55:DA:1539:G:C8	3.05	0.44
55:DA:2158:A:O2'	55:DA:2159:G:C8	2.70	0.44
5:AF:114:VAL:HG21	5:AF:202:PHE:CZ	2.53	0.44
1:AA:654(C):G:C2'	1:AA:654(D):G:C8	3.00	0.44
55:DA:227:A:OP2	55:DA:227:A:H8	2.01	0.44
55:DA:84:A:H5''	20:DU:8:LYS:HG2	2.00	0.44
8:AK:9:LEU:HD23	8:AK:9:LEU:H	1.82	0.44
1:AA:72:U:H1'	24:AW:58:ALA:HA	1.99	0.44
1:AA:2131:G:C5'	1:AA:2132:U:H5''	2.33	0.44
55:DA:1786:A:H2	55:DA:2606:C:H1'	1.79	0.44
4:AE:42:ASP:HB3	4:AE:44:TYR:CE1	2.52	0.44
37:BJ:113:GLU:HG3	37:BJ:119:ARG:HA	1.98	0.44
55:DA:1173:G:C5'	55:DA:1174:A:OP1	2.56	0.44
1:AA:636:G:C4	11:AO:115:LEU:HD11	2.53	0.44
31:BA:1207:G:C5	31:BA:1208:C:C5	3.06	0.44
44:CQ:13:THR:HG23	44:CQ:20:ALA:HB2	2.00	0.44
36:BI:7:ASN:O	36:BI:88:VAL:HA	2.17	0.44
53:B1:54:U:H2'	53:B1:55:U:OP2	2.18	0.44
33:BF:137:ALA:O	33:BF:141:VAL:HG23	2.17	0.44
5:DF:88:VAL:CG1	5:DF:91:GLY:HA3	2.47	0.44
31:BA:502:G:H2'	31:BA:503:C:O4'	2.17	0.44
43:BP:66:LEU:O	43:BP:69:GLU:HB3	2.18	0.44
9:DM:65:LYS:HB2	9:DM:69:GLN:NE2	2.19	0.44
2:DB:11:C:H3'	2:DB:12:C:C6	2.53	0.44
33:BF:41:GLY:O	33:BF:45:LYS:HG3	2.17	0.44
41:BN:59:TYR:CE1	41:BN:63:LEU:HD21	2.52	0.44
2:DB:96:G:N2	2:DB:97:G:H1'	2.33	0.44
1:AA:1781:C:H2'	1:AA:1781:C:O2	2.16	0.44
12:AP:35:VAL:HG12	12:AP:130:LYS:O	2.17	0.44
48:BU:70:ILE:HG23	48:BU:79:LEU:CD1	2.48	0.44
1:AA:526:A:O2'	1:AA:2043:C:O2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2159:G:H2'	1:AA:2160:G:O4'	2.17	0.44
1:AA:1916:A:N6	31:BA:1408:A:O2'	2.49	0.44
31:BA:738:C:H2'	31:BA:739:C:C6	2.52	0.44
1:AA:1157:G:H2'	1:AA:1158:C:C6	2.53	0.44
2:AB:15:A:O2'	2:AB:109:G:C8	2.58	0.44
1:AA:1285:G:N2	1:AA:1328:G:H5''	2.33	0.44
1:AA:558:G:C5'	9:AM:112:LEU:HD22	2.48	0.44
1:AA:2840:C:H4'	13:A0:53:HIS:HD2	1.82	0.44
55:DA:2723:C:O3'	13:D0:1:MET:HE2	2.16	0.44
13:D0:2:ARG:HG3	13:D0:2:ARG:HH11	1.83	0.44
55:DA:2865:U:C4	55:DA:2866:U:C4	3.04	0.44
11:DO:16:ARG:H	11:DO:16:ARG:HE	1.65	0.44
31:BA:48:C:C5'	31:BA:49:U:OP2	2.64	0.44
1:AA:2302:G:C6	1:AA:2315:G:C6	3.06	0.44
55:DA:1203:G:H5'	11:DO:3:LEU:CD1	2.46	0.44
55:DA:1203:G:O6	55:DA:1204:A:N6	2.50	0.44
1:AA:2822:G:OP2	4:AE:110:GLY:O	2.36	0.44
54:CA:751:U:H2'	54:CA:752:G:O4'	2.17	0.44
55:DA:2355:C:O3'	22:D3:24:LYS:HD2	2.17	0.44
4:AE:175:VAL:O	4:AE:177:PRO:CD	2.64	0.44
1:AA:2854:G:N1	1:AA:2864:G:C6	2.86	0.44
55:DA:221:A:O2'	55:DA:222:A:OP2	2.34	0.44
55:DA:347:A:H2'	55:DA:348:G:H8	1.83	0.44
22:A3:11:ARG:O	22:A3:14:ARG:NH2	2.50	0.44
1:AA:1278:A:H5''	13:A0:36:THR:CG2	2.46	0.44
23:AZ:65:SER:O	23:AZ:66:HIS:HD2	1.99	0.44
15:AR:74:ARG:CB	15:AR:74:ARG:HH11	2.30	0.44
58:DL:146:ASP:HB2	58:DL:147:ALA:H	1.58	0.44
31:BA:646:U:H2'	31:BA:647:C:C6	2.49	0.44
55:DA:289:A:H2'	55:DA:290:G:O4'	2.18	0.44
39:CL:66:ARG:HH11	39:CL:66:ARG:CB	2.30	0.44
15:AR:82:LEU:H	15:AR:82:LEU:HD12	1.80	0.44
31:BA:1041:A:H2'	31:BA:1042:G:H5''	1.98	0.44
55:DA:1130:U:C2	55:DA:2025:C:H5''	2.52	0.44
41:CN:120:ARG:NH1	41:CN:126:ARG:NH2	2.65	0.44
54:CA:177:C:OP1	50:CW:65:LYS:NZ	2.47	0.44
39:BL:41:VAL:O	39:BL:41:VAL:HG12	2.18	0.44
7:DH:23:ARG:HD2	7:DH:34:GLU:OE2	2.17	0.44
39:CL:122:ALA:HB1	39:CL:123:PRO:HD2	1.98	0.44
10:DN:32:TYR:CD1	10:DN:32:TYR:N	2.85	0.44
1:AA:741:G:O2'	1:AA:742:G:H5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CL:10:ARG:HD2	39:CL:75:ASP:HB3	1.99	0.44
2:AB:20:C:O2'	2:AB:21:G:H5'	2.18	0.44
33:CF:108:ASN:OD1	33:CF:110:ASN:HB2	2.18	0.44
54:CA:1258:G:O2'	54:CA:1259:C:H5'	2.17	0.44
1:AA:7:G:O2'	1:AA:8:A:H5'	2.18	0.44
34:BG:73:ARG:O	34:BG:77:ASN:ND2	2.50	0.44
46:BS:45:THR:HB	46:BS:46:PRO:HD2	1.98	0.44
55:DA:2581:G:H4'	55:DA:2582:G:C8	2.53	0.44
1:AA:2643:G:H2'	1:AA:2644:G:O4'	2.18	0.44
47:CT:3:LYS:HD3	47:CT:61:GLU:O	2.18	0.44
3:AD:127:VAL:HG12	3:AD:127:VAL:O	2.17	0.44
55:DA:1116:C:H2'	55:DA:1117:G:H8	1.81	0.44
55:DA:1059:G:OP1	58:DL:4:VAL:HG13	2.16	0.44
58:DL:48:MET:O	58:DL:49:GLY:O	2.35	0.44
58:DL:14:ALA:HA	58:DL:50:ASP:HB3	2.00	0.44
57:DY:1:MET:O	57:DY:1:MET:CG	2.64	0.44
57:DY:49:ALA:HA	57:DY:84:GLU:N	2.32	0.44
21:AV:175:VAL:HG22	21:AV:176:PRO:HD2	2.00	0.44
21:DV:196:VAL:CA	21:DV:197:ILE:HD12	2.48	0.44
52:CC:43:C:H2'	52:CC:44:G:O4'	2.17	0.44
31:BA:976:G:P	44:BQ:32:SER:H	2.40	0.44
1:AA:2491:U:H5'	1:AA:2570:G:H5''	1.98	0.44
55:DA:894:C:C6	55:DA:894:C:O5'	2.68	0.44
21:DV:178:GLU:O	21:DV:180:VAL:N	2.39	0.44
21:DV:178:GLU:OE1	21:DV:181:GLU:N	2.50	0.44
6:AG:70:VAL:HG12	6:AG:90:LEU:HD11	1.99	0.44
31:BA:1326:C:C2	31:BA:1327:C:C5	3.06	0.44
43:CP:82:MET:HE2	43:CP:93:ARG:N	2.32	0.44
26:D4:54:GLY:O	26:D4:55:ARG:O	2.35	0.44
40:BM:22:LYS:NZ	40:BM:23:ILE:HG12	2.33	0.44
54:CA:1200:C:C2'	54:CA:1201:A:OP2	2.65	0.44
54:CA:960:U:N3	54:CA:1225:A:C5	2.85	0.44
55:DA:2810:A:H61	55:DA:2891:G:C2'	2.30	0.44
8:DK:114:LEU:HD22	8:DK:130:TYR:HD1	1.79	0.44
28:D6:31:PRO:O	28:D6:32:ASN:CB	2.65	0.44
28:D6:41:PRO:HG2	28:D6:45:LYS:H	1.82	0.44
1:AA:747:U:C5	1:AA:2613:U:C5	3.06	0.44
1:AA:1966:A:C2	1:AA:2593:U:O4'	2.70	0.44
4:AE:62:PRO:C	4:AE:64:LYS:H	2.20	0.44
7:AH:4:ILE:HD11	7:AH:7:LEU:HD23	1.99	0.44
40:CM:5:ARG:O	40:CM:6:ILE:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:14:GLY:O	32:CE:15:VAL:HG22	2.18	0.44
32:CE:207:ALA:O	32:CE:208:ILE:C	2.55	0.44
11:DO:83:VAL:CG1	11:DO:112:LEU:CD2	2.93	0.44
55:DA:1142(A):A:C4	55:DA:1144:G:N7	2.86	0.44
52:CD:18:G:O2'	52:CD:19:G:OP1	2.31	0.44
52:CD:20:U:OP1	52:CD:20:U:H6	2.00	0.44
31:BA:1347:G:C2'	31:BA:1348:U:OP2	2.65	0.44
39:BL:11:LYS:H	39:BL:104:ARG:HH21	1.63	0.44
8:AK:102:SER:OG	8:AK:103:ARG:N	2.51	0.44
21:AV:41:LEU:O	21:AV:42:VAL:C	2.55	0.44
20:AU:81:LYS:HB2	20:AU:96:ILE:HG22	1.99	0.44
46:CS:6:LEU:HD11	46:CS:19:ILE:CD1	2.47	0.44
19:AT:34:ALA:HA	19:AT:38:GLU:OE2	2.18	0.44
55:DA:2060:A:H1'	55:DA:2502:G:O4'	2.18	0.44
1:AA:1827:C:H3'	1:AA:1828:G:H8	1.82	0.44
53:B1:29:G:H2'	53:B1:30:C:C6	2.53	0.44
55:DA:1850:G:H2'	55:DA:1851:U:O4'	2.16	0.44
55:DA:2065:C:H1'	55:DA:2449:U:O2	2.17	0.44
55:DA:1556:C:H2'	55:DA:1557:C:C6	2.52	0.44
12:DP:54:MET:HE1	12:DP:104:PHE:HB3	1.99	0.44
54:CA:700:G:C2'	54:CA:701:C:H5''	2.47	0.44
55:DA:860:U:C4	55:DA:917:A:H2	2.35	0.44
12:AP:111:GLU:OE1	12:AP:133:ARG:NH2	2.51	0.44
31:BA:6:G:O2'	31:BA:7:G:O5'	2.31	0.44
31:BA:1054:C:OP2	31:BA:1197:G:OP2	2.36	0.44
50:BW:43:LEU:HB3	50:BW:48:LYS:HG3	1.99	0.44
21:DV:69:THR:HG22	21:DV:90:VAL:CA	2.43	0.44
33:BF:113:ALA:HB2	33:BF:202:ILE:CG1	2.48	0.44
33:BF:114:PRO:O	33:BF:118:GLN:HG3	2.17	0.44
1:AA:570:G:H2'	1:AA:2030:A:N7	2.33	0.44
1:AA:2050:C:H1'	4:AE:156:MET:HE1	1.99	0.44
36:BI:15:ASP:C	36:BI:15:ASP:OD1	2.55	0.44
33:BF:18:TRP:CZ2	44:BQ:56:VAL:O	2.70	0.44
55:DA:1188:U:C2'	55:DA:1189:A:C5'	2.96	0.44
39:BL:114:TYR:CD2	39:BL:114:TYR:N	2.85	0.44
55:DA:1800:C:N4	55:DA:1819:A:N7	2.51	0.44
33:CF:12:LEU:C	33:CF:14:ILE:H	2.20	0.44
48:CU:26:LEU:HD21	48:CU:42:ARG:HD2	1.99	0.44
1:AA:1536:A:P	1:AA:1537:C:N4	2.91	0.44
1:AA:604:G:O2'	1:AA:605:C:H5'	2.17	0.44
38:BK:124:ALA:O	38:BK:128:GLY:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:303:U:O2'	55:DA:304:G:H5'	2.17	0.44
1:AA:1915:U:O4	31:BA:1409:C:C5'	2.66	0.44
46:BS:51:VAL:HG11	46:BS:74:LEU:HD23	1.98	0.44
4:AE:137:HIS:CB	4:AE:138:PRO:HD2	2.43	0.44
25:DX:38:GLU:O	25:DX:40:THR:N	2.51	0.44
55:DA:2205:C:H5''	55:DA:2205:C:C6	2.52	0.44
33:BF:73:PRO:HB2	33:BF:76:VAL:CG2	2.47	0.44
15:DR:41:ARG:NH2	15:DR:43:GLN:CB	2.81	0.44
1:AA:1242:A:H3'	1:AA:1243:G:H8	1.82	0.44
11:DO:16:ARG:HE	11:DO:16:ARG:N	2.16	0.44
43:CP:45:VAL:O	43:CP:48:LEU:HD22	2.17	0.44
1:AA:404:C:C1'	1:AA:406:G:C8	2.99	0.44
55:DA:1204:A:C2'	55:DA:1205:U:OP2	2.66	0.44
55:DA:1204:A:H1'	55:DA:1206:G:N9	2.33	0.44
47:CT:76:LEU:HD11	47:CT:79:SER:H	1.83	0.44
31:BA:790:A:H5'	52:BC:38:A:O3'	2.17	0.44
52:CB:10:G:H3'	52:CB:11:C:C5	2.51	0.44
38:BK:95:VAL:HG11	38:BK:133:LEU:HD12	2.00	0.44
36:BI:1:MET:HE1	36:BI:68:PRO:HD3	2.00	0.44
13:A0:54:LEU:HD12	13:A0:54:LEU:HA	1.82	0.44
1:AA:2364:C:H2'	1:AA:2365:G:O4'	2.17	0.44
2:AB:104:A:H5'	21:AV:72:ARG:HD3	2.00	0.44
1:AA:2449:U:O2'	1:AA:2450:A:C8	2.68	0.44
55:DA:1694:C:O2'	55:DA:1695:G:P	2.76	0.44
54:CA:89:U:O2'	54:CA:90:C:O5'	2.33	0.44
52:CD:37:MIA:H162	53:C1:43:U:O4	2.17	0.44
49:CV:11:VAL:CG1	49:CV:16:LEU:HD22	2.48	0.44
54:CA:335:C:H2'	54:CA:336:C:H6	1.83	0.44
55:DA:1523:U:H2'	55:DA:1524:G:C8	2.53	0.44
6:AG:9:ARG:HG2	6:AG:13:GLU:OE1	2.18	0.44
48:BU:36:ASN:HD22	48:BU:39:VAL:CG2	2.30	0.44
54:CA:1256:A:C2	54:CA:1277:C:H3'	2.53	0.44
6:AG:51:ARG:HH11	6:AG:51:ARG:CB	2.30	0.44
6:DG:25:TYR:CE2	6:DG:31:VAL:HA	2.53	0.44
2:AB:66:A:O2'	2:AB:67:G:OP2	2.32	0.44
8:AK:2:LYS:HB2	8:AK:39:ALA:HB3	1.99	0.44
47:BT:52:LYS:HD2	47:BT:52:LYS:N	2.33	0.44
54:CA:509:A:H1'	54:CA:543:C:O2'	2.18	0.44
55:DA:1811:G:H2'	55:DA:1812:A:O4'	2.17	0.44
1:AA:2362:G:C2'	1:AA:2363:C:H5'	2.47	0.44
33:BF:110:ASN:HD22	33:BF:144:SER:HB3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:578:A:H5'	55:DA:1254:A:OP1	2.17	0.44
55:DA:270(Z):U:O2'	55:DA:271(A):C:OP2	2.26	0.44
13:A0:45:ARG:HH11	13:A0:45:ARG:HG3	1.83	0.44
40:CM:90:LEU:N	40:CM:90:LEU:HD12	2.32	0.44
31:BA:614:A:H2'	31:BA:615:C:O4'	2.17	0.44
55:DA:1080:A:O2'	58:DL:126:MET:CE	2.66	0.44
55:DA:1083:U:C1'	55:DA:1086:A:H61	2.03	0.44
58:DL:32:ALA:O	58:DL:64:SER:OG	2.34	0.44
57:DY:57:THR:O	57:DY:58:LEU:C	2.56	0.44
57:DY:6:ASN:O	57:DY:7:VAL:CG1	2.65	0.44
31:BA:1235:U:O2'	31:BA:1305:G:O5'	2.35	0.44
1:AA:1125:G:C6	1:AA:1126:A:N6	2.85	0.44
1:AA:2491:U:O2'	1:AA:2492:U:H5'	2.18	0.44
1:AA:2496:C:OP1	12:AP:81:VAL:CG1	2.63	0.44
1:AA:917:A:H2'	1:AA:918:A:O5'	2.17	0.44
21:DV:105:VAL:HG12	21:DV:140:ASP:CA	2.48	0.44
21:DV:112:ARG:CD	21:DV:112:ARG:N	2.70	0.44
1:AA:1378:A:O2'	1:AA:1379:A:OP1	2.29	0.44
43:CP:82:MET:CE	43:CP:93:ARG:HA	2.45	0.44
30:D8:22:VAL:HB	30:D8:53:PRO:HB2	1.99	0.44
54:CA:1028:C:C3'	54:CA:1028(A):C:H5''	2.47	0.44
54:CA:1363:A:N3	54:CA:1365:G:C6	2.86	0.44
4:DE:7:VAL:HG22	4:DE:27:LEU:CD2	2.42	0.44
46:CS:80:PHE:CD1	46:CS:80:PHE:N	2.86	0.44
14:DQ:78:LEU:HD11	14:DQ:107:GLU:O	2.18	0.44
55:DA:552:G:H2'	55:DA:553:U:O4'	2.18	0.44
31:BA:1128:C:H2'	31:BA:1130:A:C8	2.53	0.44
1:AA:1042:G:H2'	1:AA:1043:C:C6	2.53	0.44
54:CA:1280:A:HO2'	54:CA:1281:U:P	2.41	0.44
11:AO:21:ARG:O	11:AO:28:GLY:HA2	2.18	0.44
55:DA:637:A:OP1	11:DO:133:SER:HB3	2.18	0.44
52:BD:57:G:C2'	52:BD:58:A:H5''	2.47	0.44
43:CP:25:ILE:HG13	43:CP:66:LEU:HD23	2.00	0.44
16:D1:90:VAL:C	16:D1:92:ARG:N	2.68	0.44
17:D2:41:GLY:CA	17:D2:46:VAL:CG1	2.96	0.44
29:D7:47:ARG:HB2	29:D7:48:LYS:H	1.55	0.44
12:DP:78:PRO:C	12:DP:79:LEU:HG	2.38	0.44
31:BA:1346:A:H5'	39:BL:120:ARG:HH12	1.82	0.44
31:BA:1346:A:N6	37:BJ:10:ARG:NE	2.65	0.44
37:BJ:111:ARG:HH12	37:BJ:122:HIS:HB3	1.83	0.44
20:AU:81:LYS:HB3	20:AU:97:ARG:HD2	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BM:69:ASN:O	40:BM:70:ARG:HB2	2.18	0.44
1:AA:91:A:O2'	1:AA:92:G:H5'	2.18	0.44
13:A0:52:ILE:O	13:A0:55:ALA:N	2.51	0.44
55:DA:2467:C:H2'	55:DA:2468:G:O4'	2.17	0.44
3:AD:159:ALA:N	3:AD:196:VAL:HG11	2.26	0.44
20:AU:13:VAL:HG21	20:AU:72:VAL:HB	2.00	0.44
31:BA:1535:C:H2'	31:BA:1536:C:O4'	2.17	0.44
4:AE:103:ASP:N	4:AE:200:GLU:O	2.50	0.44
1:AA:1428:C:N4	1:AA:1569:A:H3'	2.31	0.44
1:AA:2720:U:C2	1:AA:2873:A:H2	2.36	0.44
55:DA:1175:U:HO2'	55:DA:1176:G:H4'	1.79	0.44
55:DA:916:G:H2'	55:DA:917:A:H5''	1.99	0.44
11:AO:79:ARG:HG3	11:AO:109:GLY:O	2.17	0.44
31:BA:1053:G:C4'	31:BA:1054:C:H5'	2.48	0.44
1:AA:1762:A:C4'	1:AA:1763:G:OP2	2.65	0.44
12:DP:41:TRP:HB3	12:DP:94:VAL:HB	2.00	0.44
55:DA:1653:G:C6	13:D0:9:LYS:O	2.66	0.44
40:BM:47:PHE:CD1	40:BM:47:PHE:O	2.71	0.44
4:DE:91:VAL:HG13	4:DE:95:ILE:HG12	1.99	0.44
50:BW:67:ALA:O	50:BW:73:HIS:CD2	2.70	0.44
12:AP:22:LYS:O	12:AP:23:GLY:C	2.56	0.44
1:AA:1161:C:O2'	17:A2:23:GLU:HG2	2.17	0.44
55:DA:70:G:N2	55:DA:71:A:H62	2.13	0.44
54:CA:738:C:C2	54:CA:739:C:C5	3.05	0.44
54:CA:428:G:H4'	54:CA:429:U:O5'	2.18	0.44
46:BS:48:TRP:CZ3	46:BS:49:LEU:HB2	2.52	0.44
54:CA:33:A:C4	54:CA:34:C:C5	3.06	0.44
43:CP:44:ARG:C	43:CP:46:LYS:H	2.21	0.44
54:CA:1116:C:C2'	54:CA:1117:G:C5'	2.90	0.44
1:AA:2447:G:H3'	1:AA:2500:U:OP2	2.18	0.44
54:CA:645:C:H2'	54:CA:646:U:H6	1.81	0.44
17:D2:62:LEU:HD12	17:D2:62:LEU:N	2.32	0.44
8:DK:101:LEU:CD2	8:DK:107:VAL:HB	2.42	0.44
50:BW:82:SER:O	50:BW:83:ARG:C	2.56	0.44
9:AM:19:GLU:HB3	9:AM:59:LYS:HE3	1.99	0.44
34:BG:190:ASP:O	34:BG:194:LEU:HD23	2.18	0.44
22:A3:43:THR:CG2	22:A3:46:LYS:HE2	2.48	0.44
2:DB:50:G:P	14:DQ:63:THR:HG23	2.56	0.44
55:DA:627:A:H4'	55:DA:628:G:OP1	2.16	0.44
54:CA:873:A:H4'	54:CA:874:G:OP1	2.16	0.44
54:CA:1016:A:H2'	54:CA:1017:G:O4'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:184:C:H2'	1:AA:185:U:C6	2.53	0.44
47:CT:29:HIS:CE1	47:CT:32:TYR:HD1	2.36	0.44
1:AA:2866:U:O2	1:AA:2866:U:C2'	2.61	0.44
38:CK:129:VAL:HG23	38:CK:130:GLY:N	2.29	0.44
13:D0:20:LEU:O	13:D0:21:TYR:C	2.55	0.44
13:D0:38:VAL:HG12	13:D0:42:LYS:HE3	1.99	0.44
1:AA:1683:C:C2	1:AA:1684:C:C5	3.06	0.44
36:BI:45:LEU:HD21	36:BI:57:GLN:CD	2.38	0.44
17:D2:66:ARG:CG	17:D2:66:ARG:HH11	2.30	0.44
40:CM:95:GLU:HG3	40:CM:96:ILE:N	2.33	0.44
1:AA:204:A:O2'	1:AA:205:G:P	2.76	0.44
1:AA:412:A:N7	1:AA:2411:A:H2	2.16	0.44
6:AG:9:ARG:C	6:AG:11:TYR:H	2.21	0.44
7:DH:16:SER:OG	7:DH:17:VAL:N	2.51	0.44
1:AA:1467:C:C5	1:AA:1546:C:H2'	2.52	0.44
3:DD:52:ARG:H	3:DD:52:ARG:HG3	1.61	0.44
8:AK:37:VAL:CG1	8:AK:38:LEU:N	2.81	0.44
1:AA:1512:G:H2'	1:AA:1513:C:C6	2.52	0.44
41:CN:54:ARG:O	41:CN:57:THR:HB	2.17	0.44
14:AQ:48:LEU:HD22	14:AQ:82:ILE:HD11	2.00	0.44
32:CE:126:GLU:O	32:CE:126:GLU:HG2	2.17	0.44
54:CA:509:A:C8	54:CA:509:A:H3'	2.52	0.44
55:DA:1892:C:O2'	55:DA:1893:C:H5'	2.18	0.44
55:DA:341:G:H2'	55:DA:342:G:O4'	2.17	0.44
54:CA:601:C:O2'	54:CA:602:A:H5'	2.18	0.44
1:AA:751:A:H5'	18:AS:90:ARG:HA	1.99	0.44
35:BH:90:VAL:O	35:BH:120:THR:HA	2.18	0.44
9:DM:19:GLU:HG3	9:DM:59:LYS:HB3	1.99	0.44
55:DA:751:A:H5'	18:DS:90:ARG:HA	1.99	0.44
17:D2:69:LYS:HA	17:D2:87:HIS:O	2.17	0.44
32:CE:118:LEU:HB3	32:CE:142:LEU:HD12	1.98	0.44
55:DA:540:G:H3'	55:DA:541:C:H6	1.83	0.44
34:CG:83:SER:C	34:CG:85:LYS:H	2.21	0.44
18:DS:34:ASN:O	18:DS:37:ARG:HB3	2.17	0.44
38:CK:10:LEU:HD23	38:CK:10:LEU:N	2.33	0.44
1:AA:12:U:O2	1:AA:12:U:H2'	2.16	0.44
54:CA:229:U:O2'	54:CA:230:G:H5'	2.18	0.44
1:AA:2483:C:N3	12:AP:124:LYS:NZ	2.65	0.44
4:AE:12:THR:H	4:AE:23:VAL:HG23	1.83	0.44
55:DA:1059:G:H21	58:DL:126:MET:HB3	1.82	0.44
55:DA:1077:A:H4'	58:DL:93:ARG:HH21	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1057:A:C8	55:DA:1086:A:H2'	2.38	0.44
58:DL:10:LEU:CD1	58:DL:55:VAL:HG21	2.47	0.44
57:DY:135:ARG:HG2	56:DJ:10:GLU:HB3	1.99	0.44
21:AV:141:VAL:CG2	21:AV:144:LEU:CD2	2.90	0.44
31:BA:1211:U:O2'	31:BA:1213:A:N3	2.51	0.44
44:BQ:15:LYS:HA	44:BQ:15:LYS:CE	2.48	0.44
23:DZ:83:GLU:HG2	23:DZ:84:GLY:H	1.80	0.44
49:CV:63:THR:CG2	49:CV:66:MET:HE3	2.47	0.44
54:CA:1002:G:N3	54:CA:1003:G:N7	2.66	0.44
54:CA:960:U:N3	54:CA:1225:A:C8	2.76	0.44
54:CA:954:G:H2'	54:CA:955:U:H6	1.83	0.44
55:DA:2809:A:C2	55:DA:2892:A:C4	3.05	0.44
1:AA:1342:A:O2'	1:AA:1343:G:O5'	2.36	0.44
1:AA:469:G:H2'	1:AA:470:A:H5''	1.98	0.44
54:CA:109:A:C6	54:CA:326:G:C6	3.06	0.44
7:DH:83:TYR:HB2	7:DH:84:SER:H	1.46	0.44
11:DO:114:ILE:O	11:DO:115:LEU:HB3	2.18	0.44
6:DG:111:LEU:N	6:DG:112:PRO:CD	2.80	0.44
54:CA:1174:G:H2'	54:CA:1175:G:C8	2.52	0.44
1:AA:1005:C:C1'	1:AA:1143:A:C2	3.01	0.44
21:AV:52:SER:O	21:AV:53:ILE:HG13	2.18	0.44
1:AA:481:G:H2'	1:AA:507:A:N1	2.33	0.44
1:AA:1665:A:O2'	1:AA:1666:G:H5'	2.18	0.44
27:D5:31:VAL:CG1	27:D5:42:PRO:HG3	2.47	0.44
31:BA:251:G:C2	31:BA:266:G:C6	3.06	0.44
24:AW:32:LEU:HA	24:AW:35:LEU:HD23	1.98	0.44
25:AX:36:VAL:HG23	25:AX:36:VAL:O	2.17	0.44
8:DK:9:LEU:O	8:DK:10:GLU:HG3	2.17	0.44
54:CA:701:C:H1'	54:CA:703:G:N3	2.31	0.44
35:BH:147:ASP:HA	35:BH:150:ARG:CB	2.47	0.44
49:BV:49:ILE:HG22	49:BV:50:ALA:N	2.32	0.44
1:AA:1762:A:C5'	1:AA:1763:G:OP2	2.65	0.44
33:BF:136:GLN:O	33:BF:137:ALA:C	2.56	0.44
33:BF:141:VAL:HG11	33:BF:202:ILE:CD1	2.47	0.44
1:AA:1058:U:H2'	1:AA:1059:G:H8	1.83	0.44
1:AA:1060:U:C1'	1:AA:1062:G:H5'	2.47	0.44
1:AA:2353:G:H2'	1:AA:2354:G:O4'	2.17	0.44
42:CO:26:ALA:C	42:CO:27:LEU:O	2.56	0.44
48:CU:22:VAL:O	48:CU:25:THR:CB	2.66	0.44
31:BA:752:G:H1'	31:BA:754:C:N4	2.29	0.44
19:DT:49:VAL:CG1	19:DT:83:VAL:HG13	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2713:A:H3'	1:AA:2714:G:H5'	1.99	0.44
54:CA:66:G:H2'	54:CA:66:G:N3	2.33	0.44
31:BA:1300:G:O2'	31:BA:1301:U:O5'	2.25	0.44
54:CA:545:C:OP1	34:CG:61:LYS:NZ	2.50	0.44
54:CA:372:C:HO2'	54:CA:373:A:P	2.41	0.44
54:CA:487:A:H3'	54:CA:488:C:H6	1.83	0.44
50:CW:14:LYS:HA	50:CW:17:ARG:NH1	2.32	0.44
1:AA:1434:A:O2'	1:AA:1435:G:H5'	2.18	0.44
1:AA:968:G:H2'	1:AA:969:U:C6	2.52	0.44
25:DX:50:VAL:O	25:DX:51:ALA:C	2.55	0.44
31:BA:666:G:C2	31:BA:741:G:C4	3.06	0.44
34:BG:146:ILE:H	34:BG:146:ILE:CD1	2.28	0.44
1:AA:312:G:P	1:AA:312:G:C8	3.11	0.44
31:BA:750:G:H1'	45:BR:23:GLY:H	1.81	0.44
55:DA:657:U:O2'	55:DA:658:C:H5'	2.18	0.44
54:CA:107:G:O2'	54:CA:108:G:H5'	2.18	0.44
54:CA:1239:A:H4'	54:CA:1240:U:O5'	2.18	0.44
55:DA:1578:U:O2	55:DA:1578:U:H2'	2.18	0.44
8:DK:124:GLY:N	8:DK:142:VAL:HG21	2.33	0.44
55:DA:1204:A:H2'	55:DA:1205:U:OP2	2.18	0.44
55:DA:1014:U:H2'	55:DA:1015:G:H8	1.83	0.44
5:DF:115:ALA:O	5:DF:116:ASP:C	2.55	0.44
54:CA:659:U:OP1	45:CR:9:GLN:NE2	2.51	0.44
48:BU:43:PHE:CA	48:BU:51:LEU:HD12	2.44	0.44
55:DA:270(G):C:H2'	55:DA:270(H):C:H6	1.82	0.44
21:DV:100:VAL:O	21:DV:124:ILE:HG22	2.18	0.44
48:CU:66:LEU:HG	48:CU:70:ILE:HD11	1.99	0.44
49:CV:53:ASN:HD22	49:CV:58:VAL:HG13	1.83	0.44
31:BA:89:U:O2'	31:BA:90:C:P	2.76	0.44
12:AP:66:ILE:HG13	12:AP:67:ARG:N	2.31	0.44
23:DZ:80:LEU:HB2	23:DZ:82:LEU:CD2	2.47	0.44
13:A0:97:VAL:HG13	13:A0:114:VAL:CG2	2.47	0.44
15:AR:98:LYS:HD2	15:AR:98:LYS:H	1.82	0.44
31:BA:464:G:O6	31:BA:466:C:H5'	2.18	0.44
1:AA:1695:G:H2'	1:AA:1696:G:C5'	2.48	0.44
1:AA:616:A:O2'	1:AA:617:G:C5'	2.66	0.44
55:DA:1668:A:H4'	55:DA:1669:A:O5'	2.18	0.44
6:DG:181:ARG:CG	6:DG:181:ARG:O	2.64	0.44
31:BA:568:G:N3	31:BA:574:A:H2	2.16	0.44
31:BA:748:C:H1'	31:BA:749:C:H5	1.83	0.44
31:BA:950:U:H3'	43:BP:102:ARG:HH22	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CJ:26:PHE:HD1	37:CJ:101:LEU:HD22	1.83	0.44
6:DG:32:PRO:HA	6:DG:162:THR:OG1	2.18	0.44
55:DA:616:A:H2'	55:DA:616:A:N3	2.33	0.44
1:AA:305:U:H2'	1:AA:306:U:C6	2.53	0.44
7:DH:41:MET:HA	7:DH:53:GLU:O	2.18	0.44
4:DE:108:SER:O	4:DE:162:ALA:HA	2.18	0.44
47:CT:46:ASP:OD2	47:CT:51:TYR:CD1	2.71	0.44
54:CA:945:G:C6	54:CA:1337:G:C5	3.05	0.44
1:AA:795:C:H2'	1:AA:796:C:C6	2.52	0.44
1:AA:548:A:C2'	1:AA:549:G:H5'	2.47	0.44
55:DA:1230:C:H2'	55:DA:1231:G:H8	1.83	0.44
54:CA:1356:G:H2'	54:CA:1357:A:C8	2.52	0.44
46:CS:83:GLU:HG3	46:CS:84:ALA:N	2.32	0.44
55:DA:844:C:H2'	55:DA:845:G:O4'	2.17	0.44
31:BA:130:A:H1'	31:BA:264:U:H5'	1.99	0.44
55:DA:934:G:H2'	55:DA:935:C:H6	1.82	0.44
55:DA:248:G:H5'	55:DA:250:G:N7	2.32	0.44
1:AA:688:U:H5'	1:AA:1780:A:C2	2.53	0.44
52:CD:27:G:H2'	52:CD:28:G:H8	1.83	0.44
55:DA:2321:G:N3	55:DA:2321:G:H2'	2.32	0.44
55:DA:1098:A:H2'	55:DA:1099:G:C5'	2.48	0.44
58:DL:67:PHE:O	58:DL:68:VAL:CB	2.66	0.44
57:DY:54:ALA:O	57:DY:55:LYS:C	2.56	0.44
26:A4:59:PHE:HE1	49:BV:67:VAL:HB	1.83	0.44
28:A6:25:LYS:CB	28:A6:25:LYS:HZ2	2.31	0.44
28:A6:27:LYS:HE2	28:A6:27:LYS:HB2	1.72	0.44
1:AA:2418:A:OP2	30:A8:29:LYS:HE3	2.18	0.44
26:D4:68:ARG:CB	26:D4:71:ARG:C	2.86	0.44
11:AO:71:VAL:HG12	11:AO:72:PRO:HD3	1.98	0.44
1:AA:2274:A:C5	1:AA:2276:G:C8	3.06	0.44
1:AA:972:G:N1	1:AA:973:A:N6	2.66	0.44
6:AG:70:VAL:HA	6:AG:90:LEU:HD13	1.99	0.44
40:BM:22:LYS:CD	40:BM:26:ALA:HB2	2.43	0.44
40:CM:54:PHE:CE1	40:CM:55:LYS:CE	3.01	0.44
54:CA:468:A:H2'	54:CA:474:G:H5'	2.00	0.44
31:BA:496:A:H2'	31:BA:496:A:N3	2.32	0.44
4:AE:66:HIS:C	4:AE:68:ALA:N	2.63	0.44
40:BM:8:LEU:N	40:BM:8:LEU:HD12	2.33	0.44
55:DA:49:A:H5''	55:DA:50:U:C3'	2.33	0.44
54:CA:1125:U:O4	40:CM:5:ARG:HD3	2.18	0.44
20:AU:42:VAL:HG13	20:AU:65:ALA:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BD:18:G:H1'	52:BD:58:A:H2	1.82	0.44
43:CP:11:ARG:HB2	43:CP:11:ARG:NH1	2.32	0.44
26:D4:23:GLU:OE1	26:D4:23:GLU:N	2.50	0.44
26:D4:38:LYS:HD3	26:D4:38:LYS:HA	1.47	0.44
55:DA:888:C:C3'	55:DA:889:C:H5'	2.48	0.44
54:CA:1158:C:H4'	32:CE:133:LYS:NZ	2.33	0.44
4:DE:188:VAL:HG13	4:DE:188:VAL:O	2.18	0.44
7:DH:54:ARG:NH2	7:DH:57:ASP:OD1	2.47	0.44
24:DW:42:GLY:C	24:DW:44:LEU:N	2.69	0.44
10:AN:64:ARG:NH1	10:AN:83:ALA:CB	2.81	0.44
31:BA:860:A:H2'	31:BA:861:G:O4'	2.17	0.44
5:AF:30:PRO:O	5:AF:31:HIS:C	2.55	0.44
1:AA:654(S):G:O2'	1:AA:654(T):A:O5'	2.19	0.44
55:DA:2311:A:O2'	55:DA:2312:U:O4'	2.29	0.44
20:DU:30:VAL:HG13	20:DU:37:VAL:HG12	1.99	0.44
15:DR:110:ILE:CG2	15:DR:111:ARG:HH11	2.31	0.44
55:DA:794:G:H2'	55:DA:795:C:C6	2.53	0.44
54:CA:1347:G:N2	54:CA:1374:A:OP2	2.51	0.44
55:DA:1827:C:C2'	55:DA:1827:C:O2	2.64	0.44
25:AX:46:ASN:HA	25:AX:46:ASN:HD22	1.53	0.44
29:A7:24:THR:O	29:A7:25:PRO:C	2.56	0.44
33:CF:174:PRO:C	33:CF:176:HIS:N	2.71	0.44
1:AA:1670:C:O2	4:AE:129:HIS:NE2	2.42	0.44
17:D2:64:HIS:N	17:D2:64:HIS:ND1	2.63	0.44
42:BO:36:VAL:HG12	42:BO:37:CYS:N	2.32	0.44
5:DF:179:GLU:N	5:DF:179:GLU:CD	2.72	0.44
1:AA:569:U:C4	1:AA:570:G:C6	3.06	0.44
11:DO:19:VAL:HG12	11:DO:27:HIS:HD2	1.83	0.44
55:DA:2529:G:H5''	55:DA:2530:A:H5''	1.99	0.44
23:DZ:56:GLN:NE2	23:DZ:56:GLN:H	2.14	0.44
43:BP:6:GLY:O	43:BP:7:VAL:HG13	2.17	0.44
55:DA:2749:A:H4'	7:DH:62:LYS:HB3	2.00	0.44
11:AO:12:ALA:C	11:AO:14:LYS:N	2.70	0.44
31:BA:1060:C:C5'	40:BM:51:ARG:HG2	2.44	0.44
55:DA:727:A:H2	3:DD:9:TYR:CD2	2.36	0.44
2:DB:95:U:O5'	2:DB:95:U:H6	2.01	0.44
31:BA:1523:G:H2'	31:BA:1524:C:H6	1.83	0.44
36:CI:99:ALA:O	36:CI:100:ASN:HB3	2.18	0.44
10:DN:112:MET:O	10:DN:113:LYS:C	2.57	0.44
52:BD:72:C:O2	52:BD:72:C:H2'	2.17	0.44
3:AD:118:VAL:HG22	3:AD:119:ALA:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1948:G:N3	31:BA:1418:A:H2	2.15	0.44
33:CF:118:GLN:O	33:CF:119:ARG:C	2.55	0.44
31:BA:558:G:H2'	31:BA:559:A:H2	1.83	0.44
31:BA:635:G:C6	31:BA:636:U:C4	3.06	0.44
31:BA:1512:U:H2'	31:BA:1513:A:C8	2.53	0.44
31:BA:819:A:C5'	31:BA:820:U:OP2	2.66	0.44
55:DA:2199:A:H5'	23:DZ:50:ARG:HH21	1.81	0.44
54:CA:991:U:O2	54:CA:993:G:C8	2.69	0.44
16:D1:74:LEU:C	16:D1:74:LEU:HD12	2.38	0.44
16:D1:69:CYS:O	16:D1:74:LEU:HD12	2.18	0.44
1:AA:2734:A:C8	1:AA:2735:G:C8	3.05	0.44
54:CA:889:A:H1'	54:CA:891:U:C6	2.52	0.44
55:DA:28:A:C2	55:DA:513:A:C8	3.05	0.44
39:CL:80:GLY:C	39:CL:82:ALA:N	2.71	0.44
14:AQ:110:LEU:CD2	14:AQ:111:GLU:N	2.80	0.44
55:DA:2555:U:H2'	55:DA:2556:C:H5'	2.00	0.44
3:DD:70:TRP:HZ3	3:DD:146:GLU:CD	2.20	0.44
42:CO:104:VAL:HG12	42:CO:105:TYR:CE1	2.53	0.44
31:BA:668:G:O2'	45:BR:46:HIS:CD2	2.68	0.44
31:BA:849:C:O2'	31:BA:850:U:H5'	2.18	0.44
16:D1:81:HIS:CD2	16:D1:117:GLN:HG3	2.52	0.44
5:DF:110:LEU:HD11	5:DF:181:LEU:HD13	2.00	0.44
54:CA:243:A:H2	54:CA:245:C:H2'	1.82	0.44
31:BA:355:C:C4'	31:BA:388:G:O2'	2.66	0.44
51:CX:12:LYS:O	51:CX:16:GLY:N	2.50	0.44
51:CX:17:THR:O	51:CX:22:ARG:HD3	2.18	0.44
1:AA:1180:C:H2'	1:AA:1181:C:O4'	2.17	0.44
38:BK:85:ARG:NH1	38:BK:85:ARG:HG3	2.33	0.44
5:DF:135:LYS:O	5:DF:138:GLU:N	2.49	0.44
55:DA:1694:C:HO2'	55:DA:1695:G:P	2.41	0.44
54:CA:1521:G:H2'	54:CA:1522:U:H6	1.83	0.44
1:AA:2649:U:H2'	1:AA:2650:U:C6	2.52	0.44
31:BA:347:G:C2'	31:BA:348:G:H5'	2.47	0.44
55:DA:185:U:H2'	55:DA:186:G:C8	2.53	0.44
1:AA:191:A:H2'	1:AA:192:C:H6	1.83	0.44
55:DA:2025:C:H2'	55:DA:2026:C:C6	2.53	0.44
16:D1:39:LEU:O	16:D1:40:PHE:C	2.54	0.44
55:DA:2850:A:H2	13:D0:61:HIS:CD2	2.36	0.44
41:BN:38:ASN:ND2	41:BN:38:ASN:N	2.66	0.44
1:AA:733:G:H8	1:AA:733:G:O5'	2.00	0.44
1:AA:2464:C:H2'	1:AA:2465:C:C6	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1114:C:H2'	31:BA:1115:C:C6	2.52	0.44
1:AA:2115:G:N7	1:AA:2117:A:OP2	2.51	0.44
31:BA:834:C:H2'	31:BA:835:U:C6	2.53	0.44
38:BK:36:LEU:HA	38:BK:39:LEU:HB2	2.00	0.44
5:AF:135:LYS:HB3	5:AF:138:GLU:HG3	1.99	0.44
30:A8:26:LYS:HB2	30:A8:44:LYS:O	2.17	0.44
54:CA:1088:G:O2'	54:CA:1089:G:H5'	2.18	0.44
9:DM:128:HIS:O	9:DM:130:HIS:CD2	2.71	0.44
31:BA:582:U:C2	31:BA:760:G:C6	3.06	0.44
41:BN:31:THR:O	41:BN:31:THR:HG23	2.18	0.44
55:DA:772:C:H5'	55:DA:1355:G:O2'	2.17	0.44
55:DA:1590:U:H2'	55:DA:1591:G:C8	2.53	0.44
4:AE:188:VAL:O	4:AE:188:VAL:HG13	2.18	0.43
4:AE:14:ILE:CG1	15:AR:14:TYR:CZ	2.99	0.43
56:DI:5:ILE:O	56:DI:6:GLU:CG	2.66	0.43
57:DY:50:ARG:H	57:DY:84:GLU:N	2.15	0.43
28:A6:25:LYS:HB3	28:A6:25:LYS:NZ	2.33	0.43
28:A6:9:LEU:HD22	28:A6:11:LEU:HD21	1.99	0.43
12:AP:10:ARG:HG3	12:AP:10:ARG:NH1	2.33	0.43
54:CA:535:A:H4'	54:CA:536:C:OP1	2.13	0.43
55:DA:880:G:N3	55:DA:880:G:C2'	2.79	0.43
3:DD:35:LYS:CA	3:DD:64:ILE:HG22	2.48	0.43
43:BP:26:GLY:O	43:BP:28:ALA:N	2.50	0.43
30:A8:4:MET:HB3	30:A8:61:LEU:CD2	2.48	0.43
54:CA:1003:G:C8	54:CA:1003:G:H3'	2.52	0.43
55:DA:498:G:H21	20:DU:47:LYS:HZ2	1.66	0.43
54:CA:963:G:H21	40:CM:55:LYS:HZ3	1.65	0.43
14:DQ:83:LYS:HE2	14:DQ:84:GLN:HG3	1.99	0.43
1:AA:2592:G:C5	1:AA:2593:U:C5	3.06	0.43
1:AA:2702:U:C2'	1:AA:2702:U:O2	2.66	0.43
1:AA:992:C:H2'	1:AA:993:G:C8	2.53	0.43
1:AA:2311:A:O2'	1:AA:2312:U:C5'	2.66	0.43
4:AE:77:ILE:HA	4:AE:78:LEU:HD23	2.00	0.43
7:DH:128:PRO:HG2	7:DH:129:THR:H	1.83	0.43
32:CE:164:VAL:O	32:CE:186:ALA:HA	2.17	0.43
45:CR:76:GLU:HA	45:CR:79:ARG:HH12	1.83	0.43
43:CP:67:GLU:CD	43:CP:68:GLY:N	2.71	0.43
55:DA:887:A:H1'	55:DA:889:C:N4	2.33	0.43
31:BA:1350:A:H2'	31:BA:1351:U:C6	2.52	0.43
1:AA:1024:G:OP2	1:AA:1026:U:OP1	2.36	0.43
24:DW:36:ARG:O	24:DW:40:SER:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:91:LEU:HD12	21:AV:130:PRO:HG3	1.99	0.43
23:AZ:78:LYS:CD	23:AZ:80:LEU:HD21	2.28	0.43
8:DK:86:THR:O	8:DK:87:LYS:HB2	2.18	0.43
1:AA:182:A:H2	1:AA:433:C:O2	2.01	0.43
55:DA:2712:U:H2'	55:DA:2712(A):A:H3'	1.98	0.43
1:AA:138:G:N2	19:AT:50:LYS:HZ1	2.16	0.43
37:BJ:74:GLU:HG2	37:BJ:91:VAL:HG22	2.00	0.43
55:DA:226:G:H2'	55:DA:227:A:C8	2.53	0.43
54:CA:186(C):G:C6	54:CA:191(E):G:C6	3.06	0.43
1:AA:774:A:C2	1:AA:787:U:O2'	2.70	0.43
24:AW:40:SER:C	24:AW:42:GLY:H	2.20	0.43
1:AA:60:G:H5''	24:AW:54:LYS:NZ	2.32	0.43
25:AX:47:VAL:CG1	25:AX:56:VAL:HG21	2.47	0.43
17:D2:38:LEU:N	17:D2:51:VAL:HG13	2.33	0.43
55:DA:1931:U:C5	55:DA:1969:A:N7	2.86	0.43
1:AA:1454:U:C4'	1:AA:1455:G:OP1	2.55	0.43
35:CH:114:GLY:O	35:CH:115:VAL:C	2.57	0.43
35:CH:78:HIS:HB2	38:CK:104:ARG:HG2	1.99	0.43
31:BA:1162:C:C2	31:BA:1175:G:C2	3.05	0.43
55:DA:858:U:O2'	55:DA:2268:A:C1'	2.66	0.43
55:DA:1726:G:C2'	55:DA:1727:U:H5'	2.47	0.43
54:CA:96:G:C2	54:CA:97:U:H1'	2.53	0.43
35:BH:79:GLU:HB3	35:BH:93:PRO:HD2	2.00	0.43
40:BM:54:PHE:C	40:BM:55:LYS:CG	2.86	0.43
42:BO:27:LEU:HD11	42:BO:60:LEU:CB	2.45	0.43
53:C1:38:U:H2'	53:C1:39:U:C5'	2.48	0.43
55:DA:587:C:OP2	11:DO:21:ARG:NH2	2.50	0.43
35:CH:50:GLU:HG3	35:CH:52:PRO:CD	2.37	0.43
9:AM:66:LYS:O	9:AM:67:LEU:C	2.56	0.43
34:CG:31:CYS:O	34:CG:32:ALA:HB3	2.18	0.43
10:DN:77:ILE:HG23	10:DN:77:ILE:O	2.18	0.43
6:AG:129:GLY:O	6:AG:161:THR:HB	2.17	0.43
31:BA:511:C:N1	31:BA:512:U:C5	2.85	0.43
48:CU:36:ASN:O	48:CU:37:VAL:C	2.56	0.43
34:BG:121:VAL:HG22	34:BG:126:ILE:HG13	2.00	0.43
54:CA:404:U:H2'	54:CA:405:U:C6	2.53	0.43
55:DA:805:G:H5'	55:DA:806:C:OP2	2.18	0.43
35:CH:11:ILE:HD12	35:CH:105:VAL:HG13	1.99	0.43
1:AA:1936:A:H2'	1:AA:1945:G:N7	2.33	0.43
49:BV:78:ARG:HH11	49:BV:78:ARG:HG2	1.83	0.43
54:CA:197:A:N7	54:CA:221:C:H4'	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:204:A:O2'	55:DA:205:G:P	2.76	0.43
32:CE:33:TYR:HB2	32:CE:43:ASP:CB	2.42	0.43
32:CE:56:ARG:HH11	32:CE:56:ARG:CG	2.30	0.43
1:AA:969:U:H6	1:AA:969:U:O5'	2.01	0.43
5:AF:53:THR:O	5:AF:57:VAL:HG23	2.17	0.43
38:CK:94:TYR:CE1	38:CK:132:GLU:HB2	2.53	0.43
38:CK:134:ILE:O	38:CK:135:CYS:HB3	2.17	0.43
21:AV:150:LEU:CD2	21:AV:150:LEU:C	2.86	0.43
1:AA:727:A:H2	3:AD:9:TYR:CD2	2.36	0.43
1:AA:669:G:H3'	1:AA:670:A:C8	2.52	0.43
1:AA:1191:G:O2'	1:AA:1192:G:H5'	2.18	0.43
55:DA:270(F):U:H2'	55:DA:270(G):C:H6	1.79	0.43
54:CA:419:C:C4	54:CA:420:U:C5	3.06	0.43
31:BA:1095:U:H2'	31:BA:1096:C:O4'	2.18	0.43
55:DA:826:U:H2'	55:DA:828:U:O4'	2.18	0.43
7:AH:44:VAL:CG1	7:AH:51:ARG:HB2	2.48	0.43
18:AS:43:GLY:O	18:AS:44:ALA:C	2.56	0.43
13:D0:21:TYR:OH	13:D0:43:GLU:HG2	2.18	0.43
1:AA:2168:G:C2	1:AA:2170:A:OP2	2.71	0.43
54:CA:863:U:H2'	54:CA:865:A:OP2	2.18	0.43
34:CG:159:ARG:O	34:CG:163:GLU:HB2	2.18	0.43
55:DA:1494:A:N3	55:DA:1494:A:H2'	2.33	0.43
1:AA:1417:C:H2'	1:AA:1418:G:C5'	2.48	0.43
52:BC:66:U:C4	52:BC:67:C:N4	2.86	0.43
55:DA:2639:A:C2'	55:DA:2640:G:H5'	2.47	0.43
1:AA:1490:A:C4'	1:AA:1491:G:OP2	2.66	0.43
31:BA:1049:U:OP1	44:BQ:3:ARG:NH1	2.51	0.43
37:BJ:140:ASP:O	37:BJ:143:ARG:HB2	2.18	0.43
1:AA:2886:G:H2'	1:AA:2887:U:C6	2.53	0.43
1:AA:2055:C:H4'	1:AA:2056:G:H5''	2.00	0.43
13:A0:103:ARG:HD2	13:A0:108:GLY:O	2.18	0.43
32:CE:193:ASP:OD2	32:CE:193:ASP:O	2.36	0.43
1:AA:981:A:C2	1:AA:2027:G:N3	2.86	0.43
26:A4:49:PHE:HZ	43:BP:61:GLU:O	2.01	0.43
55:DA:1122:G:C2	55:DA:1123:C:C6	3.07	0.43
1:AA:123:G:O3'	1:AA:1376:C:H4'	2.18	0.43
1:AA:281:G:O2'	1:AA:282:A:O4'	2.35	0.43
54:CA:25:C:H2'	54:CA:26:A:C8	2.53	0.43
10:AN:25:LEU:HB2	10:AN:38:VAL:HG23	1.99	0.43
1:AA:2078:C:O2'	1:AA:2079:U:H5'	2.18	0.43
31:BA:1508:G:O2'	31:BA:1509:C:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:1:MET:O	5:AF:2:LYS:C	2.56	0.43
38:BK:25:ASP:OD1	38:BK:25:ASP:N	2.51	0.43
3:AD:45:ASN:C	3:AD:45:ASN:OD1	2.56	0.43
31:BA:1070:U:O2'	31:BA:1071:C:H5'	2.18	0.43
1:AA:2820:A:H1'	13:A0:3:HIS:CB	2.38	0.43
55:DA:1070:A:N6	55:DA:1096:A:C6	2.86	0.43
55:DA:1079:C:N4	55:DA:1080:A:N6	2.66	0.43
58:DL:78:ILE:HD11	58:DL:127:ILE:CG2	2.48	0.43
58:DL:134:MET:O	58:DL:135:GLY:C	2.55	0.43
58:DL:143:GLU:O	58:DL:145:LYS:HG2	2.18	0.43
58:DL:44:ALA:C	58:DL:46:ALA:H	2.20	0.43
58:DL:58:THR:O	58:DL:59:ILE:HG12	2.17	0.43
57:DY:10:LEU:O	57:DY:11:ALA:C	2.57	0.43
57:DY:13:LEU:CD2	57:DY:62:ALA:O	2.66	0.43
26:A4:55:ARG:HD2	26:A4:56:VAL:HG23	2.00	0.43
43:BP:106:ASN:O	43:BP:107:ALA:HB3	2.18	0.43
1:AA:2067:G:C4'	1:AA:2068:U:OP2	2.63	0.43
1:AA:2247:A:H2'	1:AA:2248:C:H6	1.83	0.43
1:AA:918:A:H5''	2:AB:97:G:O2'	2.18	0.43
1:AA:955:C:O2	1:AA:955:C:H2'	2.18	0.43
1:AA:959:A:C6	1:AA:960:A:N1	2.87	0.43
1:AA:966:G:H2'	1:AA:967:C:C6	2.53	0.43
55:DA:1902:C:H2'	55:DA:1903:G:O5'	2.18	0.43
54:CA:518:C:O2	54:CA:518:C:C2'	2.64	0.43
52:CB:19:G:H22	52:CB:56:C:N4	2.07	0.43
21:DV:182:LYS:HB3	21:DV:183:LEU:HD23	1.99	0.43
32:CE:7:VAL:HG23	32:CE:8:LYS:HD3	2.00	0.43
3:DD:32:SER:O	3:DD:33:LEU:CB	2.47	0.43
2:AB:44:G:C2	2:AB:48:A:N3	2.86	0.43
6:AG:101:ILE:CG1	6:AG:102:PHE:N	2.79	0.43
15:AR:76:PHE:HA	15:AR:77:PRO:HD3	1.75	0.43
55:DA:2517:C:HO2'	55:DA:2518:A:P	2.40	0.43
30:A8:55:ALA:O	30:A8:56:GLU:C	2.57	0.43
57:DY:142:LEU:HD13	57:DY:143:GLN:CB	2.47	0.43
55:DA:481:G:C1'	55:DA:506:G:N2	2.79	0.43
20:DU:50:ARG:C	20:DU:53:PRO:HD2	2.38	0.43
8:AK:81:VAL:HG12	8:AK:82:ARG:N	2.33	0.43
31:BA:65:U:H4'	31:BA:66:G:C5'	2.48	0.43
54:CA:38:G:N2	54:CA:397:A:C2	2.82	0.43
16:A1:113:ALA:C	16:A1:115:ALA:N	2.70	0.43
16:A1:93:LYS:CD	16:A1:93:LYS:H	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:A1:90:VAL:HA	17:A2:39:LEU:HD22	1.99	0.43
31:BA:412:A:N6	34:BG:35:ARG:HA	2.33	0.43
4:AE:4:ILE:CD1	4:AE:28:ALA:HB3	2.44	0.43
7:AH:4:ILE:HB	7:AH:6:ARG:NE	2.33	0.43
32:CE:71:VAL:O	32:CE:165:VAL:HG22	2.18	0.43
1:AA:1254:A:H5'	1:AA:1255:U:O5'	2.17	0.43
27:D5:20:ARG:C	27:D5:22:HIS:N	2.71	0.43
31:BA:697:U:H3'	31:BA:698:G:H8	1.83	0.43
6:DG:34:LEU:HD12	6:DG:100:TRP:CH2	2.53	0.43
6:DG:121:ASN:ND2	6:DG:121:ASN:C	2.71	0.43
6:DG:125:PHE:CD2	6:DG:166:ASP:HB2	2.53	0.43
55:DA:1312:U:O2'	55:DA:1313:U:OP2	2.35	0.43
55:DA:1330:C:O2'	55:DA:1331:A:H5'	2.18	0.43
1:AA:1021:A:H3'	1:AA:1021:A:H8	1.82	0.43
20:AU:76:CYS:O	20:AU:78:ALA:N	2.52	0.43
5:AF:39:TRP:O	5:AF:40:GLN:C	2.57	0.43
54:CA:188:U:C2'	54:CA:189:U:C5'	2.94	0.43
32:BE:51:LEU:HD23	32:BE:201:ILE:HD12	1.99	0.43
1:AA:141(A):C:H2'	1:AA:142:G:O4'	2.18	0.43
50:CW:101:GLY:O	50:CW:102:GLY:C	2.56	0.43
6:DG:67:LYS:H	26:D4:6:HIS:CE1	2.36	0.43
1:AA:686:G:N2	1:AA:788:A:N6	2.60	0.43
1:AA:774:A:H2	1:AA:787:U:O2'	2.01	0.43
3:AD:224:ALA:HA	3:AD:233:HIS:O	2.18	0.43
3:AD:109:ASP:N	3:AD:196:VAL:O	2.51	0.43
6:DG:146:TYR:O	6:DG:149:VAL:N	2.50	0.43
55:DA:2063:C:C5	55:DA:2064:C:C5	3.06	0.43
38:CK:103:VAL:HG21	38:CK:109:ILE:C	2.38	0.43
55:DA:1827:C:C2'	55:DA:1828:G:H5'	2.48	0.43
1:AA:846:C:H2'	1:AA:930:U:O4	2.17	0.43
55:DA:918:A:H2'	55:DA:919:G:O5'	2.18	0.43
55:DA:2735:G:H2'	55:DA:2736:G:H8	1.84	0.43
50:BW:48:LYS:O	50:BW:50:GLU:N	2.51	0.43
18:DS:58:ALA:HB1	18:DS:64:MET:HB2	1.99	0.43
53:C1:56:U:O2	53:C1:56:U:C2'	2.66	0.43
15:DR:122:ASP:O	15:DR:123:GLN:O	2.36	0.43
33:CF:58:GLU:HB2	33:CF:65:ALA:CB	2.40	0.43
54:CA:408:A:C4	54:CA:409:G:C8	3.06	0.43
34:CG:107:ARG:NH2	34:CG:194:LEU:HD11	2.33	0.43
34:CG:116:GLN:O	34:CG:119:GLN:HB3	2.18	0.43
55:DA:1042:G:H2'	55:DA:1043:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:A7:38:GLY:O	29:A7:39:ARG:C	2.55	0.43
14:AQ:25:ARG:HB3	14:AQ:25:ARG:HH11	1.79	0.43
43:CP:108:ARG:NH1	43:CP:112:GLY:O	2.50	0.43
48:CU:76:LEU:HB3	48:CU:78:LEU:HG	2.00	0.43
17:A2:29:PRO:HA	17:A2:61:VAL:HG21	1.99	0.43
8:DK:94:ALA:H	8:DK:116:LEU:HD13	1.83	0.43
55:DA:2496:C:OP1	12:DP:81:VAL:CG1	2.66	0.43
10:AN:24:VAL:HB	10:AN:33:ALA:HB2	1.99	0.43
54:CA:411:A:C5	54:CA:429:U:C5	3.06	0.43
31:BA:921:U:O2	35:BH:19:MET:HB3	2.17	0.43
3:AD:132:PRO:HD2	3:AD:135:PHE:CD1	2.53	0.43
16:D1:52:ARG:CG	16:D1:52:ARG:NH1	2.80	0.43
31:BA:557:G:H2'	31:BA:558:G:C8	2.52	0.43
8:DK:27:ARG:C	8:DK:28:ASN:HD22	2.21	0.43
5:AF:132:VAL:C	5:AF:134:GLY:H	2.18	0.43
6:DG:2:PRO:O	6:DG:4:ASP:N	2.50	0.43
38:BK:60:ARG:HH11	38:BK:60:ARG:HB2	1.82	0.43
7:DH:9:ILE:HD12	7:DH:49:VAL:HG11	2.00	0.43
8:AK:18:VAL:O	8:AK:18:VAL:HG12	2.17	0.43
55:DA:405:U:C5'	55:DA:406:G:OP2	2.63	0.43
1:AA:840:C:P	1:AA:932:G:H22	2.41	0.43
15:DR:67:SER:N	15:DR:70:VAL:O	2.51	0.43
42:CO:101:VAL:HG11	42:CO:104:VAL:HG21	2.01	0.43
12:DP:140:ALA:O	12:DP:141:GLN:C	2.56	0.43
1:AA:2473:U:C2'	1:AA:2473:U:O2	2.62	0.43
44:BQ:23:ARG:O	44:BQ:24:CYS:C	2.56	0.43
7:AH:44:VAL:O	7:AH:50:VAL:HG23	2.17	0.43
54:CA:721:G:H1'	54:CA:722:A:C2	2.54	0.43
54:CA:1266:G:N2	54:CA:1270:C:C4	2.86	0.43
13:A0:34:ILE:HG22	13:A0:114:VAL:HB	2.00	0.43
23:AZ:5:CYS:HB3	23:AZ:8:SER:OG	2.18	0.43
8:DK:73:GLU:HB2	8:DK:136:VAL:CG2	2.48	0.43
35:BH:63:ARG:O	35:BH:66:MET:HE1	2.18	0.43
15:AR:45:PHE:CE1	15:AR:65:LYS:HE2	2.53	0.43
54:CA:939:G:C6	54:CA:940:C:N4	2.85	0.43
10:DN:86:ILE:CD1	10:DN:86:ILE:H	2.31	0.43
1:AA:2650:U:H2'	1:AA:2651:C:C6	2.53	0.43
31:BA:748:C:HO2'	31:BA:749:C:P	2.39	0.43
46:CS:75:ARG:C	46:CS:77:ALA:N	2.69	0.43
12:AP:110:THR:OG1	12:AP:112:GLU:HB2	2.18	0.43
54:CA:1000:A:H2'	54:CA:1001:G:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:30:C:C4'	2:AB:58:A:H2	2.31	0.43
55:DA:2884:U:H2'	55:DA:2885:C:C5'	2.48	0.43
54:CA:1338:G:C6	54:CA:1339:A:C6	3.06	0.43
41:CN:57:THR:HG23	41:CN:58:PRO:HD2	1.99	0.43
6:DG:51:ARG:CB	6:DG:51:ARG:NH1	2.81	0.43
34:CG:88:VAL:O	34:CG:90:GLY:N	2.44	0.43
42:BO:71:PRO:O	42:BO:102:ARG:NH1	2.50	0.43
54:CA:40:C:H2'	54:CA:41:G:O4'	2.19	0.43
54:CA:10:A:H2'	54:CA:11:G:H8	1.83	0.43
55:DA:1242:A:H5''	55:DA:1243:G:OP2	2.18	0.43
36:CI:78:GLU:HA	36:CI:81:ILE:CD1	2.47	0.43
21:DV:1:MET:HB3	21:DV:2:GLU:H	1.56	0.43
31:BA:1460:A:H2'	31:BA:1461:G:O4'	2.18	0.43
36:BI:4:TYR:CE1	36:BI:92:LYS:HG2	2.53	0.43
52:CB:16:U:H2'	52:CB:17:C:H5'	2.00	0.43
1:AA:325:G:H2'	1:AA:326:G:O4'	2.18	0.43
45:BR:48:LYS:HD3	45:BR:48:LYS:HA	1.77	0.43
34:BG:138:TYR:C	34:BG:138:TYR:CD2	2.92	0.43
36:BI:98:LEU:HD12	36:BI:98:LEU:O	2.18	0.43
31:BA:1425:U:H2'	31:BA:1426:C:C6	2.53	0.43
31:BA:995:C:O2'	31:BA:996:A:H5'	2.18	0.43
7:DH:155:SER:O	7:DH:156:ALA:O	2.36	0.43
56:DI:27:LEU:O	56:DI:29:GLU:N	2.51	0.43
58:DL:102:GLU:C	58:DL:104:VAL:N	2.72	0.43
58:DL:54:PRO:HD2	58:DL:72:PRO:CB	2.47	0.43
58:DL:85:GLU:C	58:DL:86:LYS:HE2	2.38	0.43
57:DY:133:GLU:HG2	57:DY:133:GLU:H	1.29	0.43
57:DY:28:ASN:N	57:DY:80:VAL:HG11	2.34	0.43
57:DY:50:ARG:N	57:DY:83:TYR:CA	2.80	0.43
57:DY:89:ALA:CB	57:DY:125:LEU:HD12	2.47	0.43
49:BV:11:VAL:HG22	49:BV:12:ASP:N	2.33	0.43
1:AA:818:G:C2	1:AA:1190:G:O6	2.71	0.43
11:AO:31:ALA:C	11:AO:32:THR:CG2	2.86	0.43
55:DA:1794:U:O4'	55:DA:1900:A:C2	2.71	0.43
21:DV:145:GLU:O	21:DV:146:ILE:C	2.57	0.43
54:CA:628:G:C2	54:CA:629:G:N3	2.85	0.43
32:CE:8:LYS:CE	32:CE:11:LEU:HD22	2.48	0.43
3:DD:25:THR:HG21	3:DD:82:ILE:N	2.28	0.43
3:DD:85:ASP:OD1	3:DD:85:ASP:C	2.54	0.43
3:DD:95:LEU:CD1	3:DD:97:TYR:CE1	3.01	0.43
6:AG:111:LEU:HD13	6:AG:120:LEU:HD21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:67:LYS:O	6:AG:67:LYS:HD2	2.19	0.43
31:BA:1354:C:H2'	31:BA:1355:G:H8	1.83	0.43
54:CA:1004:A:C8	54:CA:1036:G:N2	2.86	0.43
20:DU:43:ASN:CA	20:DU:64:GLU:HA	2.48	0.43
54:CA:1359:C:C5	44:CQ:35:ARG:HD2	2.53	0.43
55:DA:2809:A:H62	55:DA:2891:G:H2'	1.83	0.43
14:DQ:111:GLU:O	14:DQ:112:PHE:HD1	2.01	0.43
8:DK:110:ASP:OD2	8:DK:130:TYR:CE1	2.71	0.43
28:D6:37:ARG:O	28:D6:48:VAL:O	2.36	0.43
17:A2:46:VAL:O	17:A2:48:GLY:N	2.51	0.43
1:AA:995:C:H1'	16:A1:61:TRP:HZ2	1.82	0.43
1:AA:1407:C:H2'	1:AA:1407:C:O2	2.17	0.43
20:DU:77:PRO:O	20:DU:78:ALA:CB	2.66	0.43
16:A1:50:ARG:HH11	17:A2:72:VAL:CG2	2.31	0.43
6:AG:44:GLY:O	6:AG:47:LYS:HB2	2.18	0.43
4:AE:5:LEU:N	4:AE:5:LEU:HD23	2.33	0.43
31:BA:1281:U:C2'	31:BA:1282:C:OP1	2.66	0.43
33:CF:70:VAL:CG1	33:CF:71:ALA:H	2.30	0.43
24:DW:18:PRO:CD	24:DW:19:VAL:H	2.28	0.43
24:DW:17:SER:OG	24:DW:67:LYS:HE3	2.17	0.43
37:BJ:50:ILE:C	37:BJ:52:GLU:H	2.21	0.43
8:AK:101:LEU:CG	8:AK:109:ILE:HD12	2.42	0.43
8:AK:114:LEU:HA	8:AK:130:TYR:HB2	2.00	0.43
54:CA:586:C:O2'	54:CA:878:G:H4'	2.18	0.43
20:AU:75:ILE:CG1	20:AU:76:CYS:N	2.81	0.43
20:AU:47:LYS:HG3	20:AU:60:PHE:HD1	1.84	0.43
5:AF:154:VAL:HA	5:AF:191:ARG:O	2.18	0.43
5:AF:31:HIS:CB	11:AO:9:ASN:ND2	2.78	0.43
39:CL:8:GLY:CA	39:CL:79:LEU:HD12	2.30	0.43
39:CL:7:THR:O	39:CL:83:ARG:HD3	2.18	0.43
32:BE:9:GLU:O	32:BE:11:LEU:N	2.51	0.43
32:BE:221:LEU:HA	32:BE:224:GLN:CG	2.48	0.43
6:DG:47:LYS:HD3	6:DG:81:LYS:CB	2.35	0.43
1:AA:90:U:O2	1:AA:90:U:C2'	2.42	0.43
1:AA:91:A:H2'	1:AA:92:G:O4'	2.18	0.43
46:CS:21:VAL:HG22	46:CS:34:GLU:O	2.19	0.43
1:AA:26:G:H1'	1:AA:514:A:N6	2.33	0.43
2:DB:41:U:C4	6:DG:70:VAL:O	2.70	0.43
29:A7:47:ARG:HB2	29:A7:47:ARG:HH11	1.83	0.43
53:B1:35:A:H2'	53:B1:36:G:O4'	2.18	0.43
37:CJ:111:ARG:NH1	37:CJ:113:GLU:OE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:30:G:H2'	55:DA:31:C:H6	1.84	0.43
1:AA:626:U:H5'	1:AA:627:A:C5'	2.47	0.43
54:CA:96:G:O2'	54:CA:97:U:H5'	2.18	0.43
1:AA:1697:G:H3'	1:AA:1698:A:H5''	2.01	0.43
31:BA:187:C:O2	31:BA:191(A):G:C6	2.72	0.43
12:DP:2:LEU:HA	12:DP:2:LEU:HD13	1.74	0.43
1:AA:337:C:H2'	1:AA:338:G:O4'	2.19	0.43
33:BF:35:GLU:N	33:BF:38:ARG:NH2	2.67	0.43
3:DD:89:SER:HB2	3:DD:159:ALA:CB	2.48	0.43
8:AK:117:GLU:HB2	8:AK:118:LYS:H	1.50	0.43
4:DE:16:ARG:O	4:DE:17:ASP:HB2	2.18	0.43
31:BA:511:C:O2'	31:BA:512:U:H5''	2.18	0.43
13:D0:70:LEU:HD12	13:D0:76:VAL:HG22	2.00	0.43
50:BW:73:HIS:O	50:BW:74:LYS:HB2	2.18	0.43
48:BU:50:ILE:HD11	48:BU:70:ILE:CG2	2.42	0.43
1:AA:2129:C:C2'	1:AA:2130:U:C5'	2.96	0.43
31:BA:452:A:HO2'	31:BA:453:A:C4'	2.29	0.43
54:CA:152:A:N6	54:CA:170:U:C2	2.86	0.43
1:AA:830:G:H1'	1:AA:2448:A:C6	2.53	0.43
31:BA:733:A:O2'	31:BA:734:G:C5'	2.66	0.43
17:D2:61:VAL:C	17:D2:62:LEU:HD12	2.37	0.43
10:DN:7:TYR:CE1	10:DN:20:MET:HB2	2.53	0.43
13:D0:75:LEU:HD13	13:D0:75:LEU:C	2.39	0.43
1:AA:312:G:OP2	1:AA:312:G:C8	2.60	0.43
1:AA:1363:C:H2'	1:AA:1364:G:H8	1.82	0.43
31:BA:186:C:C1'	50:BW:81:LYS:NZ	2.80	0.43
54:CA:107:G:O6	50:CW:15:ARG:HD3	2.18	0.43
15:DR:95:ARG:HA	15:DR:95:ARG:HD2	1.81	0.43
10:AN:111:PHE:HB3	10:AN:114:ILE:CD1	2.45	0.43
55:DA:74:A:O5'	55:DA:74:A:C8	2.72	0.43
39:CL:92:TYR:O	39:CL:96:LEU:HB2	2.18	0.43
31:BA:806:C:H2'	31:BA:807:A:H8	1.82	0.43
1:AA:726:G:O2'	1:AA:727:A:P	2.76	0.43
45:CR:17:ARG:NH1	45:CR:17:ARG:HG3	2.27	0.43
1:AA:2679:A:O2'	1:AA:2680:C:H5'	2.19	0.43
13:D0:12:ARG:CG	13:D0:12:ARG:NH1	2.80	0.43
55:DA:883:G:P	55:DA:883:G:H8	2.42	0.43
45:CR:61:GLY:C	45:CR:65:ARG:HH12	2.20	0.43
55:DA:1666:G:C4'	10:DN:6:THR:HG23	2.46	0.43
31:BA:1187:G:H5'	31:BA:1188:A:OP2	2.17	0.43
47:BT:66:SER:C	47:BT:67:LYS:O	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:DV:124:ILE:HG23	21:DV:124:ILE:O	2.19	0.43
54:CA:420:U:O2	54:CA:420:U:H2'	2.18	0.43
1:AA:2283:C:H2'	1:AA:2284:C:H5'	2.00	0.43
8:AK:51:ILE:O	8:AK:53:ALA:N	2.51	0.43
55:DA:270:A:H1'	55:DA:370:G:C2	2.53	0.43
55:DA:373:U:O2	55:DA:423:A:C2	2.69	0.43
12:AP:28:ALA:CB	12:AP:67:ARG:NH1	2.81	0.43
32:BE:137:ARG:C	32:BE:139:LYS:N	2.71	0.43
31:BA:1190:G:P	33:BF:5:ILE:HG23	2.58	0.43
31:BA:563:A:H1'	31:BA:566:G:HO2'	1.83	0.43
55:DA:287:C:H2'	55:DA:288:C:C6	2.53	0.43
1:AA:2227:A:N6	1:AA:2228:G:C6	2.86	0.43
54:CA:967:C:H2'	54:CA:968:A:C8	2.53	0.43
33:CF:126:ARG:NH1	33:CF:126:ARG:HG2	2.32	0.43
35:BH:36:ASP:C	35:BH:38:GLN:H	2.22	0.43
14:AQ:47:THR:C	14:AQ:48:LEU:HD12	2.39	0.43
24:DW:4:SER:OG	24:DW:5:GLU:N	2.51	0.43
55:DA:824:A:H1'	55:DA:2358:G:N7	2.33	0.43
33:CF:109:PRO:C	33:CF:111:LEU:H	2.22	0.43
31:BA:1069:C:O2'	31:BA:1192:C:H1'	2.18	0.43
52:CB:64:A:C2'	52:CB:65:G:H5'	2.48	0.43
1:AA:2513:G:H2'	1:AA:2514:U:C6	2.53	0.43
1:AA:1032:A:H2	1:AA:1122:G:H22	1.65	0.43
18:DS:28:SER:HB3	18:DS:31:GLU:HB2	2.01	0.43
8:AK:69:LYS:HD2	8:AK:69:LYS:C	2.38	0.43
55:DA:73:A:O5'	55:DA:73:A:H8	2.01	0.43
21:AV:93:ASP:O	21:AV:93:ASP:OD1	2.37	0.43
1:AA:1187:G:H8	1:AA:1187:G:O5'	2.02	0.43
55:DA:97:C:O2	55:DA:97:C:H2'	2.17	0.43
54:CA:616:G:H2'	54:CA:616:G:N3	2.32	0.43
2:DB:58:A:H5'	2:DB:59:A:OP2	2.17	0.43
57:DY:135:ARG:HB2	56:DJ:19:GLU:OE2	2.19	0.43
58:DL:133:SER:C	58:DL:137:GLU:OE1	2.57	0.43
57:DY:15:GLU:CD	57:DY:19:ARG:NH2	2.72	0.43
57:DY:54:ALA:O	57:DY:57:THR:HB	2.17	0.43
57:DY:74:LEU:N	57:DY:74:LEU:HD12	2.33	0.43
31:BA:1365:G:C5	31:BA:1366:C:C5	3.07	0.43
1:AA:246:C:H4'	1:AA:385:C:O4'	2.18	0.43
2:AB:95:U:C6	2:AB:95:U:H3'	2.53	0.43
54:CA:74:C:H2'	54:CA:75:C:H5'	2.00	0.43
3:DD:92:ILE:HG22	3:DD:106:ILE:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:794:A:C5'	54:CA:794:A:C8	2.99	0.43
55:DA:1279:G:H4'	13:D0:31:HIS:CD2	2.53	0.43
40:BM:74:ILE:CD1	40:BM:74:ILE:N	2.80	0.43
30:D8:22:VAL:CB	30:D8:53:PRO:HB2	2.49	0.43
30:A8:50:LEU:HD12	30:A8:53:PRO:O	2.17	0.43
20:DU:63:LYS:HZ2	20:DU:64:GLU:HG3	1.83	0.43
54:CA:397:A:N7	54:CA:547:A:O2'	2.51	0.43
1:AA:1008:C:N4	1:AA:1136:G:C6	2.87	0.43
9:AM:36:GLY:H	9:AM:42:TRP:HE3	1.67	0.43
1:AA:1603:A:OP1	1:AA:1604:C:OP2	2.37	0.43
34:BG:3:ARG:HD2	34:BG:118:ARG:HE	1.83	0.43
16:A1:50:ARG:NH1	17:A2:72:VAL:CB	2.80	0.43
16:A1:50:ARG:NH1	17:A2:72:VAL:HB	2.34	0.43
6:AG:75:LYS:HD2	6:AG:77:ILE:HD11	1.99	0.43
1:AA:2791:C:C4	1:AA:2893:G:C6	3.06	0.43
4:AE:33:VAL:O	4:AE:33:VAL:HG13	2.18	0.43
54:CA:1403:C:H1'	54:CA:1500:A:N1	2.34	0.43
55:DA:2880:C:O2'	13:D0:90:ARG:NH1	2.50	0.43
31:BA:960:U:C2'	31:BA:960:U:O2	2.64	0.43
52:CD:59:U:H3'	52:CD:60:U:C6	2.50	0.43
1:AA:2523:G:H5'	1:AA:2523:G:C8	2.45	0.43
7:DH:6:ARG:HA	7:DH:66:GLY:HA2	2.00	0.43
8:AK:98:ALA:O	8:AK:99:GLU:C	2.57	0.43
1:AA:300:A:H2'	1:AA:334:C:H1'	1.99	0.43
1:AA:2653:U:O5'	1:AA:2653:U:H6	2.01	0.43
37:BJ:78:ARG:HD2	37:BJ:79:ARG:N	2.33	0.43
32:BE:9:GLU:C	32:BE:11:LEU:H	2.21	0.43
14:DQ:89:ARG:O	14:DQ:90:GLY:C	2.57	0.43
1:AA:141:A:H1'	1:AA:1408:C:C1'	2.47	0.43
1:AA:2438:U:O3'	1:AA:2439:A:H3'	2.18	0.43
24:AW:33:MET:O	24:AW:36:ARG:HB2	2.16	0.43
53:B1:28:G:O2'	53:B1:29:G:O4'	2.28	0.43
4:AE:199:ARG:HH11	4:AE:199:ARG:HB3	1.82	0.43
24:AW:46:GLN:H	24:AW:49:LYS:HE3	1.83	0.43
37:CJ:113:GLU:HB3	37:CJ:118:VAL:HG22	2.01	0.43
54:CA:701:C:C2'	54:CA:702:A:OP2	2.66	0.43
31:BA:881:G:C6	31:BA:882:C:C4	3.06	0.43
11:AO:147:LEU:C	11:AO:148:LEU:HD23	2.39	0.43
42:BO:60:LEU:HD21	42:BO:66:VAL:HG22	2.01	0.43
53:B1:53:U:O2'	53:B1:54:U:H5''	2.18	0.43
31:BA:518:C:H4'	31:BA:519:C:C5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:121:HIS:HB2	21:AV:171:ILE:CD1	2.48	0.43
54:CA:250:A:O2'	54:CA:251:G:P	2.76	0.43
7:AH:115:VAL:HG11	7:AH:148:ILE:CD1	2.48	0.43
4:DE:103:ASP:OD2	4:DE:168:MET:CE	2.66	0.43
54:CA:1152:A:OP1	40:CM:68:HIS:CD2	2.71	0.43
1:AA:1162:G:H2'	1:AA:1163:G:C8	2.53	0.43
13:A0:31:HIS:O	13:A0:33:ARG:N	2.52	0.43
52:BD:71:G:H2'	52:BD:72:C:O4'	2.19	0.43
54:CA:412:A:H4'	54:CA:413:G:C5'	2.48	0.43
1:AA:1565:C:O2'	1:AA:1566:A:H8	2.02	0.43
55:DA:195:A:H5''	11:DO:46:LYS:HZ1	1.83	0.43
1:AA:1283:G:N2	1:AA:1285:G:H3'	2.32	0.43
54:CA:274:A:H1'	54:CA:275:G:O4'	2.18	0.43
18:DS:66:GLU:C	18:DS:68:ARG:H	2.22	0.43
42:CO:71:PRO:O	42:CO:102:ARG:HD2	2.19	0.43
54:CA:1060:C:N4	33:CF:2:GLY:HA3	2.31	0.43
48:BU:31:LEU:HG	48:BU:65:ILE:CD1	2.44	0.43
55:DA:627:A:H4'	55:DA:628:G:H5'	1.99	0.43
1:AA:726:G:O2'	1:AA:727:A:H8	2.01	0.43
31:BA:765:G:H22	31:BA:812:C:C2'	2.32	0.43
45:CR:26:GLU:OE2	45:CR:77:ARG:NH1	2.49	0.43
33:BF:88:ARG:HG2	33:BF:101:LEU:HB3	2.00	0.43
32:BE:101:MET:CE	32:BE:108:ILE:HG21	2.48	0.43
19:DT:39:ILE:O	19:DT:40:LYS:C	2.57	0.43
31:BA:627:G:O2'	31:BA:628:G:H5'	2.18	0.43
1:AA:2824:C:H2'	1:AA:2825:C:C5'	2.43	0.43
21:DV:100:VAL:HG11	21:DV:137:ILE:HG13	1.99	0.43
35:CH:20:GLN:O	35:CH:21:ALA:O	2.35	0.43
1:AA:870:A:C2	1:AA:871:U:H1'	2.53	0.43
25:DX:4:LEU:O	25:DX:36:VAL:HA	2.18	0.43
8:AK:56:LYS:C	8:AK:58:LEU:N	2.71	0.43
55:DA:2331:G:O2'	55:DA:2336:A:N1	2.36	0.43
5:DF:57:VAL:HG13	5:DF:58:ALA:N	2.33	0.43
48:CU:66:LEU:CD1	48:CU:70:ILE:HD11	2.49	0.43
50:BW:14:LYS:HA	50:BW:17:ARG:NE	2.34	0.43
1:AA:2649:U:H2'	1:AA:2650:U:H6	1.83	0.43
1:AA:2707:G:H2'	1:AA:2708:G:H8	1.83	0.43
55:DA:105:C:C2	55:DA:106:C:C5	3.07	0.43
54:CA:718:G:C1'	41:CN:116:HIS:HA	2.48	0.43
8:AK:133:HIS:N	8:AK:134:PRO:HD2	2.32	0.43
55:DA:1562:A:H2'	55:DA:1563:G:H8	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BC:50:U:O2'	52:BC:51:U:H5'	2.19	0.43
55:DA:2097:C:O2'	55:DA:2098:U:H5'	2.18	0.43
55:DA:846:C:C4	55:DA:930:U:C5	3.06	0.43
54:CA:258:G:N3	54:CA:259:G:C8	2.86	0.43
13:A0:103:ARG:HD2	13:A0:108:GLY:C	2.38	0.43
3:DD:73:VAL:HA	3:DD:119:ALA:O	2.18	0.43
38:BK:5:PRO:O	38:BK:8:ASP:HB3	2.18	0.43
37:CJ:6:ARG:HG2	37:CJ:6:ARG:O	2.18	0.43
55:DA:2262:U:H4'	55:DA:2328:A:C2	2.53	0.43
55:DA:1078:U:H3'	55:DA:1078:U:C6	2.54	0.43
57:DY:117:LEU:HD21	56:DJ:24:ILE:HD11	2.00	0.43
58:DL:109:LYS:HB2	58:DL:120:LEU:HD21	2.01	0.43
58:DL:112:MET:SD	58:DL:120:LEU:CD1	2.99	0.43
58:DL:51:ALA:C	58:DL:52:ILE:HG13	2.38	0.43
58:DL:59:ILE:O	58:DL:60:TYR:HB2	2.18	0.43
58:DL:56:GLU:CB	58:DL:68:VAL:HG13	2.44	0.43
58:DL:52:ILE:CG1	58:DL:76:TYR:N	2.82	0.43
57:DY:7:VAL:O	57:DY:10:LEU:N	2.51	0.43
57:DY:91:LYS:HZ2	57:DY:95:GLN:NE2	2.12	0.43
49:BV:41:VAL:O	49:BV:44:MET:SD	2.76	0.43
26:A4:59:PHE:HE1	49:BV:68:GLY:H	1.61	0.43
30:A8:32:LEU:CD2	30:A8:33:ASN:H	2.30	0.43
1:AA:974:G:C2	1:AA:1186:G:C4	3.06	0.43
3:DD:167:GLY:O	3:DD:173:VAL:HG23	2.18	0.43
6:AG:175:LEU:O	6:AG:176:LEU:C	2.54	0.43
31:BA:1313:U:C5	49:BV:4:SER:HB2	2.54	0.43
31:BA:1314:C:H2'	31:BA:1315:U:H6	1.83	0.43
27:D5:58:LEU:O	27:D5:60:VAL:N	2.43	0.43
40:BM:82:ILE:HG22	40:BM:82:ILE:O	2.19	0.43
55:DA:479:A:H4'	55:DA:480:A:C5'	2.49	0.43
55:DA:2786:U:O2	4:DE:62:PRO:HG3	2.19	0.43
17:A2:44:LYS:C	17:A2:46:VAL:H	2.21	0.43
19:AT:80:ILE:O	19:AT:80:ILE:HG12	2.18	0.43
17:A2:71:LEU:O	17:A2:72:VAL:O	2.37	0.43
4:AE:32:PRO:O	4:AE:33:VAL:HB	2.18	0.43
4:AE:34:VAL:HG21	4:AE:78:LEU:HD13	2.00	0.43
1:AA:1043:C:N4	1:AA:1044:G:N7	2.67	0.43
32:CE:169:LYS:O	32:CE:169:LYS:HD3	2.18	0.43
32:CE:17:PHE:HB2	32:CE:44:LEU:HD11	2.01	0.43
31:BA:1028(A):C:H5'	31:BA:1028(A):C:H6	1.83	0.43
31:BA:1028:C:N4	31:BA:1028(A):C:N4	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1265:A:N6	55:DA:2014:A:OP2	2.52	0.43
43:CP:10:PRO:O	43:CP:11:ARG:HB3	2.18	0.43
6:DG:115:ARG:O	6:DG:116:ASP:HB2	2.18	0.43
17:D2:37:VAL:CG2	17:D2:37:VAL:O	2.66	0.43
1:AA:1144:G:P	1:AA:1144:G:H3'	2.57	0.43
38:CK:6:ILE:CG2	38:CK:85:ARG:HH12	2.30	0.43
21:AV:57:ILE:O	21:AV:68:PRO:HA	2.18	0.43
1:AA:328:U:H4'	20:AU:68:HIS:CD2	2.53	0.43
20:AU:96:ILE:HD12	20:AU:98:VAL:HG12	2.01	0.43
1:AA:2652:C:O2'	1:AA:2653:U:H5'	2.18	0.43
7:AH:105:LEU:O	7:AH:105:LEU:CD2	2.66	0.43
31:BA:862:C:O2'	31:BA:874:G:H5''	2.19	0.43
32:BE:10:LEU:O	32:BE:13:ALA:HB3	2.18	0.43
32:BE:58:ILE:O	32:BE:62:ALA:N	2.52	0.43
55:DA:2307:G:H1'	55:DA:2308:G:C2	2.53	0.43
25:AX:7:LYS:O	25:AX:54:VAL:HG13	2.18	0.43
6:DG:146:TYR:O	6:DG:148:MET:N	2.52	0.43
1:AA:73:A:O5'	1:AA:73:A:H8	2.00	0.43
55:DA:860:U:O2	55:DA:2268:A:O4'	2.36	0.43
55:DA:1725:G:C8	55:DA:1725:G:C5'	2.93	0.43
26:A4:51:ASP:OD1	26:A4:51:ASP:O	2.36	0.43
12:AP:134:ARG:O	12:AP:134:ARG:HG2	2.18	0.43
31:BA:1052:U:C2'	31:BA:1055:A:OP1	2.67	0.43
31:BA:1207:G:C6	31:BA:1208:C:C4	3.06	0.43
54:CA:724:G:O2'	54:CA:725:G:H5'	2.19	0.43
18:AS:68:ARG:HB3	18:AS:110:LYS:H	1.84	0.43
55:DA:588:U:H1'	5:DF:90:PHE:HB3	2.01	0.43
11:DO:19:VAL:CG2	11:DO:21:ARG:HD2	2.49	0.43
33:BF:63:ASN:HB3	33:BF:98:ASN:HB3	2.01	0.43
1:AA:598:G:H2'	1:AA:599:G:O4'	2.17	0.43
1:AA:1528:A:N1	1:AA:1543:A:N1	2.66	0.43
54:CA:827:U:C5	54:CA:870:U:C4	3.07	0.43
3:DD:264:LYS:HG2	3:DD:266:SER:HB3	2.00	0.43
8:AK:91:SER:OG	8:AK:119:PRO:CB	2.67	0.43
1:AA:442:G:C2	1:AA:444:C:C5	3.05	0.43
12:AP:37:LEU:O	12:AP:99:PRO:HB3	2.19	0.43
21:AV:81:ARG:CG	21:AV:81:ARG:O	2.66	0.43
48:CU:53:ARG:O	48:CU:55:ARG:N	2.52	0.43
1:AA:749:C:C2	1:AA:1618:A:H2'	2.53	0.43
13:A0:13:HIS:O	13:A0:16:HIS:N	2.52	0.43
27:A5:33:CYS:O	27:A5:36:CYS:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CT:6:LEU:O	47:CT:58:GLU:HA	2.19	0.43
12:AP:54:MET:O	12:AP:55:VAL:C	2.56	0.43
12:AP:55:VAL:HG13	12:AP:56:ARG:N	2.34	0.43
35:CH:34:VAL:HG11	35:CH:63:ARG:HG2	2.00	0.43
37:CJ:140:ASP:HA	37:CJ:143:ARG:CZ	2.45	0.43
1:AA:1944:U:C1'	1:AA:1955:U:O4'	2.61	0.43
1:AA:1786:A:N1	1:AA:2606:C:C1'	2.81	0.43
34:BG:105:VAL:HG13	34:BG:110:PHE:HB2	2.01	0.43
54:CA:452:A:H2'	54:CA:453:A:C8	2.53	0.43
54:CA:920:U:O4'	54:CA:1080:A:C2	2.72	0.43
36:CI:98:LEU:HA	48:CU:31:LEU:CD2	2.48	0.43
1:AA:1270:C:H5''	1:AA:1271:G:C5'	2.49	0.43
2:AB:56:G:H4'	2:AB:57:A:H8	1.82	0.43
31:BA:61:G:H2'	31:BA:62:U:O4'	2.18	0.43
1:AA:361:G:N2	1:AA:362:U:H1'	2.33	0.43
22:A3:74:ARG:NH1	22:A3:74:ARG:CG	2.78	0.43
14:AQ:106:ARG:CB	14:AQ:106:ARG:CZ	2.96	0.43
6:AG:125:PHE:O	6:AG:127:GLY:N	2.52	0.43
54:CA:565:U:C5'	54:CA:566:G:H3'	2.48	0.43
4:AE:108:SER:O	4:AE:162:ALA:HA	2.19	0.43
4:AE:110:GLY:HA2	4:AE:162:ALA:N	2.34	0.43
1:AA:1881:C:H2'	1:AA:1881:C:O2	2.18	0.43
8:DK:31:LEU:N	8:DK:32:PRO:CD	2.82	0.43
45:CR:58:MET:O	45:CR:61:GLY:N	2.51	0.43
55:DA:1388:G:O2'	55:DA:1389:G:H5'	2.18	0.43
3:AD:268:ARG:HD3	3:AD:269:PHE:CD1	2.54	0.43
1:AA:371:A:H1'	1:AA:373:U:C6	2.54	0.43
54:CA:1270:C:O2'	54:CA:1271:G:H5'	2.17	0.43
55:DA:372:G:O2'	55:DA:373:U:C6	2.70	0.43
36:BI:67:MET:HB2	36:BI:68:PRO:HD2	2.01	0.43
6:AG:103:LEU:HD22	6:AG:178:PHE:HZ	1.83	0.43
31:BA:1190:G:P	33:BF:5:ILE:HD12	2.59	0.43
52:BC:9:A:H5'	52:BC:46:G:O2'	2.19	0.43
35:BH:40:ARG:HH11	35:BH:40:ARG:HG2	1.84	0.43
36:CI:67:MET:HB2	36:CI:68:PRO:HD2	1.99	0.43
54:CA:940:C:H2'	54:CA:941:G:H8	1.83	0.43
4:DE:144:ARG:HB3	4:DE:145:LYS:H	1.53	0.43
55:DA:1411:C:H5'	55:DA:1412:A:OP2	2.18	0.43
1:AA:241:A:N1	1:AA:255:A:H5''	2.33	0.43
43:CP:54:VAL:O	43:CP:58:GLU:HG3	2.18	0.43
55:DA:1324:G:C4	55:DA:1328:G:O6	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:D1:72:HIS:CE1	16:D1:107:ALA:HA	2.53	0.43
31:BA:194:C:C2'	31:BA:195:A:H5''	2.48	0.43
18:AS:70:TYR:O	18:AS:107:LEU:HA	2.19	0.43
2:AB:27:C:N4	2:AB:28:C:N4	2.66	0.43
1:AA:1466:G:H2'	1:AA:1466:G:N3	2.33	0.43
31:BA:595:G:C6	31:BA:641:U:H2'	2.54	0.43
41:CN:58:PRO:HD3	41:CN:89:ALA:HB1	2.00	0.43
39:BL:117:HIS:C	39:BL:118:LYS:HG3	2.39	0.43
31:BA:1049:U:O2'	31:BA:1050:G:P	2.77	0.43
55:DA:2313:C:H5''	6:DG:91:ARG:HD3	1.99	0.43
55:DA:541:C:C2	55:DA:542:C:C5	3.07	0.43
5:DF:37:VAL:HG12	5:DF:41:LEU:HD12	2.00	0.43
52:BB:39:U:H2'	52:BB:40:C:H6	1.82	0.43
1:AA:63:U:O2'	1:AA:64:A:C8	2.70	0.43
37:CJ:75:VAL:O	37:CJ:75:VAL:HG23	2.18	0.43
4:AE:69:LYS:HD2	4:AE:69:LYS:HA	1.79	0.43
36:CI:16:GLN:CD	36:CI:16:GLN:H	2.21	0.43
17:D2:72:VAL:HG13	17:D2:72:VAL:O	2.19	0.43
15:AR:111:ARG:HG3	15:AR:111:ARG:HH11	1.84	0.43
54:CA:455:C:H6	54:CA:455:C:O5'	2.01	0.43
1:AA:1509:C:OP1	1:AA:1509:C:H4'	2.18	0.43
1:AA:1979:C:O2	1:AA:1979:C:H2'	2.18	0.43
26:A4:46:GLN:HE21	26:A4:46:GLN:HA	1.83	0.43
52:BD:67:C:H2'	52:BD:68:C:C6	2.53	0.43
33:CF:27:LYS:HZ3	33:CF:27:LYS:HA	1.83	0.43
52:BD:51:U:H2'	52:BD:52:G:C8	2.54	0.43
57:DY:49:ALA:O	57:DY:50:ARG:CB	2.64	0.43
31:BA:991:U:O2	31:BA:993:G:C8	2.72	0.43
55:DA:1359:A:N3	55:DA:1373:A:C2	2.86	0.43
28:A6:45:LYS:HB2	28:A6:46:HIS:H	1.36	0.43
1:AA:2287:A:O2'	1:AA:2288:A:O5'	2.27	0.43
11:AO:64:LYS:O	11:AO:66:GLY:N	2.47	0.43
1:AA:2457:U:H2'	1:AA:2458:G:O4'	2.18	0.43
1:AA:943:U:O2'	1:AA:944:G:H5'	2.17	0.43
55:DA:897:C:H6	55:DA:897:C:C4'	2.30	0.43
21:DV:108:PRO:HG2	21:DV:109:ALA:H	1.83	0.43
21:DV:140:ASP:OD2	21:DV:141:VAL:N	2.52	0.43
54:CA:629:G:O3'	54:CA:630:G:O4'	2.37	0.43
3:DD:96:HIS:CE1	3:DD:102:LYS:HZ2	2.36	0.43
3:DD:96:HIS:CE1	3:DD:102:LYS:HZ3	2.35	0.43
2:AB:45:A:OP1	2:AB:45:A:H8	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DZ:92:LYS:HE3	23:DZ:92:LYS:HB2	1.73	0.43
40:BM:4:ILE:HD12	40:BM:74:ILE:CG1	2.48	0.43
30:A8:56:GLU:O	30:A8:59:LYS:N	2.44	0.43
54:CA:976:G:C8	54:CA:1358:U:C2	3.07	0.43
57:DY:104:ILE:CG2	57:DY:105:PRO:HD2	2.48	0.43
17:A2:58:VAL:HB	17:A2:98:GLU:HB2	2.00	0.43
1:AA:1153:C:H5'	16:A1:76:TYR:HE2	1.84	0.43
9:AM:46:VAL:O	9:AM:47:ALA:CB	2.67	0.43
1:AA:2014:A:H2'	1:AA:2015:A:C8	2.52	0.43
1:AA:2552:U:OP2	1:AA:2552:U:H6	2.02	0.43
31:BA:495:A:O2'	31:BA:496:A:H5''	2.18	0.43
34:BG:24:GLU:CG	34:BG:25:ARG:H	2.32	0.43
34:BG:34:GLU:O	34:BG:35:ARG:CG	2.66	0.43
31:BA:1139:G:N2	31:BA:1143:G:C6	2.86	0.43
7:DH:124:GLU:HB2	7:DH:132:ARG:HG3	1.99	0.43
7:DH:147:ASN:ND2	7:DH:147:ASN:H	2.15	0.43
7:AH:37:VAL:HG22	7:AH:38:SER:H	1.83	0.43
54:CA:1126:U:O4	54:CA:1127:G:C2	2.71	0.43
20:AU:20:TYR:CE2	20:AU:42:VAL:HA	2.53	0.43
11:DO:75:ILE:HG12	11:DO:77:ARG:HH12	1.82	0.43
31:BA:1024:G:H2'	31:BA:1025:U:O4'	2.18	0.43
31:BA:1026:G:C2	31:BA:1027:C:H1'	2.54	0.43
3:AD:154:LYS:C	3:AD:155:LEU:HD12	2.38	0.43
52:BD:9:A:H4'	52:BD:46:G:C4'	2.48	0.43
9:DM:67:LEU:HA	9:DM:87:LEU:HD13	2.00	0.43
24:DW:14:ARG:HG2	24:DW:14:ARG:HH11	1.84	0.43
6:DG:34:LEU:HD22	6:DG:35:GLU:N	2.33	0.43
31:BA:788:U:H3	31:BA:795:C:N4	2.15	0.43
55:DA:885:C:C5	55:DA:886:C:C2	3.07	0.43
29:D7:46:VAL:O	29:D7:47:ARG:HB3	2.18	0.43
21:AV:94:GLU:O	21:AV:130:PRO:HD3	2.19	0.43
20:AU:47:LYS:CA	20:AU:60:PHE:HB3	2.41	0.43
55:DA:1025:G:O2'	55:DA:1026:U:P	2.76	0.43
1:AA:654(C):G:C6	1:AA:654(D):G:C6	3.06	0.43
6:DG:83:ARG:HG2	6:DG:83:ARG:NH1	2.34	0.43
1:AA:2392:A:N1	1:AA:2424:C:N3	2.67	0.43
17:D2:52:VAL:O	17:D2:52:VAL:HG23	2.19	0.43
8:DK:38:LEU:H	8:DK:38:LEU:CD1	2.05	0.43
1:AA:2720:U:H2'	1:AA:2721:A:H8	1.82	0.43
35:CH:110:LEU:O	35:CH:115:VAL:HB	2.18	0.43
55:DA:1235:G:C6	55:DA:1236:G:N1	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:310:A:O2'	55:DA:311:A:C2'	2.67	0.43
55:DA:1034:G:H2'	55:DA:1035:U:O4'	2.18	0.43
43:CP:65:LYS:HB2	43:CP:69:GLU:HB2	2.01	0.43
32:CE:57:PHE:CE2	32:CE:61:LEU:HD22	2.54	0.43
1:AA:299:A:N6	1:AA:322:A:O2'	2.51	0.43
55:DA:1187:G:H8	55:DA:1187:G:O5'	2.02	0.43
3:DD:143:HIS:HB2	3:DD:156:ALA:O	2.18	0.43
3:AD:68:LYS:O	3:AD:70:TRP:N	2.51	0.43
7:AH:87:LEU:CD2	7:AH:149:ARG:HB2	2.49	0.43
50:BW:68:LYS:C	50:BW:68:LYS:HD2	2.38	0.43
12:AP:24:GLY:O	12:AP:25:ASP:CB	2.56	0.43
31:BA:701:C:H1'	31:BA:703:G:N3	2.33	0.43
55:DA:2657:A:H2'	55:DA:2658:C:C5'	2.48	0.43
1:AA:855:G:H2'	1:AA:856:C:C6	2.53	0.43
52:BD:70:G:O2'	52:BD:71:G:H5'	2.18	0.43
55:DA:301:G:O2'	55:DA:302:C:O4'	2.36	0.43
1:AA:1652:A:H4'	1:AA:1653:G:OP1	2.18	0.43
54:CA:447:G:H2'	54:CA:485:G:N2	2.33	0.43
1:AA:9:U:H5'	9:AM:115:ARG:HH22	1.84	0.43
55:DA:1252:G:O2'	55:DA:1253:A:O4'	2.36	0.43
3:AD:176:ARG:HH11	3:AD:176:ARG:CG	2.22	0.43
3:AD:176:ARG:NH1	3:AD:176:ARG:CG	2.80	0.43
55:DA:2340:G:HO2'	55:DA:2341:G:H5'	1.81	0.43
46:BS:1:MET:HE1	46:BS:65:GLN:CB	2.48	0.43
33:CF:130:VAL:HG21	33:CF:157:ILE:HG23	2.01	0.43
54:CA:262:A:C6	54:CA:263:A:C6	3.06	0.43
31:BA:31:G:O2'	31:BA:32:A:OP1	2.36	0.43
54:CA:815:A:N6	54:CA:1509:C:H1'	2.33	0.43
54:CA:577:G:H1'	54:CA:816:A:C4	2.54	0.43
8:AK:72:LEU:CD2	8:AK:107:VAL:HG21	2.45	0.43
1:AA:840:C:OP2	1:AA:932:G:N2	2.48	0.43
52:CB:4:C:O2'	52:CB:5:G:H5'	2.19	0.43
55:DA:1879:C:C2'	55:DA:1880:C:H5'	2.46	0.43
1:AA:2852:G:C6	1:AA:2853:C:C4	3.07	0.43
44:BQ:6:LEU:C	44:BQ:8:GLU:N	2.72	0.43
7:AH:51:ARG:HG3	7:AH:51:ARG:HH11	1.84	0.43
49:BV:53:ASN:HB2	49:BV:77:THR:CG2	2.46	0.43
52:BC:14:A:C5	52:BC:22:G:C2	3.06	0.43
1:AA:1091:G:H2'	1:AA:1092:C:H6	1.82	0.43
55:DA:2846:G:OP2	15:DR:54:ARG:HB2	2.19	0.43
1:AA:1812:A:H2'	1:AA:1813:G:H8	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:CI:83:ASP:N	36:CI:83:ASP:OD2	2.51	0.43
54:CA:748:C:H1'	54:CA:749:C:C5	2.52	0.43
1:AA:2063:C:O2	1:AA:2450:A:N1	2.52	0.43
37:CJ:91:VAL:HG12	37:CJ:95:ARG:HB3	2.00	0.43
2:AB:79:C:H2'	2:AB:80:U:H5'	1.99	0.43
6:DG:137:GLU:HB2	6:DG:152:LEU:HD22	2.00	0.43
13:D0:18:LEU:O	13:D0:22:ARG:HG3	2.18	0.43
55:DA:2884:U:H2'	55:DA:2885:C:O4'	2.18	0.43
21:DV:98:MET:O	21:DV:125:LEU:HA	2.18	0.43
32:CE:125:PRO:O	32:CE:126:GLU:HB2	2.17	0.43
26:A4:14:ILE:HG23	26:A4:14:ILE:O	2.19	0.43
5:AF:195:ASP:OD1	5:AF:197:ASP:HB3	2.18	0.43
55:DA:299:A:C5'	55:DA:300:A:OP2	2.66	0.43
55:DA:340:A:H2'	55:DA:341:G:C5'	2.49	0.43
31:BA:811:C:O2'	31:BA:901:A:N1	2.46	0.43
40:BM:92:THR:HG23	40:BM:93:GLY:N	2.34	0.43
1:AA:291:C:O2'	1:AA:292:C:H5'	2.19	0.43
1:AA:1482:U:H5'	1:AA:1483:G:OP2	2.18	0.43
1:AA:1816:G:O6	3:AD:37:LEU:HD11	2.19	0.43
13:A0:72:ASP:HB3	13:A0:75:LEU:HB3	2.01	0.43
55:DA:2583:G:H2'	55:DA:2584:U:O2	2.17	0.43
49:CV:33:THR:OG1	49:CV:34:TRP:N	2.52	0.43
40:BM:67:THR:HG22	40:BM:67:THR:O	2.18	0.43
52:BC:17:C:C6	52:BC:17:C:H3'	2.53	0.43
5:DF:119:ARG:HG2	5:DF:119:ARG:HH11	1.83	0.43
35:CH:73:ASN:O	35:CH:73:ASN:ND2	2.52	0.43
12:AP:50:ALA:O	12:AP:53:ALA:HB3	2.18	0.43
3:AD:223:GLY:HA3	3:AD:231:HIS:CE1	2.53	0.43
55:DA:1078:U:C1'	55:DA:1088:A:H2	2.13	0.43
58:DL:99:ILE:H	58:DL:138:VAL:HG22	1.83	0.43
58:DL:52:ILE:HG22	58:DL:75:SER:HB2	1.81	0.43
21:AV:147:GLY:O	21:AV:148:ASP:O	2.36	0.43
55:DA:1075:C:C4'	21:DV:195:GLU:CD	2.87	0.43
49:BV:22:LEU:HD11	49:BV:28:LYS:O	2.18	0.43
49:BV:26:GLY:C	49:BV:27:GLU:OE1	2.57	0.43
49:BV:71:LEU:O	49:BV:73:GLU:N	2.51	0.43
49:BV:36:ARG:HE	49:BV:72:GLY:CA	2.32	0.43
28:A6:20:ASN:ND2	28:A6:42:TRP:CE3	2.84	0.43
49:CV:5:LEU:HD13	49:CV:5:LEU:O	2.18	0.43
1:AA:1188:U:H2'	1:AA:1189:A:H5'	1.98	0.43
1:AA:958:U:O2	2:AB:89(A):A:O2'	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CB:18:G:O2'	52:CB:19:G:O5'	2.37	0.43
21:DV:117:LEU:CD1	21:DV:118:GLN:N	2.59	0.43
3:DD:168:ARG:HA	3:DD:173:VAL:HA	2.01	0.43
26:A4:2:LYS:CB	26:A4:6:HIS:NE2	2.75	0.43
2:AB:33:G:H2'	2:AB:34:U:O4'	2.18	0.43
43:BP:17:VAL:O	43:BP:19:LEU:N	2.51	0.43
15:AR:19:LEU:HA	15:AR:20:PRO:HD3	1.61	0.43
33:CF:29:TYR:CD2	33:CF:29:TYR:C	2.92	0.43
55:DA:2344:U:OP1	28:D6:38:LYS:HE2	2.19	0.43
1:AA:1152:C:H2'	1:AA:1153:C:H6	1.83	0.43
55:DA:2415:G:C4	55:DA:2416:C:C5	3.07	0.43
11:DO:66:GLY:O	11:DO:67:MET:HB2	2.19	0.43
1:AA:65:C:O2'	1:AA:456:C:O2	2.34	0.43
6:AG:76:SER:C	6:AG:77:ILE:HD12	2.38	0.43
1:AA:2889:C:H3'	1:AA:2891:G:H8	1.84	0.43
9:DM:95:PRO:O	9:DM:96:GLU:CD	2.57	0.43
39:BL:14:VAL:O	39:BL:65:VAL:HA	2.18	0.43
5:AF:68:LYS:HD2	5:AF:68:LYS:HA	1.37	0.43
32:CE:166:ASP:OD2	32:CE:168:THR:HG22	2.19	0.43
32:CE:30:ARG:HG3	32:CE:31:TYR:CD1	2.52	0.43
31:BA:1004:A:HO2'	31:BA:1005:A:C4'	2.31	0.43
48:BU:18:ARG:HA	48:BU:18:ARG:HD2	1.73	0.43
1:AA:1024:G:C6	1:AA:1025:G:N1	2.86	0.43
10:AN:8:LEU:N	10:AN:8:LEU:CD2	2.81	0.43
31:BA:1152:A:O2'	31:BA:1153:C:H5'	2.18	0.43
55:DA:2816:C:H4'	13:D0:99:LYS:HZ1	1.84	0.43
31:BA:1382:C:H2'	31:BA:1383:C:H6	1.83	0.43
55:DA:2134:A:H8	55:DA:2157:G:H21	1.63	0.43
13:A0:37:THR:HB	13:A0:40:LYS:CG	2.49	0.43
5:AF:17:ARG:HG3	5:AF:17:ARG:NH1	2.33	0.43
32:BE:213:LEU:HD23	32:BE:213:LEU:O	2.18	0.43
32:BE:5:ILE:HB	32:BE:59:GLU:CD	2.39	0.43
3:AD:31:LYS:NZ	3:AD:102:LYS:NZ	2.67	0.43
3:AD:31:LYS:O	3:AD:35:LYS:O	2.36	0.43
19:AT:35:THR:C	19:AT:37:THR:N	2.72	0.43
24:AW:33:MET:CG	24:AW:37:PHE:HE1	2.32	0.43
3:AD:161:THR:O	3:AD:196:VAL:HG23	2.19	0.43
1:AA:1820:U:O2'	3:AD:201:HIS:CD2	2.72	0.43
26:D4:27:THR:O	26:D4:28:LYS:CB	2.67	0.43
55:DA:442:G:N3	5:DF:48:THR:CG2	2.73	0.43
9:AM:95:PRO:C	9:AM:97:ARG:N	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:134:A:N6	46:BS:25:ARG:HH12	2.06	0.43
55:DA:1434:A:N6	55:DA:1558:A:N6	2.50	0.43
55:DA:307:G:N2	55:DA:310:A:C8	2.87	0.43
7:DH:12:PRO:HD3	7:DH:48:GLY:O	2.19	0.43
31:BA:1055:A:O2'	33:BF:156:ARG:NH2	2.52	0.43
33:BF:196:LEU:N	33:BF:196:LEU:HD22	2.34	0.43
5:DF:9:ILE:CG2	5:DF:20:LEU:O	2.66	0.43
55:DA:687:C:H42	55:DA:787:U:H4'	1.84	0.43
18:AS:66:GLU:O	18:AS:68:ARG:N	2.52	0.43
21:AV:120:ILE:HG22	21:AV:121:HIS:CD2	2.54	0.43
55:DA:587:C:N3	11:DO:33:ARG:NH1	2.67	0.43
31:BA:1067:A:O2'	31:BA:1068:G:O4'	2.34	0.43
33:BF:21:ARG:O	33:BF:58:GLU:HA	2.18	0.43
33:BF:6:HIS:NE2	33:BF:184:TYR:CE2	2.87	0.43
55:DA:2728:U:H2'	55:DA:2729:G:H8	1.83	0.43
55:DA:1509:C:H3'	55:DA:1510:A:H5''	2.01	0.43
3:DD:273:ARG:CG	3:DD:273:ARG:O	2.53	0.43
12:AP:101:ARG:HG3	12:AP:102:VAL:H	1.83	0.43
54:CA:1151:A:C1'	40:CM:39:PRO:HB2	2.48	0.43
55:DA:69:C:C2'	55:DA:70:G:H5'	2.47	0.43
27:A5:46:CYS:HB3	27:A5:49:CYS:SG	2.59	0.43
36:CI:2:ARG:CZ	36:CI:69:GLU:HG3	2.48	0.43
1:AA:1773:A:C5	1:AA:1829:A:H1'	2.53	0.43
55:DA:2115:G:N3	55:DA:2171:A:N1	2.67	0.43
35:CH:12:LEU:O	35:CH:30:ALA:HA	2.19	0.43
3:AD:131:LEU:HB2	3:AD:136:ILE:CD1	2.48	0.43
25:AX:8:LEU:HD22	25:AX:9:VAL:N	2.34	0.43
54:CA:1149:C:H2'	54:CA:1150:U:C6	2.54	0.43
39:CL:43:ALA:O	39:CL:45:ALA:N	2.52	0.43
44:BQ:29:ARG:HG2	44:BQ:40:CYS:HB3	1.97	0.43
55:DA:190:A:P	55:DA:205:G:H22	2.42	0.43
33:BF:76:VAL:HG23	33:BF:77:ILE:H	1.84	0.43
33:BF:90:GLU:O	33:BF:93:LYS:CB	2.64	0.43
54:CA:503:C:H2'	54:CA:504:C:H6	1.83	0.43
2:AB:56:G:H5'	6:AG:27:ASN:HD21	1.83	0.43
55:DA:27:G:C2'	55:DA:28:A:OP2	2.66	0.43
31:BA:60:A:O2'	31:BA:61:G:OP2	2.36	0.43
14:AQ:106:ARG:HB3	14:AQ:106:ARG:NH1	2.27	0.43
55:DA:784:A:H5''	3:DD:227:ASN:ND2	2.34	0.43
55:DA:366:C:H5	55:DA:403:U:HO2'	1.47	0.43
31:BA:360:A:H2'	31:BA:361:G:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2317:C:H3'	1:AA:2318:G:H21	1.84	0.43
31:BA:1496:C:H2'	31:BA:1497:G:O4'	2.18	0.43
1:AA:2741:A:N6	1:AA:2763:G:H2'	2.30	0.43
42:BO:89:ARG:CG	42:BO:90:VAL:N	2.81	0.43
31:BA:1095:U:C5'	31:BA:1109:C:O2	2.66	0.43
55:DA:753:C:O2'	55:DA:754:C:H5'	2.18	0.43
1:AA:2795:G:C3'	1:AA:2797:U:C5'	2.96	0.43
55:DA:2772:C:C2	55:DA:2773:C:C5	3.06	0.43
6:AG:107:LEU:HD11	6:AG:178:PHE:CE1	2.54	0.43
12:AP:139:GLU:HB2	12:AP:140:ALA:H	1.54	0.43
55:DA:1643:G:N2	55:DA:1644:C:H1'	2.34	0.43
55:DA:2037:G:H2'	55:DA:2038:G:C8	2.54	0.43
44:CQ:51:GLY:O	44:CQ:53:LEU:N	2.51	0.43
54:CA:1525:G:P	41:CN:120:ARG:HH22	2.42	0.43
31:BA:823:G:H21	38:BK:1:MET:HE1	1.84	0.43
41:CN:77:MET:HG3	41:CN:78:GLN:N	2.34	0.43
1:AA:554:U:H2'	1:AA:556:G:N7	2.34	0.43
1:AA:1417:C:C2'	1:AA:1418:G:H5'	2.48	0.43
45:CR:64:ARG:HH11	45:CR:64:ARG:CG	2.31	0.43
3:AD:218:ARG:HB3	3:AD:219:PRO:HD2	1.99	0.43
29:D7:25:PRO:CA	29:D7:28:ARG:NH1	2.81	0.43
39:BL:117:HIS:CD2	39:BL:123:PRO:HA	2.54	0.43
1:AA:988:A:OP2	25:AX:11:SER:HB2	2.19	0.43
1:AA:21:A:H2'	1:AA:22:C:C6	2.54	0.43
3:AD:124:PRO:O	3:AD:129:ASN:ND2	2.48	0.43
55:DA:994:C:OP2	16:D1:54:LYS:NZ	2.37	0.43
52:BB:44:G:H2'	52:BB:45:U:C6	2.54	0.43
52:BC:33:U:C2	52:BC:35:A:OP2	2.72	0.43
45:CR:50:HIS:O	45:CR:53:HIS:HB3	2.19	0.43
54:CA:210:U:O2'	54:CA:216:G:C8	2.66	0.43
55:DA:2486:G:H2'	55:DA:2487:G:O4'	2.18	0.43
53:C1:47:U:H2'	53:C1:48:U:O4'	2.19	0.43
1:AA:2724:C:H2'	1:AA:2725:A:C8	2.53	0.43
55:DA:2325:G:H8	55:DA:2325:G:O5'	2.01	0.43
3:DD:220:HIS:C	3:DD:220:HIS:CD2	2.90	0.43
7:DH:43:VAL:HG23	7:DH:43:VAL:O	2.19	0.43
52:BC:68:C:H2'	52:BC:69:G:C8	2.53	0.43
1:AA:803:U:O2'	1:AA:804:A:H5'	2.19	0.43
1:AA:1441:G:H2'	1:AA:1442:G:H8	1.83	0.43
31:BA:19:C:O2'	31:BA:20:U:H5'	2.19	0.43
55:DA:1040:C:H2'	55:DA:1041:C:H6	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1083:U:O5'	57:DY:41:ARG:CD	2.66	0.43
57:DY:135:ARG:HG2	56:DJ:10:GLU:HB2	2.00	0.43
58:DL:106:GLU:CG	58:DL:109:LYS:HD2	2.49	0.43
58:DL:82:ALA:HB1	58:DL:99:ILE:HD13	2.01	0.43
58:DL:9:LYS:N	58:DL:9:LYS:HZ3	2.16	0.43
57:DY:13:LEU:CD1	57:DY:13:LEU:O	2.65	0.43
55:DA:1082:U:C5'	57:DY:45:LYS:O	2.59	0.43
57:DY:70:GLU:C	57:DY:113:GLN:HB2	2.39	0.43
21:AV:177:PRO:C	21:AV:178:GLU:CG	2.85	0.43
31:BA:1233:G:H2'	31:BA:1234:C:C6	2.53	0.43
49:BV:36:ARG:HB2	49:BV:72:GLY:N	2.34	0.43
28:A6:34:LEU:HG	28:A6:36:LEU:HG	1.99	0.43
1:AA:2402:C:H41	1:AA:2416:C:H1'	1.83	0.43
1:AA:646:A:N3	1:AA:646:A:H5'	2.32	0.43
1:AA:805:G:N2	1:AA:829:A:OP1	2.51	0.43
1:AA:912:C:OP1	12:AP:9:TYR:HE2	2.02	0.43
1:AA:917:A:H2'	1:AA:918:A:C5'	2.49	0.43
53:C1:51:U:O5'	53:C1:51:U:H6	2.02	0.43
54:CA:518:C:C5	54:CA:530:G:N7	2.86	0.43
54:CA:1200:C:O2'	54:CA:1201:A:P	2.77	0.43
54:CA:953:G:O2'	54:CA:954:G:H5'	2.19	0.43
33:CF:28:GLN:O	33:CF:29:TYR:C	2.58	0.43
54:CA:464:G:O6	54:CA:466:C:C5'	2.67	0.43
14:DQ:107:GLU:H	14:DQ:110:LEU:CD1	2.19	0.43
21:DV:120:ILE:HB	21:DV:171:ILE:CA	2.48	0.43
55:DA:2285:C:C5	28:D6:27:LYS:NZ	2.86	0.43
1:AA:1342:A:C2	1:AA:1397:U:C2	3.07	0.43
31:BA:437:U:H2'	31:BA:438:G:O4'	2.19	0.43
31:BA:437:U:O5'	31:BA:437:U:H6	2.02	0.43
17:A2:87:HIS:ND1	17:A2:88:ARG:N	2.65	0.43
4:AE:52:LEU:HD12	4:AE:76:ARG:HD2	2.01	0.43
55:DA:554:U:HO2'	55:DA:556:G:H8	1.61	0.43
39:BL:15:ALA:HB2	39:BL:65:VAL:HB	1.99	0.43
7:DH:144:VAL:O	7:DH:148:ILE:HG12	2.19	0.43
7:AH:35:VAL:HG12	7:AH:35:VAL:O	2.19	0.43
7:AH:7:LEU:C	7:AH:7:LEU:HD12	2.37	0.43
31:BA:243:A:H62	31:BA:281:G:C2'	2.32	0.43
5:DF:32:LEU:CD2	5:DF:108:LYS:HB3	2.48	0.43
33:BF:151:VAL:HG12	33:BF:152:ILE:N	2.33	0.43
24:DW:12:GLU:O	24:DW:16:LEU:HD23	2.19	0.43
31:BA:1225:A:H5''	31:BA:1226:C:OP2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CD:44:G:O2'	52:CD:45:U:OP1	2.29	0.43
6:DG:106:LEU:O	6:DG:110:ALA:HB3	2.19	0.43
12:DP:74:TYR:CE2	12:DP:91:GLU:HG3	2.53	0.43
8:DK:79:ILE:HD13	8:DK:79:ILE:HA	1.87	0.43
54:CA:265:G:H5'	47:CT:64:PRO:O	2.19	0.43
31:BA:1349:A:O2'	31:BA:1350:A:H5'	2.19	0.43
54:CA:878:G:C5'	38:CK:89:PRO:HG2	2.48	0.43
43:CP:88:ARG:HD3	43:CP:98:VAL:HG11	1.99	0.43
21:AV:52:SER:C	21:AV:54:HIS:H	2.22	0.43
9:DM:15:LEU:HB3	9:DM:136:GLU:HB3	2.01	0.43
47:CT:62:SER:HB3	47:CT:72:ARG:HH21	1.84	0.43
32:BE:214:ILE:C	32:BE:216:SER:N	2.72	0.43
32:BE:30:ARG:HB2	32:BE:46:LYS:HZ3	1.83	0.43
3:AD:35:LYS:CD	3:AD:63:ARG:HB3	2.41	0.43
13:A0:76:VAL:CG1	13:A0:77:ARG:N	2.82	0.43
55:DA:779:U:P	3:DD:49:ILE:HG12	2.59	0.43
24:AW:33:MET:HG2	24:AW:37:PHE:HE1	1.82	0.43
55:DA:464:U:O2'	55:DA:465:G:H5'	2.19	0.43
22:A3:84:LEU:CD1	22:A3:84:LEU:H	2.32	0.43
4:AE:37:ARG:HA	4:AE:42:ASP:CG	2.39	0.43
1:AA:1427:A:O2'	1:AA:1428:C:OP2	2.29	0.43
39:BL:46:ALA:HA	39:BL:78:LYS:CB	2.48	0.43
39:BL:40:LEU:CD1	39:BL:74:ILE:HD11	2.45	0.43
29:A7:25:PRO:HD3	29:A7:28:ARG:HH22	1.83	0.43
35:BH:137:GLU:OE1	35:BH:141:GLN:NE2	2.52	0.43
21:DV:30:ASN:ND2	21:DV:32:HIS:CD2	2.87	0.43
31:BA:191(B):G:H2'	31:BA:191(C):G:O4'	2.19	0.43
55:DA:33:U:HO2'	55:DA:34:C:P	2.42	0.43
31:BA:501:C:H1'	31:BA:549:C:H1'	2.00	0.43
1:AA:1542:G:C5	1:AA:1543:A:N1	2.87	0.43
42:CO:28:LYS:HB3	42:CO:30:ALA:HB2	2.01	0.43
50:BW:67:ALA:O	50:BW:68:LYS:C	2.57	0.43
48:CU:26:LEU:CD2	48:CU:42:ARG:HD2	2.49	0.43
36:CI:2:ARG:HD2	36:CI:4:TYR:OH	2.19	0.43
36:CI:89:MET:HG2	36:CI:91:VAL:HG23	2.01	0.43
27:A5:16:ARG:NH1	27:A5:17:ASP:OD1	2.51	0.43
53:B1:56:U:HO2'	53:B1:57:U:P	2.41	0.43
1:AA:2780:G:H2'	1:AA:2781:A:OP1	2.18	0.43
12:AP:52:VAL:C	12:AP:55:VAL:HG12	2.38	0.43
12:AP:56:ARG:O	12:AP:57:HIS:C	2.57	0.43
35:CH:103:GLY:O	35:CH:107:ARG:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1577:C:H2'	1:AA:1578:U:C1'	2.48	0.43
1:AA:51:G:N3	1:AA:119:A:C2	2.87	0.43
6:DG:68:PRO:HG2	6:DG:90:LEU:CD1	2.49	0.43
31:BA:1512:U:C2	31:BA:1513:A:C8	3.07	0.43
54:CA:1133:G:N1	54:CA:1142:G:C6	2.87	0.43
54:CA:1297:C:O2'	37:CJ:114:ARG:NH2	2.51	0.43
54:CA:644:G:O2'	54:CA:645:C:H5'	2.18	0.43
15:DR:34:VAL:HG12	15:DR:35:LYS:H	1.81	0.43
10:DN:104:ARG:NH1	15:DR:36:GLU:OE1	2.52	0.43
54:CA:280:C:N3	47:CT:39:SER:OG	2.50	0.43
1:AA:2735:G:H2'	1:AA:2736:G:C8	2.45	0.43
6:AG:151:ALA:O	6:AG:153:ARG:NH1	2.52	0.43
14:DQ:95:HIS:O	14:DQ:96:GLY:C	2.56	0.43
1:AA:2080:G:H2'	1:AA:2081:C:C6	2.54	0.43
1:AA:560:C:H2'	1:AA:561:G:O4'	2.18	0.43
55:DA:1495:A:H1'	55:DA:1579:A:H5''	2.00	0.43
54:CA:801:U:H2'	54:CA:802:A:O5'	2.19	0.43
32:BE:171:ALA:C	32:BE:173:ALA:H	2.21	0.43
32:BE:97:TRP:CZ3	32:BE:176:GLU:OE2	2.72	0.43
31:BA:994:A:O2'	44:BQ:8:GLU:HG3	2.19	0.43
8:AK:8:PRO:CD	8:AK:15:VAL:HG23	2.45	0.43
32:BE:178:ARG:CG	32:BE:178:ARG:HH11	2.31	0.43
5:AF:21:ALA:C	5:AF:23:ASP:N	2.72	0.43
31:BA:119:A:C2	31:BA:240:C:C5	3.07	0.43
54:CA:1171:G:O2'	54:CA:1172:C:H5'	2.19	0.43
35:BH:110:LEU:HD21	35:BH:139:LEU:HD21	2.01	0.43
29:A7:48:LYS:HD3	29:A7:49:ARG:H	1.83	0.43
55:DA:271(C):U:H2'	55:DA:271:G:OP1	2.18	0.43
12:DP:32:TYR:OH	12:DP:111:GLU:HB3	2.19	0.43
11:AO:96:THR:O	11:AO:100:LEU:HD23	2.19	0.43
1:AA:1388:G:O2'	1:AA:1389:G:H5'	2.19	0.43
1:AA:1838:C:H2'	1:AA:1898:U:O4	2.18	0.43
1:AA:1585:C:O2	1:AA:1585:C:C2'	2.66	0.43
18:DS:14:PRO:HG2	18:DS:78:GLU:CB	2.47	0.43
7:AH:45:VAL:O	7:AH:45:VAL:HG22	2.18	0.43
45:CR:66:LEU:O	45:CR:69:TYR:HB3	2.18	0.43
55:DA:1914:C:H3'	55:DA:1914:C:O2	2.19	0.43
43:BP:64:TRP:HD1	43:BP:64:TRP:O	2.02	0.43
1:AA:836:G:H2'	1:AA:837:C:C6	2.53	0.43
55:DA:521:G:H2'	55:DA:522:G:C8	2.54	0.43
31:BA:572:A:H5''	31:BA:917:G:H4'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CG:100:ARG:CZ	34:CG:137:SER:HA	2.48	0.43
54:CA:310:G:OP2	46:CS:27:LYS:HE3	2.19	0.43
31:BA:605:U:O2'	31:BA:606:G:H5'	2.18	0.43
1:AA:2293:C:C4	1:AA:2294:C:C5	3.07	0.43
1:AA:2668:G:O2'	1:AA:2669:G:H5'	2.19	0.43
1:AA:2576:G:O2'	1:AA:2579:C:OP2	2.25	0.43
1:AA:1547:C:H2'	1:AA:1548:C:C6	2.54	0.43
55:DA:1081:U:H3'	55:DA:1082:U:O4'	2.19	0.43
57:DY:135:ARG:HE	56:DJ:18:LEU:HD13	1.84	0.43
57:DY:136:ALA:O	57:DY:139:VAL:CB	2.62	0.43
57:DY:29:TYR:CD2	57:DY:32:LEU:CD2	3.01	0.43
57:DY:58:LEU:CA	57:DY:62:ALA:CB	2.97	0.43
49:BV:63:THR:CG2	49:BV:66:MET:HG3	2.49	0.43
28:A6:25:LYS:CA	30:A8:34:TRP:CH2	3.02	0.43
1:AA:2347:C:H4'	28:A6:39:TYR:CZ	2.53	0.43
1:AA:1902:C:H5'	3:AD:246:PRO:HD3	2.01	0.43
1:AA:959:A:C6	1:AA:960:A:C2	3.07	0.43
6:AG:5:VAL:HA	26:A4:25:TYR:OH	2.19	0.43
26:A4:17:GLY:HA3	26:A4:34:GLU:O	2.18	0.43
2:AB:34:U:C4	2:AB:44:G:H2'	2.54	0.43
49:CV:83:HIS:O	49:CV:87:ALA:N	2.41	0.43
4:DE:63:LEU:HG	4:DE:64:LYS:N	2.33	0.43
55:DA:1380:G:N2	55:DA:1570:A:C2	2.87	0.43
54:CA:397:A:H5'	54:CA:398:C:OP1	2.19	0.43
28:D6:35:GLU:OE2	28:D6:51:GLU:OE2	2.37	0.43
28:D6:36:LEU:HD23	28:D6:36:LEU:O	2.19	0.43
55:DA:2347:C:H4'	28:D6:39:TYR:CE2	2.54	0.43
20:DU:75:ILE:HB	20:DU:80:GLY:HA2	2.00	0.43
20:DU:81:LYS:HZ3	20:DU:98:VAL:CG1	2.29	0.43
34:BG:20:TYR:N	34:BG:20:TYR:CD1	2.86	0.43
4:AE:64:LYS:C	4:AE:66:HIS:N	2.72	0.43
4:AE:63:LEU:CD2	4:AE:66:HIS:HB2	2.49	0.43
4:AE:73:GLU:HG2	4:AE:74:PRO:CD	2.48	0.43
22:D3:31:VAL:HB	22:D3:35:ASN:HD22	1.83	0.43
55:DA:2667:C:H2'	55:DA:2668:G:O4'	2.18	0.43
7:DH:127:GLU:CG	7:DH:128:PRO:CD	2.96	0.43
1:AA:2748:A:N1	1:AA:2749:A:C6	2.87	0.43
7:AH:4:ILE:HD12	7:AH:6:ARG:CD	2.49	0.43
1:AA:2517:C:O2'	1:AA:2518:A:P	2.76	0.43
11:DO:75:ILE:O	11:DO:75:ILE:HG12	2.19	0.43
11:DO:127:ALA:O	11:DO:147:LEU:HD23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CP:7:VAL:CB	6:DG:115:ARG:HH12	2.31	0.43
31:BA:1517:G:H2'	31:BA:1518:A:C8	2.54	0.43
55:DA:1191:G:H2'	55:DA:1192:G:O4'	2.19	0.43
12:DP:80:GLU:CD	22:D3:4:LYS:HZ2	2.22	0.43
47:CT:68:ARG:N	47:CT:70:ARG:NH1	2.66	0.43
1:AA:1012:U:O2	9:AM:25:ARG:NH1	2.52	0.43
21:AV:63:ASP:OD2	21:AV:65:GLN:HG2	2.19	0.43
5:AF:40:GLN:HA	5:AF:40:GLN:HE21	1.84	0.43
32:BE:216:SER:O	32:BE:218:ALA:N	2.51	0.43
52:CC:47:U:C2'	52:CC:47:U:O2	2.59	0.43
55:DA:654(C):G:C2'	55:DA:654(D):G:C8	3.01	0.43
14:DQ:88:ASP:CG	14:DQ:89:ARG:N	2.71	0.43
19:AT:35:THR:H	19:AT:38:GLU:HG2	1.84	0.43
55:DA:226:G:C2'	55:DA:227:A:OP2	2.67	0.43
2:DB:45:A:H1'	6:DG:95:ARG:NH2	2.33	0.43
55:DA:1906:G:C4	55:DA:1929:G:C2	3.07	0.43
15:DR:40:THR:HG22	15:DR:40:THR:O	2.17	0.43
39:CL:112:LYS:HD3	39:CL:112:LYS:C	2.39	0.43
55:DA:1212:G:N2	55:DA:1236:G:O2'	2.51	0.43
48:BU:23:LYS:CA	48:BU:26:LEU:HD11	2.44	0.43
1:AA:1055:G:N2	1:AA:1085:A:O2'	2.51	0.43
1:AA:1085:A:O2'	1:AA:1104:C:O2	2.36	0.43
55:DA:856:C:H5''	55:DA:856:C:C6	2.54	0.43
26:A4:50:VAL:HG11	43:BP:65:LYS:HB3	2.01	0.43
8:AK:89:TYR:HA	54:CA:357:G:O2'	2.18	0.43
44:CQ:13:THR:O	44:CQ:14:PRO:C	2.56	0.43
15:DR:124:ASP:O	15:DR:128:GLU:N	2.51	0.43
55:DA:447:A:H5''	55:DA:448:U:OP1	2.19	0.43
54:CA:1366:C:H2'	54:CA:1367:C:C6	2.54	0.43
33:BF:63:ASN:CB	33:BF:98:ASN:HB3	2.48	0.43
3:DD:13:ARG:CZ	3:DD:16:MET:HE1	2.49	0.43
55:DA:2847:U:OP1	15:DR:98:LYS:HD3	2.19	0.43
36:CI:62:TRP:CD1	48:CU:35:ARG:CZ	3.02	0.43
38:BK:26:VAL:HG23	38:BK:27:PRO:HD2	2.01	0.43
54:CA:736:C:H2'	54:CA:737:A:H8	1.84	0.43
36:CI:4:TYR:CD1	36:CI:92:LYS:HA	2.54	0.43
1:AA:603:A:O2'	1:AA:604:G:P	2.77	0.43
55:DA:2163:C:OP1	55:DA:2172:U:C5	2.72	0.43
34:CG:19:LEU:CD2	34:CG:19:LEU:N	2.82	0.43
1:AA:2776:A:O2'	1:AA:2781:A:C4'	2.66	0.43
13:A0:96:ARG:HB3	13:A0:96:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:452:A:H2'	31:BA:453:A:C8	2.54	0.43
31:BA:1238:A:H62	31:BA:1301:U:H3	1.66	0.43
29:A7:19:ARG:CG	29:A7:19:ARG:NH1	2.77	0.43
22:A3:48:GLY:H	22:A3:51:VAL:HB	1.82	0.43
31:BA:210:U:C2'	31:BA:210:U:O2	2.59	0.43
39:CL:9:ARG:O	39:CL:9:ARG:HG2	2.18	0.43
54:CA:452:A:C6	54:CA:453:A:C6	3.06	0.43
54:CA:452:A:C4'	46:CS:72:ARG:NH2	2.76	0.43
10:DN:35:VAL:HA	10:DN:62:VAL:HG12	2.01	0.43
54:CA:555:C:OP1	42:CO:20:LYS:HE2	2.18	0.43
55:DA:1678:G:H22	55:DA:1989:G:H1	1.65	0.43
1:AA:1242:A:C6	11:AO:4:SER:HB2	2.53	0.43
3:DD:228:PRO:HD3	3:DD:234:GLY:O	2.18	0.43
50:BW:88:VAL:O	50:BW:91:LEU:HB2	2.19	0.43
52:CB:9:A:O4'	52:CB:46:G:O4'	2.37	0.43
27:D5:48:GLU:HG3	27:D5:59:GLU:HG3	2.01	0.43
13:A0:41:ALA:O	13:A0:44:LEU:N	2.51	0.43
55:DA:142:G:H1'	19:DT:37:THR:CG2	2.48	0.43
9:DM:30:ILE:O	9:DM:34:LEU:HD22	2.18	0.43
33:CF:64:VAL:CG1	33:CF:66:VAL:HG23	2.47	0.43
1:AA:1179:C:H2'	1:AA:1180:C:C5'	2.49	0.43
36:CI:83:ASP:C	36:CI:85:VAL:H	2.21	0.43
54:CA:575:G:H4'	54:CA:576:G:O5'	2.18	0.43
54:CA:366:C:HO2'	54:CA:367:U:P	2.40	0.43
31:BA:164:U:H2'	31:BA:165:C:C5	2.53	0.43
46:BS:55:ARG:O	46:BS:56:ALA:C	2.57	0.43
1:AA:663:G:C6	1:AA:664:C:C4	3.07	0.43
26:A4:69:LYS:C	26:A4:69:LYS:CD	2.86	0.43
41:CN:120:ARG:HH12	41:CN:126:ARG:NH2	2.17	0.43
1:AA:1417:C:O2'	1:AA:1418:G:H5'	2.19	0.43
55:DA:1773:A:N7	55:DA:1829:A:H1'	2.34	0.43
55:DA:500:G:N2	55:DA:502:A:H2'	2.33	0.43
54:CA:427:U:H1'	54:CA:541:G:OP1	2.18	0.43
54:CA:1355:G:H2'	54:CA:1356:G:H8	1.84	0.43
1:AA:1475:G:H5'	1:AA:1476:C:OP2	2.18	0.43
55:DA:1893:C:C2'	55:DA:1894:C:H5'	2.49	0.43
55:DA:1397:U:O2'	55:DA:1398:C:OP1	2.33	0.43
34:CG:39:PRO:O	34:CG:44:GLY:HA3	2.19	0.43
31:BA:291:C:O2'	31:BA:292:G:H5'	2.19	0.43
15:DR:62:THR:HB	15:DR:75:ILE:HG12	2.00	0.43
52:BD:29:G:O2'	52:BD:30:G:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CG:124:GLY:C	34:CG:126:ILE:H	2.22	0.43
9:AM:1:MET:O	9:AM:2:LYS:HB2	2.18	0.43
34:CG:20:TYR:CD1	34:CG:20:TYR:N	2.87	0.43
50:CW:75:ASN:N	50:CW:75:ASN:OD1	2.51	0.43
31:BA:309:G:H1'	31:BA:608:A:C2	2.54	0.43
1:AA:355:G:H2'	1:AA:356:G:O4'	2.19	0.43
4:AE:179:GLU:HG3	4:AE:181:LEU:CD2	2.48	0.43
4:AE:25:VAL:HG22	4:AE:183:LEU:CD1	2.49	0.43
58:DL:109:LYS:HA	58:DL:120:LEU:CD2	2.43	0.43
57:DY:101:PRO:CD	57:DY:102:LYS:H	2.32	0.43
57:DY:138:LEU:HD21	56:DJ:22:GLN:CD	2.34	0.43
12:AP:60:ARG:O	12:AP:61:GLY:O	2.37	0.43
31:BA:972:C:H4'	40:BM:57:LYS:CG	2.48	0.43
49:BV:44:MET:HA	49:BV:47:HIS:HD2	1.80	0.43
55:DA:1359:A:C2	55:DA:1373:A:C4	3.07	0.43
42:CO:89:ARG:HH11	42:CO:89:ARG:HB2	1.84	0.43
27:D5:58:LEU:HD13	27:D5:60:VAL:CG1	2.49	0.43
20:DU:19:LYS:O	20:DU:20:TYR:CD1	2.72	0.43
20:DU:50:ARG:C	20:DU:52:SER:N	2.73	0.43
54:CA:1363:A:C1'	54:CA:1365:G:N7	2.65	0.43
44:CQ:42:ILE:HG22	44:CQ:46:GLU:CG	2.49	0.43
49:CV:83:HIS:O	49:CV:86:GLU:CA	2.67	0.43
55:DA:2635:C:H5'	4:DE:77:ILE:CD1	2.49	0.43
4:DE:7:VAL:CG2	4:DE:8:LYS:N	2.57	0.43
46:CS:71:ARG:CB	46:CS:71:ARG:HH11	2.32	0.43
21:DV:151:HIS:CG	21:DV:169:GLU:O	2.72	0.43
55:DA:2286:A:OP2	28:D6:28:ARG:HD3	2.19	0.43
17:A2:95:LEU:HD22	17:A2:97:LYS:HE3	2.01	0.43
34:BG:20:TYR:HB3	34:BG:27:TYR:CD1	2.54	0.43
4:AE:29:GLY:N	4:AE:51:PHE:HE1	2.16	0.43
4:AE:3:GLY:O	4:AE:198:VAL:O	2.36	0.43
31:BA:1122:U:C2	31:BA:1123:A:C8	3.06	0.43
31:BA:1133:G:N1	31:BA:1142:G:C6	2.87	0.43
1:AA:2602:A:H4'	1:AA:2603:G:H5'	2.00	0.43
34:CG:173:TRP:CE3	34:CG:193:ASP:HB3	2.54	0.43
52:CD:13:C:C2'	52:CD:14:A:H5'	2.49	0.43
6:DG:179:PRO:HG3	26:D4:38:LYS:HZ1	1.84	0.43
54:CA:1174:G:H2'	54:CA:1175:G:H8	1.84	0.43
4:DE:24:THR:CB	4:DE:188:VAL:HG11	2.49	0.43
31:BA:39:G:N7	31:BA:547:A:C8	2.87	0.43
20:AU:62:GLU:CG	20:AU:63:LYS:H	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BE:5:ILE:O	32:BE:5:ILE:HG23	2.19	0.43
3:AD:27:THR:C	3:AD:29:PRO:HD2	2.38	0.43
55:DA:2146:C:C5'	55:DA:2147:G:OP1	2.62	0.43
24:AW:39:ALA:O	24:AW:42:GLY:HA2	2.19	0.43
24:AW:64:LEU:O	24:AW:64:LEU:HD23	2.19	0.43
25:AX:54:VAL:CG1	25:AX:55:ARG:H	2.31	0.43
1:AA:654(I):C:O2	1:AA:654(I):C:O2'	2.34	0.43
1:AA:1428:C:N4	1:AA:1570:A:OP2	2.36	0.43
9:AM:97:ARG:HG2	9:AM:97:ARG:HH11	1.84	0.43
48:BU:56:THR:HG21	48:BU:63:GLN:OE1	2.19	0.43
39:BL:45:ALA:O	39:BL:48:GLU:HB2	2.18	0.43
55:DA:1162:G:H1'	17:D2:23:GLU:OE2	2.19	0.43
31:BA:1053:G:N7	31:BA:1200:C:C5'	2.82	0.43
1:AA:1332:G:N2	1:AA:1610:A:C8	2.87	0.43
33:BF:164:ARG:NH2	53:B1:55:U:O4	2.50	0.43
41:CN:64:ALA:O	41:CN:65:ALA:C	2.56	0.43
55:DA:454:A:H4'	55:DA:455:C:OP2	2.16	0.43
44:BQ:46:GLU:O	44:BQ:47:LEU:C	2.57	0.43
1:AA:1543:A:H1'	1:AA:1545:A:C1'	2.47	0.43
14:AQ:25:ARG:CB	14:AQ:25:ARG:NH1	2.78	0.43
4:DE:92:THR:C	4:DE:95:ILE:HD13	2.39	0.43
4:DE:92:THR:H	4:DE:95:ILE:HD11	1.83	0.43
1:AA:588:U:C2	1:AA:589:C:C5	3.06	0.43
34:BG:182:LYS:HG3	34:BG:182:LYS:O	2.19	0.43
1:AA:605:C:H1'	1:AA:657:U:O2'	2.19	0.43
14:AQ:61:ASN:O	14:AQ:62:LYS:C	2.57	0.43
22:D3:7:LEU:HD22	22:D3:7:LEU:N	2.34	0.43
54:CA:428:G:O2'	54:CA:429:U:P	2.77	0.43
55:DA:196:A:P	11:DO:46:LYS:HZ1	2.41	0.43
31:BA:1303:C:H2'	31:BA:1304:G:H5'	2.00	0.43
35:CH:32:VAL:CG1	35:CH:33:VAL:N	2.82	0.43
31:BA:216:G:O2'	31:BA:217:C:O4'	2.36	0.43
1:AA:1936:A:H5''	1:AA:1937:A:O5'	2.19	0.43
1:AA:1944:U:H1'	1:AA:1955:U:C4'	2.49	0.43
54:CA:1149:C:P	39:CL:9:ARG:NH2	2.91	0.43
15:DR:96:ARG:HB2	15:DR:96:ARG:HH11	1.81	0.43
39:CL:57:GLY:O	39:CL:58:HIS:C	2.56	0.43
55:DA:2234:G:H2'	55:DA:2235:G:O4'	2.18	0.43
21:AV:150:LEU:HD23	21:AV:154:ASP:HB2	2.00	0.43
52:BC:40:C:O2	52:BC:40:C:H2'	2.18	0.43
35:CH:48:ALA:HB2	35:CH:57:LYS:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2462:U:H2'	1:AA:2463:C:O4'	2.19	0.43
54:CA:442:C:H2'	54:CA:442:C:O2	2.18	0.43
55:DA:1879:C:C2'	55:DA:1880:C:H5''	2.48	0.43
31:BA:1095:U:H2'	31:BA:1096:C:C6	2.54	0.43
55:DA:2600:A:N7	3:DD:237:GLU:HG2	2.34	0.43
3:AD:268:ARG:HD3	3:AD:268:ARG:O	2.19	0.43
31:BA:669:U:H2'	31:BA:670:G:C8	2.54	0.43
4:AE:16:ARG:NH1	4:AE:16:ARG:HG3	2.34	0.43
13:A0:44:LEU:HD22	13:A0:44:LEU:O	2.18	0.43
23:AZ:66:HIS:C	23:AZ:68:PRO:HD2	2.38	0.43
40:BM:12:ASP:C	40:BM:14:LYS:H	2.22	0.43
31:BA:1294:G:O2'	31:BA:1295:G:H5'	2.19	0.43
1:AA:1073:A:OP2	1:AA:1094:U:O4	2.37	0.43
22:D3:53:MET:HB3	22:D3:59:LEU:HD23	2.01	0.43
44:CQ:19:ARG:O	44:CQ:21:TYR:HD1	2.01	0.43
55:DA:2166:G:C2'	55:DA:2167:U:OP1	2.67	0.43
55:DA:530:G:C6	55:DA:2022:U:H5''	2.53	0.43
31:BA:115:G:H4'	31:BA:116:A:O5'	2.18	0.43
54:CA:89:U:H2'	54:CA:90:C:O5'	2.17	0.43
10:DN:106:LEU:HD23	10:DN:106:LEU:HA	1.73	0.43
7:DH:41:MET:CE	7:DH:64:LEU:HB2	2.49	0.43
55:DA:1324:G:C2'	55:DA:1325:G:H5'	2.49	0.43
1:AA:2356:C:H4'	22:A3:20:ARG:HG3	2.00	0.43
54:CA:675:A:H1'	41:CN:116:HIS:CD2	2.54	0.43
42:CO:43:VAL:HG21	42:CO:93:LEU:HD22	2.00	0.43
1:AA:2642:G:C5'	9:AM:78:TYR:CD2	3.02	0.43
32:BE:121:LEU:O	32:BE:127:ILE:HG12	2.19	0.43
32:BE:25:ASN:HB2	32:BE:191:ASP:O	2.19	0.43
1:AA:1554:A:C2	1:AA:1634:A:N6	2.85	0.43
31:BA:642:A:N3	38:BK:113:SER:OG	2.38	0.43
33:BF:126:ARG:HB2	33:BF:128:PHE:HD1	1.84	0.43
55:DA:2572:A:O2'	55:DA:2573:C:OP2	2.36	0.43
32:CE:158:LEU:O	32:CE:158:LEU:HD12	2.19	0.43
32:BE:158:LEU:N	32:BE:158:LEU:HD12	2.34	0.43
47:CT:84:LEU:C	47:CT:86:GLU:N	2.72	0.43
4:AE:146:THR:HA	4:AE:147:PRO:C	2.38	0.43
1:AA:2032:G:OP2	1:AA:2454:G:O2'	2.34	0.43
54:CA:1360:A:H2'	54:CA:1361:G:C8	2.53	0.43
33:BF:157:ILE:C	33:BF:159:GLY:H	2.21	0.43
55:DA:1001:A:H2'	55:DA:1002:G:O4'	2.18	0.43
1:AA:1625:C:H2'	1:AA:1626:G:O4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BT:99:SER:O	47:BT:101:ARG:N	2.49	0.43
55:DA:2707:G:H2'	55:DA:2708:G:H8	1.84	0.43
32:BE:71:VAL:HB	32:BE:164:VAL:HG22	2.01	0.43
4:AE:179:GLU:O	4:AE:180:ASN:HB2	2.18	0.42
56:DJ:7:ARG:O	56:DJ:8:ILE:HB	2.19	0.42
57:DY:63:LEU:HD23	57:DY:63:LEU:N	2.24	0.42
57:DY:7:VAL:CG1	57:DY:8:GLU:N	2.44	0.42
57:DY:91:LYS:CA	57:DY:94:VAL:HB	2.46	0.42
21:DV:190:GLU:H	21:DV:193:GLU:H	1.66	0.42
31:BA:1306:A:H2'	31:BA:1307:U:C6	2.54	0.42
49:BV:19:VAL:HG12	49:BV:20:LEU:N	2.34	0.42
49:BV:48:THR:HG22	49:BV:61:TYR:HD1	1.84	0.42
30:A8:32:LEU:HD23	30:A8:33:ASN:H	1.83	0.42
1:AA:2393:A:H3'	1:AA:2394:C:H6	1.83	0.42
43:BP:88:ARG:HH11	43:BP:88:ARG:HG2	1.83	0.42
1:AA:858:U:HO2'	1:AA:2268:A:H1'	1.84	0.42
1:AA:916:G:O2'	1:AA:917:A:H5''	2.19	0.42
12:AP:87:LYS:O	12:AP:88:GLY:O	2.37	0.42
54:CA:624:C:H4'	46:CS:10:GLY:O	2.18	0.42
31:BA:1269:A:C2	31:BA:1313:U:O4'	2.72	0.42
40:BM:6:ILE:CA	40:BM:97:GLU:O	2.67	0.42
55:DA:479:A:H4'	55:DA:480:A:H5'	2.01	0.42
33:CF:22:TRP:CZ2	44:CQ:54:PRO:HG2	2.53	0.42
15:DR:3:ARG:O	15:DR:5:ALA:N	2.51	0.42
8:DK:112:LYS:HG2	8:DK:112:LYS:H	1.67	0.42
1:AA:247:G:H4'	1:AA:386:G:C6	2.53	0.42
28:D6:17:LYS:HG3	28:D6:18:ARG:H	1.83	0.42
9:AM:35:ARG:NH2	9:AM:42:TRP:HH2	2.16	0.42
5:AF:79:GLY:CA	5:AF:86:GLY:HA2	2.42	0.42
34:BG:20:TYR:HD2	34:BG:27:TYR:CD1	2.37	0.42
17:A2:71:LEU:CA	17:A2:86:GLY:CA	2.97	0.42
1:AA:2810:A:H61	1:AA:2891:G:C2'	2.32	0.42
14:DQ:69:VAL:HG13	14:DQ:101:LEU:CD2	2.49	0.42
1:AA:2748:A:N7	1:AA:2757:A:N1	2.67	0.42
1:AA:2534:A:C2	1:AA:2535:G:H1'	2.54	0.42
32:CE:28:PHE:CZ	32:CE:189:ASP:HA	2.54	0.42
26:D4:16:CYS:SG	26:D4:17:GLY:N	2.92	0.42
55:DA:1312:U:H4'	55:DA:1313:U:O5'	2.18	0.42
54:CA:878:G:H2'	54:CA:879:C:C6	2.54	0.42
21:AV:41:LEU:HD23	21:AV:41:LEU:C	2.38	0.42
5:AF:8:GLN:NE2	5:AF:127:GLU:HB3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BE:55:PHE:CD1	32:BE:221:LEU:CD2	3.02	0.42
8:DK:121:LYS:O	8:DK:122:GLU:HB2	2.19	0.42
6:DG:47:LYS:NZ	6:DG:81:LYS:HG2	2.34	0.42
14:DQ:18:ILE:HD12	14:DQ:88:ASP:HA	2.00	0.42
54:CA:376:G:C2'	54:CA:377:G:H5'	2.49	0.42
54:CA:377:G:OP1	46:CS:3:LYS:NZ	2.49	0.42
15:DR:110:ILE:CG2	15:DR:111:ARG:NH1	2.82	0.42
3:AD:222:ARG:O	3:AD:225:ALA:HB3	2.18	0.42
24:AW:53:LEU:O	24:AW:56:GLN:N	2.51	0.42
1:AA:74:A:C8	1:AA:74:A:OP2	2.72	0.42
52:CD:72:C:C3'	52:CD:73:A:C5'	2.97	0.42
55:DA:1786:A:N1	55:DA:2606:C:C1'	2.82	0.42
1:AA:2720:U:H2'	1:AA:2721:A:C8	2.54	0.42
55:DA:319:C:H2'	55:DA:320:A:C8	2.54	0.42
54:CA:1345:U:H5"	54:CA:1346:A:OP1	2.19	0.42
23:AZ:6:GLU:OE1	23:AZ:60:PHE:HA	2.19	0.42
55:DA:919:G:N2	55:DA:2269:A:OP2	2.48	0.42
54:CA:1107:C:C4	54:CA:1108:G:C8	3.07	0.42
55:DA:2735:G:H2'	55:DA:2736:G:C8	2.53	0.42
11:AO:112:LEU:HD13	11:AO:112:LEU:C	2.39	0.42
55:DA:297:C:O2'	55:DA:298:G:H5'	2.19	0.42
5:DF:178:PRO:HB3	5:DF:198:ALA:HB1	2.00	0.42
53:B1:51:U:H3'	53:B1:51:U:H6	1.83	0.42
41:CN:30:VAL:O	41:CN:30:VAL:HG23	2.19	0.42
33:CF:3:ASN:OD1	33:CF:3:ASN:N	2.52	0.42
1:AA:1544:C:O2'	1:AA:1545:A:OP1	2.28	0.42
33:CF:14:ILE:O	33:CF:15:THR:HB	2.18	0.42
31:BA:197:A:O2'	31:BA:198:G:OP2	2.36	0.42
6:AG:129:GLY:O	6:AG:130:ASN:CG	2.58	0.42
42:CO:61:THR:OG1	42:CO:62:SER:N	2.52	0.42
8:DK:93:THR:HG22	8:DK:119:PRO:CB	2.39	0.42
12:DP:81:VAL:HG23	22:D3:7:LEU:HD21	2.01	0.42
1:AA:14:A:N6	1:AA:15:G:C2	2.87	0.42
1:AA:528:A:H2	1:AA:2042:A:H2'	1.78	0.42
1:AA:2780:G:O2'	1:AA:2781:A:OP1	2.36	0.42
15:DR:19:LEU:HA	15:DR:20:PRO:HD3	1.79	0.42
14:AQ:20:ARG:HE	14:AQ:21:THR:HA	1.83	0.42
52:CD:2:C:C5'	52:CD:2:C:H6	2.24	0.42
54:CA:373:A:H61	54:CA:391:G:H1'	1.83	0.42
34:BG:108:LEU:CB	34:BG:110:PHE:HE1	2.28	0.42
1:AA:2728:U:O2'	1:AA:2729:G:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:12:THR:HG22	20:AU:26:LYS:HE2	1.97	0.42
10:DN:7:TYR:HE1	10:DN:20:MET:CE	2.27	0.42
8:DK:72:LEU:CD1	8:DK:107:VAL:HG11	2.43	0.42
26:D4:12:ALA:HB2	26:D4:29:PRO:HA	2.00	0.42
1:AA:312:G:P	1:AA:312:G:H8	2.42	0.42
33:BF:70:VAL:O	33:BF:106:VAL:HG23	2.17	0.42
1:AA:404:C:O2'	1:AA:405:U:C5'	2.65	0.42
33:CF:79:ARG:NH1	33:CF:79:ARG:CG	2.82	0.42
22:D3:25:ARG:CD	22:D3:29:GLN:NE2	2.82	0.42
41:BN:21:ILE:HB	41:BN:84:VAL:HG12	2.01	0.42
31:BA:624:C:H2'	31:BA:625:G:H8	1.83	0.42
1:AA:214:G:H1'	1:AA:216:A:O2'	2.19	0.42
3:AD:169:GLU:HG2	3:AD:174:ILE:CD1	2.44	0.42
54:CA:922:G:H4'	35:CH:20:GLN:HA	2.01	0.42
35:CH:20:GLN:O	35:CH:21:ALA:C	2.57	0.42
1:AA:1298:C:H2'	1:AA:1298:C:O2	2.20	0.42
38:CK:82:HIS:O	38:CK:137:VAL:HA	2.19	0.42
42:CO:83:VAL:CG2	42:CO:100:ILE:HG12	2.44	0.42
54:CA:719:C:O2'	48:CU:49:LYS:HB3	2.18	0.42
48:CU:66:LEU:HG	48:CU:70:ILE:CD1	2.49	0.42
1:AA:2113:U:C6	1:AA:2114:A:O4'	2.71	0.42
34:CG:163:GLU:O	34:CG:165:MET:N	2.52	0.42
18:AS:40:ASN:O	18:AS:41:LYS:HG2	2.18	0.42
54:CA:781:A:O2'	54:CA:1522:U:O2	2.35	0.42
2:AB:78:A:H61	2:AB:98:G:H1'	1.84	0.42
34:CG:92:VAL:O	34:CG:96:LEU:CD2	2.67	0.42
9:AM:89:LYS:HZ2	9:AM:89:LYS:HB3	1.83	0.42
52:CD:37:MIA:H112	52:CD:38:A:H1'	1.99	0.42
10:DN:87:ILE:CD1	10:DN:91:LEU:HD12	2.48	0.42
1:AA:630:G:N2	1:AA:633:A:OP2	2.45	0.42
12:AP:109:VAL:CG1	12:AP:110:THR:N	2.82	0.42
1:AA:39:C:H2'	1:AA:40:C:H6	1.83	0.42
5:DF:117:ARG:HG3	5:DF:117:ARG:HH11	1.83	0.42
55:DA:91:A:H2'	55:DA:92:G:O5'	2.19	0.42
17:D2:91:TYR:C	17:D2:91:TYR:HD1	2.21	0.42
54:CA:1410:G:H2'	54:CA:1411:C:H6	1.84	0.42
55:DA:932:G:H4'	55:DA:933:A:O5'	2.19	0.42
14:AQ:39:ILE:O	14:AQ:47:THR:HG23	2.19	0.42
3:AD:270:ILE:HG22	3:AD:271:ILE:N	2.34	0.42
13:D0:13:HIS:HE1	13:D0:15:SER:OG	2.01	0.42
1:AA:1355:G:C4	1:AA:1356:G:C8	3.06	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1121:C:H2'	1:AA:1122:G:O4'	2.19	0.42
55:DA:781:A:H2'	55:DA:1777:U:O2'	2.19	0.42
55:DA:1982:C:H2'	55:DA:1982:C:O2	2.18	0.42
41:BN:93:GLN:O	41:BN:97:ALA:HB2	2.18	0.42
43:CP:29:ARG:HD3	43:CP:64:TRP:CE2	2.54	0.42
1:AA:852:G:O2'	1:AA:853:G:H5'	2.19	0.42
31:BA:1478:C:H2'	31:BA:1479:C:H6	1.84	0.42
34:BG:90:GLY:O	34:BG:94:LEU:HG	2.18	0.42
55:DA:37:C:H4'	55:DA:451:C:OP1	2.18	0.42
55:DA:1910:G:O2'	55:DA:1911:U:H5'	2.19	0.42
35:CH:89:ILE:HG12	35:CH:91:LEU:CD1	2.49	0.42
34:CG:132:ARG:NH1	34:CG:132:ARG:HG2	2.34	0.42
1:AA:1264:G:C2'	1:AA:1265:A:OP1	2.67	0.42
1:AA:2107:C:H2'	1:AA:2108:C:O4'	2.19	0.42
55:DA:1057:A:O2'	55:DA:1058:U:OP1	2.37	0.42
57:DY:135:ARG:CA	57:DY:138:LEU:HB3	2.45	0.42
57:DY:72:ASP:O	57:DY:112:LEU:CG	2.67	0.42
1:AA:895:U:C3'	1:AA:895:U:C2	3.02	0.42
26:A4:56:VAL:CG1	26:A4:57:GLU:N	2.81	0.42
28:A6:13:CYS:O	28:A6:14:THR:HB	2.19	0.42
30:A8:34:TRP:C	30:A8:36:LYS:H	2.21	0.42
1:AA:2287:A:C2'	1:AA:2288:A:O5'	2.67	0.42
55:DA:895:U:O2	55:DA:895:U:H2'	2.19	0.42
21:DV:116:VAL:HG13	21:DV:117:LEU:H	1.84	0.42
26:A4:24:THR:O	26:A4:25:TYR:CB	2.67	0.42
26:A4:18:CYS:HB3	26:A4:36:CYS:HB2	1.82	0.42
31:BA:1329:A:OP1	43:BP:26:GLY:HA3	2.19	0.42
31:BA:1353:G:H5''	51:BX:13:ILE:CG2	2.50	0.42
31:BA:1354:C:O2'	31:BA:1355:G:H5'	2.18	0.42
31:BA:1327:C:OP1	51:BX:12:LYS:NZ	2.52	0.42
23:DZ:85:LEU:HA	23:DZ:87:PRO:HD2	2.01	0.42
40:BM:98:ILE:O	40:BM:99:LYS:HB2	2.19	0.42
33:CF:29:TYR:C	33:CF:29:TYR:HD2	2.23	0.42
44:CQ:29:ARG:HG3	44:CQ:29:ARG:HH11	1.84	0.42
4:DE:59:VAL:O	4:DE:60:ASN:CG	2.58	0.42
8:AK:82:ARG:HH11	8:AK:146:ALA:HB2	1.84	0.42
21:DV:119:GLU:O	21:DV:121:HIS:N	2.52	0.42
54:CA:37:U:H2'	54:CA:38:G:C8	2.50	0.42
28:D6:36:LEU:CD1	28:D6:50:ARG:NH1	2.82	0.42
55:DA:2287:A:C5	55:DA:2289:G:C5	3.07	0.42
9:AM:38:HIS:CG	9:AM:39:ARG:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1941:C:N4	1:AA:1965:C:H5'	2.34	0.42
11:DO:61:ARG:HE	30:D8:24:ALA:HB2	1.84	0.42
34:BG:29:PRO:HD2	34:BG:30:LYS:CE	2.49	0.42
34:BG:34:GLU:C	34:BG:35:ARG:CG	2.84	0.42
17:A2:76:LYS:HD2	17:A2:80:GLN:O	2.19	0.42
16:A1:50:ARG:HG2	16:A1:53:ARG:NH2	2.33	0.42
55:DA:553:U:H2'	55:DA:554:U:O4'	2.19	0.42
9:DM:39:ARG:C	9:DM:41:ASP:H	2.22	0.42
31:BA:1148:U:O2'	31:BA:1149:C:H5'	2.19	0.42
54:CA:1126:U:C5	54:CA:1127:G:C4	3.08	0.42
52:CD:46:G:O3'	52:CD:47:U:H4'	2.18	0.42
55:DA:2168:G:C2'	55:DA:2169:A:OP1	2.67	0.42
55:DA:887:A:O2'	55:DA:888:C:P	2.78	0.42
55:DA:1607:C:H4'	55:DA:1608:A:O5'	2.20	0.42
1:AA:1213:A:O2'	1:AA:1214:A:H5'	2.19	0.42
1:AA:98:G:O2'	1:AA:99:U:H5''	2.19	0.42
20:AU:97:ARG:N	20:AU:97:ARG:HD3	2.20	0.42
55:DA:2134:A:N6	55:DA:2157:G:O2'	2.51	0.42
1:AA:654(A):A:N1	1:AA:654(T):A:N1	2.67	0.42
55:DA:2311:A:H3'	55:DA:2312:U:H5	1.75	0.42
55:DA:608:A:C8	55:DA:621:A:N6	2.87	0.42
55:DA:654(S):G:H2'	55:DA:654(T):A:N9	2.33	0.42
3:AD:34:VAL:O	3:AD:35:LYS:HG3	2.19	0.42
14:DQ:26:LEU:HD22	14:DQ:87:PHE:CD1	2.54	0.42
1:AA:26:G:C6	1:AA:27:G:N1	2.88	0.42
54:CA:186(C):G:C6	54:CA:191(E):G:N1	2.87	0.42
1:AA:1312:U:H3'	19:AT:63:LYS:HZ2	1.84	0.42
8:AK:5:LEU:HD21	8:AK:12:LEU:HB3	2.00	0.42
55:DA:2146:C:H4'	55:DA:2147:G:C5	2.54	0.42
3:AD:158:ALA:N	3:AD:161:THR:OG1	2.51	0.42
55:DA:1236:G:C4'	55:DA:1237:A:OP1	2.53	0.42
48:BU:53:ARG:NH1	48:BU:60:ALA:HB2	2.34	0.42
1:AA:846:C:C4	1:AA:930:U:C5	3.07	0.42
14:DQ:71:ARG:HG2	14:DQ:104:GLY:CA	2.36	0.42
35:BH:78:HIS:ND1	38:BK:107:LEU:CD1	2.81	0.42
50:BW:43:LEU:O	50:BW:47:GLY:N	2.51	0.42
43:CP:62:ASN:OD1	26:D4:49:PHE:CD2	2.70	0.42
53:B1:50:U:C3'	53:B1:51:U:H5'	2.50	0.42
6:DG:14:GLU:O	6:DG:17:PRO:HG2	2.19	0.42
54:CA:1443:G:C4'	54:CA:1446:A:OP2	2.66	0.42
12:DP:3:MET:HB3	12:DP:93:TYR:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:35:G:H2'	55:DA:36:G:O4'	2.18	0.42
55:DA:588:U:O4	55:DA:670:A:O2'	2.29	0.42
55:DA:2832:U:H4'	55:DA:2833:G:C5'	2.36	0.42
54:CA:1189:C:H4'	33:CF:10:PHE:CE1	2.55	0.42
33:BF:35:GLU:HG2	33:BF:39:ILE:HD11	2.01	0.42
55:DA:726:G:O2'	55:DA:727:A:P	2.77	0.42
4:DE:93:VAL:C	4:DE:95:ILE:H	2.22	0.42
31:BA:676:A:C4	31:BA:677:U:C5	3.07	0.42
55:DA:2590:A:H2'	55:DA:2591:C:H6	1.83	0.42
27:A5:33:CYS:HB2	27:A5:36:CYS:HB2	2.00	0.42
14:AQ:30:ARG:HG3	14:AQ:97:ARG:NH2	2.34	0.42
34:CG:6:GLY:O	34:CG:7:PRO:C	2.57	0.42
55:DA:301:G:C4	55:DA:302:C:C5	3.08	0.42
55:DA:2067:G:C4'	55:DA:2068:U:OP2	2.61	0.42
35:CH:80:ILE:C	35:CH:81:GLU:HG3	2.40	0.42
1:AA:125:G:OP2	29:A7:19:ARG:HD3	2.19	0.42
1:AA:1771:C:O5'	1:AA:1771:C:H6	2.02	0.42
4:AE:134:ILE:CG1	4:AE:134:ILE:O	2.67	0.42
55:DA:189:G:H2'	55:DA:205:G:N2	2.34	0.42
54:CA:537:G:C5'	42:CO:113:ARG:HH12	2.28	0.42
26:D4:24:THR:OG1	26:D4:25:TYR:N	2.49	0.42
4:DE:116:VAL:O	4:DE:117:MET:CB	2.67	0.42
31:BA:186:C:C1'	50:BW:81:LYS:HZ1	2.32	0.42
9:AM:45:ASN:ND2	9:AM:45:ASN:N	2.64	0.42
7:DH:80:SER:C	7:DH:81:GLU:OE1	2.58	0.42
55:DA:2555:U:H2'	55:DA:2556:C:O4'	2.19	0.42
32:BE:102:LEU:N	32:BE:102:LEU:CD1	2.82	0.42
52:CB:4:C:C2	52:CB:5:G:C8	3.07	0.42
54:CA:1284:C:H2'	54:CA:1285:A:N7	2.34	0.42
55:DA:443:A:H3'	5:DF:45:ARG:HH11	1.83	0.42
37:CJ:85:TYR:CD1	37:CJ:154:TYR:CE1	3.07	0.42
54:CA:1318:A:H1'	49:CV:37:ARG:NH2	2.34	0.42
53:B1:43:U:C6	53:B1:43:U:H5'	2.46	0.42
55:DA:422:A:H2'	55:DA:423:A:C8	2.54	0.42
13:D0:38:VAL:HG22	13:D0:112:ALA:HB2	2.01	0.42
5:DF:181:LEU:HD22	5:DF:181:LEU:HA	1.80	0.42
1:AA:1419:A:O2'	1:AA:1420:U:C6	2.72	0.42
14:DQ:49:VAL:CG1	14:DQ:76:LYS:HB2	2.49	0.42
31:BA:563:A:H1'	31:BA:566:G:O2'	2.19	0.42
52:CB:70:G:H2'	52:CB:71:G:C8	2.54	0.42
54:CA:312:C:N4	54:CA:313:A:N6	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BR:3:ILE:CB	45:BR:38:ARG:HH21	2.32	0.42
55:DA:654(F):C:O2'	55:DA:654(G):C:OP1	2.35	0.42
55:DA:279:C:H2'	55:DA:280:C:C6	2.53	0.42
54:CA:137:C:H1'	46:CS:63:GLY:HA2	2.00	0.42
36:BI:54:LYS:HZ2	36:BI:54:LYS:HA	1.84	0.42
50:BW:96:GLY:O	50:BW:97:ALA:O	2.37	0.42
1:AA:460:A:H3'	1:AA:461:C:C6	2.54	0.42
16:D1:24:TYR:HB2	16:D1:29:SER:HB3	2.02	0.42
55:DA:2870:C:C2'	55:DA:2871:C:H5'	2.49	0.42
13:D0:57:ARG:O	13:D0:59:ASP:N	2.52	0.42
41:CN:78:GLN:O	41:CN:103:LEU:HD13	2.19	0.42
1:AA:1554:A:H5'	1:AA:1555:G:OP2	2.19	0.42
55:DA:940:G:H2'	55:DA:941:A:O4'	2.19	0.42
48:BU:37:VAL:O	48:BU:38:GLU:C	2.57	0.42
19:DT:10:ALA:O	19:DT:28:PHE:HB3	2.19	0.42
55:DA:1948:G:C2'	55:DA:1949:G:H5'	2.49	0.42
35:CH:89:ILE:HG12	35:CH:91:LEU:HD13	2.00	0.42
54:CA:241:C:O2'	54:CA:242:C:H5'	2.19	0.42
25:DX:2:PRO:O	25:DX:39:ASP:HB2	2.18	0.42
55:DA:1518:C:H2'	55:DA:1519:G:H8	1.84	0.42
33:BF:135:LYS:O	33:BF:139:GLN:HB2	2.18	0.42
36:CI:53:ALA:O	36:CI:55:ASP:N	2.51	0.42
55:DA:208:C:H2'	55:DA:209:C:C6	2.53	0.42
55:DA:1423:G:OP1	55:DA:1492:G:O2'	2.37	0.42
3:AD:137:PRO:O	3:AD:138:VAL:C	2.58	0.42
52:BD:54:U:H2'	52:BD:55:U:O4'	2.20	0.42
56:DI:5:ILE:O	56:DI:6:GLU:HB2	2.18	0.42
56:DJ:4:ASP:O	56:DJ:7:ARG:O	2.36	0.42
58:DL:13:PRO:HG2	58:DL:14:ALA:N	2.34	0.42
57:DY:74:LEU:CG	57:DY:120:LYS:HA	2.45	0.42
1:AA:897:C:C2'	1:AA:898:C:H5'	2.45	0.42
21:AV:110:GLY:N	21:AV:143:GLY:CA	2.63	0.42
21:AV:110:GLY:CA	21:AV:143:GLY:HA2	2.48	0.42
31:BA:1233:G:OP2	39:BL:124:GLN:HG3	2.20	0.42
31:BA:1366:C:H2'	31:BA:1367:C:C6	2.54	0.42
49:BV:11:VAL:HA	49:BV:38:SER:HA	2.00	0.42
55:DA:1359:A:OP2	55:DA:1359:A:C8	2.72	0.42
28:A6:18:ARG:HG3	28:A6:18:ARG:HH11	1.84	0.42
1:AA:2277:G:H5''	12:AP:85:LYS:HB3	2.02	0.42
12:AP:42:ILE:HD13	12:AP:97:VAL:CB	2.49	0.42
12:AP:77:LYS:HA	12:AP:78:PRO:HD3	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:DV:112:ARG:O	21:DV:113:ALA:HB3	2.20	0.42
3:DD:32:SER:HA	3:DD:35:LYS:O	2.18	0.42
2:AB:47:C:O2	2:AB:47:C:H2'	2.18	0.42
15:AR:52:ILE:HG12	15:AR:61:PHE:HB2	2.00	0.42
49:CV:64:GLU:HA	49:CV:67:VAL:CG2	2.49	0.42
49:CV:67:VAL:O	49:CV:67:VAL:CG1	2.67	0.42
30:A8:8:LYS:HB3	30:A8:12:LYS:HE3	2.00	0.42
57:DY:142:LEU:CD1	57:DY:143:GLN:N	2.52	0.42
20:DU:50:ARG:C	20:DU:52:SER:H	2.22	0.42
33:CF:29:TYR:OH	44:CQ:54:PRO:HD2	2.19	0.42
4:DE:54:GLN:CA	4:DE:54:GLN:NE2	2.81	0.42
54:CA:56:U:H2'	54:CA:57:G:H8	1.81	0.42
17:A2:58:VAL:HB	17:A2:98:GLU:CB	2.49	0.42
1:AA:1340:U:H2'	1:AA:1341:U:OP1	2.17	0.42
55:DA:2702:U:C2'	55:DA:2703:C:OP2	2.67	0.42
34:BG:14:ARG:CG	34:BG:14:ARG:HH11	2.32	0.42
39:BL:17:VAL:HG22	39:BL:63:ILE:CG1	2.49	0.42
1:AA:2750:A:C5'	1:AA:2751:G:OP2	2.67	0.42
1:AA:2756:U:O4'	1:AA:2757:A:C8	2.72	0.42
54:CA:1124:G:H21	54:CA:1280:A:N6	2.17	0.42
1:AA:2225:A:O2'	1:AA:2226:C:OP2	2.37	0.42
1:AA:585:G:C6	1:AA:1253:A:OP1	2.71	0.42
1:AA:585:G:O2'	1:AA:1254:A:N6	2.49	0.42
52:CD:58:A:HO2'	52:CD:59:U:P	2.42	0.42
23:AZ:73:LEU:O	23:AZ:76:ARG:HG2	2.20	0.42
55:DA:1332:G:N2	55:DA:1610:A:C8	2.84	0.42
54:CA:130:A:H1'	54:CA:264:U:H4'	2.01	0.42
54:CA:267:C:P	47:CT:67:LYS:HB2	2.59	0.42
37:BJ:12:LEU:HD23	37:BJ:28:ASN:ND2	2.34	0.42
37:BJ:15:ASP:OD2	37:BJ:44:TYR:OH	2.36	0.42
10:AN:11:ALA:HB2	10:AN:64:ARG:NH2	2.34	0.42
54:CA:980:C:H5''	54:CA:981:U:C5	2.54	0.42
5:AF:118:ALA:HA	5:AF:122:LYS:O	2.19	0.42
5:AF:40:GLN:OE1	5:AF:182:ASN:HB2	2.19	0.42
1:AA:654(S):G:N1	1:AA:654(T):A:C2	2.87	0.42
32:BE:21:ARG:CZ	32:BE:39:ILE:HG13	2.49	0.42
6:DG:81:LYS:N	6:DG:81:LYS:CD	2.78	0.42
55:DA:654(R):C:C6	55:DA:654(R):C:O5'	2.67	0.42
46:CS:4:ILE:H	46:CS:4:ILE:HD12	1.81	0.42
55:DA:226:G:HO2'	55:DA:227:A:H8	1.61	0.42
50:CW:57:ARG:NH1	50:CW:102:GLY:CA	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2444:G:OP2	5:DF:68:LYS:NZ	2.51	0.42
55:DA:466:A:H2	55:DA:795:C:O2	2.02	0.42
53:B1:32:A:H2'	53:B1:33:G:O4'	2.18	0.42
53:B1:33:G:O2'	53:B1:34:G:H5'	2.20	0.42
5:AF:157:VAL:HG12	5:AF:178:PRO:HA	2.00	0.42
12:DP:34:LEU:HB2	12:DP:118:LEU:HD22	2.00	0.42
1:AA:1101:U:O2'	1:AA:1102:C:H5'	2.20	0.42
31:BA:1206:G:C4'	33:BF:194:GLY:H	2.33	0.42
50:BW:100:ILE:O	50:BW:102:GLY:N	2.43	0.42
33:BF:164:ARG:HG2	33:BF:165:THR:N	2.32	0.42
35:BH:15:ARG:HH12	53:B1:55:U:P	2.41	0.42
21:AV:102:LEU:HD12	21:AV:121:HIS:O	2.19	0.42
54:CA:437:U:O2'	54:CA:438:G:H5'	2.19	0.42
34:CG:119:GLN:O	34:CG:123:HIS:CD2	2.72	0.42
1:AA:339:U:H2'	1:AA:339:U:O2	2.19	0.42
1:AA:753:C:H6	1:AA:753:C:O5'	2.02	0.42
54:CA:1542:U:H6	54:CA:1542:U:H2'	1.56	0.42
31:BA:680:C:O2'	31:BA:681:C:H5'	2.19	0.42
48:CU:22:VAL:O	48:CU:25:THR:N	2.52	0.42
1:AA:1895:C:H1'	31:BA:702:A:H61	1.84	0.42
31:BA:374:A:C6	31:BA:375:U:C4	3.07	0.42
54:CA:64:G:H4'	54:CA:65:U:O5'	2.19	0.42
35:CH:102:ALA:HB2	35:CH:120:THR:OG1	2.18	0.42
54:CA:31:G:O2'	54:CA:32:A:OP1	2.37	0.42
11:DO:47:ASP:OD2	11:DO:49:ARG:HG2	2.20	0.42
38:CK:48:TYR:O	38:CK:49:GLU:HB3	2.19	0.42
48:CU:31:LEU:O	48:CU:65:ILE:HG22	2.19	0.42
13:D0:75:LEU:HD13	13:D0:75:LEU:O	2.20	0.42
10:DN:104:ARG:NH1	15:DR:36:GLU:CG	2.81	0.42
31:BA:662:G:O2'	31:BA:836:G:H5'	2.19	0.42
1:AA:531:C:N4	1:AA:2035:G:C6	2.87	0.42
31:BA:376:G:H5''	46:BS:5:ARG:HD3	2.01	0.42
55:DA:2848:G:O2'	55:DA:2867:G:N2	2.52	0.42
8:AK:140:LEU:HD12	8:AK:140:LEU:HA	1.84	0.42
1:AA:2335:A:O2'	1:AA:2336:A:H8	2.03	0.42
38:CK:112:LEU:HD12	38:CK:114:THR:CG2	2.49	0.42
48:BU:31:LEU:CD2	48:BU:31:LEU:N	2.77	0.42
55:DA:1889:A:H1'	55:DA:2087:G:O4'	2.19	0.42
12:DP:110:THR:HB	12:DP:112:GLU:CG	2.47	0.42
18:AS:8:ARG:O	18:AS:9:TYR:HB2	2.18	0.42
54:CA:815:A:O2'	54:CA:1527:C:C1'	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CK:33:GLU:HG2	38:CK:59:LEU:CD1	2.47	0.42
55:DA:1682:G:H2'	55:DA:1683:C:H6	1.80	0.42
1:AA:2462:U:H2'	1:AA:2463:C:C6	2.54	0.42
1:AA:215:G:H4'	1:AA:216:A:H4'	2.01	0.42
45:BR:21:ASP:C	45:BR:21:ASP:OD2	2.57	0.42
25:DX:36:VAL:O	25:DX:36:VAL:HG23	2.18	0.42
7:DH:24:VAL:CG2	7:DH:35:VAL:HB	2.49	0.42
27:D5:48:GLU:HG3	27:D5:59:GLU:CB	2.46	0.42
31:BA:321:A:C2	31:BA:333:G:C2	3.07	0.42
55:DA:609(A):G:C4	55:DA:610:C:C5	3.07	0.42
3:AD:186:HIS:HD2	3:AD:188:GLU:H	1.66	0.42
1:AA:211:A:H2'	1:AA:212:G:O4'	2.19	0.42
12:AP:141:GLN:HB3	12:AP:141:GLN:HE21	1.60	0.42
31:BA:597:G:H2'	31:BA:598:U:H5'	2.00	0.42
55:DA:746:A:C5	55:DA:2611:U:H5''	2.54	0.42
31:BA:743:U:H2'	31:BA:744:C:C6	2.54	0.42
48:CU:30:ASP:C	48:CU:32:ARG:N	2.72	0.42
54:CA:89:U:H2'	54:CA:90:C:O4'	2.20	0.42
1:AA:2088:G:H2'	1:AA:2089:U:O4'	2.19	0.42
1:AA:2707:G:C5'	13:A0:68:ARG:NH2	2.80	0.42
55:DA:236:C:H2'	55:DA:237:C:C6	2.54	0.42
31:BA:1251:A:O2'	31:BA:1252:A:H5'	2.19	0.42
31:BA:490:G:P	34:BG:132:ARG:HH22	2.42	0.42
55:DA:1788:C:OP1	3:DD:222:ARG:NH2	2.52	0.42
32:BE:107:THR:C	32:BE:109:SER:H	2.23	0.42
55:DA:2649:U:H2'	55:DA:2650:U:H6	1.83	0.42
42:CO:43:VAL:CG2	42:CO:44:THR:N	2.81	0.42
42:CO:127:GLU:N	42:CO:127:GLU:CD	2.72	0.42
1:AA:977:G:C6	1:AA:987:G:C6	3.08	0.42
54:CA:894:G:C6	54:CA:895:G:C6	3.08	0.42
34:CG:14:ARG:HD3	34:CG:14:ARG:O	2.19	0.42
54:CA:489:C:H2'	54:CA:490:G:C8	2.54	0.42
2:DB:34:U:H5''	2:DB:35:U:OP1	2.19	0.42
32:CE:25:ASN:O	32:CE:27:LYS:N	2.52	0.42
46:BS:19:ILE:CG2	46:BS:36:ILE:HG13	2.49	0.42
52:BD:67:C:H2'	52:BD:68:C:H6	1.84	0.42
31:BA:695:A:OP1	41:BN:52:GLY:HA3	2.19	0.42
55:DA:1707:G:H2'	55:DA:1708:C:H6	1.84	0.42
55:DA:730:C:H2'	55:DA:731:C:H6	1.82	0.42
1:AA:1261:C:H2'	1:AA:1262:A:O5'	2.20	0.42
36:BI:21:LEU:O	36:BI:24:GLU:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1055:G:O3'	57:DY:35:LYS:CD	2.68	0.42
55:DA:1071:G:O5'	55:DA:1071:G:H8	2.01	0.42
57:DY:88:ALA:C	56:DJ:15:ALA:CB	2.87	0.42
56:DI:28:LYS:O	56:DJ:2:ALA:HB1	2.19	0.42
58:DL:9:LYS:N	58:DL:9:LYS:CD	2.53	0.42
57:DY:36:GLU:O	57:DY:38:HIS:CE1	2.64	0.42
55:DA:1082:U:H2'	57:DY:41:ARG:NE	2.34	0.42
21:DV:198:LYS:O	21:DV:199:LYS:HB3	2.19	0.42
28:A6:15:GLU:HG3	28:A6:47:THR:HG21	2.00	0.42
43:BP:86:CYS:O	43:BP:89:GLY:N	2.52	0.42
52:CB:19:G:N2	52:CB:56:C:N3	2.67	0.42
46:CS:8:ARG:O	46:CS:9:PHE:CD2	2.70	0.42
54:CA:103:C:C4	54:CA:104:G:N7	2.88	0.42
3:DD:122:ASP:O	3:DD:123:ALA:O	2.37	0.42
28:D6:27:LYS:C	28:D6:28:ARG:HG2	2.39	0.42
20:DU:94:LYS:NZ	20:DU:101:LYS:HZ1	2.17	0.42
1:AA:1462:C:H2'	1:AA:1463:C:C6	2.54	0.42
4:AE:4:ILE:HG13	4:AE:28:ALA:HB1	2.00	0.42
4:AE:51:PHE:O	4:AE:74:PRO:HB2	2.19	0.42
55:DA:2627:G:N3	55:DA:2781:A:H2	2.17	0.42
9:DM:4:TYR:OH	9:DM:7:LYS:HE2	2.19	0.42
40:BM:24:VAL:HG21	40:BM:37:PRO:HG3	2.01	0.42
7:DH:143:GLN:O	7:DH:146:ALA:HB3	2.19	0.42
31:BA:890:G:O2'	31:BA:891:U:C5	2.70	0.42
54:CA:1129:C:N4	54:CA:1141:C:H41	2.18	0.42
33:CF:43:LEU:O	33:CF:47:LEU:HB3	2.19	0.42
32:CE:189:ASP:OD1	32:CE:205:ASP:CG	2.57	0.42
32:CE:30:ARG:HG2	32:CE:30:ARG:H	1.66	0.42
31:BA:1004:A:H2'	31:BA:1005:A:N3	2.34	0.42
11:DO:115:LEU:HB2	11:DO:131:SER:CB	2.44	0.42
55:DA:1020:A:H4'	55:DA:1021:A:O5'	2.18	0.42
21:AV:158:PRO:O	21:AV:159:PRO:C	2.57	0.42
31:BA:986:A:H4'	49:BV:55:LYS:HG3	2.01	0.42
1:AA:2675:A:H61	1:AA:2732:G:H1	1.68	0.42
4:DE:24:THR:OG1	4:DE:188:VAL:HG12	2.18	0.42
8:AK:110:ASP:OD2	8:AK:113:ARG:CB	2.64	0.42
21:AV:7:ALA:C	21:AV:8:TYR:HD2	2.23	0.42
20:AU:75:ILE:HG12	20:AU:76:CYS:H	1.85	0.42
23:AZ:78:LYS:CD	23:AZ:80:LEU:HD11	2.49	0.42
55:DA:1535:U:H2'	55:DA:1536:A:O5'	2.20	0.42
32:BE:18:GLY:O	32:BE:19:HIS:ND1	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:64:TYR:HB3	30:D8:65:GLU:H	1.43	0.42
55:DA:593:G:H1'	30:D8:4:MET:HE1	1.99	0.42
55:DA:594:U:P	30:D8:61:LEU:HD22	2.60	0.42
1:AA:28:A:C4	1:AA:513:A:C8	3.07	0.42
54:CA:191(B):G:C2'	54:CA:191(C):G:H5'	2.48	0.42
8:AK:5:LEU:HD23	8:AK:9:LEU:HD21	2.02	0.42
19:AT:11:PRO:HD2	24:AW:40:SER:OG	2.19	0.42
3:AD:108:PRO:HA	3:AD:196:VAL:O	2.19	0.42
55:DA:1173:G:H1'	55:DA:1175:U:C6	2.54	0.42
43:CP:87:TYR:C	43:CP:89:GLY:N	2.73	0.42
26:D4:50:VAL:O	26:D4:51:ASP:C	2.57	0.42
55:DA:1248:G:N2	5:DF:88:VAL:CG2	2.83	0.42
44:BQ:51:GLY:C	44:BQ:53:LEU:H	2.23	0.42
2:AB:9:G:H5'	14:AQ:25:ARG:NH2	2.34	0.42
25:DX:5:LYS:CE	25:DX:34:GLU:OE1	2.66	0.42
4:DE:200:GLU:O	4:DE:201:THR:C	2.57	0.42
31:BA:232:G:H1'	31:BA:262:A:N1	2.34	0.42
12:AP:21:THR:H	12:AP:98:LYS:HB3	1.84	0.42
3:DD:183:ARG:CG	3:DD:183:ARG:NH1	2.76	0.42
34:CG:61:LYS:HD2	34:CG:206:PHE:CE2	2.55	0.42
52:BC:1:G:H2'	52:BC:2:C:H6	1.84	0.42
45:CR:4:THR:HG1	45:CR:7:GLU:HB2	1.81	0.42
4:AE:137:HIS:CB	4:AE:138:PRO:CD	2.97	0.42
55:DA:654(I):C:O2	55:DA:654(I):C:C2'	2.66	0.42
55:DA:2213:U:H6	55:DA:2213:U:O5'	2.01	0.42
55:DA:2848:G:HO2'	55:DA:2849:U:P	2.42	0.42
46:CS:48:TRP:HZ2	46:CS:76:GLN:OE1	2.02	0.42
1:AA:228:A:H2'	1:AA:230:U:O4'	2.20	0.42
52:BC:7:A:O2'	52:BC:8:U:P	2.77	0.42
21:DV:172:ALA:O	21:DV:173:ALA:HB2	2.18	0.42
54:CA:869:G:H4'	54:CA:872:A:N9	2.33	0.42
8:DK:29:TYR:CD1	8:DK:33:ARG:NE	2.86	0.42
47:BT:66:SER:OG	47:BT:69:LYS:HB3	2.20	0.42
55:DA:614:U:C2'	55:DA:615:G:OP1	2.67	0.42
31:BA:577:G:O2'	31:BA:816:A:H2'	2.20	0.42
31:BA:327:A:O2'	31:BA:329:A:H5'	2.20	0.42
45:BR:75:PRO:O	45:BR:79:ARG:HG3	2.19	0.42
32:BE:41:ILE:CD1	32:BE:41:ILE:N	2.82	0.42
5:DF:133:ASN:O	5:DF:135:LYS:HB2	2.20	0.42
5:AF:51:THR:HG21	5:AF:92:PRO:HD2	2.01	0.42
16:D1:57:PHE:O	16:D1:58:ARG:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:433:C:H2'	55:DA:434:U:C6	2.54	0.42
32:CE:21:ARG:O	32:CE:22:LYS:HB2	2.19	0.42
36:CI:29:ALA:O	36:CI:30:LEU:C	2.58	0.42
55:DA:1367:A:H5'	55:DA:1368:G:OP2	2.19	0.42
15:DR:133:GLU:O	15:DR:135:ALA:N	2.52	0.42
13:A0:101:ALA:HB2	27:A5:44:THR:OG1	2.20	0.42
38:BK:123:GLU:O	38:BK:127:LEU:HD22	2.19	0.42
54:CA:1343:G:H1'	39:CL:121:ARG:NH1	2.33	0.42
32:CE:111:ARG:NH2	32:CE:114:ARG:HG2	2.35	0.42
1:AA:1473:G:H2'	1:AA:1474:C:H6	1.84	0.42
55:DA:1810:A:H8	55:DA:1810:A:O5'	2.02	0.42
31:BA:130:A:C8	47:BT:63:ARG:HG3	2.54	0.42
52:BC:68:C:H2'	52:BC:69:G:H8	1.84	0.42
47:BT:101:ARG:HG2	47:BT:101:ARG:NH2	2.35	0.42
1:AA:335:C:O2'	1:AA:336:C:H5'	2.19	0.42
25:DX:10:LYS:O	25:DX:53:LEU:HD22	2.19	0.42
43:BP:99:ARG:O	43:BP:100:GLY:C	2.57	0.42
1:AA:1685:C:H2'	1:AA:1686:C:H6	1.84	0.42
45:BR:72:ARG:NH1	45:BR:73:GLU:OE2	2.52	0.42
31:BA:671:G:H2'	31:BA:672:U:H6	1.84	0.42
45:CR:63:ARG:O	45:CR:67:LEU:HG	2.19	0.42
3:DD:174:ILE:HD12	3:DD:174:ILE:N	2.35	0.42
55:DA:1583:A:H2'	55:DA:1583:A:N3	2.34	0.42
1:AA:1644:C:H2'	1:AA:1644:C:O2	2.19	0.42
7:DH:45:VAL:O	7:DH:45:VAL:HG13	2.19	0.42
34:BG:175:SER:OG	34:BG:184:LYS:HB2	2.20	0.42
55:DA:1057:A:C6	55:DA:1086:A:H2	2.37	0.42
58:DL:19:PRO:CD	58:DL:38:VAL:HG11	2.44	0.42
57:DY:125:LEU:CD1	56:DJ:20:LEU:HD21	2.49	0.42
57:DY:13:LEU:O	57:DY:14:LYS:HE3	2.18	0.42
57:DY:25:PHE:CG	57:DY:82:PHE:CE2	2.93	0.42
1:AA:893:C:H4'	1:AA:894:C:OP1	2.20	0.42
43:BP:80:ARG:NH1	43:BP:80:ARG:HB3	2.34	0.42
1:AA:631:A:H2'	1:AA:632:A:C8	2.54	0.42
55:DA:880:G:C6	55:DA:881:G:N7	2.87	0.42
21:DV:117:LEU:O	21:DV:118:GLN:O	2.38	0.42
6:AG:6:ALA:HB3	26:A4:23:GLU:OE1	2.19	0.42
6:AG:89:GLY:C	6:AG:90:LEU:HD22	2.40	0.42
49:CV:42:PRO:O	49:CV:45:VAL:HG22	2.20	0.42
54:CA:978:A:C2	54:CA:1319:A:H1'	2.54	0.42
4:DE:34:VAL:O	4:DE:35:GLN:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DE:77:ILE:O	4:DE:78:LEU:C	2.55	0.42
8:AK:82:ARG:HG3	8:AK:82:ARG:NH1	2.30	0.42
46:CS:55:ARG:O	46:CS:56:ALA:C	2.57	0.42
28:D6:15:GLU:OE2	28:D6:44:ARG:NH2	2.53	0.42
20:DU:86:ARG:HD2	20:DU:86:ARG:HA	1.68	0.42
34:BG:16:GLY:CA	34:BG:33:MET:HE1	2.37	0.42
6:AG:47:LYS:HG3	6:AG:82:LEU:CD2	2.50	0.42
4:AE:55:ASN:C	4:AE:57:LYS:N	2.73	0.42
7:DH:111:HIS:CE1	7:DH:112:PRO:O	2.73	0.42
7:DH:88:LEU:O	7:DH:163:TYR:N	2.43	0.42
7:DH:89:ILE:O	7:DH:90:LYS:C	2.58	0.42
7:AH:6:ARG:C	7:AH:8:PRO:HD2	2.39	0.42
32:CE:70:PHE:HB3	32:CE:81:VAL:CG1	2.49	0.42
31:BA:1034:G:N2	31:BA:1035:A:C5	2.87	0.42
11:DO:139:LYS:HG3	11:DO:144:GLU:OE2	2.19	0.42
52:BD:21:A:C2	52:BD:46:G:O6	2.72	0.42
33:BF:199:LYS:HB3	33:BF:201:TYR:HE1	1.85	0.42
13:D0:90:ARG:HH21	13:D0:118:GLU:HA	1.83	0.42
6:DG:35:GLU:O	6:DG:36:LYS:HB3	2.19	0.42
6:DG:63:ILE:HG22	6:DG:144:ILE:HD11	2.02	0.42
37:BJ:16:LEU:O	37:BJ:17:VAL:CG2	2.67	0.42
21:AV:92:SER:C	21:AV:130:PRO:HG2	2.38	0.42
1:AA:1210:A:N3	1:AA:1212:G:N2	2.67	0.42
55:DA:2814:C:C6	55:DA:2815:C:C5	3.08	0.42
55:DA:2131:G:OP1	55:DA:2133:G:OP2	2.36	0.42
55:DA:1025:G:C4	55:DA:1135:C:H1'	2.55	0.42
55:DA:654(S):G:H2'	55:DA:654(T):A:O4'	2.20	0.42
18:AS:78:GLU:OE2	18:AS:99:ARG:HD2	2.19	0.42
50:CW:99:LEU:O	50:CW:100:ILE:HB	2.19	0.42
6:DG:58:GLN:HE22	6:DG:148:MET:HE1	1.84	0.42
24:AW:47:ASN:O	24:AW:50:ILE:CD1	2.68	0.42
15:AR:132:LYS:CB	15:AR:136:GLN:HE22	2.33	0.42
31:BA:1203:C:O5'	31:BA:1203:C:H6	2.03	0.42
42:BO:55:VAL:HG22	42:BO:69:TYR:HA	2.02	0.42
43:CP:87:TYR:HA	43:CP:90:LEU:CG	2.48	0.42
53:C1:36:G:H5'	53:C1:37:G:OP2	2.19	0.42
53:B1:53:U:C1'	53:B1:54:U:OP1	2.67	0.42
31:BA:549:C:C2	31:BA:550:G:C8	3.08	0.42
34:CG:161:ASN:O	34:CG:162:LEU:C	2.57	0.42
1:AA:1206:G:OP2	1:AA:1206:G:C8	2.73	0.42
34:CG:147:ALA:HB2	34:CG:182:LYS:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:990:A:C6	55:DA:1186:G:H1'	2.54	0.42
25:DX:7:LYS:HG3	25:DX:34:GLU:CG	2.49	0.42
7:AH:132:ARG:O	7:AH:133:VAL:HG23	2.18	0.42
34:BG:162:LEU:HD13	34:BG:181:MET:HG2	2.01	0.42
55:DA:2129:C:H2'	55:DA:2130:U:H5'	2.01	0.42
34:CG:13:ARG:HB2	34:CG:33:MET:CE	2.50	0.42
31:BA:15:G:H1'	35:BH:19:MET:HE2	2.00	0.42
35:BH:18:ARG:HG2	35:BH:19:MET:H	1.84	0.42
1:AA:2712:U:H1'	1:AA:2712(A):A:N7	2.35	0.42
55:DA:2431:U:C2	55:DA:2433:A:OP2	2.72	0.42
46:BS:49:LEU:CD1	46:BS:73:LEU:HD22	2.48	0.42
54:CA:112:G:C2'	54:CA:113:G:H5'	2.49	0.42
11:AO:124:LYS:HE3	11:AO:145:PRO:HD3	2.02	0.42
33:BF:91:LEU:C	33:BF:93:LYS:H	2.22	0.42
31:BA:740:U:O3'	45:BR:39:LEU:HD23	2.19	0.42
34:CG:170:VAL:HG22	34:CG:171:GLY:N	2.27	0.42
55:DA:784:A:C5	3:DD:229:VAL:CG2	3.02	0.42
1:AA:2313:C:H2'	1:AA:2314:C:H6	1.84	0.42
1:AA:2313:C:O4'	6:AG:40:ASN:OD1	2.37	0.42
39:CL:56:LEU:CD2	39:CL:57:GLY:N	2.83	0.42
15:AR:106:SER:O	15:AR:107:ASP:OD1	2.37	0.42
31:BA:790:A:C2	31:BA:1497:G:H5''	2.54	0.42
35:CH:48:ALA:HB1	35:CH:49:PRO:CD	2.49	0.42
54:CA:1508:G:O2'	54:CA:1509:C:H5'	2.19	0.42
55:DA:989:G:N7	25:DX:13:ILE:HD12	2.34	0.42
54:CA:419:C:C4	54:CA:420:U:H5	2.38	0.42
55:DA:1542:G:H5''	55:DA:1543:A:OP2	2.19	0.42
10:AN:120:GLU:CD	10:AN:122:LEU:HD21	2.40	0.42
54:CA:1074:G:O4'	32:CE:104:ASN:HB2	2.20	0.42
22:A3:11:ARG:NH1	52:BC:63:G:O3'	2.52	0.42
49:CV:30:LEU:N	49:CV:30:LEU:HD13	2.34	0.42
1:AA:1813:G:H1'	3:AD:50:THR:HG1	1.83	0.42
54:CA:1465:C:OP2	15:DR:108:ARG:NH1	2.42	0.42
54:CA:939:G:H5''	37:CJ:102:ARG:HH22	1.80	0.42
37:CJ:106:GLN:O	37:CJ:110:GLN:HG3	2.19	0.42
41:BN:23:ALA:HB1	41:BN:88:GLY:N	2.34	0.42
1:AA:1336:A:H2'	1:AA:1337:G:H8	1.84	0.42
38:CK:63:LEU:HD22	38:CK:63:LEU:H	1.85	0.42
2:DB:14:U:H4'	2:DB:106:G:H21	1.83	0.42
34:CG:135:LEU:N	34:CG:135:LEU:HD22	2.32	0.42
12:DP:38:GLU:OE2	12:DP:128:LYS:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:106:LEU:HA	6:AG:110:ALA:HB3	2.02	0.42
1:AA:206:U:H6	1:AA:206:U:O5'	2.02	0.42
55:DA:2603:G:H4'	55:DA:2603:G:OP2	2.20	0.42
41:CN:120:ARG:HA	41:CN:121:PRO:HD3	1.92	0.42
37:CJ:57:GLU:O	37:CJ:58:PRO:C	2.58	0.42
48:BU:36:ASN:ND2	48:BU:39:VAL:CG2	2.83	0.42
54:CA:1275:A:O2'	54:CA:1276:G:H5'	2.19	0.42
30:D8:8:LYS:HB3	30:D8:12:LYS:HE3	2.01	0.42
55:DA:198:C:H5'	55:DA:2244:U:OP1	2.19	0.42
1:AA:548:A:H2'	1:AA:549:G:C5'	2.49	0.42
42:BO:22:SER:C	42:BO:24:VAL:N	2.73	0.42
39:BL:27:THR:HG23	39:BL:31:GLN:H	1.84	0.42
10:DN:26:LYS:HB2	10:DN:30:ALA:CB	2.48	0.42
55:DA:1830:C:O2'	55:DA:1831:G:H5'	2.19	0.42
15:DR:29:ARG:NH1	15:DR:89:VAL:HG11	2.35	0.42
54:CA:119:A:O2'	54:CA:120:A:OP2	2.24	0.42
32:CE:25:ASN:OD1	32:CE:27:LYS:HB2	2.19	0.42
34:BG:79:PHE:CE1	34:BG:204:ILE:HD13	2.54	0.42
1:AA:1507:A:N3	1:AA:1508:A:H1'	2.34	0.42
55:DA:740:U:H2'	55:DA:741:G:H8	1.85	0.42
1:AA:11:G:O2'	1:AA:12:U:H5'	2.20	0.42
32:CE:105:PHE:HE1	32:CE:152:PHE:CE1	2.38	0.42
8:DK:81:VAL:HG22	8:DK:143:SER:O	2.19	0.42
55:DA:2266:A:H4'	55:DA:2267:A:C2	2.55	0.42
31:BA:899:C:H2'	31:BA:900:A:O4'	2.19	0.42
20:AU:24:VAL:HG12	20:AU:25:GLY:N	2.35	0.42
13:A0:59:ASP:OD1	13:A0:61:HIS:HB3	2.19	0.42
1:AA:2617:C:C4	1:AA:2618:G:N7	2.88	0.42
1:AA:1961:C:H5'	31:BA:1484:C:O2'	2.20	0.42
16:A1:111:GLU:O	16:A1:112:ARG:C	2.57	0.42
7:DH:85:LYS:HD2	7:DH:85:LYS:HA	1.71	0.42
12:DP:48:GLU:HA	12:DP:48:GLU:OE1	2.19	0.42
55:DA:1343:G:N3	55:DA:1343:G:H2'	2.33	0.42
54:CA:1197:G:H5'	54:CA:1197:G:C8	2.54	0.42
10:AN:119:PRO:HB2	15:AR:68:TYR:CE2	2.54	0.42
31:BA:1154:G:N3	31:BA:1155:G:C8	2.87	0.42
55:DA:1092:C:H2'	55:DA:1093:G:H5'	2.01	0.42
56:DJ:10:GLU:OE2	56:DJ:19:GLU:OE2	2.37	0.42
58:DL:52:ILE:HG13	58:DL:53:VAL:H	1.82	0.42
57:DY:4:LYS:HB3	57:DY:5:ARG:CD	2.49	0.42
57:DY:73:GLY:HA3	57:DY:112:LEU:HD12	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:74:LEU:HD11	57:DY:75:GLN:HG2	2.00	0.42
31:BA:1232:U:P	39:BL:126:SER:HG	2.42	0.42
31:BA:1362:C:H2'	31:BA:1362(A):C:H5''	2.00	0.42
12:AP:84:GLY:HA2	22:A3:10:THR:HG21	2.01	0.42
55:DA:897:C:O2	55:DA:898:C:H1'	2.20	0.42
43:BP:3:ARG:HD2	43:BP:9:ILE:CD1	2.29	0.42
26:D4:61:ARG:C	26:D4:63:TYR:N	2.70	0.42
40:BM:75:ILE:CG1	40:BM:76:ASN:H	2.31	0.42
20:DU:50:ARG:CA	20:DU:53:PRO:HD2	2.49	0.42
20:DU:42:VAL:HG12	20:DU:65:ALA:H	1.83	0.42
54:CA:953:G:N7	43:CP:104:ARG:NH2	2.59	0.42
54:CA:976:G:H2'	54:CA:1362:C:N3	2.34	0.42
1:AA:387:U:C4'	1:AA:388:G:O5'	2.63	0.42
55:DA:2287:A:C2'	55:DA:2288:A:H3'	2.49	0.42
16:A1:92:ARG:CG	16:A1:94:ASN:HB3	2.37	0.42
54:CA:109:A:C8	54:CA:326:G:H2'	2.54	0.42
17:A2:78:LYS:HB3	17:A2:78:LYS:HE2	1.82	0.42
17:A2:79:VAL:HG23	17:A2:80:GLN:N	2.33	0.42
9:DM:39:ARG:CB	9:DM:39:ARG:HH11	2.32	0.42
50:CW:36:LEU:HB3	50:CW:59:ALA:HB2	2.02	0.42
32:CE:88:ALA:HB2	32:CE:219:VAL:CG1	2.49	0.42
11:DO:127:ALA:HB3	11:DO:130:PHE:CE2	2.54	0.42
52:BD:21:A:H61	52:BD:46:G:H22	1.66	0.42
31:BA:1528:U:HO2'	31:BA:1529:G:H5''	1.77	0.42
21:DV:6:LYS:HB2	21:DV:7:ALA:H	1.66	0.42
17:D2:44:LYS:O	17:D2:46:VAL:HG12	2.20	0.42
8:DK:78:THR:HG22	8:DK:141:LYS:HD2	2.00	0.42
54:CA:1157:A:OP1	54:CA:1157:A:O4'	2.37	0.42
37:BJ:44:TYR:C	37:BJ:46:ALA:N	2.71	0.42
21:AV:56:VAL:C	21:AV:57:ILE:HD12	2.40	0.42
21:AV:60:GLU:O	21:AV:65:GLN:C	2.58	0.42
1:AA:2657:A:H2'	1:AA:2658:C:C5'	2.46	0.42
1:AA:2657:A:C2'	1:AA:2658:C:H5'	2.48	0.42
7:AH:93:GLY:C	7:AH:94:TYR:HD1	2.23	0.42
31:BA:872:A:C4	31:BA:874:G:N7	2.88	0.42
1:AA:2258:C:C2'	1:AA:2427:C:OP2	2.68	0.42
30:D8:6:THR:HG22	30:D8:63:PRO:CD	2.50	0.42
1:AA:27:G:O2'	1:AA:28:A:O5'	2.38	0.42
15:DR:105:LEU:CG	15:DR:105:LEU:O	2.63	0.42
20:AU:6:HIS:NE2	20:AU:72:VAL:CG2	2.83	0.42
55:DA:1907:G:H2'	55:DA:1908:C:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1925:C:N3	55:DA:1929:G:N2	2.67	0.42
55:DA:590:A:OP1	5:DF:95:ARG:NH1	2.52	0.42
8:DK:11:ASN:C	8:DK:12:LEU:HD13	2.40	0.42
1:AA:1085:A:O2'	1:AA:1086:A:OP1	2.36	0.42
26:D4:49:PHE:N	26:D4:49:PHE:CD1	2.84	0.42
7:DH:19:VAL:CG1	7:DH:20:ALA:H	2.32	0.42
54:CA:407:G:OP1	34:CG:115:ARG:CZ	2.67	0.42
40:CM:51:ARG:HG3	40:CM:60:ARG:O	2.20	0.42
55:DA:1384:A:H1'	55:DA:1405:U:O4'	2.20	0.42
1:AA:1246:A:H5''	11:AO:15:ARG:HH12	1.84	0.42
40:BM:52:GLY:O	44:BQ:42:ILE:HD11	2.19	0.42
7:AH:122:THR:O	7:AH:123:PHE:CD2	2.72	0.42
50:BW:72:LEU:HD23	50:BW:72:LEU:C	2.40	0.42
31:BA:1524:C:OP1	41:BN:120:ARG:NH1	2.38	0.42
48:CU:58:LEU:HB3	48:CU:62:GLU:HB3	2.01	0.42
17:A2:4:ILE:HA	17:A2:12:TYR:O	2.19	0.42
8:DK:96:ASP:C	8:DK:98:ALA:N	2.71	0.42
32:BE:33:TYR:HB2	32:BE:43:ASP:HA	2.02	0.42
55:DA:1735:C:C6	55:DA:1735:C:C5'	2.98	0.42
6:DG:53:LEU:CD2	6:DG:54:GLU:N	2.77	0.42
54:CA:642:A:H2'	54:CA:643:C:C6	2.54	0.42
3:AD:17:THR:O	3:AD:211:ARG:NH2	2.52	0.42
1:AA:2711:A:C8	1:AA:2714:G:H1'	2.54	0.42
1:AA:13:A:O2'	1:AA:14:A:N7	2.53	0.42
36:CI:15:ASP:OD1	36:CI:17:SER:HB3	2.20	0.42
55:DA:943:U:OP2	11:DO:36:LYS:NZ	2.52	0.42
31:BA:1408:A:C5	31:BA:1409:C:C5	3.08	0.42
46:BS:40:ASP:O	46:BS:48:TRP:HB2	2.19	0.42
15:DR:33:LYS:HG3	15:DR:82:LEU:O	2.20	0.42
32:BE:153:ARG:HB2	32:BE:154:LEU:H	1.56	0.42
31:BA:210:U:H1'	31:BA:216:G:C8	2.55	0.42
25:AX:30:ARG:O	25:AX:33:GLN:HB3	2.20	0.42
1:AA:2814:C:C6	1:AA:2815:C:C5	3.07	0.42
6:DG:61:ALA:HA	6:DG:64:THR:HG23	2.02	0.42
54:CA:141:A:C1'	54:CA:182:U:O2	2.62	0.42
55:DA:2565:A:H62	10:DN:28:SER:CB	2.33	0.42
54:CA:197:A:C6	54:CA:221:C:H4'	2.54	0.42
1:AA:1729:A:C6	1:AA:1731:G:C5	3.08	0.42
15:DR:76:PHE:HA	15:DR:77:PRO:HD3	1.77	0.42
54:CA:538:G:OP1	42:CO:113:ARG:HD2	2.19	0.42
31:BA:1032:A:N7	31:BA:1032(A):G:H1'	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:962:G:H2'	55:DA:963:U:H6	1.85	0.42
55:DA:1281:G:H5'	55:DA:1281:G:H8	1.84	0.42
38:BK:86:ILE:CB	38:BK:133:LEU:HD22	2.50	0.42
1:AA:2864:G:H2'	1:AA:2865:U:C6	2.55	0.42
54:CA:913:A:O2'	54:CA:914:A:P	2.77	0.42
30:D8:42:ARG:HH11	30:D8:42:ARG:HG2	1.84	0.42
31:BA:1064:G:O4'	31:BA:1066:C:H1'	2.20	0.42
14:DQ:52:SER:O	14:DQ:56:LEU:HD22	2.19	0.42
31:BA:1000:A:O2'	31:BA:1001:G:H5''	2.19	0.42
1:AA:1694:C:O2'	1:AA:1695:G:H5''	2.19	0.42
4:DE:137:HIS:CB	4:DE:138:PRO:HD2	2.47	0.42
54:CA:715:A:H5''	54:CA:805:C:H1'	2.02	0.42
37:BJ:69:VAL:HA	37:BJ:138:LYS:HD2	2.01	0.42
5:AF:21:ALA:HB3	5:AF:23:ASP:OD2	2.19	0.42
35:CH:152:ARG:HB3	38:CK:43:GLY:HA3	2.00	0.42
32:CE:29:ALA:CA	32:CE:32:ILE:HG22	2.50	0.42
37:CJ:26:PHE:HA	37:CJ:101:LEU:HD13	2.02	0.42
26:A4:15:ILE:CD1	26:A4:15:ILE:H	2.32	0.42
18:DS:95:ILE:HG13	18:DS:95:ILE:H	1.71	0.42
55:DA:1548:C:H2'	55:DA:1549:C:H6	1.84	0.42
55:DA:2439:A:H1'	55:DA:2587:A:OP1	2.19	0.42
55:DA:2640:G:C6	55:DA:2775:A:C2	3.08	0.42
1:AA:2861:G:C4	1:AA:2862:G:C8	3.08	0.42
1:AA:2025:C:H2'	1:AA:2026:C:C6	2.55	0.42
54:CA:671:G:H2'	54:CA:672:U:C6	2.53	0.42
21:DV:35:ARG:HH11	21:DV:35:ARG:HB2	1.84	0.42
1:AA:1837:C:O2	1:AA:1927:A:H2	2.02	0.42
37:CJ:65:ALA:O	37:CJ:69:VAL:HG23	2.19	0.42
27:A5:51:TYR:HB3	27:A5:52:TYR:H	1.45	0.42
37:CJ:59:LEU:O	37:CJ:62:PHE:HB3	2.19	0.42
52:CD:27:G:H2'	52:CD:28:G:C8	2.54	0.42
45:CR:62:GLN:O	45:CR:63:ARG:C	2.57	0.42
1:AA:698:C:O2'	1:AA:734:A:N6	2.51	0.42
31:BA:612:C:O3'	34:BG:84:LYS:NZ	2.53	0.42
31:BA:323:U:O4'	50:BW:19:SER:HB2	2.20	0.42
5:AF:41:LEU:O	5:AF:44:ARG:HG2	2.19	0.42
19:DT:21:PHE:N	19:DT:21:PHE:CD2	2.88	0.42
42:BO:43:VAL:HG23	42:BO:44:THR:N	2.34	0.42
37:CJ:138:LYS:HE2	37:CJ:142:GLU:OE2	2.19	0.42
1:AA:1423:G:H2'	1:AA:1424:G:H8	1.85	0.42
35:BH:7:GLU:OE1	35:BH:37:ARG:NH2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AR:12:SER:O	15:AR:15:VAL:HG22	2.19	0.42
55:DA:1062:G:C1'	55:DA:1088:A:C5	3.03	0.42
55:DA:1079:C:C6	55:DA:1079:C:C5'	3.02	0.42
55:DA:1080:A:N3	58:DL:126:MET:HG3	2.35	0.42
57:DY:69:PRO:N	57:DY:114:GLY:O	2.52	0.42
57:DY:29:TYR:CE2	57:DY:32:LEU:CD2	3.02	0.42
55:DA:1107:G:H4'	57:DY:30:GLN:HE22	1.84	0.42
57:DY:38:HIS:CG	57:DY:40:LEU:HB3	2.55	0.42
57:DY:54:ALA:HB3	57:DY:58:LEU:HD21	2.02	0.42
57:DY:22:GLY:O	57:DY:67:GLY:O	2.38	0.42
57:DY:71:LEU:CD2	57:DY:72:ASP:N	2.64	0.42
21:AV:141:VAL:HG22	21:AV:144:LEU:CB	2.50	0.42
52:BB:18:G:O2'	52:BB:19:G:P	2.77	0.42
1:AA:958:U:OP2	12:AP:14:ARG:NH1	2.53	0.42
2:AB:82:G:C2'	2:AB:83:G:H5'	2.49	0.42
12:AP:1:MET:O	12:AP:3:MET:N	2.53	0.42
21:DV:141:VAL:C	21:DV:143:GLY:N	2.72	0.42
54:CA:632:A:H3'	54:CA:633:G:C8	2.50	0.42
54:CA:74:C:N4	54:CA:75:C:C4	2.87	0.42
3:DD:85:ASP:HB2	3:DD:92:ILE:CG1	2.49	0.42
26:A4:34:GLU:OE1	43:BP:3:ARG:CB	2.67	0.42
15:AR:20:PRO:HD2	15:AR:86:ILE:HG23	2.02	0.42
20:DU:48:ALA:CB	20:DU:61:ILE:HD13	2.49	0.42
54:CA:1051:C:H2'	54:CA:1052:U:C6	2.54	0.42
55:DA:2787:C:H1'	4:DE:62:PRO:CD	2.41	0.42
4:DE:52:LEU:HD13	4:DE:75:VAL:HG23	2.01	0.42
14:DQ:111:GLU:C	14:DQ:112:PHE:CD1	2.93	0.42
4:AE:35:GLN:HB2	4:AE:48:GLN:NE2	2.35	0.42
4:AE:32:PRO:HD2	4:AE:51:PHE:H	1.85	0.42
9:DM:95:PRO:O	9:DM:96:GLU:CG	2.68	0.42
32:CE:215:LEU:O	32:CE:219:VAL:HG23	2.20	0.42
52:BC:74:C:H2'	52:BC:74:C:O2	2.20	0.42
11:DO:115:LEU:C	11:DO:115:LEU:HD12	2.39	0.42
55:DA:1267:U:C5	55:DA:2012:G:C2	3.08	0.42
55:DA:747:U:O2'	18:DS:88:ARG:HG3	2.19	0.42
17:D2:47:VAL:HG13	17:D2:48:GLY:H	1.85	0.42
31:BA:1517:G:H2'	31:BA:1518:A:H8	1.85	0.42
55:DA:886:C:O2	55:DA:887:A:C6	2.72	0.42
17:D2:35:LEU:N	17:D2:35:LEU:CD2	2.81	0.42
37:BJ:50:ILE:C	37:BJ:52:GLU:N	2.73	0.42
54:CA:1308:U:H5"	43:CP:98:VAL:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:397:A:H2'	31:BA:399:G:OP2	2.20	0.42
1:AA:1210:A:H5''	1:AA:1211:U:O5'	2.20	0.42
20:AU:84:ARG:CZ	20:AU:97:ARG:HB2	2.48	0.42
7:AH:155:SER:O	7:AH:156:ALA:C	2.57	0.42
5:AF:114:VAL:O	5:AF:115:ALA:C	2.57	0.42
54:CA:129(A):G:H1'	54:CA:190:G:H5'	2.02	0.42
9:AM:131:GLN:NE2	9:AM:132:ALA:CB	2.83	0.42
55:DA:2308:G:H2'	55:DA:2310:A:C2	2.54	0.42
3:AD:35:LYS:HE3	3:AD:63:ARG:C	2.40	0.42
1:AA:141:A:H5''	1:AA:141(A):C:C5	2.55	0.42
50:CW:97:ALA:O	50:CW:99:LEU:N	2.45	0.42
29:D7:8:ASN:ND2	29:D7:10:ARG:H	2.18	0.42
4:AE:201:THR:C	4:AE:202:LYS:HE3	2.40	0.42
5:AF:178:PRO:HB3	5:AF:198:ALA:CB	2.48	0.42
31:BA:1179:A:H2'	31:BA:1180:A:O4'	2.19	0.42
39:BL:46:ALA:C	39:BL:48:GLU:H	2.21	0.42
33:CF:173:VAL:N	33:CF:174:PRO:HD3	2.34	0.42
10:AN:104:ARG:HH22	10:AN:107:ARG:HH21	1.66	0.42
31:BA:1309:G:O2'	43:BP:77:ASN:ND2	2.52	0.42
35:BH:80:ILE:HG22	38:BK:104:ARG:NH2	2.34	0.42
31:BA:1051:C:H2'	31:BA:1052:U:C6	2.55	0.42
33:BF:156:ARG:HD2	33:BF:193:TYR:CD1	2.55	0.42
1:AA:1699:G:C6	1:AA:1763:G:N3	2.87	0.42
33:BF:113:ALA:O	33:BF:115:LEU:N	2.52	0.42
55:DA:588:U:C2	5:DF:90:PHE:CD1	3.07	0.42
6:AG:115:ARG:CZ	6:AG:115:ARG:HB3	2.49	0.42
43:BP:23:TYR:CD1	43:BP:71:ARG:CZ	3.02	0.42
34:CG:112:VAL:HG13	34:CG:113:SER:N	2.31	0.42
54:CA:1191:A:P	33:CF:3:ASN:ND2	2.93	0.42
31:BA:673:G:H2'	31:BA:674:G:H8	1.74	0.42
55:DA:729:G:C6	3:DD:208:LYS:HB2	2.55	0.42
7:AH:87:LEU:O	7:AH:131:VAL:HB	2.19	0.42
7:AH:13:LYS:HB3	7:AH:13:LYS:HZ2	1.83	0.42
7:AH:149:ARG:C	7:AH:151:ILE:N	2.73	0.42
31:BA:511:C:O2'	31:BA:512:U:OP2	2.30	0.42
31:BA:231:G:O2'	31:BA:232:G:H5'	2.19	0.42
43:CP:108:ARG:HH11	43:CP:108:ARG:HG3	1.85	0.42
31:BA:1524:C:H2'	31:BA:1525:G:C8	2.55	0.42
3:DD:147:LEU:HD12	3:DD:147:LEU:HA	1.72	0.42
10:AN:23:ARG:HH11	10:AN:23:ARG:CG	2.33	0.42
8:AK:40:THR:O	8:AK:44:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2127:G:H21	55:DA:2173:A:H1'	1.84	0.42
1:AA:855:G:H2'	1:AA:856:C:H6	1.85	0.42
34:CG:3:ARG:O	34:CG:4:TYR:C	2.57	0.42
3:AD:132:PRO:HD2	3:AD:135:PHE:HD1	1.84	0.42
38:CK:34:GLU:HB3	38:CK:118:VAL:CG2	2.41	0.42
31:BA:201:C:C4	31:BA:209:U:C6	3.07	0.42
54:CA:48:C:H6	54:CA:365:U:O4	2.03	0.42
1:AA:363(F):A:C5'	1:AA:364:C:OP1	2.61	0.42
54:CA:181:G:O2'	54:CA:182:U:H6	2.03	0.42
43:BP:90:LEU:CD1	49:BV:78:ARG:HE	2.32	0.42
34:CG:129:ASN:H	34:CG:145:GLU:HB2	1.79	0.42
6:DG:2:PRO:C	6:DG:4:ASP:N	2.73	0.42
50:BW:64:ASP:OD1	50:BW:81:LYS:HD2	2.20	0.42
55:DA:511:U:O4	55:DA:512:G:C2	2.73	0.42
31:BA:1101:A:H4'	31:BA:1102:A:H4'	2.00	0.42
14:AQ:78:LEU:HD21	14:AQ:108:GLY:HA3	2.02	0.42
31:BA:31:G:C2'	31:BA:32:A:O5'	2.68	0.42
33:CF:78:GLY:HA3	33:CF:83:ARG:CB	2.50	0.42
21:AV:118:GLN:HE21	21:AV:118:GLN:HA	1.82	0.42
1:AA:2187:G:C2'	1:AA:2188:C:H5'	2.50	0.42
1:AA:1878:G:H2'	1:AA:1879:C:C6	2.55	0.42
22:D3:25:ARG:HA	22:D3:29:GLN:HE22	1.82	0.42
54:CA:658:G:C4	54:CA:659:U:C5	3.08	0.42
38:BK:83:ILE:O	38:BK:83:ILE:HG23	2.18	0.42
6:DG:126:ASP:OD2	6:DG:130:ASN:HB2	2.20	0.42
55:DA:753:C:O5'	55:DA:753:C:H6	2.02	0.42
32:BE:236:TYR:HB2	32:BE:239:VAL:HB	2.02	0.42
38:CK:83:ILE:CG1	38:CK:137:VAL:HG22	2.45	0.42
5:DF:59:TYR:N	5:DF:59:TYR:CD2	2.85	0.42
55:DA:171:G:H2'	55:DA:172:C:H6	1.84	0.42
12:AP:66:ILE:C	12:AP:68:ILE:H	2.22	0.42
12:AP:66:ILE:O	12:AP:68:ILE:N	2.53	0.42
55:DA:2770:G:C5'	55:DA:2771:C:OP2	2.68	0.42
50:BW:13:LEU:HD12	50:BW:13:LEU:H	1.82	0.42
21:AV:12:GLY:C	21:AV:13:GLU:CG	2.87	0.42
13:A0:41:ALA:C	13:A0:43:GLU:N	2.73	0.42
55:DA:2754:U:H5'	55:DA:2755:C:P	2.59	0.42
1:AA:1912:A:C8	1:AA:1918:A:C2	3.08	0.42
9:DM:26:LEU:O	9:DM:27:ALA:C	2.57	0.42
55:DA:324:A:N6	55:DA:338:G:O2'	2.53	0.42
31:BA:346:G:N2	31:BA:347:G:C8	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:20:VAL:CG2	18:AS:21:VAL:N	2.82	0.42
4:DE:175:VAL:O	4:DE:175:VAL:HG22	2.19	0.42
16:D1:76:TYR:C	16:D1:76:TYR:CD2	2.92	0.42
31:BA:692:U:H5	41:BN:26:ASN:OD1	2.02	0.42
54:CA:342:C:H2'	54:CA:343:U:O4'	2.18	0.42
41:CN:102:GLY:O	41:CN:103:LEU:C	2.58	0.42
23:DZ:40:ARG:NH2	23:DZ:42:GLN:HG2	2.35	0.42
13:A0:18:LEU:CD1	13:A0:22:ARG:NE	2.82	0.42
1:AA:783:A:H3'	1:AA:783:A:C8	2.54	0.42
54:CA:1081:G:P	35:CH:16:THR:OG1	2.78	0.42
13:A0:101:ALA:HB2	27:A5:44:THR:HB	2.02	0.42
55:DA:931:G:H2'	55:DA:932:G:H5''	2.02	0.42
4:DE:107:THR:O	4:DE:107:THR:HG22	2.19	0.42
18:DS:11:ARG:HH21	18:DS:99:ARG:N	2.18	0.42
54:CA:119:A:H4'	54:CA:120:A:O5'	2.19	0.42
31:BA:357:G:O2'	31:BA:358:U:H5'	2.19	0.42
1:AA:1195:G:C2'	1:AA:1196:C:H5'	2.50	0.42
52:CC:14:A:H2'	52:CC:15:G:H5'	2.02	0.42
23:DZ:8:SER:HB3	23:DZ:66:HIS:CG	2.54	0.42
33:CF:110:ASN:O	33:CF:141:VAL:HG13	2.20	0.42
31:BA:1425:U:H2'	31:BA:1426:C:H6	1.84	0.42
8:DK:81:VAL:O	8:DK:83:ALA:N	2.52	0.42
3:AD:75:ILE:HG21	3:AD:99:ASP:HB2	2.00	0.42
55:DA:1817:G:P	3:DD:88:ARG:HH22	2.42	0.42
55:DA:1575:C:H2'	55:DA:1576:U:C6	2.55	0.42
31:BA:581:G:N1	31:BA:759:A:OP2	2.51	0.42
1:AA:2195:C:O2'	1:AA:2196:C:H5'	2.20	0.42
55:DA:1082:U:C3'	58:DL:117:THR:CG2	2.98	0.42
58:DL:112:MET:HE3	58:DL:118:THR:HA	2.02	0.42
57:DY:71:LEU:CB	57:DY:113:GLN:CA	2.96	0.42
52:BB:58:A:O2'	52:BB:59:U:P	2.78	0.42
31:BA:1211:U:H5'	31:BA:1212:U:OP1	2.20	0.42
1:AA:2285:C:H5''	1:AA:2286:A:OP2	2.19	0.42
1:AA:2415:G:C5	1:AA:2416:C:C5	3.08	0.42
1:AA:954:G:H2'	1:AA:2274:A:H2	1.84	0.42
1:AA:959:A:N1	1:AA:960:A:C2	2.88	0.42
12:AP:42:ILE:CD1	12:AP:97:VAL:HB	2.49	0.42
21:DV:106:GLY:O	21:DV:107:THR:CG2	2.67	0.42
31:BA:887:G:C3'	31:BA:888:G:C5'	2.94	0.42
3:DD:165:ILE:HG23	3:DD:173:VAL:HG21	2.01	0.42
3:DD:39:LYS:HB2	3:DD:62:TYR:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DZ:91:LYS:O	23:DZ:92:LYS:C	2.58	0.42
15:AR:90:GLN:CA	15:AR:90:GLN:NE2	2.74	0.42
27:D5:55:ARG:C	27:D5:57:VAL:N	2.73	0.42
44:CQ:36:PHE:HD1	44:CQ:37:PHE:N	2.18	0.42
4:DE:196:VAL:C	4:DE:197:ILE:CG2	2.88	0.42
4:DE:27:LEU:HD23	4:DE:27:LEU:O	2.20	0.42
8:AK:81:VAL:HG12	8:AK:82:ARG:O	2.19	0.42
46:CS:74:LEU:HB3	46:CS:80:PHE:HE1	1.84	0.42
8:DK:128:LEU:HD13	8:DK:128:LEU:C	2.39	0.42
55:DA:695:G:H4'	55:DA:1380:G:H5'	2.02	0.42
55:DA:2348:U:O4	55:DA:2382:G:C2	2.73	0.42
16:A1:97:ASP:O	16:A1:98:LEU:O	2.37	0.42
9:AM:43:THR:O	9:AM:46:VAL:HG12	2.19	0.42
1:AA:1906:G:C2	1:AA:1925:C:C2	3.08	0.42
34:BG:19:LEU:HD12	34:BG:19:LEU:H	1.85	0.42
7:AH:4:ILE:HD11	7:AH:7:LEU:CB	2.49	0.42
1:AA:2443:C:H2'	1:AA:2444:G:H8	1.85	0.42
1:AA:2534:A:H2'	1:AA:2535:G:O4'	2.20	0.42
32:CE:235:SER:C	32:CE:237:ALA:N	2.69	0.42
32:CE:78:GLN:O	32:CE:79:ASP:C	2.58	0.42
32:CE:86:GLU:O	32:CE:88:ALA:N	2.49	0.42
1:AA:811:U:O2'	1:AA:1250:G:H2'	2.20	0.42
3:AD:147:LEU:HD11	3:AD:183:ARG:NH1	2.35	0.42
55:DA:1142(A):A:C4	55:DA:1144:G:C8	3.08	0.42
6:DG:99:MET:HE2	6:DG:103:LEU:HD12	2.01	0.42
6:DG:7:LEU:CD2	6:DG:176:LEU:HD22	2.36	0.42
6:DG:122:PRO:HG3	6:DG:182:LYS:OXT	2.20	0.42
8:AK:101:LEU:O	8:AK:102:SER:HB3	2.19	0.42
21:AV:53:ILE:HA	21:AV:70:LEU:HD21	2.01	0.42
55:DA:2814:C:C5	55:DA:2815:C:C5	3.08	0.42
37:BJ:79:ARG:HG3	37:BJ:84:ASN:ND2	2.35	0.42
55:DA:1797:C:O2'	3:DD:259:THR:HB	2.19	0.42
3:AD:24:ILE:O	3:AD:25:THR:HG22	2.19	0.42
19:AT:35:THR:O	19:AT:39:ILE:HD13	2.20	0.42
15:DR:107:ASP:O	15:DR:109:GLU:N	2.53	0.42
1:AA:685:A:N1	1:AA:787:U:H1'	2.34	0.42
8:AK:7:GLU:HG3	8:AK:9:LEU:H	1.84	0.42
31:BA:562:C:O2'	42:BO:15:ARG:CB	2.53	0.42
24:AW:40:SER:C	24:AW:42:GLY:N	2.71	0.42
24:AW:43:GLN:O	24:AW:44:LEU:CG	2.62	0.42
37:CJ:109:ASN:OD1	37:CJ:119:ARG:NH2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:DR:49:VAL:CG1	15:DR:49:VAL:O	2.68	0.42
37:CJ:25:ALA:HA	37:CJ:28:ASN:HD22	1.84	0.42
35:CH:92:LYS:O	35:CH:118:ILE:HD12	2.18	0.42
8:DK:56:LYS:HG3	8:DK:57:ARG:N	2.34	0.42
31:BA:316:G:C2	31:BA:338:A:C2	3.07	0.42
18:AS:65:LEU:HD13	18:AS:67:ASP:HB2	2.00	0.42
43:BP:73:GLU:OE1	43:BP:77:ASN:ND2	2.50	0.42
11:AO:101:VAL:CG1	11:AO:102:ARG:N	2.83	0.42
54:CA:92:G:H5'	54:CA:92:G:H8	1.85	0.42
54:CA:92:G:H2'	54:CA:93:U:C6	2.55	0.42
17:D2:24:LYS:HA	17:D2:92:THR:HG23	2.01	0.42
31:BA:1054:C:N4	52:BB:34:G:H1'	2.35	0.42
5:DF:9:ILE:CD1	5:DF:125:LEU:HG	2.37	0.42
33:BF:115:LEU:O	33:BF:118:GLN:N	2.52	0.42
53:C1:55:U:O2'	53:C1:56:U:N1	2.53	0.42
33:CF:131:ARG:CG	33:CF:131:ARG:HH11	2.30	0.42
21:AV:120:ILE:O	21:AV:121:HIS:CB	2.68	0.42
54:CA:1443:G:N2	55:DA:2864:G:OP1	2.44	0.42
34:CG:157:LEU:CD1	34:CG:161:ASN:HD21	2.32	0.42
48:BU:84:LYS:CE	48:BU:84:LYS:HA	2.41	0.42
33:BF:41:GLY:O	33:BF:45:LYS:HE3	2.19	0.42
1:AA:750:A:C2	1:AA:753:C:C6	3.08	0.42
42:CO:64:TYR:HB3	42:CO:65:GLU:H	1.55	0.42
17:A2:23:GLU:O	17:A2:92:THR:HB	2.20	0.42
31:BA:652:U:O2'	31:BA:653:A:C5'	2.67	0.42
35:CH:137:GLU:N	35:CH:140:ARG:HH12	2.18	0.42
32:BE:32:ILE:HG12	32:BE:40:HIS:CD2	2.55	0.42
54:CA:405:U:H5''	54:CA:495:A:C2	2.53	0.42
1:AA:1566:A:OP1	3:AD:211:ARG:NH1	2.52	0.42
12:AP:54:MET:HG3	12:AP:54:MET:H	1.65	0.42
31:BA:1240:U:C2'	31:BA:1241:G:OP1	2.68	0.42
31:BA:554:C:H2'	31:BA:555:C:C6	2.55	0.42
54:CA:372:C:H2'	54:CA:372:C:O2	2.19	0.42
54:CA:390:C:O5'	54:CA:390:C:H6	2.03	0.42
2:AB:109:G:C4	2:AB:110:G:C8	3.08	0.42
1:AA:445:C:O2'	1:AA:446:G:H5'	2.19	0.42
55:DA:2562:U:C1'	10:DN:23:ARG:HH11	2.26	0.42
54:CA:556:C:H2'	54:CA:557:G:C5'	2.50	0.42
54:CA:568:G:O6	42:CO:5:PRO:CD	2.63	0.42
1:AA:531:C:C5	1:AA:2035:G:C2	3.08	0.42
11:AO:48:PRO:O	11:AO:49:ARG:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:DS:55:ALA:O	18:DS:56:ALA:C	2.57	0.42
54:CA:133:U:OP1	50:CW:74:LYS:NZ	2.51	0.42
14:AQ:103:GLU:OE1	14:AQ:103:GLU:N	2.53	0.42
22:A3:43:THR:HG23	22:A3:46:LYS:HE2	2.01	0.42
11:DO:1:MET:HE3	11:DO:5:ASP:HB3	2.01	0.42
1:AA:1431:U:O2'	1:AA:1432:C:H5'	2.19	0.42
54:CA:1352:C:H2'	54:CA:1353:G:H8	1.76	0.42
2:AB:77:U:P	21:AV:19:ARG:HH22	2.43	0.42
50:BW:41:ILE:HG13	50:BW:42:GLN:N	2.35	0.42
1:AA:675:A:N6	1:AA:676:A:N6	2.67	0.42
54:CA:1265:G:H2'	54:CA:1266:G:O4'	2.20	0.42
55:DA:165:U:H3'	55:DA:165:U:O2	2.20	0.42
55:DA:165:U:C2	55:DA:171:G:C8	3.07	0.42
1:AA:1278:A:H4'	13:A0:34:ILE:HD11	2.00	0.42
42:BO:20:LYS:H	42:BO:20:LYS:HD3	1.85	0.42
30:D8:38:GLY:O	30:D8:42:ARG:HB3	2.20	0.42
31:BA:160:A:C1'	31:BA:344:A:C5	3.03	0.42
36:CI:74:ASP:O	36:CI:75:LEU:C	2.58	0.42
55:DA:1644:C:O2	55:DA:1644:C:C2'	2.63	0.42
34:BG:141:ARG:HB3	34:BG:142:PRO:CD	2.50	0.42
45:BR:3:ILE:HG22	45:BR:38:ARG:CZ	2.49	0.42
55:DA:16:G:C2	55:DA:17:G:C8	3.07	0.42
1:AA:755:C:H2'	1:AA:756:C:H6	1.83	0.42
1:AA:2477:C:H3'	1:AA:2477:C:O2	2.20	0.42
5:DF:117:ARG:NH2	5:DF:189:THR:O	2.53	0.42
5:DF:153:SER:OG	5:DF:190:GLU:N	2.53	0.42
44:CQ:51:GLY:C	44:CQ:53:LEU:N	2.72	0.42
55:DA:2540:C:H2'	55:DA:2541:A:H5'	2.02	0.42
54:CA:177:C:P	50:CW:65:LYS:HE2	2.60	0.42
55:DA:833:U:H2'	55:DA:834:C:H6	1.85	0.42
1:AA:1952:A:N6	1:AA:1953:A:N1	2.68	0.42
55:DA:846:C:O2'	55:DA:847:U:OP2	2.32	0.42
55:DA:846:C:O2'	55:DA:847:U:P	2.77	0.42
47:BT:15:MET:HE3	47:BT:18:THR:HG22	2.02	0.42
55:DA:2228:G:H2'	55:DA:2229:C:C6	2.55	0.42
55:DA:526:A:C2	55:DA:2625:G:N3	2.88	0.42
25:DX:16:PRO:HB2	25:DX:18:ASP:OD1	2.20	0.42
31:BA:22:G:H4'	31:BA:885:G:C8	2.54	0.42
1:AA:688:U:H5'	1:AA:1780:A:N1	2.35	0.42
54:CA:1427:U:H2'	54:CA:1428:A:C8	2.55	0.42
24:DW:71:ASN:O	24:DW:72:ALA:OXT	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:487:A:H2'	31:BA:488:C:O4'	2.20	0.42
54:CA:742:G:O2'	54:CA:743:U:H5'	2.20	0.42
34:CG:102:ASP:HB3	34:CG:136:PRO:CB	2.49	0.42
37:BJ:85:TYR:CE1	37:BJ:154:TYR:HE1	2.38	0.42
19:DT:52:VAL:HG12	19:DT:52:VAL:O	2.19	0.42
44:BQ:34:TYR:CD1	44:BQ:34:TYR:N	2.87	0.42
32:BE:70:PHE:N	32:BE:70:PHE:CD1	2.88	0.42
34:CG:42:GLN:HG2	34:CG:42:GLN:O	2.19	0.42
31:BA:233:C:O2'	31:BA:234:C:H5'	2.20	0.42
54:CA:1290:G:N3	54:CA:1290:G:H2'	2.34	0.42
54:CA:598:U:H2'	54:CA:599:C:H6	1.84	0.42
54:CA:225:C:O2'	54:CA:226:G:H5'	2.19	0.42
54:CA:697:U:H2'	54:CA:698:G:H5'	2.01	0.42
55:DA:1077:A:H2'	55:DA:1078:U:C5'	2.50	0.42
55:DA:1084:A:N1	55:DA:1085:A:N6	2.68	0.42
55:DA:1086:A:C5'	55:DA:1103:A:N6	2.76	0.42
55:DA:1085:A:C3'	55:DA:1086:A:N7	2.83	0.42
56:DI:3:LEU:O	56:DI:5:ILE:N	2.53	0.42
58:DL:78:ILE:N	58:DL:78:ILE:CD1	2.83	0.42
57:DY:138:LEU:HD12	57:DY:139:VAL:C	2.37	0.42
57:DY:56:ASN:HA	57:DY:60:ARG:HG3	1.99	0.42
57:DY:71:LEU:CA	57:DY:113:GLN:CA	2.97	0.42
21:AV:186:GLU:O	21:AV:187:ALA:CB	2.65	0.42
52:CC:44:G:H5"	52:CC:45:U:C5	2.55	0.42
31:BA:1317:C:OP1	44:BQ:17:LYS:HG2	2.20	0.42
28:A6:36:LEU:O	28:A6:37:ARG:C	2.59	0.42
1:AA:2287:A:C5	1:AA:2289:G:C5	3.08	0.42
11:AO:64:LYS:HE3	30:A8:30:ARG:NH1	2.33	0.42
43:BP:81:LEU:HD13	43:BP:88:ARG:CG	2.50	0.42
1:AA:949:C:O2'	1:AA:950:G:H5'	2.20	0.42
1:AA:966:G:C6	1:AA:967:C:N4	2.88	0.42
54:CA:631:G:O2'	54:CA:632:A:C4	2.72	0.42
1:AA:2305:A:N1	6:AG:154:GLY:N	2.61	0.42
6:AG:41:GLN:HB3	6:AG:43:LEU:HD13	2.01	0.42
6:AG:97:ASP:O	6:AG:100:TRP:HB2	2.18	0.42
15:AR:26:ASP:HB2	15:AR:90:GLN:O	2.20	0.42
40:BM:6:ILE:HG22	40:BM:98:ILE:HG13	2.02	0.42
30:A8:16:ILE:HB	30:A8:65:GLU:CA	2.45	0.42
54:CA:1028(A):C:H2'	54:CA:1028(B):C:O4'	2.19	0.42
54:CA:1054:C:O2'	54:CA:1055:A:O5'	2.37	0.42
54:CA:1363:A:H5"	54:CA:1364:U:OP1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DE:197:ILE:HD11	4:DE:199:ARG:HH12	1.85	0.42
1:AA:1007:C:H5''	9:AM:35:ARG:HH11	1.85	0.42
1:AA:747:U:C5	27:A5:3:LYS:HB2	2.55	0.42
19:AT:55:ASN:HB2	19:AT:80:ILE:HG12	2.02	0.42
7:DH:94:TYR:N	7:DH:94:TYR:CD1	2.88	0.42
1:AA:2759:G:N2	7:AH:139:GLN:OE1	2.52	0.42
50:CW:43:LEU:CA	50:CW:46:GLU:HB3	2.42	0.42
31:BA:960:U:N3	31:BA:1225:A:C8	2.78	0.42
52:CD:19:G:C2	55:DA:2112:G:N2	2.84	0.42
43:CP:53:VAL:HG12	43:CP:57:ARG:HH12	1.84	0.42
6:DG:122:PRO:HG3	6:DG:182:LYS:C	2.41	0.42
31:BA:791:G:C6	31:BA:792:A:N7	2.87	0.42
31:BA:792:A:H1'	31:BA:794:A:N7	2.35	0.42
12:DP:88:GLY:O	12:DP:89:ASN:C	2.56	0.42
54:CA:1176:A:N6	54:CA:1177:G:C5	2.87	0.42
21:AV:40:ASP:OD1	21:AV:42:VAL:HB	2.20	0.42
20:AU:94:LYS:HZ2	20:AU:101:LYS:NZ	2.15	0.42
1:AA:84:A:H3'	20:AU:8:LYS:HD2	2.01	0.42
5:AF:126:VAL:HG23	5:AF:127:GLU:N	2.34	0.42
5:AF:25:PRO:O	5:AF:26:ALA:CB	2.68	0.42
55:DA:1796:U:H2'	55:DA:1797:C:H6	1.78	0.42
14:DQ:19:LYS:HB3	14:DQ:20:ARG:H	1.76	0.42
24:AW:64:LEU:O	24:AW:67:LYS:HB2	2.19	0.42
30:D8:29:LYS:HG3	30:D8:30:ARG:N	2.35	0.42
22:A3:65:GLY:HA3	22:A3:81:VAL:CG1	2.50	0.42
54:CA:689:C:H2'	54:CA:690:G:C5'	2.47	0.42
39:BL:70:LYS:O	39:BL:74:ILE:HG13	2.19	0.42
7:DH:12:PRO:CG	7:DH:13:LYS:N	2.83	0.42
35:BH:147:ASP:HA	35:BH:150:ARG:HB3	2.01	0.42
38:BK:102:ARG:O	38:BK:104:ARG:N	2.53	0.42
31:BA:1054:C:N4	52:BB:34:G:C1'	2.83	0.42
54:CA:407:G:O2'	54:CA:408:A:H5'	2.20	0.42
10:DN:101:PRO:HA	10:DN:120:GLU:O	2.20	0.42
33:BF:34:LEU:HD12	33:BF:34:LEU:O	2.20	0.42
33:BF:63:ASN:CG	33:BF:64:VAL:H	2.23	0.42
31:BA:924:C:H2'	31:BA:925:G:H8	1.85	0.42
4:DE:103:ASP:OD1	4:DE:201:THR:HG23	2.20	0.42
27:A5:45:VAL:CG1	27:A5:56:LYS:HG3	2.50	0.42
31:BA:1297:C:O2'	31:BA:1298:C:OP2	2.38	0.42
1:AA:1309:G:C2'	1:AA:1310:G:H5'	2.49	0.42
55:DA:2852:G:C6	55:DA:2853:C:C4	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CT:14:LYS:NZ	47:CT:14:LYS:HB2	2.34	0.42
14:AQ:78:LEU:HD21	14:AQ:108:GLY:CA	2.50	0.42
1:AA:404:C:C2'	1:AA:405:U:OP2	2.68	0.42
15:AR:50:ILE:HD12	15:AR:99:LEU:CD1	2.50	0.42
8:DK:29:TYR:CE1	8:DK:33:ARG:NE	2.88	0.42
41:BN:92:GLU:C	41:BN:94:ALA:H	2.22	0.42
43:BP:51:ALA:O	43:BP:54:VAL:N	2.52	0.42
54:CA:1469:G:H2'	54:CA:1470:G:H8	1.84	0.42
8:AK:58:LEU:C	8:AK:60:GLU:N	2.73	0.42
5:AF:170:LEU:HD12	5:AF:170:LEU:H	1.85	0.42
5:DF:59:TYR:HD1	5:DF:78:ILE:HB	1.83	0.42
54:CA:706:A:O4'	41:CN:29:ILE:HD13	2.19	0.42
1:AA:371:A:HO2'	1:AA:372:G:P	2.43	0.42
23:DZ:82:LEU:H	23:DZ:82:LEU:CD2	2.31	0.42
13:D0:38:VAL:CG1	13:D0:42:LYS:HE3	2.50	0.42
12:DP:134:ARG:NH2	21:DV:122:ARG:NH1	2.68	0.42
7:DH:136:ILE:CG2	7:DH:136:ILE:O	2.68	0.42
54:CA:366:C:O2'	54:CA:367:U:O5'	2.37	0.42
54:CA:968:A:C4'	54:CA:969:A:OP2	2.67	0.42
54:CA:967:C:H4'	39:CL:125:TYR:OH	2.20	0.42
55:DA:271(C):U:C2'	55:DA:271:G:OP1	2.67	0.42
55:DA:1834:U:O2	55:DA:1970:A:C8	2.72	0.42
38:CK:14:ARG:O	38:CK:18:ARG:HD3	2.20	0.42
32:BE:28:PHE:CE1	32:BE:31:TYR:HB2	2.55	0.42
54:CA:934:C:N4	54:CA:1344:C:C2	2.88	0.42
55:DA:1830:C:H2'	55:DA:1831:G:H8	1.85	0.42
39:CL:117:HIS:NE2	39:CL:123:PRO:HA	2.35	0.42
54:CA:508:C:H4'	54:CA:509:A:O5'	2.20	0.42
7:DH:105:LEU:CD2	7:DH:113:VAL:HB	2.50	0.42
23:DZ:24:ALA:HA	23:DZ:32:LYS:HD3	2.01	0.42
54:CA:602:A:H2'	54:CA:603:U:H6	1.84	0.42
41:CN:12:ARG:HG2	41:CN:13:GLN:N	2.35	0.42
31:BA:1426:C:H2'	31:BA:1427:U:C6	2.55	0.42
7:AH:53:GLU:HA	7:AH:65:HIS:CD2	2.55	0.42
16:A1:21:ALA:O	16:A1:22:LYS:C	2.58	0.42
35:CH:28:PHE:O	35:CH:47:LYS:HA	2.20	0.42
1:AA:1848:A:C4	1:AA:1849:G:C8	3.08	0.42
55:DA:1438:U:O2'	55:DA:1439:A:H5'	2.20	0.42
54:CA:269:C:H2'	54:CA:270:A:C8	2.55	0.42
54:CA:1213:A:N7	54:CA:1215:G:C6	2.87	0.42
31:BA:934:C:O2'	31:BA:935:A:P	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:231:HIS:ND1	3:DD:232:PRO:HD2	2.34	0.42
35:CH:14:ARG:NH1	35:CH:129:ILE:HD12	2.34	0.42
18:DS:48:ALA:O	18:DS:49:LYS:C	2.58	0.42
12:AP:63:LYS:HB2	12:AP:63:LYS:HZ3	1.85	0.42
33:CF:140:ARG:CZ	33:CF:140:ARG:HB2	2.49	0.42
55:DA:44:A:O5'	55:DA:44:A:H8	2.03	0.42
20:DU:6:HIS:O	20:DU:7:VAL:HG13	2.19	0.42
1:AA:1793:C:O2	1:AA:1900:A:H2	2.03	0.42
58:DL:76:TYR:CD2	58:DL:77:LEU:CD1	3.03	0.42
57:DY:137:GLU:C	57:DY:138:LEU:O	2.55	0.42
1:AA:895:U:C2	1:AA:895:U:H3'	2.55	0.42
21:AV:177:PRO:O	21:AV:178:GLU:CG	2.68	0.42
31:BA:1357:A:N6	31:BA:1363:A:C2	2.88	0.42
49:BV:20:LEU:O	49:BV:23:ASN:HB3	2.20	0.42
49:BV:63:THR:HG23	49:BV:66:MET:HG3	2.02	0.42
28:A6:10:LEU:HG	30:A8:34:TRP:CE2	2.55	0.42
28:A6:15:GLU:HG2	28:A6:16:CYS:N	2.35	0.42
1:AA:2285:C:C4	28:A6:27:LYS:HE3	2.54	0.42
1:AA:2285:C:H5'	1:AA:2286:A:OP2	2.20	0.42
1:AA:2346:A:H61	28:A6:28:ARG:HH22	1.68	0.42
11:AO:52:GLU:HB3	11:AO:55:ARG:HD2	2.02	0.42
11:AO:59:LEU:O	11:AO:61:ARG:N	2.53	0.42
1:AA:2247:A:H2'	1:AA:2248:C:C6	2.55	0.42
54:CA:533:A:C5	54:CA:536:C:C4	3.08	0.42
52:CB:56:C:C5	52:CB:57:G:N7	2.88	0.42
21:DV:108:PRO:HG2	21:DV:109:ALA:N	2.35	0.42
43:CP:82:MET:O	43:CP:83:ASP:HB2	2.19	0.42
26:D4:53:GLU:O	26:D4:57:GLU:CG	2.68	0.42
55:DA:506:G:H5'	55:DA:509:C:H1'	2.02	0.42
54:CA:949:A:C4'	54:CA:1364:U:O4	2.67	0.42
4:DE:50:GLY:H	4:DE:77:ILE:HA	1.82	0.42
55:DA:1485:G:C2'	55:DA:1486:A:O5'	2.67	0.42
55:DA:1177:A:H4'	55:DA:1178:C:C5'	2.37	0.42
28:D6:41:PRO:HD2	28:D6:46:HIS:HA	2.01	0.42
55:DA:2347:C:P	28:D6:39:TYR:OH	2.76	0.42
16:A1:92:ARG:NH1	17:A2:11:GLN:NE2	2.68	0.42
1:AA:2307:G:O2'	1:AA:2308:G:N7	2.53	0.42
50:CW:38:LYS:O	50:CW:39:LYS:C	2.58	0.42
54:CA:1125:U:C2'	54:CA:1126:U:OP2	2.68	0.42
31:BA:1004:A:C2'	31:BA:1005:A:O4'	2.68	0.42
1:AA:578:A:H5'	1:AA:1254:A:OP1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1266:G:C5	18:DS:15:ARG:NH1	2.87	0.42
55:DA:2612:C:C5	55:DA:2613:U:H5	2.38	0.42
52:CD:20:U:C2'	52:CD:20:U:O2	2.68	0.42
43:CP:2:ALA:O	43:CP:4:ILE:HG12	2.20	0.42
6:DG:115:ARG:HG2	6:DG:115:ARG:NH1	2.34	0.42
11:DO:31:ALA:C	11:DO:32:THR:HG22	2.40	0.42
8:AK:97:ILE:N	8:AK:97:ILE:HD12	2.34	0.42
21:AV:52:SER:C	21:AV:53:ILE:HG13	2.41	0.42
20:AU:84:ARG:N	20:AU:95:LYS:O	2.47	0.42
1:AA:2665:A:C2	1:AA:2666:C:C5	3.08	0.42
7:AH:105:LEU:HD22	7:AH:105:LEU:O	2.20	0.42
5:AF:180:GLY:O	5:AF:181:LEU:C	2.57	0.42
32:BE:16:HIS:HD2	32:BE:210:SER:HA	1.84	0.42
52:CC:19:G:O6	6:DG:83:ARG:NH2	2.53	0.42
13:A0:74:LYS:CE	13:A0:77:ARG:HH21	2.27	0.42
54:CA:376:G:C4'	46:CS:5:ARG:HD2	2.49	0.42
1:AA:137(A):G:H2'	1:AA:139:G:C8	2.55	0.42
1:AA:792:G:H2'	1:AA:2440:C:N3	2.35	0.42
52:BB:67:C:H2'	52:BB:68:C:C6	2.55	0.42
55:DA:802:A:C2'	55:DA:803:U:C5'	2.98	0.42
26:D4:9:LEU:C	26:D4:9:LEU:HD23	2.41	0.42
20:AU:72:VAL:O	20:AU:73:ARG:CB	2.66	0.42
24:AW:49:LYS:O	24:AW:52:ASP:HB3	2.20	0.42
55:DA:1906:G:N1	55:DA:1925:C:O2	2.53	0.42
55:DA:1558:A:O2'	55:DA:1559:G:P	2.78	0.42
37:CJ:20:ASP:OD1	37:CJ:23:VAL:HG23	2.20	0.42
33:CF:172:ARG:O	33:CF:173:VAL:CG2	2.68	0.42
31:BA:7:G:H5'	31:BA:298:A:H5'	2.01	0.42
31:BA:973:G:N3	40:BM:55:LYS:CE	2.83	0.42
54:CA:1535:C:H2'	54:CA:1536:C:O4'	2.20	0.42
1:AA:1698:A:O2'	1:AA:1699:G:C5'	2.54	0.42
12:DP:2:LEU:CB	12:DP:70:PRO:CG	2.95	0.42
31:BA:500:G:H2'	31:BA:501:C:H6	1.83	0.42
55:DA:1048:A:OP2	55:DA:1048:A:H8	2.02	0.42
55:DA:1188:U:C4'	17:D2:79:VAL:CG2	2.98	0.42
31:BA:924:C:H2'	31:BA:925:G:C8	2.55	0.42
1:AA:2354:G:C2	1:AA:2355:C:C6	3.07	0.42
10:AN:35:VAL:HG12	10:AN:36:GLY:N	2.35	0.42
48:CU:73:ALA:HB3	48:CU:79:LEU:HD12	2.02	0.42
35:BH:24:ARG:HG3	35:BH:26:PHE:CE2	2.55	0.42
1:AA:528:A:H2	1:AA:2043:C:C5'	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CD:2:C:O2'	52:CD:3:C:P	2.78	0.42
1:AA:1956:U:C5	1:AA:1957:C:C5	3.08	0.42
31:BA:555:C:H2'	31:BA:556:C:H6	1.84	0.42
39:CL:9:ARG:CB	39:CL:14:VAL:HG22	2.49	0.42
54:CA:481:G:O2'	54:CA:482:A:O5'	2.38	0.42
38:CK:49:GLU:HG3	38:CK:60:ARG:HB2	2.01	0.42
55:DA:2392:A:H8	11:DO:60:MET:HG3	1.77	0.42
42:CO:20:LYS:HB2	42:CO:21:LYS:H	1.65	0.42
54:CA:60:A:N6	54:CA:110:C:N3	2.64	0.42
1:AA:1479:G:H5'	1:AA:1558:A:H2	1.85	0.42
54:CA:537:G:H2'	54:CA:538:G:C8	2.55	0.42
1:AA:532:A:N6	1:AA:2020:A:H1'	2.35	0.42
50:BW:82:SER:O	50:BW:86:ARG:HB2	2.20	0.42
21:DV:20:ARG:C	21:DV:22:GLY:N	2.73	0.42
1:AA:2868:A:H2'	1:AA:2869:G:C8	2.55	0.42
1:AA:559:G:C2'	1:AA:560:C:H5'	2.50	0.42
10:DN:48:PRO:O	10:DN:49:ARG:HG2	2.19	0.42
11:DO:13:ASN:C	11:DO:15:ARG:N	2.70	0.42
46:BS:15:PRO:HB2	46:BS:41:PRO:HG3	2.02	0.42
54:CA:638:G:O2'	54:CA:639:G:H5'	2.20	0.42
1:AA:1863:G:H2'	1:AA:1864:U:O4'	2.20	0.42
50:BW:44:ALA:HB1	50:BW:91:LEU:CB	2.50	0.42
31:BA:1032(A):G:H2'	31:BA:1032(B):G:H8	1.85	0.42
31:BA:447:G:H3'	31:BA:485:G:N2	2.34	0.42
1:AA:2865:U:C4	1:AA:2866:U:N3	2.85	0.42
32:BE:236:TYR:C	32:BE:236:TYR:CD1	2.93	0.42
5:DF:57:VAL:HG12	5:DF:58:ALA:N	2.35	0.42
31:BA:141:A:H1'	31:BA:182:U:O2	2.20	0.42
1:AA:1421:G:C2	1:AA:1422:G:C8	3.08	0.42
19:AT:28:PHE:CE1	19:AT:92:LEU:HD11	2.55	0.42
19:AT:81:VAL:O	19:AT:81:VAL:HG23	2.19	0.42
1:AA:1396:U:O2	1:AA:1396:U:C2'	2.66	0.42
1:AA:1726:G:C2'	1:AA:1727:U:H5'	2.50	0.42
5:DF:134:GLY:H	5:DF:162:LEU:CD2	2.31	0.42
31:BA:119:A:H4'	31:BA:120:A:O5'	2.20	0.42
1:AA:2087:G:C2'	1:AA:2088:G:H5'	2.50	0.42
55:DA:53:A:H2'	55:DA:54:G:O4'	2.20	0.42
1:AA:240:G:C2'	1:AA:257:A:H61	2.32	0.42
1:AA:316:C:O2	1:AA:316:C:H2'	2.19	0.42
31:BA:445:G:C6	31:BA:490:G:C6	3.08	0.42
31:BA:913:A:H1'	31:BA:914:A:C1'	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:659:U:H2'	31:BA:660:G:O4'	2.20	0.42
9:DM:75:TYR:CD2	9:DM:76:SER:O	2.72	0.42
54:CA:432:A:C8	54:CA:433:C:C5	3.08	0.42
1:AA:2768:C:N4	1:AA:2769:C:N4	2.67	0.42
15:AR:51:ARG:NH1	15:AR:51:ARG:CG	2.82	0.42
47:CT:13:ASP:C	47:CT:15:MET:N	2.73	0.42
55:DA:2572:A:HO2'	55:DA:2573:C:P	2.43	0.42
6:AG:48:GLU:HA	6:AG:48:GLU:OE2	2.20	0.42
1:AA:1642:G:O2'	1:AA:1643:G:H5'	2.20	0.42
1:AA:738:G:H2'	1:AA:739:G:O4'	2.20	0.42
45:BR:41:GLU:O	45:BR:44:LYS:HB2	2.20	0.42
31:BA:1476:G:H2'	31:BA:1477:C:C6	2.55	0.42
6:AG:35:GLU:O	6:AG:36:LYS:HB3	2.20	0.42
6:AG:20:ILE:O	6:AG:24:GLY:N	2.53	0.42
31:BA:1405:G:H1'	31:BA:1519:A:O4'	2.19	0.42
1:AA:708:C:H2'	1:AA:708:C:O2	2.19	0.42
23:DZ:20:ARG:HH11	23:DZ:20:ARG:HG2	1.84	0.42
1:AA:964:C:O5'	1:AA:964:C:H6	2.02	0.42
7:DH:139:GLN:HG3	7:DH:140:LYS:N	2.35	0.42
34:CG:166:LYS:HE2	34:CG:178:VAL:HG11	2.01	0.42
55:DA:1128:A:N7	55:DA:2489:G:O2'	2.53	0.42
16:D1:97:ASP:OD1	16:D1:101:ARG:NH1	2.53	0.42
55:DA:953:A:N1	55:DA:964:C:O2	2.53	0.42
56:DI:23:LEU:N	56:DI:23:LEU:CD1	2.79	0.41
56:DI:3:LEU:CD2	56:DI:7:ARG:CD	2.75	0.41
55:DA:1082:U:O2'	58:DL:115:LEU:HD11	2.20	0.41
58:DL:21:PRO:C	58:DL:24:GLY:C	2.79	0.41
58:DL:19:PRO:CA	58:DL:25:PRO:HD3	2.41	0.41
58:DL:78:ILE:HD12	58:DL:78:ILE:N	2.34	0.41
57:DY:1:MET:CE	57:DY:3:ASN:HD21	2.32	0.41
31:BA:1014:A:H4'	49:BV:14:HIS:CD2	2.55	0.41
31:BA:1215:G:H2'	31:BA:1216:G:H5'	2.02	0.41
31:BA:991:U:OP2	31:BA:991:U:H6	2.03	0.41
1:AA:1027:A:N7	1:AA:1126:A:C2	2.88	0.41
54:CA:517:G:H4'	54:CA:518:C:O5'	2.20	0.41
21:DV:177:PRO:O	21:DV:178:GLU:CG	2.68	0.41
3:DD:136:ILE:HA	3:DD:137:PRO:HD3	1.82	0.41
3:DD:35:LYS:CB	3:DD:63:ARG:HA	2.43	0.41
2:AB:41:U:C4	6:AG:70:VAL:HG23	2.55	0.41
6:AG:41:GLN:N	6:AG:90:LEU:O	2.49	0.41
30:A8:14:VAL:HG13	30:A8:23:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A8:4:MET:CE	30:A8:61:LEU:HD23	2.49	0.41
30:A8:52:LYS:N	30:A8:53:PRO:CD	2.83	0.41
20:DU:65:ALA:HA	20:DU:66:PRO:HD3	1.93	0.41
4:DE:54:GLN:N	4:DE:54:GLN:CD	2.73	0.41
28:D6:42:TRP:O	28:D6:43:CYS:HB3	2.19	0.41
16:A1:100:VAL:C	16:A1:102:GLU:H	2.23	0.41
16:A1:92:ARG:CB	17:A2:11:GLN:NE2	2.77	0.41
31:BA:542:G:H2'	31:BA:543:C:C6	2.55	0.41
34:BG:13:ARG:HD2	34:BG:38:TYR:O	2.20	0.41
34:BG:15:GLU:O	34:BG:16:GLY:C	2.57	0.41
1:AA:2306:C:O5'	1:AA:2307:G:C5'	2.68	0.41
31:BA:1131:G:O2'	31:BA:1132:C:H5'	2.20	0.41
31:BA:1145:C:H4'	31:BA:1146:A:H5'	2.02	0.41
31:BA:1250:A:H4'	39:BL:67:GLY:HA2	2.01	0.41
7:DH:107:VAL:HG23	7:DH:109:PHE:CE1	2.55	0.41
7:DH:84:SER:O	7:DH:133:VAL:O	2.38	0.41
55:DA:51:G:H1'	55:DA:118:A:N6	2.35	0.41
5:DF:107:LYS:CE	5:DF:206:ILE:HD13	2.50	0.41
11:DO:112:LEU:HD13	11:DO:127:ALA:HB1	2.02	0.41
11:DO:131:SER:HB3	11:DO:134:ALA:HB2	2.02	0.41
11:DO:95:VAL:O	11:DO:96:THR:CG2	2.68	0.41
55:DA:2012:G:O3'	18:DS:96:ILE:HG13	2.20	0.41
52:CD:16:U:O2	52:CD:18:G:H5'	2.20	0.41
26:D4:16:CYS:HA	26:D4:33:VAL:O	2.20	0.41
47:CT:68:ARG:HG2	47:CT:68:ARG:HH11	1.84	0.41
21:AV:133:ILE:HA	21:AV:134:PRO:HD2	1.79	0.41
21:AV:58:VAL:O	21:AV:67:LEU:O	2.38	0.41
55:DA:1934:C:C2'	55:DA:1935:G:O5'	2.68	0.41
55:DA:2135:A:N3	55:DA:2135:A:H2'	2.34	0.41
5:AF:8:GLN:HE22	5:AF:127:GLU:HB3	1.84	0.41
5:AF:24:LEU:O	5:AF:25:PRO:C	2.58	0.41
55:DA:1316:U:H2'	55:DA:1317:A:C8	2.55	0.41
32:BE:224:GLN:OE1	32:BE:225:ALA:N	2.53	0.41
3:AD:28:GLU:CB	3:AD:29:PRO:CD	2.98	0.41
1:AA:2391:G:O6	1:AA:2425:A:C8	2.66	0.41
14:DQ:88:ASP:CG	14:DQ:89:ARG:H	2.23	0.41
1:AA:434:U:H2'	1:AA:436:C:H41	1.85	0.41
46:CS:6:LEU:HG	46:CS:17:TYR:CB	2.46	0.41
30:D8:6:THR:O	30:D8:59:LYS:O	2.38	0.41
55:DA:85:G:N3	55:DA:103:A:C2	2.88	0.41
1:AA:2072:G:C5	1:AA:2073:C:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AW:32:LEU:O	24:AW:33:MET:C	2.56	0.41
6:DG:145:THR:CG2	26:D4:28:LYS:NZ	2.82	0.41
6:DG:102:PHE:HZ	6:DG:157:ILE:HD13	1.85	0.41
31:BA:1535:C:H2'	31:BA:1536:C:C5'	2.50	0.41
30:D8:28:GLY:O	30:D8:29:LYS:C	2.58	0.41
15:AR:132:LYS:O	15:AR:136:GLN:HB3	2.20	0.41
38:CK:104:ARG:O	38:CK:106:GLY:N	2.47	0.41
31:BA:728:A:C2	31:BA:729:A:C5	3.08	0.41
31:BA:1178:G:C8	31:BA:1180:A:OP2	2.73	0.41
1:AA:846:C:H1'	1:AA:847:U:C6	2.54	0.41
8:DK:67:ARG:HD2	8:DK:68:LEU:HD13	2.01	0.41
12:AP:134:ARG:HH11	12:AP:134:ARG:HG2	1.83	0.41
1:AA:1608:A:O2'	1:AA:1610:A:P	2.78	0.41
31:BA:189:U:C4	47:BT:72:ARG:NH1	2.77	0.41
21:AV:120:ILE:CG2	21:AV:171:ILE:H	2.33	0.41
54:CA:408:A:H4'	34:CG:112:VAL:HG11	2.01	0.41
41:BN:29:ILE:HG13	41:BN:29:ILE:O	2.10	0.41
33:CF:7:PRO:O	33:CF:11:ARG:HG2	2.20	0.41
7:AH:101:ARG:HG3	7:AH:117:PRO:CG	2.47	0.41
31:BA:511:C:C1'	34:BG:43:HIS:NE2	2.81	0.41
12:AP:35:VAL:CG1	12:AP:130:LYS:HB3	2.49	0.41
5:DF:129:PHE:HA	5:DF:142:TRP:CD1	2.55	0.41
17:A2:61:VAL:CG1	17:A2:62:LEU:N	2.79	0.41
11:DO:71:VAL:HG12	11:DO:72:PRO:HD3	1.99	0.41
55:DA:2656:U:H3'	55:DA:2656:U:C6	2.55	0.41
12:AP:54:MET:O	12:AP:57:HIS:N	2.53	0.41
1:AA:2880:C:O2'	13:A0:90:ARG:HD3	2.20	0.41
1:AA:2880:C:O2	13:A0:93:GLY:N	2.49	0.41
54:CA:66:G:H5'	54:CA:67:C:OP2	2.19	0.41
37:CJ:16:LEU:CD1	39:CL:45:ALA:HB2	2.49	0.41
1:AA:1869:G:H5'	1:AA:1870:C:P	2.60	0.41
20:DU:88:LYS:C	20:DU:90:LEU:N	2.73	0.41
6:DG:143:GLU:CG	26:D4:31:ILE:HD11	2.49	0.41
55:DA:2723:C:H4'	13:D0:1:MET:CB	2.50	0.41
54:CA:280:C:C4'	54:CA:281:G:OP2	2.63	0.41
34:CG:170:VAL:HG13	34:CG:171:GLY:N	2.35	0.41
24:AW:9:GLN:CA	24:AW:12:GLU:HB3	2.48	0.41
54:CA:1240:U:OP2	37:CJ:116:ALA:CB	2.68	0.41
54:CA:262:A:N1	54:CA:263:A:C6	2.87	0.41
39:CL:22:GLY:O	39:CL:24:GLY:N	2.52	0.41
48:BU:62:GLU:HA	48:BU:65:ILE:HG13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2556:C:H2'	55:DA:2557:G:O4'	2.19	0.41
54:CA:652:U:O2'	54:CA:653:A:O5'	2.38	0.41
31:BA:113:G:O4'	31:BA:354:G:H4'	2.20	0.41
31:BA:538:G:O2'	31:BA:539:A:H5'	2.20	0.41
3:DD:79:VAL:HG11	3:DD:111:LEU:HD11	2.01	0.41
1:AA:868:U:H2'	1:AA:869:G:O4'	2.20	0.41
31:BA:668:G:H5'	45:BR:49:ASP:HA	2.01	0.41
43:BP:110:ARG:NH1	43:BP:110:ARG:HG2	2.35	0.41
40:CM:31:GLY:HA3	40:CM:81:THR:HG21	2.02	0.41
46:BS:83:GLU:HB3	46:BS:84:ALA:H	1.63	0.41
19:AT:47:PHE:HD2	19:AT:89:ILE:CG2	2.33	0.41
55:DA:800:A:C4'	55:DA:801:G:O5'	2.66	0.41
45:BR:29:VAL:HG11	45:BR:67:LEU:HD21	2.02	0.41
31:BA:468:A:H2'	31:BA:474:G:C5'	2.50	0.41
40:CM:15:THR:O	40:CM:16:LEU:C	2.58	0.41
54:CA:115:G:H4'	54:CA:116:A:O5'	2.20	0.41
55:DA:182:A:H1'	55:DA:433:C:O2'	2.20	0.41
49:CV:69:HIS:HB3	49:CV:73:GLU:CD	2.40	0.41
20:DU:33:LYS:HG3	20:DU:34:LYS:N	2.33	0.41
32:BE:105:PHE:O	32:BE:107:THR:N	2.53	0.41
33:CF:124:ILE:C	33:CF:126:ARG:N	2.72	0.41
38:CK:18:ARG:NH2	38:CK:81:HIS:O	2.53	0.41
13:A0:18:LEU:HD11	13:A0:22:ARG:CZ	2.49	0.41
1:AA:606:U:OP2	5:AF:104:LYS:HE3	2.20	0.41
21:DV:135:GLU:HG3	21:DV:136:PHE:CD2	2.55	0.41
54:CA:1342:C:H2'	54:CA:1343:G:C8	2.54	0.41
37:CJ:151:TYR:OH	41:CN:54:ARG:HD3	2.20	0.41
54:CA:1112:C:H1'	33:CF:179:ARG:NH1	2.35	0.41
5:AF:93:LYS:O	5:AF:94:PRO:C	2.58	0.41
31:BA:1429:C:O2'	31:BA:1430:C:H5'	2.20	0.41
54:CA:1093:A:O5'	54:CA:1093:A:H8	2.03	0.41
55:DA:2328:A:H2'	55:DA:2329:G:O4'	2.20	0.41
1:AA:2106:G:O2'	1:AA:2107:C:H5'	2.20	0.41
34:CG:166:LYS:HE3	34:CG:166:LYS:HB2	1.88	0.41
34:BG:178:VAL:O	34:BG:179:GLU:CB	2.68	0.41
54:CA:1194:U:H2'	54:CA:1195:C:C6	2.55	0.41
54:CA:386:C:C2'	54:CA:387:U:H5'	2.50	0.41
31:BA:1413:A:C2	31:BA:1488:G:C2	3.08	0.41
23:AZ:56:GLN:HB3	23:AZ:56:GLN:HE21	1.64	0.41
39:BL:89:ASN:HB2	39:BL:92:TYR:HB2	2.01	0.41
55:DA:1087:G:C2	55:DA:1089:G:O2'	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DH:167:GLU:HA	7:DH:168:PRO:HD2	1.94	0.41
56:DI:1:MET:O	56:DI:5:ILE:CD1	2.60	0.41
58:DL:128:ALA:HB1	58:DL:132:ARG:NE	2.35	0.41
58:DL:78:ILE:HG22	58:DL:79:ARG:N	2.35	0.41
1:AA:881:G:H1	1:AA:895:U:H2'	1.86	0.41
26:A4:61:ARG:CG	26:A4:62:ARG:HH22	2.33	0.41
31:BA:1216:G:C4	31:BA:1217:C:C5	3.08	0.41
31:BA:991:U:O4	31:BA:1212:U:O2'	2.35	0.41
1:AA:887:A:C2'	1:AA:888:C:OP1	2.68	0.41
2:AB:96:G:N1	2:AB:97:G:C8	2.88	0.41
12:AP:86:GLY:O	12:AP:87:LYS:C	2.56	0.41
21:DV:112:ARG:H	21:DV:112:ARG:HD2	1.79	0.41
21:DV:182:LYS:CB	21:DV:183:LEU:HD23	2.50	0.41
54:CA:624:C:H5''	46:CS:10:GLY:O	2.20	0.41
3:DD:65:ILE:HG13	3:DD:67:PHE:CE1	2.54	0.41
31:BA:1329:A:OP1	43:BP:25:ILE:O	2.38	0.41
30:A8:47:LYS:O	30:A8:48:PHE:CB	2.64	0.41
1:AA:242:G:O2'	1:AA:243:U:C5	2.73	0.41
55:DA:2785:C:C4'	4:DE:35:GLN:HE22	2.32	0.41
15:DR:118:ARG:HH21	15:DR:121:ILE:HG21	1.85	0.41
28:D6:34:LEU:N	28:D6:34:LEU:HD13	2.25	0.41
28:D6:44:ARG:O	28:D6:45:LYS:CG	2.69	0.41
16:A1:76:TYR:OH	16:A1:93:LYS:NZ	2.51	0.41
16:A1:90:VAL:O	16:A1:91:ASP:C	2.58	0.41
16:A1:95:LEU:HD12	17:A2:11:GLN:CB	2.47	0.41
1:AA:1932:A:N6	1:AA:1968:G:H1'	2.35	0.41
1:AA:1341:U:H2'	1:AA:1397:U:O2	2.20	0.41
1:AA:1342:A:N1	1:AA:1602:U:O2	2.53	0.41
34:BG:23:GLY:C	34:BG:24:GLU:CG	2.84	0.41
4:AE:31:CYS:O	4:AE:32:PRO:O	2.37	0.41
4:AE:34:VAL:HG11	4:AE:64:LYS:CD	2.41	0.41
9:DM:41:ASP:OD1	9:DM:41:ASP:N	2.53	0.41
1:AA:2756:U:C1'	1:AA:2757:A:C8	3.04	0.41
31:BA:243:A:H4'	31:BA:244:U:C5'	2.50	0.41
1:AA:807:U:H2'	1:AA:808:G:H8	1.84	0.41
32:CE:168:THR:HG21	32:CE:191:ASP:CG	2.40	0.41
32:CE:44:LEU:HA	32:CE:47:THR:OG1	2.20	0.41
11:DO:95:VAL:C	11:DO:96:THR:HG23	2.40	0.41
52:CD:14:A:C6	52:CD:15:G:C6	3.07	0.41
6:DG:180:PHE:O	6:DG:182:LYS:N	2.53	0.41
6:DG:63:ILE:CG2	6:DG:144:ILE:HD11	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AN:63:VAL:HG22	10:AN:83:ALA:O	2.19	0.41
5:AF:203:GLN:O	5:AF:206:ILE:O	2.37	0.41
55:DA:2309:A:O5'	55:DA:2309:A:H8	2.03	0.41
6:DG:83:ARG:HG2	6:DG:83:ARG:HH11	1.85	0.41
55:DA:654(B):C:N3	55:DA:654(T):A:C2	2.88	0.41
14:DQ:86:ALA:O	14:DQ:87:PHE:CB	2.64	0.41
54:CA:377:G:OP1	46:CS:3:LYS:CD	2.68	0.41
46:CS:20:VAL:HG21	46:CS:32:TYR:CB	2.49	0.41
30:D8:6:THR:HG22	30:D8:63:PRO:HD3	2.03	0.41
55:DA:2059:A:N6	55:DA:2503:A:H2'	2.35	0.41
8:AK:12:LEU:HD12	8:AK:12:LEU:HA	1.78	0.41
55:DA:1814:G:H4'	3:DD:51:VAL:HG21	2.02	0.41
1:AA:607:U:C5'	5:AF:103:LYS:HD2	2.50	0.41
35:CH:101:ILE:N	35:CH:101:ILE:CD1	2.81	0.41
54:CA:684:A:O2'	54:CA:685:G:H5'	2.19	0.41
11:AO:111:ARG:HA	11:AO:128:HIS:CE1	2.56	0.41
11:AO:114:ILE:HG23	11:AO:127:ALA:HB2	2.01	0.41
17:D2:22:VAL:HG12	17:D2:23:GLU:N	2.35	0.41
35:BH:78:HIS:O	35:BH:93:PRO:HD3	2.20	0.41
43:CP:87:TYR:C	43:CP:89:GLY:H	2.23	0.41
31:BA:1452:C:H2'	31:BA:1453:G:OP2	2.20	0.41
36:BI:75:LEU:HD21	36:BI:79:LEU:CD1	2.50	0.41
54:CA:1442:G:C6	54:CA:1446:A:N6	2.87	0.41
1:AA:2320:A:O2'	1:AA:2321:G:C2	2.70	0.41
1:AA:1087:G:N2	1:AA:1090:U:C5	2.89	0.41
7:AH:12:PRO:O	7:AH:15:VAL:HG22	2.20	0.41
42:CO:60:LEU:HD21	42:CO:64:TYR:HB2	2.01	0.41
40:CM:12:ASP:OD2	40:CM:12:ASP:C	2.58	0.41
5:DF:129:PHE:CD2	5:DF:163:VAL:HG21	2.55	0.41
52:BC:18:G:C4	52:BC:58:A:C2	3.08	0.41
1:AA:528:A:C2	1:AA:2043:C:C5'	3.02	0.41
55:DA:806:C:C5	11:DO:41:ARG:NH2	2.87	0.41
55:DA:943:U:OP1	11:DO:34:GLY:O	2.38	0.41
34:CG:206:PHE:HD2	34:CG:207:TYR:CD1	2.38	0.41
35:CH:100:VAL:O	35:CH:107:ARG:NH2	2.53	0.41
55:DA:2258:C:H4'	55:DA:2259:G:OP2	2.16	0.41
2:DB:51:G:H2'	2:DB:52:A:C1'	2.50	0.41
10:DN:7:TYR:CE1	10:DN:20:MET:CE	3.02	0.41
55:DA:2853:C:O2'	55:DA:2854:G:H5'	2.19	0.41
13:D0:3:HIS:C	13:D0:5:LYS:H	2.15	0.41
45:BR:64:ARG:NH1	45:BR:68:ARG:NH2	2.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:DO:11:GLY:O	11:DO:12:ALA:HB2	2.19	0.41
11:DO:1:MET:CE	11:DO:5:ASP:HB3	2.49	0.41
54:CA:1353:G:H2'	54:CA:1354:C:H6	1.84	0.41
54:CA:653:A:H1'	38:CK:56:LYS:CD	2.47	0.41
22:D3:36:ILE:CD1	22:D3:36:ILE:H	2.33	0.41
31:BA:878:G:H5''	38:BK:89:PRO:HG2	2.02	0.41
54:CA:1032(B):G:C6	54:CA:1033:G:N7	2.89	0.41
8:AK:58:LEU:O	8:AK:60:GLU:N	2.53	0.41
7:AH:10:PRO:O	7:AH:11:VAL:HG13	2.19	0.41
44:CQ:8:GLU:O	44:CQ:10:ALA:N	2.54	0.41
1:AA:1419:A:O2'	1:AA:1420:U:C5	2.73	0.41
55:DA:2507:C:H2'	55:DA:2508:G:O5'	2.20	0.41
34:BG:107:ARG:HB3	34:BG:174:LEU:CD1	2.50	0.41
34:CG:158:ILE:HG22	34:CG:159:ARG:N	2.34	0.41
22:D3:37:LEU:N	22:D3:59:LEU:O	2.47	0.41
24:AW:30:ARG:NH1	24:AW:30:ARG:CG	2.83	0.41
55:DA:332:A:O2'	55:DA:333:G:P	2.78	0.41
52:CB:69:G:C2'	52:CB:70:G:OP1	2.67	0.41
14:AQ:67:ARG:CZ	14:AQ:67:ARG:HB2	2.49	0.41
55:DA:192:C:C2'	55:DA:193:U:H5'	2.48	0.41
1:AA:1228:G:OP2	16:A1:16:LYS:NZ	2.52	0.41
14:DQ:46:VAL:CG1	14:DQ:47:THR:N	2.82	0.41
46:BS:21:VAL:O	46:BS:33:ILE:HB	2.20	0.41
1:AA:961:C:H5	1:AA:2456:C:C4'	2.33	0.41
35:CH:59:GLY:O	35:CH:60:TYR:C	2.58	0.41
17:D2:65:GLY:HA3	17:D2:91:TYR:CZ	2.55	0.41
38:BK:1:MET:N	38:BK:1:MET:HE2	2.35	0.41
1:AA:270:A:OP2	1:AA:270(Y):G:N2	2.46	0.41
1:AA:1417:C:H2'	1:AA:1418:G:H5'	2.02	0.41
55:DA:502:A:C2'	55:DA:503:A:H5'	2.49	0.41
1:AA:1791:A:H3'	1:AA:1792:G:H8	1.85	0.41
45:CR:37:ASN:N	45:CR:37:ASN:ND2	2.68	0.41
33:CF:25:GLY:C	33:CF:27:LYS:H	2.24	0.41
54:CA:310:G:O2'	54:CA:311:C:H5'	2.20	0.41
1:AA:1261:C:C2'	1:AA:1262:A:O5'	2.68	0.41
23:AZ:56:GLN:H	23:AZ:56:GLN:CD	2.23	0.41
31:BA:1081:G:N2	31:BA:1082:G:H1'	2.35	0.41
37:BJ:36:LYS:O	37:BJ:39:ALA:N	2.51	0.41
54:CA:900:A:H2'	54:CA:901:A:C8	2.55	0.41
55:DA:2570:G:H2'	55:DA:2571:C:C6	2.56	0.41
55:DA:2389:G:H5''	55:DA:2390:U:O4'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:D0:27:SER:O	13:D0:30:THR:HB	2.20	0.41
55:DA:1659:U:H2'	55:DA:1660:C:O4'	2.20	0.41
15:DR:113:LYS:HD2	15:DR:113:LYS:HA	1.83	0.41
3:DD:252:TRP:O	3:DD:252:TRP:CE3	2.73	0.41
37:CJ:67:GLU:HA	37:CJ:67:GLU:OE2	2.20	0.41
55:DA:1474:C:O2	55:DA:1474:C:H2'	2.21	0.41
5:DF:149:ASP:OD1	5:DF:149:ASP:N	2.49	0.41
31:BA:1437:C:H2'	31:BA:1438:G:H8	1.85	0.41
55:DA:1059:G:P	58:DL:4:VAL:CG1	3.08	0.41
55:DA:1084:A:H1'	57:DY:53:VAL:HG21	2.02	0.41
56:DI:29:GLU:HG3	56:DJ:6:GLU:CD	2.31	0.41
58:DL:81:ALA:O	58:DL:82:ALA:O	2.38	0.41
55:DA:1084:A:C8	57:DY:53:VAL:CG1	3.03	0.41
31:BA:1316:G:C3'	31:BA:1317:C:H5''	2.50	0.41
31:BA:1324:A:O4'	31:BA:1362:C:H4'	2.21	0.41
1:AA:2285:C:N4	28:A6:25:LYS:HE3	2.36	0.41
1:AA:2415:G:H2'	1:AA:2416:C:H6	1.84	0.41
1:AA:2418:A:H2'	1:AA:2419:U:C6	2.55	0.41
2:AB:86:G:C2'	2:AB:87:G:H5'	2.50	0.41
12:AP:89:ASN:C	12:AP:91:GLU:N	2.74	0.41
21:DV:174:VAL:HG12	21:DV:175:VAL:H	1.84	0.41
21:DV:178:GLU:O	21:DV:179:ASP:HB2	2.20	0.41
32:CE:217:ARG:HB2	32:CE:217:ARG:HE	1.53	0.41
3:DD:72:LYS:HG3	3:DD:103:ARG:NH2	2.36	0.41
3:DD:28:GLU:CB	3:DD:29:PRO:CD	2.96	0.41
26:A4:16:CYS:HB3	26:A4:19:GLY:H	1.85	0.41
40:BM:3:LYS:N	40:BM:75:ILE:HA	2.36	0.41
54:CA:1003:G:C3'	54:CA:1004:A:H5'	2.47	0.41
55:DA:498:G:H21	20:DU:47:LYS:HZ1	1.65	0.41
44:CQ:42:ILE:O	44:CQ:46:GLU:HG2	2.20	0.41
4:DE:6:GLY:O	4:DE:195:LEU:HD12	2.20	0.41
28:D6:26:ASN:CG	28:D6:27:LYS:N	2.73	0.41
1:AA:1906:G:N2	1:AA:1925:C:C2	2.88	0.41
50:CW:26:ASN:N	50:CW:26:ASN:HD22	2.19	0.41
31:BA:543:C:OP1	34:BG:14:ARG:HD2	2.20	0.41
1:AA:2788:C:OP1	4:AE:61:ARG:NH1	2.53	0.41
1:AA:807:U:C2	1:AA:808:G:C8	3.08	0.41
34:CG:187:ARG:NH2	34:CG:193:ASP:OD2	2.39	0.41
11:DO:112:LEU:HD22	11:DO:113:LYS:H	1.83	0.41
16:D1:95:LEU:HD22	17:D2:4:ILE:HD12	2.02	0.41
23:AZ:91:LYS:O	23:AZ:92:LYS:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:97:GLU:CB	21:AV:125:LEU:HD11	2.28	0.41
31:BA:1118:C:H5''	39:BL:104:ARG:HG3	2.02	0.41
9:AM:26:LEU:HD23	9:AM:99:LEU:CD2	2.51	0.41
21:AV:94:GLU:HB3	21:AV:95:PRO:HD2	2.02	0.41
1:AA:300:A:OP2	20:AU:84:ARG:NH1	2.54	0.41
20:AU:99:CYS:SG	20:AU:100:ALA:N	2.90	0.41
20:AU:50:ARG:CB	20:AU:53:PRO:HG3	2.42	0.41
40:BM:39:PRO:HB3	40:BM:70:ARG:HH12	1.85	0.41
52:CB:75:C:H6	52:CB:75:C:H3'	1.85	0.41
5:AF:116:ASP:O	5:AF:120:GLU:HG3	2.20	0.41
47:CT:62:SER:CB	47:CT:72:ARG:HE	2.33	0.41
9:AM:13:TRP:CD1	9:AM:13:TRP:N	2.88	0.41
3:AD:33:LEU:HD23	3:AD:34:VAL:N	2.36	0.41
1:AA:2246:G:C2	1:AA:2426:A:H1'	2.55	0.41
1:AA:138:G:N2	19:AT:50:LYS:NZ	2.69	0.41
55:DA:795:C:O2'	55:DA:796:C:H5'	2.20	0.41
37:CJ:23:VAL:HG12	37:CJ:27:ILE:HD11	2.00	0.41
41:CN:33:THR:HG22	41:CN:39:PRO:HA	2.03	0.41
31:BA:1248:A:N3	39:BL:70:LYS:NZ	2.63	0.41
31:BA:255:G:O3'	47:BT:17:LYS:HD2	2.20	0.41
22:D3:49:LYS:O	22:D3:50:ASN:HB2	2.20	0.41
1:AA:637:A:OP1	11:AO:133:SER:HB3	2.21	0.41
1:AA:638:G:C5	1:AA:639:U:C4	3.09	0.41
31:BA:5:U:H4'	31:BA:6:G:C4	2.54	0.41
35:BH:80:ILE:HG22	38:BK:104:ARG:HE	1.82	0.41
8:AK:126:TYR:N	8:AK:126:TYR:CD1	2.88	0.41
8:AK:88:ILE:HG22	8:AK:90:GLY:N	2.35	0.41
33:BF:114:PRO:O	33:BF:118:GLN:OE1	2.37	0.41
43:CP:100:GLY:O	43:CP:101:GLN:O	2.38	0.41
36:BI:15:ASP:O	36:BI:19:LEU:HB2	2.21	0.41
54:CA:437:U:H2'	54:CA:438:G:H5'	2.02	0.41
34:CG:25:ARG:C	34:CG:27:TYR:N	2.68	0.41
2:DB:80:U:C2'	2:DB:81:G:H5''	2.50	0.41
55:DA:1157:G:O2'	25:DX:31:LEU:HD12	2.19	0.41
7:AH:163:TYR:CD1	7:AH:163:TYR:N	2.77	0.41
31:BA:830:G:H2'	31:BA:831:U:C6	2.55	0.41
10:AN:59:LYS:O	10:AN:86:ILE:HA	2.20	0.41
1:AA:1272:A:H3'	1:AA:1273:U:H5'	2.02	0.41
33:BF:44:GLU:HA	33:BF:52:LEU:HD11	2.01	0.41
1:AA:1249:U:H4'	16:A1:4:ALA:HB3	2.02	0.41
19:DT:49:VAL:HG13	19:DT:87:GLN:HE21	1.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:15:G:C4	31:BA:16:A:C8	3.08	0.41
1:AA:13:A:O2'	1:AA:15:G:C5	2.57	0.41
1:AA:2776:A:H4'	1:AA:2777:G:C5'	2.49	0.41
12:AP:56:ARG:NH2	52:BB:52:G:O3'	2.54	0.41
55:DA:2790:A:O2'	55:DA:2893:G:O2'	1.82	0.41
1:AA:1654:A:H2	4:AE:113:PHE:CE2	2.38	0.41
1:AA:2839:G:H2'	1:AA:2840:C:H6	1.85	0.41
54:CA:1297:C:C2'	37:CJ:114:ARG:NH2	2.81	0.41
52:BC:42:C:C3'	52:BC:43:C:H5''	2.49	0.41
6:AG:122:PRO:HG2	6:AG:123:ASN:ND2	2.35	0.41
45:BR:53:HIS:O	45:BR:56:LEU:HB3	2.20	0.41
45:BR:56:LEU:O	45:BR:60:VAL:HG23	2.20	0.41
55:DA:600:G:H2'	55:DA:601:C:C6	2.56	0.41
55:DA:2867:G:O2'	55:DA:2868:A:OP2	2.33	0.41
35:BH:41:VAL:HG22	35:BH:113:ALA:HA	2.02	0.41
1:AA:2336:A:H4'	1:AA:2337:G:OP1	2.18	0.41
1:AA:494:G:O5'	18:AS:8:ARG:NH1	2.53	0.41
31:BA:982:U:H5''	31:BA:983:A:OP1	2.20	0.41
36:BI:1:MET:CE	36:BI:68:PRO:HD3	2.50	0.41
54:CA:754:C:H3'	54:CA:754:C:O2	2.19	0.41
55:DA:2746:U:H2'	55:DA:2747:G:H5'	2.03	0.41
54:CA:358:U:H2'	54:CA:359:U:C6	2.55	0.41
55:DA:2167:U:P	55:DA:2167:U:C6	3.14	0.41
34:CG:52:SER:O	34:CG:53:ASP:C	2.59	0.41
37:CJ:95:ARG:HA	37:CJ:98:SER:OG	2.20	0.41
1:AA:1337:G:C2	1:AA:1338:G:C4	3.08	0.41
55:DA:1412:A:H2'	55:DA:1413:G:H8	1.85	0.41
1:AA:244:A:C2	1:AA:255:A:C4	3.09	0.41
54:CA:256:U:H2'	54:CA:257:G:H8	1.82	0.41
52:CC:72:C:H2'	52:CC:73:A:C5'	2.50	0.41
1:AA:2798:C:H5	1:AA:2799:A:C6	2.38	0.41
1:AA:706:A:C2	1:AA:707:G:H1'	2.55	0.41
16:D1:110:VAL:O	16:D1:114:LYS:N	2.53	0.41
54:CA:1525:G:OP1	41:CN:120:ARG:NH2	2.53	0.41
31:BA:1098:C:C2	31:BA:1099:G:C8	3.08	0.41
41:CN:57:THR:HG22	41:CN:60:ALA:H	1.85	0.41
55:DA:152:G:H2'	55:DA:153:C:H6	1.85	0.41
1:AA:273(C):C:H3'	1:AA:273(D):C:C6	2.54	0.41
54:CA:1447:G:OP2	54:CA:1447:G:H8	2.02	0.41
53:C1:46:U:H2'	53:C1:47:U:O4'	2.20	0.41
14:AQ:76:LYS:O	14:AQ:79:ALA:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:244:A:C2	55:DA:255:A:C4	3.08	0.41
47:BT:40:LYS:HD3	47:BT:42:TYR:CZ	2.55	0.41
55:DA:281:G:H1'	55:DA:360:G:N2	2.34	0.41
24:DW:23:LYS:HB3	24:DW:23:LYS:HE2	1.53	0.41
17:A2:13:ARG:HG2	17:A2:13:ARG:HH11	1.84	0.41
38:BK:34:GLU:OE1	38:BK:34:GLU:HA	2.20	0.41
4:AE:178:GLU:H	4:AE:178:GLU:HG3	1.50	0.41
46:CS:58:TYR:C	46:CS:58:TYR:CD1	2.93	0.41
55:DA:1056:G:N2	55:DA:1087:G:C6	2.82	0.41
55:DA:1069:A:H4'	55:DA:1070:A:H5''	2.02	0.41
56:DI:7:ARG:HE	56:DI:8:ILE:HD13	1.81	0.41
55:DA:1082:U:O2'	58:DL:117:THR:HG23	2.21	0.41
58:DL:12:LEU:CB	58:DL:13:PRO:CA	2.84	0.41
57:DY:135:ARG:NH1	57:DY:138:LEU:CG	2.74	0.41
57:DY:138:LEU:O	57:DY:139:VAL:CB	2.68	0.41
57:DY:38:HIS:O	57:DY:39:ALA:HB3	2.20	0.41
57:DY:59:ILE:O	57:DY:60:ARG:C	2.57	0.41
57:DY:75:GLN:HG3	57:DY:110:GLY:N	2.34	0.41
31:BA:943:U:C2'	31:BA:944:G:H5'	2.50	0.41
49:BV:41:VAL:N	49:BV:44:MET:HE3	2.16	0.41
30:A8:34:TRP:C	30:A8:36:LYS:N	2.74	0.41
1:AA:887:A:O2'	43:BP:93:ARG:CG	2.68	0.41
43:BP:78:ILE:O	43:BP:80:ARG:N	2.53	0.41
1:AA:2496:C:C2'	1:AA:2497:A:O5'	2.68	0.41
1:AA:859:G:O2'	1:AA:860:U:OP2	2.37	0.41
54:CA:630:G:OP1	54:CA:630:G:O4'	2.38	0.41
6:AG:109:VAL:HG11	26:A4:33:VAL:HG21	2.01	0.41
26:A4:38:LYS:HB3	26:A4:39:CYS:H	1.68	0.41
26:A4:6:HIS:N	26:A4:7:PRO:HD3	2.36	0.41
51:BX:6:ARG:O	51:BX:12:LYS:HG3	2.21	0.41
23:DZ:51:VAL:HG11	23:DZ:74:VAL:HG21	2.01	0.41
23:DZ:83:GLU:O	23:DZ:85:LEU:N	2.53	0.41
23:DZ:91:LYS:CG	23:DZ:92:LYS:H	2.21	0.41
30:D8:22:VAL:HB	30:D8:53:PRO:CB	2.51	0.41
1:AA:242:G:H8	30:A8:4:MET:O	2.03	0.41
4:DE:31:CYS:HB3	4:DE:49:LEU:HD23	2.02	0.41
8:AK:82:ARG:CG	8:AK:82:ARG:NH1	2.82	0.41
8:DK:109:ILE:HG13	8:DK:110:ASP:N	2.36	0.41
16:A1:95:LEU:O	16:A1:97:ASP:N	2.52	0.41
9:AM:43:THR:CG2	9:AM:44:PRO:HD2	2.50	0.41
1:AA:34:C:O2'	1:AA:35:G:O5'	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BG:17:VAL:HG11	34:BG:197:PRO:HB2	2.02	0.41
31:BA:1123:A:H4'	40:BM:36:GLY:HA3	2.03	0.41
1:AA:1111:A:O2'	1:AA:1112:G:C4'	2.69	0.41
1:AA:808:G:H2'	1:AA:809:G:C8	2.56	0.41
3:AD:155:LEU:N	3:AD:155:LEU:CD1	2.80	0.41
11:DO:91:PHE:HZ	11:DO:100:LEU:CD1	2.33	0.41
52:BD:46:G:H21	52:BD:48:C:H1'	1.85	0.41
43:CP:15:VAL:CG1	43:CP:19:LEU:HD21	2.50	0.41
55:DA:1608:A:HO2'	55:DA:1610:A:P	2.43	0.41
12:DP:80:GLU:HA	22:D3:4:LYS:HZ2	1.80	0.41
21:AV:130:PRO:O	21:AV:133:ILE:HD13	2.20	0.41
21:AV:38:TYR:C	21:AV:38:TYR:CD1	2.93	0.41
21:AV:60:GLU:CG	21:AV:61:LEU:N	2.78	0.41
20:AU:30:VAL:O	20:AU:31:LEU:HB2	2.21	0.41
10:AN:98:VAL:HG13	10:AN:118:ALA:HA	2.02	0.41
5:AF:202:PHE:CE1	5:AF:206:ILE:HD11	2.56	0.41
5:AF:36:VAL:O	5:AF:40:GLN:HG2	2.20	0.41
11:AO:1:MET:HB2	11:AO:2:LYS:H	1.66	0.41
54:CA:189:U:C2	47:CT:72:ARG:NH1	2.88	0.41
52:CC:53:G:H2'	52:CC:54:U:C6	2.55	0.41
1:AA:92:G:C5	1:AA:93:C:C5	3.08	0.41
3:AD:24:ILE:HD11	3:AD:84:TYR:HB2	2.01	0.41
14:DQ:8:GLU:H	14:DQ:8:GLU:HG3	1.67	0.41
19:AT:18:TYR:HD1	19:AT:21:PHE:CE2	2.38	0.41
27:D5:4:HIS:CB	27:D5:5:PRO:HD2	2.49	0.41
55:DA:793:A:N6	55:DA:2073:C:OP1	2.54	0.41
8:DK:9:LEU:C	8:DK:10:GLU:O	2.58	0.41
12:DP:68:ILE:HD13	12:DP:103:MET:CE	2.48	0.41
35:CH:76:ILE:HD11	35:CH:118:ILE:HD13	2.01	0.41
38:CK:40:ALA:C	38:CK:42:GLU:H	2.24	0.41
31:BA:1157:A:H2'	31:BA:1157:A:N3	2.35	0.41
31:BA:1176:A:C6	31:BA:1177:G:C6	3.08	0.41
37:BJ:70:LYS:HA	37:BJ:71:PRO:HD2	1.90	0.41
12:DP:3:MET:HA	12:DP:4:PRO:HD3	1.89	0.41
11:DO:42:SER:C	11:DO:44:GLY:N	2.72	0.41
34:CG:154:ASN:O	34:CG:155:LEU:C	2.58	0.41
33:BF:45:LYS:HB2	33:BF:46:GLU:H	1.65	0.41
3:DD:10:THR:O	3:DD:11:PRO:C	2.58	0.41
42:CO:28:LYS:HZ2	42:CO:33:ARG:HH22	1.65	0.41
36:CI:101:ALA:HA	48:CU:28:GLU:HG2	2.01	0.41
33:BF:188:LEU:CD1	33:BF:195:VAL:HG11	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A5:45:VAL:HG12	27:A5:56:LYS:HG3	2.02	0.41
31:BA:701:C:O2'	31:BA:702:A:P	2.78	0.41
6:AG:16:ARG:HB3	6:AG:17:PRO:HD3	2.01	0.41
34:BG:152:SER:O	34:BG:153:ARG:C	2.58	0.41
8:DK:94:ALA:C	8:DK:96:ASP:N	2.73	0.41
10:DN:98:VAL:HG13	10:DN:117:LEU:CB	2.49	0.41
21:DV:130:PRO:O	21:DV:133:ILE:HG13	2.19	0.41
1:AA:2134:A:C2	1:AA:2159:G:H1'	2.55	0.41
11:DO:36:LYS:HB3	11:DO:37:GLY:H	1.64	0.41
46:BS:20:VAL:HG21	46:BS:32:TYR:HB3	2.02	0.41
16:D1:49:HIS:O	16:D1:52:ARG:N	2.54	0.41
4:AE:134:ILE:HB	4:AE:137:HIS:HB2	2.02	0.41
1:AA:1731:G:H3'	1:AA:1731:G:N3	2.34	0.41
52:BC:42:C:O2	52:BC:42:C:H2'	2.21	0.41
34:BG:139:ARG:CG	34:BG:139:ARG:NH1	2.83	0.41
50:CW:13:LEU:HD12	50:CW:14:LYS:N	2.34	0.41
10:DN:2:ILE:N	10:DN:2:ILE:HD13	2.36	0.41
1:AA:222:A:HO2'	1:AA:223:A:P	2.41	0.41
31:BA:664:G:N2	31:BA:741:G:H1	2.10	0.41
55:DA:2213:U:H4'	23:DZ:52:ARG:HH12	1.81	0.41
6:AG:153:ARG:HH11	6:AG:153:ARG:HG2	1.86	0.41
11:AO:48:PRO:CG	11:AO:49:ARG:N	2.83	0.41
10:AN:112:MET:O	10:AN:115:VAL:N	2.52	0.41
16:A1:52:ARG:O	16:A1:56:ASP:HB2	2.20	0.41
55:DA:1496:A:H5'	55:DA:1497:U:OP1	2.20	0.41
31:BA:1010:G:N2	31:BA:1020:U:H1'	2.36	0.41
6:AG:125:PHE:C	6:AG:127:GLY:N	2.73	0.41
55:DA:1204:A:C2	55:DA:1241:A:C2	3.08	0.41
11:DO:3:LEU:HA	11:DO:3:LEU:HD23	1.89	0.41
45:CR:70:LEU:HD11	45:CR:77:ARG:HG3	2.03	0.41
54:CA:1288:A:H2'	54:CA:1289:A:H8	1.85	0.41
32:BE:108:ILE:O	32:BE:108:ILE:CG2	2.68	0.41
12:DP:5:ARG:O	12:DP:6:ARG:O	2.37	0.41
47:BT:44:ALA:HA	47:BT:71:PHE:O	2.20	0.41
55:DA:1505:C:H2'	55:DA:1505:C:O2	2.19	0.41
47:BT:68:ARG:O	47:BT:69:LYS:CB	2.67	0.41
1:AA:1402:C:O2'	1:AA:1403:C:H5'	2.20	0.41
55:DA:443:A:C3'	5:DF:45:ARG:NH1	2.80	0.41
8:AK:49:ALA:C	8:AK:51:ILE:H	2.23	0.41
55:DA:828:U:N3	55:DA:2247:A:H4'	2.32	0.41
52:BC:62:C:H2'	52:BC:63:G:H8	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:814:C:H2'	55:DA:815:C:H6	1.85	0.41
4:DE:176:ILE:CD1	4:DE:176:ILE:N	2.80	0.41
41:BN:12:ARG:HG2	41:BN:13:GLN:N	2.34	0.41
31:BA:440:A:H3'	31:BA:442:C:C6	2.49	0.41
54:CA:1244:C:O2'	54:CA:1245:A:H5'	2.20	0.41
26:A4:15:ILE:O	26:A4:15:ILE:HG22	2.18	0.41
55:DA:278:A:H2'	55:DA:279:C:C6	2.55	0.41
18:DS:12:ILE:HG23	18:DS:17:VAL:HG21	2.02	0.41
7:DH:26:VAL:CG1	7:DH:27:LYS:N	2.84	0.41
12:DP:23:GLY:HA2	12:DP:101:ARG:NH1	2.35	0.41
54:CA:341:C:O2'	54:CA:342:C:H5'	2.20	0.41
31:BA:106:C:O2	31:BA:379:C:H4'	2.20	0.41
55:DA:930:U:O4'	55:DA:930:U:O2	2.37	0.41
31:BA:593:G:H2'	31:BA:594:G:O4'	2.19	0.41
20:DU:12:THR:HG23	20:DU:26:LYS:CE	2.50	0.41
1:AA:1474:C:H3'	1:AA:1475:G:H8	1.85	0.41
1:AA:1412:A:H2'	1:AA:1413:G:H8	1.85	0.41
54:CA:333:G:H2'	54:CA:334:C:C6	2.55	0.41
55:DA:270(Z):U:HO2'	55:DA:271(A):C:P	2.40	0.41
55:DA:2327:A:H2'	55:DA:2328:A:O4'	2.21	0.41
55:DA:994:C:H3'	16:D1:54:LYS:HE3	2.01	0.41
31:BA:1405:G:O4'	31:BA:1519:A:H4'	2.20	0.41
54:CA:1429:C:H2'	54:CA:1430:C:C6	2.55	0.41
30:D8:26:LYS:NZ	30:D8:47:LYS:HD3	2.35	0.41
31:BA:853:G:O2'	31:BA:854:G:H5'	2.20	0.41
1:AA:2827:C:H5'	1:AA:2828:C:OP2	2.21	0.41
52:CD:29:G:C2'	52:CD:30:G:H5'	2.50	0.41
11:AO:135:LEU:HD13	11:AO:135:LEU:O	2.20	0.41
33:CF:69:HIS:CD2	33:CF:69:HIS:N	2.89	0.41
5:DF:203:GLN:HB2	5:DF:203:GLN:HE21	1.66	0.41
37:BJ:80:VAL:HG13	37:BJ:80:VAL:O	2.19	0.41
54:CA:1232:U:H2'	54:CA:1233:G:O4'	2.21	0.41
1:AA:720:C:H2'	1:AA:721:C:H6	1.85	0.41
55:DA:1061:U:O4'	55:DA:1070:A:N3	2.53	0.41
55:DA:1060:U:O2'	55:DA:1061:U:P	2.78	0.41
56:DJ:18:LEU:HA	56:DJ:21:LYS:CG	2.51	0.41
56:DJ:28:LYS:HG2	56:DJ:29:GLU:N	2.35	0.41
58:DL:44:ALA:O	58:DL:45:THR:C	2.59	0.41
57:DY:3:ASN:O	57:DY:5:ARG:N	2.54	0.41
57:DY:7:VAL:HG13	57:DY:8:GLU:CB	2.50	0.41
57:DY:50:ARG:CA	57:DY:83:TYR:HA	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1214:C:C5'	31:BA:1215:G:OP2	2.60	0.41
44:BQ:15:LYS:O	44:BQ:16:PHE:O	2.39	0.41
49:BV:24:ALA:O	49:BV:25:LYS:HB2	2.20	0.41
28:A6:44:ARG:HH11	28:A6:44:ARG:HG2	1.84	0.41
1:AA:642:G:N1	1:AA:645:C:OP2	2.54	0.41
1:AA:917:A:O2'	1:AA:918:A:H5'	2.20	0.41
2:AB:95:U:C6	2:AB:95:U:C3'	3.04	0.41
21:DV:177:PRO:O	21:DV:178:GLU:HG2	2.19	0.41
52:CB:57:G:C4'	21:DV:182:LYS:NZ	2.81	0.41
3:AD:48:ARG:HH11	3:AD:48:ARG:CG	2.34	0.41
3:DD:130:ALA:HB2	3:DD:192:THR:HB	2.02	0.41
6:AG:112:PRO:HB2	26:A4:37:SER:CA	2.48	0.41
31:BA:1352:C:H2'	31:BA:1353:G:H8	1.78	0.41
23:DZ:58:ILE:CG2	23:DZ:87:PRO:HG3	2.51	0.41
49:CV:41:VAL:CG1	49:CV:45:VAL:N	2.83	0.41
31:BA:64:G:H4'	31:BA:66:G:OP1	2.19	0.41
1:AA:1924:C:C4	1:AA:1925:C:C6	2.95	0.41
1:AA:1397:U:O2'	1:AA:1398:C:OP1	2.39	0.41
30:D8:14:VAL:CG1	30:D8:15:LYS:N	2.83	0.41
1:AA:993:G:H1'	17:A2:89:GLN:OE1	2.19	0.41
1:AA:2889:C:O2	1:AA:2889:C:H2'	2.21	0.41
31:BA:1148:U:H4'	39:BL:14:VAL:CG1	2.51	0.41
39:BL:15:ALA:HB2	39:BL:65:VAL:HG23	2.03	0.41
40:BM:37:PRO:HA	40:BM:72:VAL:HG22	2.03	0.41
7:DH:103:LEU:HD23	7:DH:103:LEU:O	2.21	0.41
31:BA:890:G:C2'	31:BA:891:U:OP2	2.68	0.41
50:CW:59:ALA:O	50:CW:63:ILE:HG13	2.20	0.41
17:D2:98:GLU:HB3	17:D2:100:ARG:HG3	2.02	0.41
17:D2:58:VAL:HG21	17:D2:100:ARG:HH12	1.84	0.41
33:CF:76:VAL:HG21	33:CF:103:VAL:HG13	2.02	0.41
32:CE:224:GLN:O	32:CE:226:ARG:N	2.54	0.41
1:AA:1252:G:C2	1:AA:1253:A:C2	3.08	0.41
11:DO:94:GLU:O	11:DO:95:VAL:HB	2.21	0.41
13:D0:96:ARG:HD3	13:D0:98:LEU:HD21	2.02	0.41
31:BA:958:A:C2	49:BV:55:LYS:HB2	2.55	0.41
31:BA:958:A:C6	31:BA:959:A:C6	3.09	0.41
6:DG:106:LEU:HD12	6:DG:110:ALA:CB	2.50	0.41
43:CP:7:VAL:HG21	6:DG:115:ARG:NH1	2.36	0.41
6:DG:115:ARG:CG	6:DG:115:ARG:NH1	2.81	0.41
47:CT:67:LYS:CA	47:CT:70:ARG:NH1	2.73	0.41
21:AV:23:LYS:HB3	21:AV:38:TYR:CD1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AZ:80:LEU:C	23:AZ:81:LYS:NZ	2.70	0.41
52:BD:34:G:H2'	52:BD:35:A:O4'	2.21	0.41
31:BA:872:A:C4	31:BA:874:G:C8	3.08	0.41
32:BE:17:PHE:CZ	32:BE:44:LEU:HB3	2.56	0.41
6:DG:80:PHE:C	6:DG:81:LYS:HG2	2.40	0.41
50:CW:44:ALA:HB1	50:CW:91:LEU:HB2	2.03	0.41
5:DF:68:LYS:HG2	5:DF:69:HIS:CD2	2.55	0.41
24:AW:53:LEU:HD22	24:AW:57:ILE:CD1	2.47	0.41
24:AW:63:VAL:O	24:AW:67:LYS:HD3	2.20	0.41
55:DA:675:A:O2'	55:DA:676:A:H5'	2.20	0.41
22:A3:83:PRO:O	22:A3:84:LEU:C	2.59	0.41
55:DA:589:C:H2'	55:DA:590:A:C8	2.55	0.41
54:CA:1346:A:C5	37:CJ:10:ARG:CZ	3.03	0.41
48:BU:53:ARG:C	48:BU:55:ARG:H	2.22	0.41
1:AA:848:G:H8	1:AA:848:G:H5'	1.85	0.41
11:AO:131:SER:O	11:AO:132:LYS:C	2.59	0.41
36:BI:9:VAL:C	36:BI:10:LEU:HD12	2.40	0.41
21:DV:28:MET:CE	21:DV:67:LEU:HD13	2.49	0.41
33:BF:116:VAL:HG11	33:BF:141:VAL:CG2	2.49	0.41
1:AA:2296:U:O2	1:AA:2333:A:N3	2.53	0.41
54:CA:959:A:C2	54:CA:1221:G:N3	2.82	0.41
50:BW:67:ALA:O	50:BW:69:GLY:N	2.53	0.41
36:CI:37:VAL:CG1	36:CI:38:GLU:N	2.82	0.41
1:AA:588:U:N3	1:AA:589:C:C4	2.89	0.41
11:AO:91:PHE:N	11:AO:91:PHE:HD1	2.18	0.41
1:AA:2712(A):A:H5''	1:AA:2713:A:OP2	2.20	0.41
3:AD:131:LEU:HB2	3:AD:136:ILE:HD11	2.02	0.41
55:DA:2791:C:C2	55:DA:2792:G:C8	3.08	0.41
1:AA:1493:C:C4'	1:AA:1494:A:OP2	2.68	0.41
54:CA:48:C:C4'	54:CA:49:U:OP2	2.66	0.41
1:AA:224:G:H2'	1:AA:225:A:O4'	2.21	0.41
24:AW:9:GLN:O	24:AW:13:ALA:N	2.50	0.41
55:DA:26:G:C6	55:DA:27:G:C2	3.08	0.41
14:AQ:108:GLY:O	14:AQ:109:GLY:C	2.59	0.41
6:AG:131:TYR:HB3	6:AG:159:VAL:HG11	2.02	0.41
1:AA:813:U:OP2	11:AO:23:PRO:O	2.38	0.41
31:BA:31:G:HO2'	31:BA:32:A:P	2.44	0.41
1:AA:404:C:HO2'	1:AA:405:U:P	2.44	0.41
31:BA:765:G:H21	31:BA:813:U:H5	1.68	0.41
5:DF:24:LEU:O	5:DF:25:PRO:C	2.58	0.41
1:AA:2104:G:O2'	1:AA:2105:C:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:922:G:N3	54:CA:1398:A:H2	2.18	0.41
10:AN:120:GLU:OE2	10:AN:122:LEU:HD21	2.20	0.41
31:BA:801:U:H2'	31:BA:802:A:O5'	2.19	0.41
13:A0:34:ILE:HA	13:A0:34:ILE:HD13	1.78	0.41
18:AS:57:ASN:O	18:AS:58:ALA:C	2.59	0.41
1:AA:277:C:O2	1:AA:277:C:H2'	2.19	0.41
2:AB:0:A:N6	2:AB:119:A:N6	2.68	0.41
22:A3:37:LEU:HG	22:A3:60:PHE:HA	2.02	0.41
55:DA:1642:G:O2'	55:DA:1643:G:H5'	2.21	0.41
1:AA:2564:A:OP1	1:AA:2648:C:H4'	2.20	0.41
55:DA:181:A:C2	55:DA:182:A:C4	3.07	0.41
26:A4:15:ILE:N	26:A4:15:ILE:CD1	2.83	0.41
55:DA:1638:C:H2'	55:DA:1639:U:O4'	2.20	0.41
54:CA:1262:C:C4	54:CA:1263:C:N4	2.88	0.41
18:AS:20:VAL:HG23	18:AS:21:VAL:N	2.35	0.41
31:BA:236:G:H2'	31:BA:237:C:H6	1.86	0.41
54:CA:1121:U:H2'	54:CA:1122:U:C6	2.56	0.41
32:BE:180:LEU:O	32:BE:181:PHE:HB2	2.21	0.41
31:BA:823:G:H2'	31:BA:824:C:C6	2.56	0.41
1:AA:709:U:H2'	1:AA:710:G:H8	1.84	0.41
1:AA:554:U:O2'	1:AA:556:G:H8	2.01	0.41
1:AA:2018:G:H2'	1:AA:2019:A:O4'	2.21	0.41
55:DA:1773:A:C5	55:DA:1829:A:H1'	2.55	0.41
10:AN:97:ARG:NH1	31:BA:339:C:OP2	2.54	0.41
52:CB:31:A:H2'	52:CB:32:U:H5'	2.01	0.41
55:DA:1952:A:C5	10:DN:22:ILE:HD12	2.56	0.41
24:DW:10:LEU:HD23	24:DW:10:LEU:HA	1.77	0.41
1:AA:736:C:O2'	1:AA:737:C:H5'	2.20	0.41
13:D0:37:THR:HG1	13:D0:40:LYS:HG3	1.85	0.41
34:CG:85:LYS:HG2	34:CG:86:LYS:O	2.19	0.41
54:CA:230:G:H2'	54:CA:231:G:O4'	2.20	0.41
33:BF:157:ILE:C	33:BF:159:GLY:N	2.74	0.41
25:DX:8:LEU:HD23	25:DX:53:LEU:O	2.21	0.41
54:CA:1213:A:C5	54:CA:1215:G:C4	3.09	0.41
29:D7:15:THR:HG22	29:D7:16:HIS:CE1	2.56	0.41
37:BJ:41:ARG:O	37:BJ:45:ASP:HB2	2.20	0.41
55:DA:571:A:C8	55:DA:575:A:N6	2.89	0.41
54:CA:649:G:C4	54:CA:650:G:C8	3.09	0.41
31:BA:1120:G:H2'	31:BA:1121:U:C6	2.54	0.41
39:BL:56:LEU:O	39:BL:56:LEU:HD23	2.21	0.41
56:DJ:23:LEU:HD22	56:DJ:23:LEU:HA	1.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DL:104:VAL:HG12	58:DL:105:LEU:CA	2.49	0.41
58:DL:19:PRO:HG2	58:DL:38:VAL:HG21	2.03	0.41
57:DY:19:ARG:NH1	57:DY:84:GLU:CD	2.61	0.41
57:DY:48:GLY:C	57:DY:84:GLU:CB	2.83	0.41
57:DY:62:ALA:C	57:DY:63:LEU:CD2	2.77	0.41
21:AV:177:PRO:O	21:AV:178:GLU:HG3	2.21	0.41
52:BB:16:U:H2'	52:BB:17:C:H5'	2.03	0.41
43:CP:123:ALA:HA	43:CP:124:PRO:HD3	1.61	0.41
31:BA:971:G:C6	31:BA:1365:G:H5'	2.55	0.41
54:CA:626:U:H2'	54:CA:627:G:C8	2.56	0.41
54:CA:73:G:N7	54:CA:99:C:N3	2.68	0.41
3:DD:122:ASP:OD2	3:DD:122:ASP:N	2.53	0.41
49:BV:9:VAL:O	49:BV:10:PHE:CG	2.73	0.41
13:D0:31:HIS:C	13:D0:33:ARG:H	2.24	0.41
51:CX:2:GLY:O	51:CX:4:GLY:N	2.54	0.41
54:CA:1200:C:H4'	54:CA:1201:A:C5'	2.42	0.41
4:DE:34:VAL:HG23	4:DE:48:GLN:HB3	2.03	0.41
8:AK:79:ILE:C	8:AK:142:VAL:HG21	2.40	0.41
54:CA:458:C:H2'	54:CA:464:G:H8	1.85	0.41
1:AA:1398:C:O2'	1:AA:1399:C:H5'	2.21	0.41
20:DU:78:ALA:HB3	20:DU:81:LYS:CE	2.49	0.41
9:DM:39:ARG:HH11	9:DM:39:ARG:HB3	1.83	0.41
1:AA:2759:G:C6	1:AA:2760:C:C4	3.09	0.41
50:CW:38:LYS:O	50:CW:41:ILE:HG13	2.21	0.41
11:DO:85:LEU:O	11:DO:88:LEU:HD23	2.21	0.41
24:DW:17:SER:CB	24:DW:18:PRO:CA	2.99	0.41
52:CD:45:U:C5'	52:CD:46:G:OP1	2.63	0.41
6:DG:112:PRO:HB3	26:D4:37:SER:CA	2.51	0.41
16:D1:105:VAL:HG11	17:D2:40:LEU:HD13	2.02	0.41
31:BA:795:C:C5	31:BA:796:C:C5	3.09	0.41
12:DP:76:LYS:HG3	12:DP:77:LYS:O	2.21	0.41
23:AZ:97:LEU:O	23:AZ:98:LEU:OXT	2.39	0.41
8:AK:102:SER:HA	8:AK:106:GLY:CA	2.51	0.41
21:AV:33:LEU:HD23	21:AV:90:VAL:HG21	2.01	0.41
10:AN:64:ARG:O	10:AN:82:ASN:HA	2.21	0.41
55:DA:1126:A:H8	55:DA:1126:A:OP1	2.04	0.41
32:BE:12:GLU:O	32:BE:13:ALA:C	2.58	0.41
55:DA:2311:A:H8	6:DG:88:ILE:HG13	1.85	0.41
55:DA:238:C:O2'	55:DA:608:A:H1'	2.21	0.41
1:AA:2425:A:H4'	1:AA:2426:A:O5'	2.20	0.41
1:AA:140:A:H1'	1:AA:1408:C:O2'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:42:C:O2	6:DG:93:THR:N	2.40	0.41
55:DA:1813:G:O2'	3:DD:44:ASN:HA	2.21	0.41
29:D7:8:ASN:ND2	29:D7:8:ASN:O	2.47	0.41
24:AW:60:LEU:HD12	24:AW:60:LEU:N	2.35	0.41
24:DW:69:ARG:O	24:DW:70:GLN:O	2.39	0.41
26:D4:8:LYS:O	26:D4:9:LEU:HB3	2.20	0.41
35:CH:118:ILE:HG13	35:CH:119:LEU:N	2.35	0.41
35:CH:76:ILE:CB	35:CH:77:PRO:HD2	2.49	0.41
23:AZ:58:ILE:HG22	23:AZ:60:PHE:CE1	2.55	0.41
31:BA:1156:G:C3'	31:BA:1157:A:H5''	2.51	0.41
39:BL:99:LEU:HD22	39:BL:99:LEU:N	2.36	0.41
55:DA:857:C:C4	55:DA:858:U:C4	3.09	0.41
55:DA:860:U:O4	55:DA:917:A:H2	2.04	0.41
47:BT:34:LYS:O	47:BT:35:VAL:C	2.58	0.41
31:BA:1206:G:H4'	33:BF:192:THR:C	2.41	0.41
21:DV:72:ARG:HH11	21:DV:72:ARG:CG	2.31	0.41
50:BW:48:LYS:O	50:BW:49:ALA:C	2.59	0.41
31:BA:518:C:C5'	31:BA:519:C:O5'	2.68	0.41
33:BF:32:LEU:O	33:BF:35:GLU:CB	2.68	0.41
33:BF:94:LEU:HD12	33:BF:94:LEU:C	2.40	0.41
44:BQ:47:LEU:HB2	44:BQ:53:LEU:CD1	2.49	0.41
55:DA:1138:G:O2'	9:DM:105:GLY:HA3	2.20	0.41
43:CP:108:ARG:CD	43:CP:108:ARG:H	2.25	0.41
31:BA:711:G:HO2'	31:BA:712:A:H5'	1.86	0.41
48:CU:26:LEU:HD13	48:CU:42:ARG:NH1	2.35	0.41
1:AA:587:C:O2'	1:AA:588:U:P	2.79	0.41
1:AA:588:U:H1'	5:AF:90:PHE:HB3	2.03	0.41
42:CO:120:TYR:O	42:CO:121:GLY:C	2.59	0.41
55:DA:70:G:OP2	55:DA:70:G:H8	2.03	0.41
54:CA:642:A:N3	38:CK:113:SER:OG	2.39	0.41
1:AA:2130:U:H1'	1:AA:2134:A:O4'	2.21	0.41
11:DO:37:GLY:O	11:DO:38:GLN:CB	2.69	0.41
15:DR:85:LYS:HE2	15:DR:87:ASP:CG	2.41	0.41
54:CA:545:C:O2'	54:CA:549:C:OP1	2.38	0.41
22:A3:70:GLN:NE2	22:A3:80:HIS:HE2	2.19	0.41
32:BE:83:MET:O	32:BE:86:GLU:N	2.53	0.41
36:BI:69:GLU:CD	36:BI:69:GLU:H	2.23	0.41
54:CA:372:C:O2'	54:CA:373:A:P	2.78	0.41
54:CA:390:C:O3'	46:CS:28:ARG:NH2	2.52	0.41
54:CA:1148:U:H2'	54:CA:1149:C:O4'	2.21	0.41
54:CA:449:C:C5	54:CA:450:G:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:60:A:HO2'	54:CA:61:G:P	2.43	0.41
32:CE:95:GLN:HE21	32:CE:147:LYS:CE	2.33	0.41
6:AG:145:THR:OG1	6:AG:148:MET:HB2	2.20	0.41
45:BR:64:ARG:HG2	45:BR:64:ARG:HH11	1.84	0.41
14:AQ:26:LEU:O	14:AQ:26:LEU:CD2	2.65	0.41
1:AA:1362:C:C2'	1:AA:1363:C:H5'	2.51	0.41
1:AA:1365:A:H5'	23:AZ:12:PRO:HG2	2.03	0.41
9:DM:71:ILE:N	9:DM:71:ILE:CD1	2.70	0.41
55:DA:653:A:H5''	55:DA:654:A:OP2	2.19	0.41
33:CF:84:ILE:O	33:CF:84:ILE:HG12	2.21	0.41
3:AD:11:PRO:C	3:AD:13:ARG:H	2.23	0.41
21:AV:14:LYS:HA	21:AV:15:PRO:HD3	1.89	0.41
54:CA:778:G:O5'	54:CA:778:G:H8	2.03	0.41
45:CR:9:GLN:HA	45:CR:12:ILE:HD12	2.03	0.41
1:AA:2742:C:C4	1:AA:2763:G:N2	2.88	0.41
54:CA:1389:C:H2'	54:CA:1390:U:O4'	2.21	0.41
1:AA:2283:C:C6	1:AA:2389:G:H2'	2.56	0.41
1:AA:2388:A:H5'	1:AA:2389:G:OP2	2.20	0.41
7:AH:11:VAL:HG23	7:AH:11:VAL:O	2.19	0.41
54:CA:706:A:O2'	41:CN:31:THR:CG2	2.69	0.41
1:AA:372:G:O2'	1:AA:373:U:C5	2.73	0.41
55:DA:164:U:C5	55:DA:165:U:H5	2.39	0.41
49:CV:14:HIS:CD2	49:CV:35:SER:HB2	2.51	0.41
31:BA:84:U:H3'	31:BA:85:U:C4	2.56	0.41
45:BR:66:LEU:O	45:BR:67:LEU:C	2.58	0.41
34:BG:52:SER:H	34:BG:55:ALA:HB3	1.85	0.41
1:AA:2641:G:P	9:AM:74:ARG:HH21	2.44	0.41
36:BI:53:ALA:O	36:BI:54:LYS:HB3	2.20	0.41
1:AA:718:A:H8	1:AA:718:A:O5'	2.03	0.41
15:DR:57:PHE:CG	15:DR:58:ASN:N	2.88	0.41
6:AG:9:ARG:C	6:AG:11:TYR:N	2.74	0.41
54:CA:673:G:O3'	36:CI:87:ARG:NH2	2.53	0.41
31:BA:930:C:C2'	31:BA:931:C:H5'	2.51	0.41
33:BF:127:ARG:NH1	33:BF:127:ARG:HG2	2.34	0.41
54:CA:894:G:C6	54:CA:895:G:C5	3.08	0.41
6:DG:31:VAL:HG13	6:DG:31:VAL:O	2.21	0.41
24:DW:8:LYS:CB	24:DW:8:LYS:NZ	2.84	0.41
55:DA:2817:G:C5	55:DA:2830:G:C2	3.08	0.41
18:AS:29:LEU:CD1	18:AS:51:LEU:HD11	2.51	0.41
55:DA:57:C:H2'	55:DA:58:G:O4'	2.21	0.41
55:DA:1374:G:C6	55:DA:1375:C:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BV:52:TYR:HA	49:BV:57:HIS:HA	2.02	0.41
55:DA:2321:G:N3	55:DA:2321:G:C2'	2.84	0.41
55:DA:146:G:H2'	55:DA:147:U:O4'	2.21	0.41
34:BG:60:GLU:OE1	34:BG:202:LEU:HD12	2.21	0.41
1:AA:297:C:O2'	1:AA:298:G:H5'	2.20	0.41
1:AA:1108:U:H2'	1:AA:1109:C:O4'	2.20	0.41
26:A4:4:GLY:O	26:A4:5:ILE:HB	2.20	0.41
55:DA:669:G:H2'	55:DA:669:G:N3	2.35	0.41
21:DV:31:ARG:HB2	21:DV:31:ARG:HE	1.54	0.41
55:DA:1586:A:O4'	55:DA:1586:A:N3	2.53	0.41
3:AD:61:LEU:HA	3:AD:61:LEU:HD12	1.80	0.41
43:CP:27:LYS:O	43:CP:31:LYS:HG3	2.20	0.41
43:CP:27:LYS:HB3	43:CP:31:LYS:HE3	2.03	0.41
54:CA:506:G:C6	54:CA:507:C:C4	3.09	0.41
55:DA:1099:G:H3'	55:DA:1099:G:C8	2.55	0.41
56:DJ:18:LEU:HA	56:DJ:18:LEU:HD23	1.70	0.41
55:DA:1059:G:N2	58:DL:126:MET:C	2.72	0.41
58:DL:144:VAL:HG22	58:DL:145:LYS:N	2.35	0.41
55:DA:1060:U:C5	58:DL:74:ALA:HB2	2.45	0.41
57:DY:26:LEU:CD2	57:DY:112:LEU:HB3	2.51	0.41
57:DY:16:ASN:ND2	57:DY:25:PHE:CE2	2.86	0.41
1:AA:896:A:H2	21:AV:178:GLU:CD	2.24	0.41
21:AV:116:VAL:CG1	21:AV:117:LEU:N	2.72	0.41
31:BA:1320:C:N4	31:BA:1321:C:H41	2.19	0.41
28:A6:25:LYS:HB3	30:A8:34:TRP:CZ2	2.56	0.41
54:CA:533:A:O2'	54:CA:534:U:O5'	2.39	0.41
3:AD:43:ARG:HB3	3:AD:54:ARG:HB2	2.03	0.41
26:A4:40:HIS:N	26:A4:41:PRO:CD	2.83	0.41
6:AG:7:LEU:HD22	6:AG:100:TRP:HZ3	1.85	0.41
6:AG:114:ILE:CD1	6:AG:140:ILE:HG21	2.50	0.41
23:DZ:87:PRO:O	23:DZ:89:GLU:N	2.54	0.41
27:D5:58:LEU:N	27:D5:58:LEU:HD12	2.36	0.41
40:BM:31:GLY:O	40:BM:78:ASN:ND2	2.53	0.41
54:CA:1100:C:O2'	54:CA:1101:A:H5'	2.21	0.41
4:DE:27:LEU:HD21	15:DR:1:MET:HE1	2.03	0.41
55:DA:2377:A:H2'	55:DA:2378:A:C8	2.56	0.41
28:D6:11:LEU:HG	28:D6:51:GLU:HG3	2.02	0.41
55:DA:2286:A:H8	55:DA:2287:A:C6	2.38	0.41
16:A1:100:VAL:C	16:A1:102:GLU:N	2.74	0.41
17:A2:98:GLU:O	17:A2:99:ILE:HB	2.21	0.41
1:AA:1965:C:H2'	1:AA:1966:A:H8	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:456:C:H3'	1:AA:456:C:H6	1.85	0.41
5:AF:84:VAL:O	5:AF:85:GLY:C	2.59	0.41
1:AA:1225:C:O2'	17:A2:85:LYS:N	2.36	0.41
4:AE:48:GLN:CD	4:AE:78:LEU:HD12	2.40	0.41
4:AE:48:GLN:O	4:AE:78:LEU:HB2	2.21	0.41
31:BA:1256:A:H61	31:BA:1278:U:P	2.42	0.41
55:DA:119:A:C4'	55:DA:120:U:OP1	2.68	0.41
33:CF:70:VAL:HG12	33:CF:72:LYS:N	2.05	0.41
32:CE:204:ASN:ND2	32:CE:204:ASN:C	2.74	0.41
13:D0:56:LYS:C	13:D0:58:GLY:N	2.72	0.41
43:CP:15:VAL:HG12	43:CP:19:LEU:CD2	2.50	0.41
6:DG:7:LEU:HD22	6:DG:100:TRP:CE3	2.56	0.41
6:DG:111:LEU:HD13	6:DG:120:LEU:HD21	2.03	0.41
16:D1:108:GLU:OE1	16:D1:112:ARG:HG2	2.21	0.41
17:D2:6:LYS:HA	17:D2:11:GLN:HA	2.02	0.41
12:DP:10:ARG:HG2	12:DP:10:ARG:H	1.64	0.41
21:AV:99:TYR:CE1	21:AV:125:LEU:HB2	2.56	0.41
54:CA:562:C:O2'	42:CO:15:ARG:CB	2.48	0.41
24:DW:43:GLN:O	24:DW:44:LEU:CG	2.69	0.41
21:AV:60:GLU:HG3	21:AV:61:LEU:O	2.21	0.41
5:AF:192:LEU:HD21	5:AF:194:MET:HG2	2.02	0.41
32:BE:15:VAL:O	32:BE:15:VAL:HG12	2.19	0.41
13:A0:77:ARG:O	13:A0:80:PHE:N	2.53	0.41
13:A0:79:LEU:CD2	13:A0:79:LEU:C	2.89	0.41
55:DA:241:A:O4'	55:DA:243:U:C6	2.73	0.41
5:AF:164:ARG:HD3	5:AF:175:THR:OG1	2.21	0.41
55:DA:2505:G:H2'	55:DA:2576:G:O6	2.20	0.41
1:AA:1312:U:HO2'	1:AA:1314:C:H41	1.65	0.41
3:AD:111:LEU:HD22	3:AD:115:GLN:NE2	2.36	0.41
1:AA:71:A:O2'	1:AA:72:U:OP2	2.39	0.41
1:AA:2784:C:C4'	4:AE:41:LYS:O	2.64	0.41
55:DA:319:C:H2'	55:DA:320:A:O4'	2.20	0.41
35:CH:92:LYS:HA	35:CH:93:PRO:HD2	1.92	0.41
1:AA:1103:A:H2'	1:AA:1104:C:C5'	2.49	0.41
55:DA:774:A:H2'	55:DA:775:G:OP2	2.21	0.41
21:DV:33:LEU:O	21:DV:34:ASN:HB2	2.20	0.41
1:AA:571:A:C6	1:AA:575:A:C8	3.08	0.41
6:DG:16:ARG:NH1	6:DG:16:ARG:CG	2.75	0.41
10:DN:77:ILE:CG2	10:DN:77:ILE:O	2.68	0.41
2:AB:7:G:C2'	2:AB:8:U:H5''	2.50	0.41
55:DA:1510:A:O2'	55:DA:1511:A:C8	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1348:G:C2'	55:DA:1349:A:C5'	2.93	0.41
4:DE:92:THR:HG22	4:DE:93:VAL:H	1.86	0.41
43:CP:108:ARG:CG	43:CP:108:ARG:HH11	2.33	0.41
54:CA:1228:C:OP2	43:CP:108:ARG:NH2	2.54	0.41
31:BA:679:C:H2'	31:BA:680:C:C6	2.55	0.41
31:BA:687:A:H1'	31:BA:688:G:O4'	2.21	0.41
55:DA:2275:C:O2	12:DP:83:MET:HG2	2.21	0.41
55:DA:2115:G:H1'	55:DA:2171:A:N6	2.34	0.41
1:AA:1851:U:O2'	52:BD:71:G:H1'	2.20	0.41
37:BJ:35:LYS:NZ	37:BJ:38:LEU:HD22	2.36	0.41
31:BA:216:G:O2'	31:BA:217:C:C6	2.50	0.41
31:BA:556:C:C2'	31:BA:557:G:H5'	2.51	0.41
3:DD:176:ARG:CG	3:DD:176:ARG:NH1	2.82	0.41
1:AA:2729:G:O2'	4:AE:170:LEU:HD11	2.20	0.41
13:D0:79:LEU:HA	13:D0:83:ILE:CG1	2.43	0.41
10:AN:101:PRO:O	10:AN:102:VAL:HG13	2.21	0.41
11:AO:38:GLN:HG2	11:AO:45:LEU:CD1	2.49	0.41
22:A3:72:ARG:CZ	22:A3:75:LEU:HD12	2.51	0.41
1:AA:2848:G:H2'	1:AA:2867:G:H22	1.85	0.41
14:AQ:106:ARG:HA	14:AQ:110:LEU:HD11	2.01	0.41
41:BN:66:LEU:O	41:BN:67:ASP:C	2.59	0.41
33:CF:83:ARG:C	33:CF:85:ARG:H	2.24	0.41
54:CA:16:A:C2'	54:CA:17:U:H5'	2.51	0.41
24:AW:68:ARG:NH1	24:AW:68:ARG:CG	2.84	0.41
35:CH:48:ALA:HB1	35:CH:49:PRO:HD2	2.03	0.41
1:AA:218:A:O5'	1:AA:218:A:H8	2.04	0.41
47:BT:10:VAL:HG21	47:BT:55:ASP:HB2	2.03	0.41
7:AH:10:PRO:HB2	7:AH:50:VAL:CG1	2.51	0.41
41:BN:34:ASP:OD2	41:BN:34:ASP:C	2.59	0.41
55:DA:422:A:C6	55:DA:423:A:C6	3.08	0.41
8:AK:10:GLU:OE2	8:AK:11:ASN:N	2.54	0.41
1:AA:536:A:H2'	1:AA:537:C:O4'	2.21	0.41
54:CA:812:C:O2'	54:CA:813:U:H6	2.03	0.41
19:AT:64:LYS:HD3	19:AT:73:ARG:CD	2.50	0.41
24:AW:30:ARG:O	24:AW:31:GLU:C	2.58	0.41
27:D5:13:LYS:HG2	27:D5:16:ARG:NH2	2.35	0.41
32:BE:193:ASP:OD2	32:BE:193:ASP:O	2.37	0.41
14:AQ:71:ARG:O	14:AQ:75:GLU:HG3	2.19	0.41
5:AF:20:LEU:HD13	5:AF:199:TRP:HH2	1.85	0.41
45:BR:2:PRO:HG2	45:BR:3:ILE:CD1	2.50	0.41
15:AR:80:SER:HA	15:AR:81:PRO:HD3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:422:C:HO2'	31:BA:423:G:N2	2.17	0.41
31:BA:659:U:H2'	31:BA:660:G:C8	2.56	0.41
7:DH:32:GLU:O	7:DH:33:LEU:HD23	2.20	0.41
43:CP:40:ASN:ND2	43:CP:42:ALA:HB3	2.33	0.41
54:CA:439:A:C4	54:CA:496:A:C2	3.08	0.41
55:DA:809:G:O2'	55:DA:810:U:H5'	2.21	0.41
23:DZ:63:ALA:C	23:DZ:65:SER:N	2.71	0.41
52:CB:28:G:H2'	52:CB:29:G:H8	1.86	0.41
47:CT:27:PHE:HB2	47:CT:28:PRO:CD	2.50	0.41
31:BA:356:A:H2'	31:BA:357:G:O4'	2.21	0.41
31:BA:575:G:O2'	31:BA:576:G:O5'	2.35	0.41
55:DA:1893:C:H2'	55:DA:1894:C:C5'	2.50	0.41
55:DA:2152:G:H2'	55:DA:2153:G:H8	1.86	0.41
15:AR:54:ARG:HG2	15:AR:54:ARG:HH11	1.85	0.41
18:DS:34:ASN:O	18:DS:35:ILE:C	2.58	0.41
55:DA:2485:G:O2'	55:DA:2486:G:H5'	2.21	0.41
1:AA:734:A:H2'	1:AA:735:A:O4'	2.20	0.41
54:CA:743:U:H2'	54:CA:744:C:C6	2.55	0.41
3:AD:156:ALA:O	3:AD:157:ARG:HB3	2.20	0.41
15:AR:64:ARG:HA	15:AR:72:VAL:O	2.20	0.41
55:DA:709:U:H2'	55:DA:710:G:C8	2.56	0.41
41:CN:90:GLY:O	41:CN:91:ARG:C	2.59	0.41
55:DA:357:A:H2'	55:DA:358:U:C6	2.55	0.41
53:B1:46:U:O2'	53:B1:47:U:H5'	2.20	0.41
55:DA:2588:G:O2'	55:DA:2589:A:H5'	2.19	0.41
52:CD:49:C:O5'	52:CD:49:C:H6	2.04	0.41
31:BA:1359:C:H6	31:BA:1359:C:O5'	2.04	0.41
55:DA:2473:U:O2	55:DA:2473:U:H2'	2.20	0.41
58:DL:112:MET:HG2	58:DL:120:LEU:HB2	2.02	0.41
57:DY:21:GLN:NE2	57:DY:21:GLN:C	2.65	0.41
1:AA:898:C:N4	1:AA:899:A:C6	2.88	0.41
28:A6:24:GLU:O	30:A8:34:TRP:CZ3	2.74	0.41
1:AA:2420:C:OP1	30:A8:34:TRP:HB3	2.21	0.41
30:A8:40:GLU:O	30:A8:41:ILE:HB	2.20	0.41
46:CS:9:PHE:HB3	46:CS:10:GLY:H	1.64	0.41
26:A4:12:ALA:HB3	26:A4:29:PRO:O	2.20	0.41
31:BA:1313:U:H5	49:BV:4:SER:HB2	1.85	0.41
1:AA:2715:C:H2'	1:AA:2716:U:H6	1.85	0.41
27:D5:60:VAL:CG1	27:D5:60:VAL:OXT	2.69	0.41
49:CV:41:VAL:HG12	49:CV:45:VAL:H	1.86	0.41
49:CV:42:PRO:CD	26:D4:63:TYR:HE2	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:2517:C:O2'	55:DA:2518:A:H3'	2.20	0.41
30:A8:6:THR:OG1	30:A8:8:LYS:HE3	2.21	0.41
21:DV:154:ASP:HB2	21:DV:155:LEU:H	1.59	0.41
28:D6:42:TRP:O	28:D6:43:CYS:CB	2.68	0.41
55:DA:2284:C:H41	28:D6:25:LYS:NZ	2.18	0.41
1:AA:996:A:H2'	1:AA:997:G:H8	1.86	0.41
1:AA:2888:C:C2	1:AA:2889:C:C6	3.08	0.41
9:DM:42:TRP:HA	9:DM:48:MET:CE	2.51	0.41
31:BA:1133:G:H2'	31:BA:1134:G:H8	1.85	0.41
55:DA:50:U:C4'	55:DA:51:G:OP2	2.59	0.41
17:D2:15:GLU:O	17:D2:18:LEU:HB2	2.21	0.41
32:CE:48:MET:O	32:CE:49:GLU:C	2.59	0.41
31:BA:1028:C:N4	31:BA:1028(A):C:H41	2.18	0.41
45:CR:79:ARG:HA	45:CR:82:ILE:CG2	2.51	0.41
11:DO:82:GLY:HA2	11:DO:113:LYS:O	2.21	0.41
18:DS:15:ARG:CA	18:DS:18:ARG:HD2	2.48	0.41
43:CP:15:VAL:HG11	43:CP:34:LEU:HD21	2.03	0.41
17:D2:44:LYS:HE2	17:D2:44:LYS:HB3	1.81	0.41
31:BA:792:A:N3	31:BA:794:A:N7	2.68	0.41
54:CA:877:C:H5''	38:CK:88:LYS:CD	2.51	0.41
21:AV:132:ASN:OD1	21:AV:132:ASN:O	2.38	0.41
21:AV:33:LEU:CG	21:AV:34:ASN:N	2.83	0.41
7:AH:107:VAL:HG23	7:AH:109:PHE:CE1	2.56	0.41
20:AU:47:LYS:HG3	20:AU:60:PHE:CB	2.45	0.41
5:AF:18:ARG:O	5:AF:19:GLU:CB	2.67	0.41
5:AF:31:HIS:NE2	5:AF:35:GLU:OE1	2.51	0.41
6:DG:85:GLY:O	6:DG:86:MET:CB	2.68	0.41
1:AA:2258:C:C4'	1:AA:2259:G:OP2	2.65	0.41
2:DB:21:G:H5'	2:DB:21:G:C8	2.52	0.41
1:AA:1819:A:O2'	1:AA:1820:U:OP2	2.26	0.41
55:DA:467:G:O2'	55:DA:468:G:H5'	2.21	0.41
54:CA:186:C:O3'	50:CW:82:SER:HA	2.21	0.41
54:CA:1347:G:OP2	39:CL:107:ARG:HG2	2.21	0.41
39:BL:53:VAL:HG13	39:BL:95:LYS:HE3	2.03	0.41
53:C1:33:G:C2'	53:C1:34:G:C8	2.96	0.41
55:DA:1718:G:C3'	55:DA:1725:G:C5'	2.97	0.41
11:AO:95:VAL:HG23	11:AO:125:VAL:HG23	2.02	0.41
34:CG:67:ILE:HG22	34:CG:68:TYR:CD1	2.56	0.41
5:DF:9:ILE:HA	5:DF:10:PRO:HD2	1.86	0.41
21:AV:102:LEU:HD21	21:AV:124:ILE:HG21	2.01	0.41
55:DA:1248:G:C4	16:D1:3:ARG:HG3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BF:62:ASP:HA	33:BF:97:LYS:CD	2.50	0.41
33:BF:62:ASP:HA	33:BF:97:LYS:HD2	2.02	0.41
41:BN:27:ASN:CG	41:BN:28:THR:N	2.73	0.41
31:BA:706:A:O4'	41:BN:29:ILE:HD11	2.20	0.41
3:DD:181:GLU:HA	3:DD:272:ALA:CB	2.40	0.41
55:DA:1510:A:OP1	55:DA:1511:A:C5'	2.60	0.41
31:BA:173:U:H1'	31:BA:197:A:C6	2.55	0.41
55:DA:2304:G:N2	6:DG:156:ASP:CG	2.60	0.41
50:BW:67:ALA:CB	50:BW:73:HIS:HA	2.51	0.41
32:BE:56:ARG:CG	32:BE:56:ARG:HH11	2.34	0.41
31:BA:797:C:O2'	31:BA:798:G:H5'	2.19	0.41
55:DA:863:A:O2'	55:DA:864:G:H5'	2.21	0.41
55:DA:2126:A:O2'	55:DA:2127:G:C5'	2.67	0.41
1:AA:2712:U:O2'	1:AA:2712(A):A:P	2.78	0.41
15:DR:33:LYS:HG3	15:DR:82:LEU:C	2.41	0.41
46:BS:51:VAL:CG1	46:BS:52:ASP:N	2.82	0.41
32:BE:151:GLY:C	32:BE:153:ARG:H	2.22	0.41
33:CF:119:ARG:HG3	33:CF:119:ARG:NH1	2.34	0.41
1:AA:1857:G:N2	1:AA:1886:C:N4	2.68	0.41
1:AA:2839:G:H4'	13:A0:49:ASP:CB	2.50	0.41
54:CA:1297:C:C2'	54:CA:1298:C:OP2	2.68	0.41
49:CV:3:ARG:O	49:CV:4:SER:HB3	2.21	0.41
8:DK:99:GLU:HG2	8:DK:103:ARG:HH21	1.80	0.41
45:BR:39:LEU:HD13	45:BR:39:LEU:O	2.20	0.41
39:CL:3:GLN:HB3	39:CL:20:ARG:CD	2.44	0.41
9:AM:19:GLU:C	9:AM:21:LYS:H	2.24	0.41
54:CA:943:U:H2'	54:CA:944:G:H5'	2.03	0.41
2:DB:48:A:H4'	14:DQ:95:HIS:HD2	1.86	0.41
55:DA:387:U:C4'	55:DA:388:G:O5'	2.63	0.41
54:CA:1422:G:H2'	54:CA:1423:G:H8	1.86	0.41
33:CF:83:ARG:O	33:CF:86:VAL:HG22	2.21	0.41
15:AR:103:ARG:O	15:AR:105:LEU:N	2.54	0.41
15:AR:62:THR:HG22	15:AR:75:ILE:HG23	2.02	0.41
8:DK:29:TYR:O	8:DK:33:ARG:HB2	2.20	0.41
45:CR:65:ARG:HH11	45:CR:65:ARG:HB2	1.84	0.41
1:AA:2762:G:H5'	1:AA:2763:G:OP2	2.20	0.41
31:BA:484:G:H4'	31:BA:485:G:O5'	2.20	0.41
52:CB:5:G:O2'	52:CB:6:G:H5'	2.21	0.41
55:DA:2314:C:O2'	55:DA:2315:G:H5'	2.19	0.41
55:DA:974:G:N2	55:DA:989:G:O2'	2.53	0.41
32:BE:69:LEU:C	32:BE:69:LEU:HD23	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DZ:54:ALA:HB2	23:DZ:80:LEU:CD2	2.51	0.41
55:DA:2401:U:C2'	55:DA:2402:C:H5''	2.46	0.41
34:BG:165:MET:CE	34:BG:168:ARG:HB2	2.48	0.41
34:BG:173:TRP:CZ3	34:BG:193:ASP:HB3	2.56	0.41
34:BG:173:TRP:HB2	34:BG:187:ARG:O	2.21	0.41
18:DS:110:LYS:HD2	18:DS:110:LYS:HA	1.78	0.41
55:DA:1668:A:H61	55:DA:1676:A:N6	2.18	0.41
1:AA:1082:U:H6	1:AA:1082:U:O5'	2.04	0.41
35:BH:12:LEU:CD2	35:BH:13:ILE:N	2.84	0.41
1:AA:2798:C:H5	1:AA:2799:A:N6	2.19	0.41
31:BA:158:G:H2'	31:BA:159:G:H5'	2.02	0.41
9:AM:6:PRO:C	9:AM:7:LYS:HZ3	2.23	0.41
41:CN:103:LEU:CD2	41:CN:103:LEU:H	2.33	0.41
54:CA:134:A:H61	46:CS:25:ARG:NH1	2.18	0.41
18:DS:11:ARG:NH2	18:DS:99:ARG:N	2.69	0.41
15:AR:124:ASP:C	15:AR:126:ALA:N	2.73	0.41
54:CA:392:G:C5'	46:CS:12:LYS:HG3	2.50	0.41
55:DA:1590:U:H2'	55:DA:1591:G:H8	1.84	0.41
1:AA:2576:G:H3'	1:AA:2576:G:N3	2.36	0.41
3:AD:172:TYR:HD1	3:AD:185:VAL:C	2.24	0.41
55:DA:707:G:H2'	55:DA:708:C:O4'	2.21	0.41
54:CA:1476:G:H2'	54:CA:1477:C:C6	2.56	0.41
1:AA:1066:U:H6	1:AA:1066:U:O5'	2.03	0.41
3:AD:79:VAL:O	3:AD:79:VAL:HG12	2.19	0.41
1:AA:1725:G:H2'	1:AA:1725:G:N3	2.35	0.41
1:AA:2691:C:H5'	1:AA:2691:C:H6	1.86	0.41
52:CC:17:C:H6	52:CC:17:C:P	2.44	0.41
55:DA:568:U:H5'	55:DA:945:A:C2	2.56	0.41
1:AA:714:U:H2'	1:AA:716:A:OP2	2.21	0.41
8:AK:93:THR:H	8:AK:96:ASP:HB2	1.86	0.41
15:AR:11:GLU:O	15:AR:14:TYR:HD1	2.04	0.41
15:AR:6:LEU:CA	15:AR:9:LEU:HD12	2.50	0.41
55:DA:1083:U:H2'	55:DA:1084:A:H5'	2.02	0.41
55:DA:1068:G:H4'	55:DA:1096:A:H2	1.85	0.41
56:DI:15:ALA:O	56:DI:19:GLU:CG	2.67	0.41
58:DL:18:THR:HG23	58:DL:42:ASN:OD1	2.20	0.41
57:DY:135:ARG:O	57:DY:139:VAL:N	2.54	0.41
55:DA:1086:A:H2	57:DY:41:ARG:HH21	1.58	0.41
55:DA:1082:U:O2'	58:DL:117:THR:CG2	2.69	0.41
56:DI:27:LEU:HB2	56:DI:28:LYS:H	1.66	0.41
56:DI:29:GLU:OE2	56:DJ:6:GLU:OE2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DJ:8:ILE:HA	56:DJ:11:GLU:CB	2.51	0.41
57:DY:136:ALA:C	57:DY:139:VAL:HB	2.40	0.41
57:DY:40:LEU:O	57:DY:41:ARG:HB2	2.20	0.41
21:AV:137:ILE:HG22	21:AV:138:GLU:N	2.36	0.41
31:BA:941:G:H2'	31:BA:942:G:O5'	2.21	0.41
26:A4:63:TYR:CD2	49:BV:41:VAL:HG13	2.56	0.41
49:BV:19:VAL:HG11	49:BV:44:MET:HB3	1.97	0.41
1:AA:389:G:H22	11:AO:72:PRO:HG2	1.85	0.41
1:AA:1371:G:O2'	1:AA:1372:U:C5	2.60	0.41
1:AA:944:G:OP1	1:AA:945:A:H3'	2.21	0.41
1:AA:858:U:H5''	1:AA:859:G:OP2	2.20	0.41
1:AA:858:U:O2'	1:AA:2268:A:O2'	2.30	0.41
12:AP:16:ARG:HH11	12:AP:16:ARG:CG	2.33	0.41
52:CB:56:C:C5	55:DA:896:A:O2'	2.72	0.41
21:DV:111:VAL:HG21	21:DV:146:ILE:HG13	1.99	0.41
54:CA:630:G:C8	54:CA:630:G:H5''	2.53	0.41
3:DD:137:PRO:HB2	3:DD:140:THR:HG23	2.03	0.41
3:DD:137:PRO:HB2	3:DD:140:THR:CG2	2.50	0.41
26:A4:18:CYS:N	26:A4:36:CYS:SG	2.93	0.41
43:BP:45:VAL:O	43:BP:45:VAL:HG12	2.21	0.41
51:BX:9:ARG:HH21	51:BX:10:ARG:CG	2.33	0.41
26:D4:55:ARG:O	26:D4:56:VAL:C	2.59	0.41
43:CP:83:ASP:N	43:CP:93:ARG:NH2	2.64	0.41
40:BM:26:ALA:HB3	40:BM:85:LEU:HD21	2.02	0.41
30:A8:61:LEU:O	30:A8:64:TYR:N	2.53	0.41
54:CA:1004:A:C6	54:CA:1025:U:C1'	3.03	0.41
20:DU:38:ILE:HG22	20:DU:66:PRO:CA	2.50	0.41
54:CA:1364:U:C2'	54:CA:1364:U:O2	2.66	0.41
54:CA:973:G:N3	40:CM:55:LYS:CE	2.84	0.41
4:DE:60:ASN:OD1	4:DE:61:ARG:N	2.54	0.41
8:AK:145:VAL:O	8:AK:146:ALA:C	2.60	0.41
14:DQ:102:ALA:O	14:DQ:105:ALA:HB3	2.20	0.41
8:DK:128:LEU:HD22	8:DK:128:LEU:HA	1.94	0.41
31:BA:66:G:N3	31:BA:66:G:H2'	2.35	0.41
16:A1:97:ASP:C	16:A1:98:LEU:O	2.59	0.41
17:A2:18:LEU:HD23	17:A2:18:LEU:C	2.41	0.41
1:AA:1342:A:N7	1:AA:1345:C:C6	2.88	0.41
20:DU:94:LYS:CE	20:DU:101:LYS:NZ	2.84	0.41
31:BA:407:G:H2'	31:BA:408:A:C8	2.56	0.41
34:BG:29:PRO:HD2	34:BG:30:LYS:CD	2.51	0.41
17:A2:85:LYS:CD	17:A2:86:GLY:H	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:993:G:H4'	17:A2:70:ILE:HD12	2.03	0.41
21:DV:128:VAL:CG2	21:DV:129:SER:H	2.26	0.41
9:DM:35:ARG:HD3	9:DM:37:LYS:HD3	2.01	0.41
1:AA:2892:A:N7	1:AA:2893:G:C5	2.89	0.41
4:AE:33:VAL:HG12	4:AE:90:THR:H	1.85	0.41
55:DA:527:C:OP2	55:DA:2779:U:O4	2.39	0.41
40:BM:7:LYS:HG2	40:BM:71:LEU:HB2	2.03	0.41
7:DH:152:ARG:CG	7:DH:153:LYS:HE3	2.50	0.41
50:CW:33:ILE:HD13	50:CW:62:LEU:HB3	2.02	0.41
31:BA:282:A:N7	31:BA:283:C:C5	2.89	0.41
40:CM:38:ILE:HG13	40:CM:71:LEU:HB3	2.02	0.41
1:AA:2060:A:O2'	1:AA:2061:G:OP2	2.35	0.41
54:CA:1127:G:H2'	54:CA:1128:C:C6	2.56	0.41
32:CE:80:ILE:HG21	32:CE:211:ILE:HG22	2.02	0.41
31:BA:1026:G:C2'	31:BA:1027:C:H5'	2.50	0.41
1:AA:2199:A:N1	1:AA:2226:C:N4	2.69	0.41
11:DO:125:VAL:HG11	11:DO:138:LEU:HD22	2.03	0.41
18:DS:88:ARG:HD2	18:DS:88:ARG:HA	1.80	0.41
21:DV:61:LEU:C	21:DV:62:PRO:O	2.58	0.41
53:C1:53:U:O2'	53:C1:54:U:C5'	2.67	0.41
52:CD:18:G:C2'	52:CD:19:G:O5'	2.69	0.41
26:D4:18:CYS:HB3	26:D4:19:GLY:H	1.18	0.41
8:DK:78:THR:HB	8:DK:79:ILE:H	1.53	0.41
23:AZ:90:ILE:HG23	23:AZ:91:LYS:N	2.35	0.41
55:DA:885:C:O4'	55:DA:885:C:OP1	2.39	0.41
55:DA:1311:G:C2	19:DT:60:ARG:NH1	2.80	0.41
37:BJ:18:TYR:O	37:BJ:19:GLY:C	2.58	0.41
5:DF:63:LYS:CE	5:DF:67:GLN:HB2	2.51	0.41
4:DE:104:VAL:HG11	4:DE:188:VAL:CG2	2.50	0.41
7:DH:55:PRO:HG2	7:DH:61:HIS:CE1	2.55	0.41
54:CA:1308:U:O2'	54:CA:1309:G:H5'	2.21	0.41
21:AV:53:ILE:O	21:AV:70:LEU:HD21	2.21	0.41
20:AU:8:LYS:HG3	20:AU:94:LYS:HZ1	1.86	0.41
7:AH:91:GLY:O	7:AH:92:ILE:C	2.58	0.41
1:AA:1666:G:H4'	10:AN:6:THR:HG23	2.02	0.41
27:D5:40:LYS:CD	27:D5:46:CYS:HB3	2.50	0.41
9:DM:15:LEU:HA	9:DM:53:VAL:HG23	2.03	0.41
47:CT:62:SER:HB3	47:CT:72:ARG:NH2	2.36	0.41
32:BE:189:ASP:HB3	32:BE:203:GLY:O	2.20	0.41
20:AU:91:GLU:CG	20:AU:92:ASN:N	2.75	0.41
55:DA:607:U:O4	55:DA:608:A:C6	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:608:A:C8	55:DA:619:G:N2	2.89	0.41
30:D8:4:MET:O	30:D8:62:LEU:CD1	2.69	0.41
1:AA:26:G:N1	1:AA:27:G:N2	2.69	0.41
55:DA:2110:G:O2'	55:DA:2111:C:P	2.79	0.41
25:AX:6:VAL:HG23	25:AX:35:ARG:O	2.20	0.41
25:AX:42:ALA:O	25:AX:45:GLY:N	2.53	0.41
55:DA:802:A:H2'	55:DA:803:U:H5''	2.03	0.41
52:CD:42:C:H6	52:CD:42:C:H5'	1.85	0.41
54:CA:578:C:O2'	54:CA:728:A:H1'	2.20	0.41
1:AA:71:A:C8	1:AA:71:A:H5'	2.55	0.41
1:AA:608:A:N6	1:AA:609:A:C6	2.88	0.41
8:DK:37:VAL:CG1	8:DK:38:LEU:N	2.84	0.41
1:AA:1352:U:O2	1:AA:1570:A:H2	2.04	0.41
39:CL:118:LYS:O	39:CL:119:ALA:CB	2.62	0.41
35:CH:79:GLU:OE2	38:CK:104:ARG:HA	2.20	0.41
38:CK:40:ALA:C	38:CK:42:GLU:N	2.74	0.41
41:CN:33:THR:HG21	41:CN:37:GLY:O	2.20	0.41
54:CA:820:U:C4'	54:CA:821:G:OP2	2.55	0.41
53:C1:32:A:OP2	53:C1:33:G:OP2	2.39	0.41
25:AX:24:LYS:O	25:AX:25:ALA:C	2.59	0.41
29:A7:24:THR:O	29:A7:26:GLY:N	2.53	0.41
9:AM:134:ARG:O	9:AM:134:ARG:CG	2.67	0.41
26:A4:52:THR:HG21	43:BP:65:LYS:CE	2.50	0.41
11:AO:127:ALA:HB3	11:AO:130:PHE:CE2	2.56	0.41
34:CG:196:LEU:CD1	34:CG:196:LEU:N	2.80	0.41
42:BO:69:TYR:CD1	42:BO:70:ILE:N	2.89	0.41
55:DA:1567:A:OP2	3:DD:86:PRO:HB3	2.21	0.41
1:AA:1606:G:H4'	1:AA:1608:A:C2	2.56	0.41
53:C1:55:U:C6	53:C1:55:U:O5'	2.74	0.41
1:AA:1071:G:O4'	1:AA:1089:G:N7	2.54	0.41
54:CA:1224:G:C6	54:CA:1322:C:H1'	2.55	0.41
2:DB:12:C:O2	22:D3:74:ARG:NH1	2.54	0.41
33:BF:19:GLU:HG2	33:BF:19:GLU:O	2.21	0.41
33:BF:97:LYS:O	33:BF:99:VAL:N	2.54	0.41
33:BF:63:ASN:H	33:BF:97:LYS:HD2	1.85	0.41
50:CW:84:LEU:C	50:CW:84:LEU:HD13	2.41	0.41
55:DA:819:A:C4	55:DA:1189:A:C2	3.08	0.41
2:AB:8:U:H2'	2:AB:9:G:H8	1.85	0.41
7:AH:15:VAL:HG23	7:AH:17:VAL:HG23	2.02	0.41
7:AH:102:ALA:HA	7:AH:117:PRO:CD	2.42	0.41
48:CU:23:LYS:HB2	48:CU:56:THR:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CU:56:THR:CB	48:CU:58:LEU:HD13	2.49	0.41
55:DA:2250:G:H8	55:DA:2496:C:H5''	1.85	0.41
52:BD:70:G:H2'	52:BD:71:G:H8	1.86	0.41
19:DT:83:VAL:CG1	19:DT:87:GLN:HB2	2.51	0.41
18:AS:88:ARG:HH11	18:AS:88:ARG:HG2	1.85	0.41
1:AA:2776:A:O2'	1:AA:2777:G:P	2.78	0.41
1:AA:2127:G:C2'	1:AA:2128:C:H5''	2.51	0.41
36:CI:17:SER:O	36:CI:20:ALA:HB3	2.21	0.41
32:BE:167:PRO:CG	32:BE:188:ALA:HB2	2.42	0.41
55:DA:195:A:H5''	11:DO:46:LYS:NZ	2.36	0.41
11:DO:34:GLY:O	11:DO:35:HIS:HB2	2.21	0.41
14:AQ:7:TYR:CE2	14:AQ:91:PRO:HG3	2.56	0.41
15:DR:80:SER:HA	15:DR:81:PRO:HD3	1.86	0.41
8:DK:47:LEU:O	8:DK:51:ILE:HG13	2.20	0.41
54:CA:65:U:C5	54:CA:381:C:C4	3.09	0.41
35:CH:33:VAL:HG12	35:CH:34:VAL:N	2.35	0.41
3:AD:134:ARG:HG3	3:AD:135:PHE:CD2	2.55	0.41
46:BS:38:TYR:CZ	46:BS:50:LYS:CB	3.03	0.41
55:DA:1671:U:O2	55:DA:1673:U:H3'	2.21	0.41
55:DA:2789:C:HO2'	55:DA:2790:A:C4'	2.32	0.41
33:CF:115:LEU:HD23	33:CF:118:GLN:OE1	2.21	0.41
1:AA:116:C:H2'	1:AA:117:G:H5'	2.02	0.41
1:AA:1150:C:O2'	1:AA:1151:G:H5'	2.21	0.41
54:CA:453:A:C6	54:CA:454:C:C4	3.08	0.41
14:AQ:12:PHE:C	14:AQ:14:VAL:H	2.24	0.41
55:DA:139:G:N2	55:DA:1596:A:H4'	2.34	0.41
40:CM:4:ILE:O	40:CM:74:ILE:HD13	2.20	0.41
9:AM:111:PRO:HA	9:AM:114:ARG:HH12	1.79	0.41
54:CA:1237:C:C1'	54:CA:1334:G:H21	2.32	0.41
52:BC:42:C:H2'	52:BC:43:C:C5'	2.51	0.41
36:BI:91:VAL:CG1	48:BU:72:ARG:NH2	2.84	0.41
36:BI:89:MET:SD	48:BU:76:LEU:HD11	2.60	0.41
16:D1:74:LEU:CD1	16:D1:74:LEU:C	2.89	0.41
55:DA:2887:U:C2	55:DA:2888:C:C5	3.09	0.41
3:AD:4:LYS:HZ2	3:AD:20:ASP:HA	1.83	0.41
55:DA:2102:U:H2'	55:DA:2103:C:H6	1.81	0.41
24:AW:16:LEU:O	24:AW:20:GLU:HB2	2.21	0.41
31:BA:1102:A:C6	31:BA:1103:C:N4	2.89	0.41
1:AA:2080:G:H2'	1:AA:2081:C:H6	1.86	0.41
55:DA:784:A:N7	3:DD:229:VAL:HG22	2.35	0.41
1:AA:2331:G:O4'	22:A3:42:GLY:HA3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CT:59:ILE:HG22	47:CT:71:PHE:HB3	2.01	0.41
54:CA:1423:G:OP1	10:DN:49:ARG:NH2	2.54	0.41
55:DA:1862:G:O2'	55:DA:1863:G:H5'	2.21	0.41
1:AA:813:U:C2	1:AA:814:C:C5	3.09	0.41
31:BA:50:A:N6	31:BA:361:G:C4'	2.84	0.41
15:AR:50:ILE:HD12	15:AR:50:ILE:HA	1.85	0.41
54:CA:17:U:C2	54:CA:18:C:C5	3.09	0.41
8:DK:21:VAL:O	8:DK:22:LYS:C	2.59	0.41
54:CA:652:U:O2'	54:CA:653:A:C5'	2.69	0.41
54:CA:659:U:O2'	54:CA:660:G:H5'	2.21	0.41
1:AA:270(F):U:C2	1:AA:270(G):C:C5	3.09	0.41
1:AA:270(G):C:H2'	1:AA:270(H):C:H6	1.83	0.41
11:AO:42:SER:O	11:AO:44:GLY:N	2.54	0.41
1:AA:602:G:C2	1:AA:656:G:C6	3.09	0.41
55:DA:270(G):C:H2'	55:DA:270(H):C:C6	2.55	0.41
1:AA:270(K):C:C3'	1:AA:270(L):U:H5''	2.51	0.41
8:AK:46:ALA:O	8:AK:50:ARG:HG2	2.21	0.41
44:BQ:22:THR:HB	44:BQ:23:ARG:H	1.79	0.41
44:BQ:22:THR:O	44:BQ:23:ARG:CB	2.69	0.41
16:A1:25:TRP:C	16:A1:25:TRP:CD1	2.94	0.41
50:BW:10:LEU:HD22	50:BW:11:SER:N	2.36	0.41
55:DA:1287:A:N6	13:D0:106:GLY:O	2.50	0.41
55:DA:270(M):U:H1'	55:DA:270(N):G:C5	2.55	0.41
1:AA:1824:G:C2'	1:AA:1825:A:H5'	2.50	0.41
1:AA:1917:U:H2'	1:AA:1918:A:O4'	2.21	0.41
14:DQ:52:SER:O	14:DQ:56:LEU:HD21	2.21	0.41
52:BC:21:A:H2'	52:BC:46:G:O6	2.20	0.41
31:BA:389:A:C2	31:BA:390:C:H1'	2.56	0.41
34:CG:163:GLU:OE2	34:CG:163:GLU:HA	2.20	0.41
1:AA:278:A:O2'	1:AA:279:C:P	2.78	0.41
19:DT:41:ASN:N	19:DT:41:ASN:ND2	2.66	0.41
1:AA:1179:C:C2'	1:AA:1180:C:H5''	2.51	0.41
31:BA:597:G:H2'	31:BA:598:U:C5'	2.51	0.41
32:BE:193:ASP:OD2	32:BE:196:LEU:HG	2.21	0.41
1:AA:1410:G:H2'	1:AA:1411:C:H6	1.81	0.41
54:CA:511:C:HO2'	54:CA:512:U:H6	1.68	0.41
36:CI:82:ARG:HB2	36:CI:85:VAL:CG2	2.50	0.41
44:CQ:21:TYR:OH	44:CQ:23:ARG:NH2	2.54	0.41
55:DA:1669:A:H2'	55:DA:1670:C:H5'	2.01	0.41
31:BA:865:A:H5'	31:BA:1078:U:C4	2.56	0.41
13:A0:51:LEU:HD22	13:A0:66:VAL:HG13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:29:U:H2'	1:AA:30:G:C8	2.56	0.41
54:CA:694:A:H2'	54:CA:695:A:O4'	2.21	0.41
55:DA:2033:A:H2'	55:DA:2035:G:OP2	2.21	0.41
55:DA:531:C:H5''	55:DA:532:A:N9	2.36	0.41
40:CM:16:LEU:HD23	40:CM:94:VAL:HG13	2.03	0.41
1:AA:2291:U:OP1	1:AA:2380:C:O2'	2.36	0.41
1:AA:1275:A:O2'	1:AA:1276:A:H8	2.04	0.41
38:CK:43:GLY:O	38:CK:64:LYS:HD2	2.21	0.41
2:DB:66:A:O2'	2:DB:67:G:P	2.78	0.41
55:DA:1838:C:N4	55:DA:1898:U:H2'	2.36	0.41
6:DG:33:ARG:H	6:DG:162:THR:HG1	1.67	0.41
18:AS:6:ILE:HG23	18:AS:103:ILE:O	2.20	0.41
31:BA:432:A:H3'	31:BA:433:C:H6	1.84	0.41
48:CU:47:THR:O	48:CU:83:GLU:N	2.52	0.41
8:DK:144:VAL:O	8:DK:145:VAL:HG22	2.21	0.41
1:AA:1515:C:H2'	1:AA:1516:U:C6	2.54	0.41
54:CA:986:A:H1'	49:CV:54:GLY:O	2.21	0.41
46:BS:66:PRO:CG	46:BS:71:ARG:HG3	2.50	0.41
5:DF:36:VAL:HG11	5:DF:183:VAL:HG11	2.02	0.41
38:BK:1:MET:CE	38:BK:1:MET:H3	2.34	0.41
31:BA:1135:U:HO2'	31:BA:1136:U:H5	1.65	0.41
32:BE:24:TRP:HA	32:BE:191:ASP:HA	2.03	0.41
27:A5:31:VAL:HG13	27:A5:42:PRO:HG3	2.02	0.41
40:BM:21:GLN:O	40:BM:21:GLN:HG2	2.20	0.41
55:DA:2359:C:H2'	55:DA:2360:A:C8	2.56	0.41
6:DG:49:ASP:HB3	6:DG:52:ILE:CG1	2.51	0.41
54:CA:427:U:O5'	54:CA:427:U:H6	2.03	0.41
39:CL:99:LEU:CD2	39:CL:99:LEU:N	2.84	0.41
55:DA:2695:C:H2'	55:DA:2696:U:C6	2.55	0.41
1:AA:2681:C:C2'	1:AA:2682:U:OP2	2.68	0.41
54:CA:729:A:O2'	54:CA:730:G:H5'	2.21	0.41
5:DF:150:GLY:HA2	5:DF:172:TRP:CE3	2.56	0.41
23:DZ:21:ARG:O	23:DZ:32:LYS:HA	2.21	0.41
55:DA:65:C:O2'	55:DA:66:C:H5'	2.21	0.41
6:DG:39:ILE:HB	6:DG:92:VAL:HG13	2.03	0.41
46:CS:82:GLN:HB3	46:CS:82:GLN:HE21	1.53	0.41
52:CC:66:U:H3'	52:CC:67:C:H6	1.85	0.41
35:BH:91:LEU:HD12	35:BH:120:THR:HG22	2.03	0.41
23:DZ:69:LYS:O	23:DZ:73:LEU:HG	2.20	0.41
46:BS:45:THR:C	46:BS:47:ASP:H	2.24	0.41
36:BI:92:LYS:HE2	36:BI:92:LYS:HB3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BP:63:THR:HG22	43:BP:64:TRP:N	2.35	0.41
55:DA:1707:G:H2'	55:DA:1708:C:C6	2.56	0.41
31:BA:1154:G:C2	31:BA:1155:G:C8	3.09	0.41
35:BH:7:GLU:OE1	35:BH:37:ARG:NE	2.52	0.41
37:BJ:36:LYS:NZ	37:BJ:36:LYS:HB2	2.36	0.41
55:DA:358:U:O5'	55:DA:358:U:H6	2.03	0.41
55:DA:977:G:C6	55:DA:987:G:C6	3.09	0.41
10:DN:38:VAL:HA	10:DN:61:VAL:HA	2.03	0.41
32:CE:130:ARG:HA	32:CE:131:PRO:HD3	1.92	0.41
55:DA:1376:C:O2'	55:DA:1377:G:H5'	2.21	0.41
55:DA:563:G:C4	55:DA:2018:G:C2	3.09	0.41
14:DQ:74:ALA:O	14:DQ:75:GLU:C	2.59	0.41
1:AA:982:C:H6	1:AA:982:C:O5'	2.03	0.41
36:CI:5:GLU:HG3	36:CI:93:SER:OG	2.20	0.41
1:AA:1629:U:H2'	1:AA:1630:G:C8	2.56	0.41
1:AA:1268:A:H2'	1:AA:1269:A:O4'	2.21	0.41
47:CT:92:ARG:O	47:CT:95:TYR:HB2	2.21	0.41
16:D1:33:ARG:O	16:D1:37:GLU:HB2	2.20	0.41
37:BJ:31:MET:SD	37:BJ:34:GLY:HA2	2.61	0.41
22:D3:70:GLN:OE1	22:D3:72:ARG:HD3	2.20	0.41
1:AA:773:U:C5'	3:AD:47:GLY:HA2	2.51	0.41
47:CT:33:GLY:O	47:CT:34:LYS:C	2.58	0.41
55:DA:1392:A:C6	55:DA:1393:A:C6	3.09	0.41
1:AA:1766:U:H2'	1:AA:1766:U:O2	2.19	0.41
55:DA:1760:A:C6	55:DA:1761:C:N4	2.89	0.41
55:DA:764:A:O4'	3:DD:213:ARG:HG3	2.21	0.41
1:AA:1277:G:O2'	13:A0:24:GLN:NE2	2.45	0.41
1:AA:2820:A:H8	4:AE:109:LYS:HE3	0.70	0.41
4:AE:179:GLU:CB	4:AE:181:LEU:HD23	2.50	0.41
4:AE:91:VAL:HG22	4:AE:95:ILE:HD11	2.03	0.41
57:DY:132:ASP:OD2	56:DJ:10:GLU:OE1	2.38	0.41
58:DL:13:PRO:CD	58:DL:14:ALA:H	2.34	0.41
58:DL:52:ILE:HG12	58:DL:76:TYR:N	2.36	0.41
58:DL:64:SER:O	58:DL:65:PHE:CB	2.61	0.41
58:DL:80:LYS:CD	58:DL:80:LYS:C	2.88	0.41
57:DY:93:LEU:HG	57:DY:126:ALA:HB1	2.00	0.41
43:CP:126:LYS:CG	52:CC:26:A:OP2	2.69	0.41
44:BQ:12:ARG:CZ	44:BQ:14:PRO:CG	2.99	0.41
28:A6:18:ARG:HE	28:A6:44:ARG:HH12	1.67	0.41
1:AA:2415:G:H2'	1:AA:2416:C:C6	2.56	0.41
1:AA:2248:C:H3'	1:AA:2249:U:H6	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CO:46:LYS:HG2	42:CO:47:LYS:H	1.85	0.41
52:CB:20:U:O2	52:CB:20:U:H2'	2.20	0.41
22:A3:31:VAL:HB	22:A3:35:ASN:ND2	2.20	0.41
26:A4:24:THR:CG2	26:A4:25:TYR:H	2.29	0.41
31:BA:1288:A:H2'	31:BA:1289:A:H8	1.86	0.41
54:CA:1021:G:H2'	54:CA:1022:G:O4'	2.21	0.41
55:DA:483:A:H4'	20:DU:49:VAL:HG13	2.03	0.41
4:DE:70:ALA:O	4:DE:71:GLY:O	2.39	0.41
14:DQ:103:GLU:C	14:DQ:105:ALA:N	2.73	0.41
55:DA:1485:G:C8	55:DA:1485:G:H5'	2.56	0.41
55:DA:695:G:N2	55:DA:696:G:H1'	2.35	0.41
16:A1:105:VAL:HG23	16:A1:106:PHE:H	1.86	0.41
17:A2:1:MET:CG	17:A2:42:GLY:HA3	2.51	0.41
27:A5:3:LYS:CA	27:A5:3:LYS:HE3	2.42	0.41
1:AA:1340:U:H1'	1:AA:1603:A:H5'	2.03	0.41
1:AA:1601:G:H2'	1:AA:1602:U:O4'	2.21	0.41
55:DA:2683:C:H2'	55:DA:2684:U:H6	1.85	0.41
31:BA:412:A:C6	34:BG:35:ARG:HB3	2.56	0.41
34:BG:20:TYR:HA	34:BG:21:LEU:HD12	2.02	0.41
4:AE:53:PRO:HG2	4:AE:54:GLN:N	2.27	0.41
31:BA:1124:G:HO2'	31:BA:1125:U:P	2.44	0.41
39:BL:16:ARG:HB3	39:BL:18:PHE:CE1	2.56	0.41
7:DH:86:GLU:HB2	7:DH:87:LEU:H	1.56	0.41
7:DH:89:ILE:N	7:DH:89:ILE:CD1	2.83	0.41
1:AA:1042:G:H2'	1:AA:1043:C:H6	1.85	0.41
32:CE:204:ASN:ND2	32:CE:205:ASP:N	2.67	0.41
31:BA:1027:C:H2'	31:BA:1028:C:H6	1.80	0.41
11:DO:112:LEU:O	11:DO:128:HIS:HB2	2.21	0.41
11:DO:131:SER:N	11:DO:134:ALA:HB3	2.36	0.41
31:BA:815:A:O2'	31:BA:1527:C:H1'	2.21	0.41
24:DW:13:ALA:O	24:DW:14:ARG:C	2.59	0.41
52:CD:14:A:H2'	52:CD:15:G:C8	2.56	0.41
6:DG:115:ARG:HH11	6:DG:115:ARG:CB	2.33	0.41
16:D1:98:LEU:HD23	16:D1:99:ALA:N	2.36	0.41
23:AZ:95:LEU:HD22	23:AZ:96:LYS:HG2	2.03	0.41
55:DA:887:A:H1'	55:DA:889:C:C4	2.56	0.41
55:DA:1027:A:C6	55:DA:1126:A:C4	3.09	0.41
55:DA:607:U:O2	55:DA:620:G:C8	2.73	0.41
13:A0:85:PRO:C	13:A0:87:TYR:H	2.25	0.41
19:AT:40:LYS:HA	19:AT:51:VAL:HG11	2.03	0.41
19:AT:50:LYS:O	19:AT:51:VAL:HB	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CW:104:LEU:HD12	50:CW:105:SER:N	2.35	0.41
31:BA:1502:A:H2	31:BA:1505:G:C2	2.35	0.41
8:AK:7:GLU:O	8:AK:9:LEU:HD23	2.20	0.41
1:AA:2688:U:O2	1:AA:2719:G:N1	2.53	0.41
54:CA:1349:A:OP2	39:CL:118:LYS:NZ	2.54	0.41
38:CK:105:ARG:O	38:CK:105:ARG:HD3	2.21	0.41
38:CK:100:ILE:CB	38:CK:125:ARG:HH12	2.34	0.41
55:DA:1827:C:O2'	55:DA:1828:G:H5'	2.20	0.41
12:AP:133:ARG:NH1	12:AP:133:ARG:CG	2.83	0.41
54:CA:1533:C:H2'	54:CA:1534:A:O4'	2.21	0.41
55:DA:687:C:C2'	55:DA:687:C:O2	2.68	0.41
52:BB:10:G:HO2'	52:BB:11:C:P	2.43	0.41
31:BA:191(C):G:C2	31:BA:191(D):U:H1'	2.56	0.41
12:DP:4:PRO:HG3	12:DP:69:PHE:HE2	1.86	0.41
5:DF:89:VAL:O	5:DF:91:GLY:N	2.49	0.41
9:AM:66:LYS:O	9:AM:68:GLU:N	2.54	0.41
1:AA:324:A:N6	1:AA:338:G:O2'	2.47	0.41
33:BF:18:TRP:NE1	44:BQ:54:PRO:CA	2.80	0.41
33:BF:19:GLU:O	33:BF:20:SER:HB2	2.21	0.41
55:DA:1508:A:O2'	55:DA:1509:C:O5'	2.39	0.41
55:DA:1512:G:C5	55:DA:1513:C:C4	3.08	0.41
54:CA:1542:U:C3'	54:CA:1542:U:OP2	2.68	0.41
31:BA:778:G:O2'	41:BN:120:ARG:O	2.33	0.41
48:CU:19:LYS:HD2	48:CU:19:LYS:HA	1.63	0.41
48:CU:43:PHE:O	48:CU:51:LEU:HG	2.21	0.41
34:CG:4:TYR:CE2	34:CG:7:PRO:O	2.74	0.41
6:DG:54:GLU:HA	6:DG:57:ALA:HB3	2.02	0.41
1:AA:15:G:O2'	1:AA:16:G:H5'	2.21	0.41
1:AA:528:A:C2	1:AA:2043:C:H4'	2.56	0.41
46:BS:20:VAL:CG2	46:BS:32:TYR:CB	2.99	0.41
1:AA:1493:C:C4	1:AA:2210:G:C8	3.09	0.41
1:AA:1948:G:C5'	1:AA:1948:G:C8	2.99	0.41
54:CA:47:C:H5''	54:CA:48:C:OP1	2.20	0.41
31:BA:632:A:OP2	31:BA:632:A:H3'	2.21	0.41
55:DA:252:G:OP2	11:DO:50:ARG:NH1	2.54	0.41
50:CW:12:ALA:C	50:CW:14:LYS:N	2.74	0.41
17:D2:30:GLY:O	17:D2:60:GLU:OE2	2.39	0.41
54:CA:503:C:C2	54:CA:504:C:C5	3.09	0.41
55:DA:2723:C:H4'	13:D0:1:MET:CG	2.47	0.41
55:DA:2723:C:O5'	55:DA:2723:C:H6	2.02	0.41
15:DR:41:ARG:HG2	15:DR:41:ARG:NH1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BW:83:ARG:HH11	50:BW:83:ARG:HG2	1.86	0.41
55:DA:605:C:H1'	55:DA:657:U:O2'	2.21	0.41
1:AA:2848:G:O2'	1:AA:2867:G:N2	2.53	0.41
55:DA:1205:U:C4'	55:DA:1206:G:OP2	2.67	0.41
2:DB:77:U:P	21:DV:19:ARG:NH2	2.92	0.41
45:CR:58:MET:O	45:CR:59:MET:C	2.59	0.41
31:BA:484:G:O2'	31:BA:485:G:P	2.79	0.41
7:AH:168:PRO:HG2	7:AH:169:VAL:N	2.34	0.41
21:DV:123:ASP:O	21:DV:124:ILE:HB	2.20	0.41
55:DA:928:G:H3'	55:DA:929:G:C8	2.56	0.41
55:DA:1270:C:H5''	55:DA:1271:G:C5'	2.50	0.41
55:DA:782:A:N1	3:DD:226:MET:CE	2.83	0.41
31:BA:803:G:H2'	31:BA:804:U:C6	2.56	0.41
55:DA:2335:A:HO2'	55:DA:2336:A:P	2.44	0.41
55:DA:345:A:O2'	55:DA:347:A:N7	2.54	0.41
54:CA:1073:U:H2'	54:CA:1074:G:H8	1.86	0.41
1:AA:2586:C:O2'	1:AA:2587:A:H5'	2.20	0.41
55:DA:813:U:H2'	55:DA:814:C:H6	1.82	0.41
45:CR:2:PRO:HB2	45:CR:3:ILE:H	1.63	0.41
6:AG:178:PHE:HB3	6:AG:180:PHE:HE1	1.86	0.41
1:AA:1278:A:H2'	1:AA:1279:G:H8	1.85	0.41
28:A6:52:VAL:O	28:A6:53:LYS:C	2.60	0.41
19:AT:26:TYR:O	19:AT:81:VAL:HG22	2.21	0.41
1:AA:276:A:C8	1:AA:278:A:N7	2.89	0.41
1:AA:2672:G:C2'	1:AA:2673:G:H5''	2.50	0.41
43:CP:54:VAL:HG12	43:CP:58:GLU:OE2	2.21	0.41
14:AQ:24:LEU:H	14:AQ:24:LEU:HD22	1.85	0.41
9:DM:120:LEU:HD13	9:DM:122:VAL:HG23	2.01	0.41
7:DH:26:VAL:HG11	7:DH:33:LEU:HB2	2.03	0.41
32:BE:28:PHE:O	32:BE:28:PHE:CD1	2.74	0.41
1:AA:2290:G:O2'	1:AA:2381:C:H1'	2.21	0.41
55:DA:1893:C:H2'	55:DA:1894:C:H5'	2.03	0.41
10:AN:68:GLU:HB3	10:AN:78:ARG:NH1	2.36	0.41
38:BK:111:ILE:O	38:BK:134:ILE:HB	2.21	0.41
55:DA:2584:U:H6	55:DA:2585:U:N3	2.19	0.41
54:CA:742:G:OP2	45:CR:35:ARG:NH2	2.53	0.41
54:CA:598:U:H2'	54:CA:599:C:C6	2.55	0.41
37:BJ:36:LYS:O	37:BJ:39:ALA:HB3	2.21	0.41
17:D2:9:GLY:O	17:D2:10:LYS:HG3	2.21	0.41
23:AZ:69:LYS:HA	23:AZ:72:GLU:HB3	2.03	0.41
1:AA:1500:G:C5	1:AA:1501:C:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:D0:54:LEU:HA	13:D0:54:LEU:HD12	1.71	0.41
38:CK:21:LYS:HB2	38:CK:21:LYS:HE2	1.94	0.41
1:AA:1904:G:O2'	1:AA:1905:C:H5'	2.21	0.41
3:AD:146:GLU:HA	3:AD:153:ALA:HA	2.03	0.41
1:AA:2399:G:H2'	1:AA:2400:G:O4'	2.21	0.41
4:AE:22:PRO:HB2	4:AE:186:GLY:HA3	2.01	0.40
4:AE:93:VAL:O	4:AE:95:ILE:N	2.54	0.40
15:AR:1:MET:C	15:AR:3:ARG:H	2.24	0.40
55:DA:1046:A:O4'	55:DA:1046:A:N3	2.54	0.40
7:DH:166:GLY:O	7:DH:167:GLU:C	2.59	0.40
56:DI:13:SER:O	56:DI:16:THR:CG2	2.66	0.40
56:DJ:8:ILE:HD12	56:DJ:8:ILE:HA	1.73	0.40
58:DL:50:ASP:H	58:DL:53:VAL:HG22	1.82	0.40
57:DY:74:LEU:O	57:DY:74:LEU:HD22	2.20	0.40
57:DY:88:ALA:O	57:DY:90:ALA:N	2.55	0.40
44:BQ:35:ARG:HG3	44:BQ:36:PHE:N	2.36	0.40
28:A6:9:LEU:CD2	28:A6:10:LEU:N	2.84	0.40
28:A6:15:GLU:O	28:A6:16:CYS:CB	2.69	0.40
28:A6:26:ASN:OD1	28:A6:28:ARG:N	2.45	0.40
1:AA:2285:C:H5''	28:A6:28:ARG:NH1	2.37	0.40
1:AA:2276:G:OP2	12:AP:84:GLY:N	2.53	0.40
12:AP:14:ARG:O	12:AP:15:GLY:O	2.39	0.40
55:DA:1899:G:O2'	55:DA:1900:A:O5'	2.40	0.40
54:CA:532:A:H2'	54:CA:533:A:OP1	2.21	0.40
55:DA:894:C:C2'	55:DA:895:U:H6	2.31	0.40
3:AD:49:ILE:HG12	3:AD:49:ILE:O	2.19	0.40
3:DD:35:LYS:NZ	3:DD:104:TYR:HD1	2.18	0.40
3:DD:133:LEU:HG	3:DD:189:CYS:O	2.20	0.40
3:DD:72:LYS:HB3	3:DD:72:LYS:HE3	1.90	0.40
31:BA:1288:A:H2'	31:BA:1289:A:O4'	2.22	0.40
31:BA:1326:C:H2'	31:BA:1327:C:C6	2.55	0.40
31:BA:1360:A:H2'	31:BA:1361:G:C8	2.56	0.40
43:BP:20:THR:C	43:BP:22:ILE:H	2.24	0.40
54:CA:794:A:H1'	54:CA:1506:U:O4	2.21	0.40
1:AA:1754:C:O2	1:AA:2717:G:H5'	2.21	0.40
54:CA:1005:A:H3'	54:CA:1006:C:C5'	2.50	0.40
54:CA:1027:C:H2'	54:CA:1028:C:H6	1.80	0.40
1:AA:388:G:N7	1:AA:390:A:H2'	2.37	0.40
28:D6:24:GLU:HB3	28:D6:25:LYS:H	1.46	0.40
28:D6:33:LYS:C	28:D6:35:GLU:N	2.75	0.40
16:A1:83:LEU:CD1	16:A1:88:ILE:HD11	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:A2:6:LYS:H	17:A2:37:VAL:HB	1.86	0.40
1:AA:1966:A:HO2'	1:AA:1967:C:P	2.44	0.40
1:AA:1966:A:O2'	1:AA:1967:C:P	2.80	0.40
54:CA:323:U:H2'	54:CA:324:G:O4'	2.21	0.40
31:BA:406:G:H2'	31:BA:407:G:C8	2.55	0.40
31:BA:542:G:H2'	31:BA:543:C:H6	1.86	0.40
1:AA:2789:C:HO2'	1:AA:2790:A:C4'	2.31	0.40
7:DH:83:TYR:HA	7:DH:135:GLY:H	1.86	0.40
1:AA:2503:A:O2'	1:AA:2505:G:P	2.79	0.40
32:CE:203:GLY:O	32:CE:204:ASN:C	2.59	0.40
31:BA:1025:U:O2'	31:BA:1026:G:C5'	2.68	0.40
22:A3:4:LYS:O	22:A3:5:LYS:C	2.60	0.40
40:CM:62:HIS:CD2	40:CM:62:HIS:N	2.85	0.40
52:CD:14:A:C5	52:CD:22:G:C2	3.09	0.40
55:DA:1339:G:H21	55:DA:1603:A:H1'	1.86	0.40
17:D2:35:LEU:O	17:D2:36:PRO:C	2.60	0.40
54:CA:254:G:N2	47:CT:16:GLN:HE21	2.18	0.40
1:AA:2674:G:H2'	1:AA:2675:A:O4'	2.21	0.40
31:BA:1350:A:H2'	31:BA:1351:U:H6	1.85	0.40
20:AU:97:ARG:HG2	20:AU:97:ARG:HH11	1.86	0.40
4:DE:4:ILE:HG22	4:DE:4:ILE:O	2.20	0.40
1:AA:1669:A:H5''	1:AA:2550:G:OP1	2.21	0.40
55:DA:1535:U:H3	55:DA:1536:A:H3'	1.86	0.40
32:BE:216:SER:C	32:BE:218:ALA:N	2.74	0.40
31:BA:252:U:C2	31:BA:253:U:C5	3.09	0.40
30:D8:2:PRO:O	30:D8:3:LYS:C	2.59	0.40
30:D8:65:GLU:N	30:D8:65:GLU:CD	2.73	0.40
50:CW:89:ARG:HG3	50:CW:89:ARG:NH2	2.34	0.40
2:DB:40:U:H3'	2:DB:41:U:H5''	2.02	0.40
55:DA:2443:C:H2'	55:DA:2444:G:H8	1.86	0.40
1:AA:792:G:O2'	1:AA:2072:G:H1'	2.22	0.40
8:AK:7:GLU:HG3	8:AK:9:LEU:N	2.36	0.40
3:AD:242:ARG:H	3:AD:242:ARG:CD	2.17	0.40
4:AE:197:ILE:O	4:AE:197:ILE:CG1	2.69	0.40
1:AA:71:A:N3	1:AA:73:A:N6	2.69	0.40
4:AE:44:TYR:O	4:AE:45:THR:HB	2.20	0.40
12:DP:66:ILE:N	12:DP:104:PHE:O	2.49	0.40
38:CK:100:ILE:HA	38:CK:101:PRO:HD3	1.76	0.40
42:BO:12:ARG:HE	42:BO:12:ARG:HB2	1.64	0.40
11:AO:112:LEU:C	11:AO:112:LEU:HD22	2.41	0.40
8:AK:89:TYR:HB3	54:CA:368:U:N3	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BF:164:ARG:CG	33:BF:165:THR:H	2.29	0.40
43:BP:23:TYR:HB3	43:BP:67:GLU:HA	2.03	0.40
2:DB:12:C:H4'	2:DB:13:A:H5''	2.02	0.40
1:AA:2481:G:C2'	1:AA:2482:G:OP2	2.69	0.40
3:DD:155:LEU:O	3:DD:156:ALA:C	2.60	0.40
55:DA:728:G:H4'	3:DD:13:ARG:HD2	2.03	0.40
55:DA:727:A:C2	3:DD:9:TYR:CD2	3.10	0.40
33:CF:8:ILE:HG22	33:CF:12:LEU:HD23	2.03	0.40
31:BA:1538:C:C4	31:BA:1539:C:C5	3.08	0.40
38:BK:26:VAL:O	38:BK:27:PRO:C	2.60	0.40
31:BA:687:A:N1	31:BA:704:A:N7	2.69	0.40
55:DA:2657:A:C2	55:DA:2665:A:C8	3.09	0.40
55:DA:1778:U:H3'	55:DA:1784:A:N6	2.36	0.40
34:CG:6:GLY:O	34:CG:8:VAL:HG23	2.20	0.40
1:AA:13:A:C2	1:AA:526:A:C8	3.09	0.40
31:BA:1072:G:H2'	31:BA:1073:U:O4'	2.21	0.40
1:AA:2840:C:H2'	1:AA:2841:C:C6	2.57	0.40
13:D0:81:ASP:O	13:D0:82:GLU:CG	2.68	0.40
13:D0:1:MET:SD	13:D0:1:MET:N	2.83	0.40
47:CT:9:VAL:O	47:CT:21:VAL:HA	2.21	0.40
1:AA:726:G:O2'	1:AA:727:A:O5'	2.39	0.40
32:BE:95:GLN:O	32:BE:96:ARG:O	2.39	0.40
47:CT:77:VAL:O	47:CT:78:GLU:CB	2.63	0.40
45:CR:12:ILE:C	45:CR:14:GLU:N	2.74	0.40
2:DB:77:U:OP1	21:DV:19:ARG:NH2	2.54	0.40
55:DA:1388:G:C2'	55:DA:1389:G:H5'	2.51	0.40
42:CO:84:LEU:HD22	42:CO:104:VAL:HG11	2.03	0.40
38:BK:84:ARG:HH11	38:BK:84:ARG:HG2	1.87	0.40
34:CG:108:LEU:O	34:CG:176:LEU:HD22	2.21	0.40
32:BE:236:TYR:HA	32:BE:239:VAL:CG2	2.50	0.40
37:CJ:78:ARG:NH1	37:CJ:79:ARG:O	2.54	0.40
1:AA:370:G:HO2'	1:AA:371:A:P	2.43	0.40
52:BD:64:A:N3	52:BD:65:G:H1'	2.36	0.40
22:A3:11:ARG:H	22:A3:11:ARG:HG2	1.62	0.40
31:BA:109:A:C8	31:BA:326:G:H2'	2.56	0.40
43:BP:87:TYR:CE1	43:BP:91:ARG:HD3	2.56	0.40
3:DD:258:LYS:HB2	3:DD:258:LYS:HE3	1.86	0.40
1:AA:2304:G:N2	6:AG:156:ASP:OD2	2.39	0.40
54:CA:784:C:H2'	54:CA:785:G:H8	1.86	0.40
4:DE:29:GLY:HA2	4:DE:180:ASN:CB	2.52	0.40
22:D3:53:MET:HE3	22:D3:57:PHE:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CG:54:TYR:HE1	34:CG:209:ARG:HH22	1.69	0.40
14:DQ:24:LEU:CD1	14:DQ:41:ASP:HB2	2.51	0.40
55:DA:2245:U:H2'	55:DA:2436:G:OP2	2.21	0.40
39:CL:61:ALA:HB1	39:CL:63:ILE:CD1	2.50	0.40
54:CA:620:C:C2	34:CG:135:LEU:HG	2.56	0.40
1:AA:256:A:C2	1:AA:257:A:C4	3.10	0.40
55:DA:17:G:H2'	55:DA:18:C:H6	1.86	0.40
1:AA:1515:C:C2	1:AA:1516:U:C5	3.09	0.40
1:AA:728:G:C4	1:AA:730:C:C5	3.09	0.40
9:AM:51:PHE:CZ	9:AM:119:ARG:HD2	2.56	0.40
39:BL:39:GLY:O	39:BL:41:VAL:N	2.54	0.40
1:AA:270:A:C2	1:AA:366:C:H4'	2.56	0.40
41:CN:99:GLN:HG2	41:CN:105:VAL:HG11	2.03	0.40
1:AA:1792:G:C5'	3:AD:205:VAL:HG13	2.52	0.40
18:DS:14:PRO:HG2	18:DS:78:GLU:HG3	2.03	0.40
35:BH:67:VAL:HG22	35:BH:68:GLU:O	2.21	0.40
54:CA:12:U:H4'	54:CA:526:C:H4'	2.04	0.40
15:AR:92:GLY:HA2	15:AR:117:ASP:N	2.36	0.40
55:DA:1952:A:C6	10:DN:22:ILE:HD12	2.56	0.40
47:CT:86:GLU:O	47:CT:87:LYS:C	2.60	0.40
52:BD:30:G:N2	52:BD:31:A:H1'	2.37	0.40
55:DA:1575:C:H2'	55:DA:1576:U:O4'	2.21	0.40
24:DW:71:ASN:O	24:DW:72:ALA:C	2.59	0.40
38:BK:13:ILE:O	38:BK:15:ASN:N	2.55	0.40
1:AA:563:G:C6	1:AA:564:C:C4	3.10	0.40
41:BN:43:SER:HB3	41:BN:68:ALA:HB2	2.02	0.40
1:AA:2054:A:C2	27:A5:8:LYS:HB2	2.56	0.40
54:CA:124:G:H2'	54:CA:125:U:O4'	2.20	0.40
38:CK:4:ASP:C	38:CK:4:ASP:OD2	2.59	0.40
1:AA:321:G:HO2'	1:AA:340:A:HO2'	1.63	0.40
27:D5:12:SER:C	27:D5:14:ALA:N	2.75	0.40
58:DL:18:THR:HG23	58:DL:42:ASN:CG	2.41	0.40
58:DL:19:PRO:HB3	58:DL:34:ILE:HG12	2.04	0.40
58:DL:19:PRO:HB3	58:DL:25:PRO:HG2	2.04	0.40
57:DY:135:ARG:HD2	57:DY:138:LEU:CG	2.51	0.40
56:DI:22:GLN:NE2	57:DY:140:GLY:O	2.54	0.40
21:AV:109:ALA:O	21:AV:110:GLY:C	2.59	0.40
21:AV:177:PRO:C	21:AV:180:VAL:H	2.24	0.40
28:A6:26:ASN:C	28:A6:28:ARG:N	2.74	0.40
11:AO:62:LEU:HD21	30:A8:25:MET:CB	2.50	0.40
12:AP:2:LEU:H	12:AP:2:LEU:CD1	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AP:3:MET:HA	12:AP:4:PRO:HD3	1.88	0.40
54:CA:102:G:C6	54:CA:103:C:C4	3.09	0.40
3:DD:32:SER:HA	3:DD:36:PRO:HD3	2.02	0.40
2:AB:40:U:C2'	2:AB:45:A:H61	2.33	0.40
6:AG:64:THR:HG23	6:AG:66:GLN:N	2.21	0.40
20:DU:42:VAL:CG1	20:DU:43:ASN:N	2.83	0.40
20:DU:48:ALA:O	20:DU:49:VAL:C	2.59	0.40
4:DE:65:GLY:O	4:DE:67:PHE:N	2.55	0.40
4:DE:77:ILE:O	4:DE:78:LEU:O	2.39	0.40
55:DA:1482:U:C5'	55:DA:1483:G:OP2	2.58	0.40
16:A1:91:ASP:OD2	16:A1:96:ALA:CB	2.70	0.40
17:A2:1:MET:H2	17:A2:16:PRO:HD3	1.86	0.40
3:AD:237:GLU:O	3:AD:239:ARG:N	2.54	0.40
55:DA:630:G:N2	55:DA:633:A:C8	2.88	0.40
9:DM:42:TRP:N	16:D1:64:ARG:HH22	2.19	0.40
39:BL:28:VAL:HG13	39:BL:63:ILE:O	2.21	0.40
31:BA:1004:A:C5	31:BA:1025:U:C2	3.08	0.40
52:BD:58:A:N6	52:BD:61:C:C2	2.90	0.40
21:DV:7:ALA:O	21:DV:61:LEU:HA	2.21	0.40
33:BF:130:VAL:O	33:BF:134:ILE:HG12	2.20	0.40
33:BF:134:ILE:HG23	33:BF:151:VAL:HB	2.04	0.40
21:AV:127:LYS:HB3	21:AV:162:GLU:HB2	2.01	0.40
12:DP:10:ARG:O	12:DP:11:LYS:HB2	2.21	0.40
8:DK:77:LEU:HD13	8:DK:78:THR:O	2.21	0.40
55:DA:1312:U:HO2'	55:DA:1313:U:P	2.43	0.40
1:AA:1021:A:C8	1:AA:1021:A:H3'	2.55	0.40
1:AA:1140:C:C5'	1:AA:1143:A:N6	2.83	0.40
31:BA:547:A:O2'	31:BA:548:G:O4'	2.39	0.40
20:AU:76:CYS:O	20:AU:77:PRO:C	2.60	0.40
5:AF:8:GLN:HG3	5:AF:126:VAL:CA	2.32	0.40
32:BE:19:HIS:HB3	32:BE:20:GLU:H	1.58	0.40
24:AW:10:LEU:HD13	24:AW:59:ARG:HD2	2.01	0.40
1:AA:1822:G:O2'	1:AA:1823:G:H5'	2.22	0.40
55:DA:466:A:H2'	55:DA:467:G:H5'	2.03	0.40
52:BB:68:C:H2'	52:BB:69:G:C8	2.56	0.40
6:DG:102:PHE:CZ	6:DG:157:ILE:HD13	2.56	0.40
54:CA:1347:G:O2'	54:CA:1348:U:C6	2.74	0.40
1:AA:1453:A:H5''	1:AA:1454:U:OP2	2.21	0.40
12:DP:54:MET:HB3	12:DP:55:VAL:H	1.76	0.40
48:BU:55:ARG:HG3	48:BU:55:ARG:HH11	1.85	0.40
8:DK:52:ARG:O	8:DK:56:LYS:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CF:172:ARG:O	33:CF:173:VAL:HG22	2.22	0.40
11:AO:88:LEU:HD11	11:AO:95:VAL:CB	2.51	0.40
21:AV:122:ARG:H	21:AV:122:ARG:HG3	1.70	0.40
42:BO:61:THR:OG1	42:BO:62:SER:N	2.55	0.40
54:CA:1532:U:O2	53:C1:40:U:O4	2.39	0.40
33:BF:119:ARG:HD3	33:BF:123:GLN:NE2	2.36	0.40
36:BI:12:PRO:HD3	36:BI:58:GLY:HA2	2.02	0.40
1:AA:287:C:H2'	1:AA:288:C:C6	2.57	0.40
55:DA:704:G:O2'	55:DA:726:G:N2	2.53	0.40
10:AN:10:VAL:HG21	10:AN:17:ARG:HA	2.02	0.40
25:DX:6:VAL:HG11	25:DX:47:VAL:CG1	2.51	0.40
55:DA:528:A:C2	55:DA:2043:C:O5'	2.75	0.40
12:AP:21:THR:O	12:AP:22:LYS:O	2.39	0.40
36:CI:44:GLY:HA2	36:CI:59:TYR:CZ	2.57	0.40
27:A5:16:ARG:CG	27:A5:16:ARG:NH1	2.82	0.40
22:A3:26:TYR:O	22:A3:29:GLN:HB2	2.21	0.40
39:BL:83:ARG:HA	39:BL:86:VAL:HG12	2.03	0.40
34:CG:19:LEU:N	34:CG:19:LEU:HD23	2.36	0.40
1:AA:13:A:C5'	1:AA:14:A:OP1	2.66	0.40
35:CH:105:VAL:N	35:CH:106:PRO:HD2	2.37	0.40
2:DB:15:A:C5'	2:DB:16:G:H8	2.32	0.40
32:BE:92:TYR:CE2	32:BE:151:GLY:CA	3.03	0.40
31:BA:554:C:H2'	31:BA:555:C:H6	1.86	0.40
34:BG:108:LEU:CG	34:BG:110:PHE:HE1	2.34	0.40
54:CA:486:U:O2'	54:CA:487:A:H5'	2.22	0.40
55:DA:2563:U:H2'	55:DA:2565:A:OP2	2.20	0.40
33:BF:76:VAL:O	33:BF:83:ARG:HG3	2.21	0.40
40:CM:32:ALA:HB2	40:CM:76:ASN:HB2	2.03	0.40
6:DG:5:VAL:HG22	26:D4:25:TYR:CD2	2.57	0.40
54:CA:502:G:OP1	42:CO:118:SER:N	2.39	0.40
4:DE:118:LYS:HE3	13:D0:1:MET:HE3	2.03	0.40
32:BE:165:VAL:CG2	32:BE:166:ASP:N	2.83	0.40
45:BR:60:VAL:O	45:BR:64:ARG:HB2	2.21	0.40
51:CX:15:ARG:CG	51:CX:15:ARG:NH1	2.82	0.40
34:BG:194:LEU:HD22	34:BG:194:LEU:N	2.37	0.40
35:BH:111:GLU:C	35:BH:113:ALA:N	2.75	0.40
35:BH:111:GLU:O	35:BH:113:ALA:N	2.48	0.40
33:BF:79:ARG:NE	33:BF:79:ARG:N	2.63	0.40
46:CS:39:TYR:CD2	46:CS:73:LEU:HD11	2.56	0.40
39:CL:59:PHE:N	39:CL:59:PHE:CD1	2.88	0.40
35:BH:125:SER:O	35:BH:131:ILE:HD11	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CA:14:U:H2'	54:CA:16:A:OP2	2.21	0.40
32:BE:97:TRP:O	32:BE:98:LEU:C	2.59	0.40
54:CA:1218:C:H2'	54:CA:1219:U:H6	1.81	0.40
21:DV:53:ILE:H	21:DV:71:VAL:HG13	1.84	0.40
31:BA:1095:U:OP1	31:BA:1108:G:N1	2.53	0.40
3:AD:266:SER:O	3:AD:267:SER:O	2.39	0.40
37:CJ:87:VAL:HG11	37:CJ:155:ARG:HA	2.03	0.40
55:DA:2331:G:H4'	22:D3:42:GLY:HA3	2.04	0.40
31:BA:476:G:O2'	31:BA:477:G:H5'	2.22	0.40
22:A3:14:ARG:HB3	22:A3:15:ASP:H	1.75	0.40
31:BA:468:A:H2'	31:BA:474:G:H5'	2.02	0.40
22:D3:40:GLN:NE2	22:D3:57:PHE:O	2.50	0.40
1:AA:2228:G:H2'	1:AA:2229:C:O4'	2.21	0.40
22:A3:54:GLY:O	22:A3:56:ASP:N	2.54	0.40
55:DA:1695:G:H2'	55:DA:1696:G:O4'	2.21	0.40
45:BR:54:ARG:CG	45:BR:58:MET:HE2	2.51	0.40
8:DK:144:VAL:HG22	8:DK:145:VAL:H	1.84	0.40
31:BA:1275:A:C2'	31:BA:1276:G:H5'	2.51	0.40
1:AA:1095:A:C2'	1:AA:1095:A:N3	2.84	0.40
38:CK:29:SER:CB	38:CK:32:LYS:HE2	2.52	0.40
12:DP:23:GLY:CA	12:DP:101:ARG:NH1	2.84	0.40
31:BA:236:G:H2'	31:BA:237:C:C6	2.57	0.40
9:AM:4:TYR:OH	9:AM:6:PRO:HA	2.22	0.40
54:CA:342:C:C2	54:CA:348:G:N2	2.89	0.40
48:BU:36:ASN:ND2	48:BU:39:VAL:HB	2.35	0.40
47:CT:27:PHE:HD1	47:CT:28:PRO:O	2.04	0.40
54:CA:510:A:N3	54:CA:543:C:H1'	2.36	0.40
53:C1:44:U:HO2'	53:C1:45:U:P	2.44	0.40
52:BC:17:C:H6	52:BC:17:C:H3'	1.86	0.40
31:BA:19:C:H5''	35:BH:86:ALA:HB3	2.02	0.40
55:DA:1040:C:H2'	55:DA:1041:C:C6	2.55	0.40
55:DA:1982:C:H5''	55:DA:1983:C:OP2	2.21	0.40
1:AA:1921:G:O2'	1:AA:1922:G:H5'	2.21	0.40
59:CA:2207:MG:MG	46:CS:24:ALA:HB1	1.47	0.40
6:AG:170:ARG:O	6:AG:174:GLU:HB2	2.21	0.40
34:CG:133:VAL:HG11	34:CG:138:TYR:CD1	2.55	0.40
5:DF:51:THR:HG21	5:DF:92:PRO:HD2	2.03	0.40
26:D4:2:LYS:HD2	26:D4:2:LYS:HA	1.92	0.40
54:CA:54:C:H2'	54:CA:54:C:O2	2.21	0.40
4:AE:12:THR:HB	4:AE:13:ARG:H	1.67	0.40
55:DA:1060:U:C5	58:DL:74:ALA:HB1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1057:A:C8	55:DA:1086:A:C2'	3.01	0.40
55:DA:1107:G:H2'	55:DA:1108:U:C6	2.57	0.40
58:DL:107:ILE:HD13	58:DL:107:ILE:HG21	1.78	0.40
58:DL:125:ARG:O	58:DL:128:ALA:CB	2.70	0.40
58:DL:132:ARG:HD3	58:DL:137:GLU:OE2	2.21	0.40
58:DL:49:GLY:HA3	58:DL:50:ASP:CB	2.31	0.40
58:DL:9:LYS:NZ	58:DL:9:LYS:HB3	2.37	0.40
57:DY:18:GLU:O	57:DY:19:ARG:CB	2.69	0.40
57:DY:17:LEU:CD1	57:DY:25:PHE:HE2	2.35	0.40
57:DY:35:LYS:HA	57:DY:35:LYS:HZ2	1.83	0.40
57:DY:58:LEU:C	57:DY:62:ALA:HB2	2.40	0.40
30:A8:30:ARG:O	30:A8:31:HIS:ND1	2.55	0.40
1:AA:1360:A:C6	1:AA:1372:U:O4	2.74	0.40
1:AA:1185:C:H5''	1:AA:1186:G:OP1	2.21	0.40
2:AB:81:G:C8	2:AB:96:G:N2	2.90	0.40
3:DD:92:ILE:HG22	3:DD:105:ILE:O	2.21	0.40
26:A4:11:PRO:HA	26:A4:25:TYR:H	1.84	0.40
1:AA:2305:A:C6	6:AG:154:GLY:HA3	2.56	0.40
6:AG:4:ASP:HB3	6:AG:5:VAL:H	1.75	0.40
1:AA:769:G:O2'	1:AA:770:G:H5'	2.21	0.40
15:AR:24:PRO:HD3	15:AR:52:ILE:HD12	2.04	0.40
40:BM:78:ASN:O	40:BM:80:LYS:N	2.55	0.40
55:DA:2787:C:H2'	55:DA:2787:C:O2	2.21	0.40
14:DQ:103:GLU:CA	14:DQ:103:GLU:OE1	2.70	0.40
14:DQ:106:ARG:H	14:DQ:106:ARG:HG3	1.67	0.40
15:DR:88:ILE:HD12	15:DR:88:ILE:C	2.41	0.40
1:AA:2591:C:H2'	1:AA:2592:G:C8	2.56	0.40
20:DU:101:LYS:HG2	20:DU:101:LYS:O	2.21	0.40
1:AA:447:A:H5''	1:AA:448:U:OP1	2.21	0.40
1:AA:1225:C:O3'	17:A2:85:LYS:CB	2.62	0.40
21:DV:128:VAL:CG2	21:DV:129:SER:N	2.81	0.40
4:AE:32:PRO:HB2	4:AE:33:VAL:H	1.70	0.40
4:AE:55:ASN:O	4:AE:57:LYS:N	2.44	0.40
9:DM:112:LEU:O	9:DM:114:ARG:O	2.38	0.40
9:DM:57:ALA:O	9:DM:58:ASP:CB	2.69	0.40
9:DM:57:ALA:C	9:DM:58:ASP:OD1	2.59	0.40
1:AA:1049:C:H42	7:AH:2:SER:CB	2.30	0.40
1:AA:2756:U:O4	1:AA:2759:G:O6	2.39	0.40
31:BA:1028(A):C:H2'	31:BA:1028(B):C:C6	2.56	0.40
45:CR:78:TYR:CZ	45:CR:82:ILE:HD12	2.55	0.40
55:DA:637:A:HO2'	55:DA:638:G:P	2.44	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:127:LYS:HE3	21:AV:162:GLU:HG3	2.03	0.40
52:CD:58:A:N6	52:CD:61:C:C1'	2.84	0.40
17:D2:49:THR:O	17:D2:50:PRO:C	2.60	0.40
31:BA:1346:A:C4	31:BA:1348:U:C2	3.10	0.40
1:AA:498:G:H21	20:AU:47:LYS:HZ1	1.69	0.40
10:AN:11:ALA:O	10:AN:98:VAL:HG23	2.21	0.40
55:DA:1027:A:H61	55:DA:1126:A:C1'	2.34	0.40
32:BE:59:GLU:CA	32:BE:221:LEU:HD13	2.50	0.40
3:AD:35:LYS:HD3	3:AD:63:ARG:HG3	2.03	0.40
54:CA:375:U:C2	54:CA:376:G:C8	3.10	0.40
50:CW:89:ARG:C	50:CW:91:LEU:H	2.24	0.40
6:DG:67:LYS:CB	26:D4:5:ILE:HG22	2.52	0.40
8:AK:19:VAL:HG22	8:AK:20:ASP:N	2.36	0.40
1:AA:622:G:C2'	1:AA:623:G:H5'	2.52	0.40
9:AM:95:PRO:C	9:AM:97:ARG:H	2.24	0.40
37:BJ:109:ASN:HA	37:BJ:119:ARG:HH21	1.86	0.40
39:CL:112:LYS:C	39:CL:113:LYS:HD2	2.42	0.40
55:DA:31:C:H4'	55:DA:1238:G:H4'	2.03	0.40
3:DD:241:PRO:O	3:DD:242:ARG:HB2	2.22	0.40
11:AO:84:ASN:CB	11:AO:116:GLY:HA3	2.51	0.40
33:BF:132:ARG:HE	33:BF:136:GLN:HE22	1.68	0.40
55:DA:448:U:O4	55:DA:583:G:H1'	2.22	0.40
36:BI:15:ASP:OD2	34:CG:27:TYR:OH	2.39	0.40
1:AA:1527:G:H5''	1:AA:1528:A:OP1	2.22	0.40
54:CA:363:A:H62	42:CO:28:LYS:CD	2.34	0.40
42:CO:28:LYS:O	42:CO:30:ALA:N	2.55	0.40
4:DE:103:ASP:OD2	4:DE:168:MET:HE1	2.21	0.40
31:BA:712:A:H2'	31:BA:713:G:O4'	2.21	0.40
31:BA:778:G:C6	31:BA:779:C:C4	3.09	0.40
32:BE:52:GLU:O	32:BE:53:ARG:C	2.59	0.40
19:DT:31:HIS:CD2	19:DT:33:LYS:N	2.89	0.40
31:BA:686:U:C2	31:BA:687:A:N7	2.90	0.40
55:DA:2129:C:C2'	55:DA:2130:U:H5'	2.51	0.40
1:AA:2778:A:C5'	1:AA:2779:U:OP2	2.61	0.40
34:CG:62:GLN:OE1	34:CG:65:ARG:HD3	2.21	0.40
35:CH:103:GLY:C	35:CH:106:PRO:HD2	2.42	0.40
3:AD:142:VAL:HG23	3:AD:193:VAL:CA	2.41	0.40
4:AE:111:ARG:NE	4:AE:160:TYR:CE1	2.81	0.40
54:CA:112:G:C5'	54:CA:389:A:H4'	2.46	0.40
11:DO:50:ARG:NH2	11:DO:50:ARG:HB2	2.36	0.40
2:AB:15:A:C2'	2:AB:16:G:OP1	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1283:G:H2'	1:AA:1285:G:OP2	2.22	0.40
55:DA:364:C:O2	55:DA:364:C:H2'	2.21	0.40
55:DA:2340:G:H2'	55:DA:2341:G:H8	1.86	0.40
10:DN:3:GLN:HB2	10:DN:4:PRO:HD2	2.03	0.40
10:AN:43:VAL:HG21	10:AN:52:VAL:CG1	2.52	0.40
28:A6:31:PRO:HG2	28:A6:33:LYS:HB2	2.03	0.40
46:BS:1:MET:O	46:BS:3:LYS:HG3	2.22	0.40
11:AO:45:LEU:HD12	11:AO:45:LEU:HA	1.78	0.40
22:A3:72:ARG:NH1	22:A3:72:ARG:CG	2.84	0.40
19:AT:12:VAL:HG13	19:AT:27:THR:O	2.20	0.40
31:BA:49:U:C2	31:BA:361:G:N2	2.90	0.40
46:BS:39:TYR:CZ	46:BS:41:PRO:HA	2.56	0.40
1:AA:2692:C:O2'	1:AA:2693:A:H5'	2.22	0.40
1:AA:1758:G:C2	1:AA:2696:U:C5'	3.03	0.40
55:DA:1387:C:C2	55:DA:1388:G:C8	3.09	0.40
3:DD:112:GLN:OE1	3:DD:115:GLN:OE1	2.40	0.40
7:AH:143:GLN:HE22	7:AH:147:ASN:CG	2.25	0.40
55:DA:2314:C:C2	55:DA:2315:G:C8	3.09	0.40
1:AA:1295:C:H2'	1:AA:1296:G:C8	2.56	0.40
21:AV:20:ARG:NH1	21:AV:20:ARG:HG2	2.33	0.40
31:BA:849:C:H2'	31:BA:850:U:O4'	2.21	0.40
36:BI:35:ALA:HB2	36:BI:67:MET:HB3	2.03	0.40
55:DA:2838:G:H1'	13:D0:45:ARG:NH2	2.31	0.40
1:AA:1419:A:C8	1:AA:1579:A:N6	2.89	0.40
23:AZ:67:ILE:HB	23:AZ:68:PRO:HD3	2.04	0.40
35:CH:41:VAL:HG11	35:CH:113:ALA:HB2	2.01	0.40
21:DV:102:LEU:HD12	21:DV:122:ARG:HA	2.03	0.40
54:CA:865:A:H2'	54:CA:866:C:O4'	2.22	0.40
54:CA:1245:A:OP2	51:CX:9:ARG:NH2	2.49	0.40
37:CJ:99:LEU:HD23	37:CJ:102:ARG:NH1	2.36	0.40
40:CM:89:ASP:C	40:CM:91:PRO:HD3	2.42	0.40
55:DA:2688:U:H1'	55:DA:2721:A:H62	1.85	0.40
55:DA:217:G:H2'	55:DA:218:A:O4'	2.21	0.40
43:BP:56:LEU:HD13	43:BP:60:VAL:HG21	2.04	0.40
25:AX:23:LEU:HD11	25:AX:53:LEU:HD12	2.02	0.40
8:DK:144:VAL:CG2	8:DK:145:VAL:N	2.82	0.40
46:BS:56:ALA:O	46:BS:60:LEU:HG	2.22	0.40
55:DA:1523:U:H2'	55:DA:1524:G:H8	1.86	0.40
25:AX:29:ARG:HG3	25:AX:29:ARG:NH1	2.36	0.40
54:CA:401:C:H2'	54:CA:402:G:H8	1.87	0.40
1:AA:986:C:H2'	1:AA:987:G:H5'	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DA:1272:A:H3'	55:DA:1273:U:H5'	2.02	0.40
31:BA:1506:U:O2'	31:BA:1507:A:OP1	2.37	0.40
36:CI:52:ILE:O	36:CI:53:ALA:HB3	2.22	0.40
2:DB:85:G:C2	2:DB:86:G:C8	3.09	0.40
1:AA:44:A:O2'	1:AA:45:G:H5'	2.21	0.40
55:DA:2545:G:H2'	55:DA:2546:U:O4'	2.20	0.40
31:BA:1345:U:C2	31:BA:1377:A:C6	3.09	0.40
47:CT:10:VAL:HG13	47:CT:19:VAL:HB	2.03	0.40
31:BA:720:C:H6	31:BA:720:C:O5'	2.04	0.40
55:DA:1221:C:H2'	55:DA:1222:C:H6	1.85	0.40
58:DL:45:THR:O	58:DL:49:GLY:HA2	2.21	0.40
58:DL:52:ILE:CD1	58:DL:76:TYR:CB	2.53	0.40
58:DL:83:GLY:N	58:DL:99:ILE:HD13	2.36	0.40
57:DY:139:VAL:CG1	57:DY:140:GLY:N	2.84	0.40
57:DY:75:GLN:NE2	57:DY:75:GLN:HA	2.37	0.40
1:AA:898:C:C5	1:AA:899:A:N7	2.90	0.40
21:AV:104:PHE:C	21:AV:105:VAL:CG1	2.88	0.40
26:A4:53:GLU:OE2	26:A4:58:ARG:CB	2.62	0.40
26:A4:55:ARG:CG	26:A4:55:ARG:O	2.70	0.40
31:BA:1219:U:C4	31:BA:1220:G:N7	2.89	0.40
49:BV:20:LEU:C	49:BV:22:LEU:N	2.73	0.40
55:DA:1372:U:C6	55:DA:1372:U:C3'	3.04	0.40
43:BP:81:LEU:HB3	43:BP:89:GLY:HA2	2.02	0.40
1:AA:2275:C:O2	12:AP:83:MET:CG	2.67	0.40
1:AA:858:U:HO2'	1:AA:2268:A:C1'	2.33	0.40
1:AA:910:A:H2'	1:AA:2264:C:O2'	2.22	0.40
55:DA:1794:U:C2	55:DA:1795:C:C5	3.10	0.40
55:DA:878:A:C2	55:DA:879:G:C8	3.10	0.40
3:DD:120:GLY:HA3	3:DD:122:ASP:OD2	2.22	0.40
3:DD:132:PRO:O	3:DD:133:LEU:C	2.58	0.40
26:A4:12:ALA:N	26:A4:24:THR:CB	2.85	0.40
43:BP:19:LEU:HD23	43:BP:19:LEU:H	1.86	0.40
51:BX:8:THR:CG2	51:BX:9:ARG:N	2.85	0.40
15:AR:49:VAL:O	15:AR:49:VAL:HG13	2.21	0.40
8:AK:142:VAL:CG2	8:AK:143:SER:N	2.55	0.40
55:DA:1179:C:H2'	55:DA:1180:C:C4'	2.50	0.40
28:D6:28:ARG:CB	28:D6:28:ARG:HH11	2.28	0.40
16:A1:101:ARG:O	16:A1:102:GLU:CG	2.70	0.40
9:AM:46:VAL:HG13	9:AM:48:MET:HG3	2.03	0.40
31:BA:543:C:OP1	34:BG:14:ARG:CD	2.70	0.40
34:BG:26:CYS:HA	34:BG:31:CYS:CA	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2892:A:N6	1:AA:2893:G:C2	2.90	0.40
39:BL:4:TYR:CE2	39:BL:88:TYR:CB	3.04	0.40
54:CA:1146:A:H8	54:CA:1146:A:H5'	1.85	0.40
45:CR:76:GLU:C	45:CR:78:TYR:N	2.74	0.40
18:DS:18:ARG:HH11	18:DS:18:ARG:HG2	1.87	0.40
9:DM:67:LEU:O	9:DM:88:GLU:CG	2.58	0.40
16:D1:95:LEU:HD13	17:D2:4:ILE:CG2	2.51	0.40
23:AZ:87:PRO:HA	23:AZ:90:ILE:CG2	2.27	0.40
55:DA:885:C:N4	55:DA:892:G:C6	2.86	0.40
54:CA:1160:G:N3	54:CA:1160:G:H2'	2.36	0.40
37:BJ:50:ILE:O	37:BJ:52:GLU:N	2.55	0.40
1:AA:1140:C:H1'	1:AA:1143:A:C8	2.56	0.40
8:AK:109:ILE:HB	8:AK:110:ASP:H	1.67	0.40
1:AA:1210:A:P	1:AA:1212:G:H5'	2.61	0.40
1:AA:307:G:H21	1:AA:330:A:N6	2.14	0.40
10:AN:2:ILE:CD1	10:AN:6:THR:HG21	2.44	0.40
55:DA:2136:C:H6	55:DA:2136:C:O5'	2.05	0.40
32:BE:209:ARG:HG3	32:BE:240:GLN:NE2	2.36	0.40
14:DQ:14:VAL:HG13	14:DQ:15:ARG:N	2.35	0.40
1:AA:2718:G:C6	1:AA:2719:G:C5	3.08	0.40
12:DP:52:VAL:O	12:DP:53:ALA:C	2.58	0.40
31:BA:338:A:N6	31:BA:351:G:H1	2.19	0.40
54:CA:96:G:C6	54:CA:97:U:O2	2.74	0.40
55:DA:1163:G:P	17:D2:24:LYS:HZ1	2.45	0.40
31:BA:1207:G:H2'	31:BA:1208:C:H6	1.86	0.40
33:BF:116:VAL:HG21	33:BF:141:VAL:HG22	2.03	0.40
32:CE:68:ILE:O	32:CE:90:MET:HB3	2.21	0.40
43:BP:23:TYR:O	43:BP:66:LEU:HB2	2.21	0.40
54:CA:436:C:H2'	54:CA:437:U:O4'	2.20	0.40
33:BF:178:LEU:C	33:BF:180:ALA:N	2.72	0.40
3:DD:10:THR:C	3:DD:11:PRO:O	2.57	0.40
3:DD:9:TYR:CZ	3:DD:13:ARG:HD3	2.56	0.40
1:AA:2354:G:N3	1:AA:2354:G:H2'	2.36	0.40
4:DE:93:VAL:C	4:DE:95:ILE:N	2.74	0.40
40:CM:12:ASP:OD2	40:CM:14:LYS:HB3	2.21	0.40
17:A2:47:VAL:HG13	17:A2:47:VAL:O	2.22	0.40
27:A5:40:LYS:CE	27:A5:46:CYS:H	2.33	0.40
18:AS:92:ARG:HD3	18:AS:94:ASP:OD2	2.20	0.40
1:AA:2157:G:O2'	1:AA:2158:A:O4'	2.40	0.40
12:AP:55:VAL:CG1	12:AP:56:ARG:N	2.84	0.40
34:CG:79:PHE:CZ	34:CG:204:ILE:HA	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CH:105:VAL:H	35:CH:106:PRO:HD2	1.85	0.40
43:CP:12:ASN:N	43:CP:12:ASN:OD1	2.54	0.40
1:AA:117:G:C6	1:AA:119:A:C6	3.10	0.40
29:A7:8:ASN:ND2	29:A7:10:ARG:N	2.68	0.40
1:AA:1309:G:H2'	1:AA:1310:G:C5'	2.52	0.40
1:AA:1000:A:H8	1:AA:1000:A:H5'	1.86	0.40
54:CA:184:G:O2'	54:CA:185:A:H5'	2.22	0.40
1:AA:2556:C:H2'	1:AA:2557:G:C5'	2.52	0.40
9:AM:115:ARG:HG2	9:AM:115:ARG:NH1	2.36	0.40
55:DA:2562:U:C2'	55:DA:2563:U:H5'	2.51	0.40
15:DR:34:VAL:CG1	15:DR:35:LYS:N	2.83	0.40
6:AG:153:ARG:NH1	6:AG:153:ARG:HG2	2.37	0.40
18:DS:29:LEU:HD21	18:DS:33:ARG:NE	2.36	0.40
31:BA:392:G:H2'	31:BA:393:A:C8	2.56	0.40
55:DA:2859:G:O2'	55:DA:2860:A:H5'	2.22	0.40
6:AG:34:LEU:CD2	6:AG:159:VAL:HG23	2.50	0.40
11:DO:3:LEU:C	11:DO:5:ASP:H	2.25	0.40
42:BO:79:GLU:HG3	42:BO:80:HIS:CD2	2.56	0.40
33:CF:46:GLU:C	33:CF:48:TYR:H	2.25	0.40
54:CA:659:U:H2'	54:CA:660:G:C8	2.57	0.40
55:DA:2498:C:O2'	55:DA:2499:C:H5'	2.22	0.40
1:AA:602:G:N2	1:AA:656:G:C5	2.89	0.40
55:DA:2302:G:C6	55:DA:2315:G:C6	3.10	0.40
55:DA:1448:G:O2'	55:DA:1528:A:N6	2.54	0.40
7:DH:59:ARG:CG	7:DH:59:ARG:NH1	2.83	0.40
6:DG:9:ARG:C	6:DG:11:TYR:N	2.75	0.40
32:CE:100:GLY:O	32:CE:102:LEU:N	2.55	0.40
53:B1:43:U:H6	53:B1:43:U:C5'	2.30	0.40
31:BA:457:C:N4	31:BA:458:C:N4	2.69	0.40
13:D0:48:VAL:O	13:D0:49:ASP:C	2.59	0.40
55:DA:2754:U:H5'	55:DA:2755:C:OP2	2.19	0.40
31:BA:1065:U:C2'	31:BA:1066:C:OP2	2.69	0.40
31:BA:1541:U:O2'	31:BA:1542:U:H5'	2.21	0.40
55:DA:1648:C:C2	55:DA:1649:G:C8	3.09	0.40
36:CI:75:LEU:HD21	36:CI:79:LEU:HD11	2.03	0.40
1:AA:1889:A:O2'	1:AA:2087:G:H5'	2.21	0.40
31:BA:69:G:C2	31:BA:73:G:N7	2.90	0.40
21:DV:82:ARG:CG	21:DV:82:ARG:HH11	2.32	0.40
55:DA:868:U:H2'	55:DA:869:G:O4'	2.20	0.40
8:DK:144:VAL:O	8:DK:145:VAL:CG2	2.69	0.40
45:BR:9:GLN:O	45:BR:10:LYS:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:663:G:C5	1:AA:664:C:C5	3.09	0.40
1:AA:2271:G:OP1	22:A3:18:ALA:HB1	2.22	0.40
7:DH:121:ILE:CG2	7:DH:122:THR:N	2.84	0.40
7:DH:121:ILE:HG22	7:DH:122:THR:N	2.36	0.40
54:CA:177:C:O2'	54:CA:178:C:H5'	2.22	0.40
34:BG:209:ARG:HG3	34:BG:209:ARG:NH1	2.36	0.40
54:CA:1339:A:H2'	54:CA:1340:A:O4'	2.21	0.40
52:BC:66:U:N3	52:BC:67:C:C4	2.90	0.40
6:AG:83:ARG:HG2	6:AG:83:ARG:HH11	1.87	0.40
31:BA:123:C:OP1	31:BA:311:C:O2'	2.27	0.40
18:DS:24:ILE:CD1	18:DS:24:ILE:C	2.90	0.40
21:DV:158:PRO:HA	21:DV:159:PRO:HD3	1.93	0.40
8:AK:69:LYS:O	8:AK:73:GLU:HB2	2.22	0.40
55:DA:2584:U:O2	55:DA:2584:U:O4'	2.38	0.40
31:BA:1405:G:H1'	31:BA:1519:A:C4'	2.52	0.40
1:AA:721:C:H2'	1:AA:721:C:O2	2.20	0.40
1:AA:2017:U:H4'	27:A5:8:LYS:O	2.20	0.40
6:AG:169:ALA:O	6:AG:170:ARG:C	2.59	0.40
18:AS:36:LEU:HD13	18:AS:48:ALA:CA	2.52	0.40
52:BC:25:C:O2'	52:BC:26:A:H5'	2.21	0.40
37:BJ:6:ARG:O	37:BJ:7:ALA:C	2.60	0.40
5:DF:33:LEU:HD12	5:DF:33:LEU:HA	1.94	0.40
45:BR:6:GLU:CD	45:BR:6:GLU:H	2.24	0.40
36:CI:3:ARG:HG3	36:CI:3:ARG:HH11	1.86	0.40
54:CA:483:C:H6	54:CA:483:C:O5'	2.05	0.40
54:CA:958:A:C8	49:CV:55:LYS:HD2	2.56	0.40
1:AA:1263:U:O3'	27:A5:11:THR:OG1	2.40	0.40
31:BA:342:C:C4	31:BA:343:U:C4	3.09	0.40
4:AE:179:GLU:HG3	4:AE:181:LEU:HD23	2.03	0.40
55:DA:1058:U:H5''	58:DL:4:VAL:HG12	2.04	0.40
56:DI:17:VAL:CB	56:DI:21:LYS:HE3	2.52	0.40
56:DI:7:ARG:O	56:DI:7:ARG:HG2	2.20	0.40
58:DL:136:VAL:CG2	58:DL:137:GLU:N	2.83	0.40
58:DL:34:ILE:O	58:DL:34:ILE:CG2	2.65	0.40
58:DL:52:ILE:HD11	58:DL:73:PRO:HA	2.04	0.40
57:DY:127:GLU:HA	57:DY:127:GLU:OE2	2.21	0.40
57:DY:27:VAL:O	57:DY:28:ASN:CB	2.54	0.40
57:DY:4:LYS:O	57:DY:5:ARG:HG3	2.22	0.40
57:DY:51:LEU:HD22	57:DY:82:PHE:N	2.26	0.40
57:DY:9:LEU:HD13	57:DY:10:LEU:CA	2.46	0.40
31:BA:1363:A:N3	31:BA:1365:G:O6	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:978:A:C6	31:BA:1318:A:C5	3.09	0.40
43:BP:80:ARG:CZ	43:BP:80:ARG:HB3	2.51	0.40
43:BP:88:ARG:NH1	43:BP:88:ARG:HG2	2.37	0.40
1:AA:632:A:O2'	1:AA:2404:C:H5'	2.22	0.40
2:AB:40:U:C2	26:A4:1:MET:CE	3.04	0.40
1:AA:1379:A:HO2'	1:AA:1380:G:P	2.43	0.40
54:CA:949:A:H1'	54:CA:1364:U:H3	1.87	0.40
33:CF:29:TYR:CD1	44:CQ:36:PHE:HE1	2.40	0.40
40:CM:53:PRO:HA	44:CQ:42:ILE:HD11	2.03	0.40
54:CA:948:C:C4	43:CP:106:ASN:ND2	2.84	0.40
4:DE:27:LEU:HD21	15:DR:1:MET:HE2	2.02	0.40
55:DA:2784:C:H4'	4:DE:41:LYS:O	2.22	0.40
8:AK:82:ARG:HE	54:CA:56:U:C4'	2.23	0.40
55:DA:1483:G:C2	55:DA:1484:G:C5	3.10	0.40
30:D8:23:VAL:HG11	30:D8:46:ARG:HB3	2.00	0.40
1:AA:2889:C:H3'	1:AA:2891:G:C8	2.56	0.40
4:AE:60:ASN:ND2	4:AE:61:ARG:H	2.19	0.40
55:DA:2628:C:H1'	55:DA:2781:A:C4	2.56	0.40
9:DM:39:ARG:HH12	9:DM:41:ASP:CG	2.25	0.40
9:DM:6:PRO:C	9:DM:7:LYS:HZ2	2.23	0.40
2:DB:74:U:C2'	2:DB:75:G:C5'	2.82	0.40
20:AU:20:TYR:CZ	20:AU:42:VAL:HA	2.56	0.40
55:DA:2404:C:O3'	11:DO:77:ARG:NH2	2.54	0.40
32:CE:18:GLY:CA	32:CE:42:ILE:HG22	2.52	0.40
32:CE:79:ASP:O	32:CE:83:MET:HG2	2.22	0.40
11:DO:126:VAL:HG13	11:DO:145:PRO:CB	2.52	0.40
11:DO:113:LYS:HA	11:DO:129:ALA:O	2.22	0.40
26:D4:33:VAL:O	26:D4:34:GLU:C	2.60	0.40
54:CA:1156:G:H3'	54:CA:1157:A:C5'	2.51	0.40
1:AA:1023:U:OP2	1:AA:1024:G:N7	2.54	0.40
8:AK:97:ILE:HD12	8:AK:97:ILE:H	1.86	0.40
7:AH:109:PHE:CZ	7:AH:152:ARG:HD3	2.56	0.40
55:DA:1534:G:C8	55:DA:1534:G:C5'	3.05	0.40
32:BE:19:HIS:O	32:BE:20:GLU:O	2.39	0.40
55:DA:621:A:C2	55:DA:622:G:C5	3.09	0.40
3:AD:33:LEU:N	3:AD:35:LYS:O	2.41	0.40
3:AD:35:LYS:CG	3:AD:64:ILE:HG23	2.51	0.40
14:DQ:20:ARG:C	14:DQ:22:GLY:N	2.74	0.40
46:CS:20:VAL:CG2	46:CS:32:TYR:HB2	2.52	0.40
30:D8:62:LEU:HD23	30:D8:62:LEU:HA	2.00	0.40
54:CA:191:G:O2'	54:CA:192:U:H5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:48:ARG:NH1	3:DD:48:ARG:HG3	2.37	0.40
3:AD:195:ALA:O	3:AD:196:VAL:C	2.59	0.40
31:BA:1174:G:C2	31:BA:1175:G:C5	3.10	0.40
54:CA:817:C:C4	54:CA:819:A:H1'	2.56	0.40
1:AA:396:G:O5'	1:AA:396:G:H8	2.05	0.40
11:AO:85:LEU:HD23	11:AO:85:LEU:N	2.32	0.40
31:BA:4:U:O2'	31:BA:5:U:OP1	2.35	0.40
31:BA:1199:U:C4'	40:BM:54:PHE:CE1	3.04	0.40
31:BA:363:A:C8	42:BO:33:ARG:NH2	2.89	0.40
41:CN:128:ALA:HB1	53:C1:39:U:OP1	2.22	0.40
33:BF:141:VAL:HG12	33:BF:141:VAL:O	2.21	0.40
1:AA:2321:G:N3	1:AA:2321:G:H2'	2.36	0.40
1:AA:1060:U:OP1	1:AA:1060:U:H6	2.05	0.40
36:BI:15:ASP:OD2	36:BI:18:GLN:HG3	2.22	0.40
10:DN:77:ILE:HG12	15:DR:74:ARG:HG3	2.04	0.40
3:DD:10:THR:CG2	3:DD:13:ARG:HB2	2.50	0.40
25:DX:7:LYS:HG3	25:DX:34:GLU:HG2	2.02	0.40
1:AA:752:A:O2'	1:AA:753:C:P	2.76	0.40
7:AH:33:LEU:HD21	7:AH:136:ILE:O	2.21	0.40
7:AH:32:GLU:O	7:AH:33:LEU:HD23	2.22	0.40
1:AA:439:G:H2'	1:AA:440:G:C8	2.57	0.40
43:CP:108:ARG:O	43:CP:109:THR:C	2.59	0.40
42:CO:117:ARG:HB3	42:CO:122:THR:O	2.21	0.40
31:BA:754:C:H3'	31:BA:754:C:O2	2.22	0.40
31:BA:701:C:H4'	31:BA:702:A:H5''	2.02	0.40
55:DA:2656:U:C3'	55:DA:2656:U:C6	3.04	0.40
6:DG:53:LEU:HD23	6:DG:54:GLU:CA	2.52	0.40
1:AA:527:C:O4'	1:AA:527:C:O2	2.35	0.40
1:AA:2173:A:H5''	1:AA:2174:C:H5	1.83	0.40
36:CI:17:SER:O	36:CI:18:GLN:C	2.60	0.40
34:CG:206:PHE:C	34:CG:208:SER:H	2.25	0.40
38:BK:82:HIS:HB3	38:BK:138:TRP:CE2	2.56	0.40
51:BX:24:ARG:O	51:BX:25:LYS:O	2.40	0.40
1:AA:363(A):A:C3'	1:AA:363(B):G:C5'	3.00	0.40
32:BE:82:ARG:O	32:BE:86:GLU:HG3	2.21	0.40
31:BA:554:C:C2	31:BA:555:C:C5	3.10	0.40
1:AA:976:C:H4'	1:AA:1156:A:N7	2.35	0.40
5:AF:64:ILE:HG13	5:AF:65:TRP:CG	2.57	0.40
39:CL:40:LEU:CD1	39:CL:70:LYS:HG2	2.51	0.40
31:BA:1512:U:C2	31:BA:1513:A:N7	2.90	0.40
54:CA:1298:C:H4'	54:CA:1299:A:N9	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CE:52:GLU:CG	32:CE:56:ARG:HH12	2.27	0.40
54:CA:1085:U:H4'	54:CA:1086:U:OP2	2.19	0.40
55:DA:851:U:O4'	25:DX:46:ASN:ND2	2.55	0.40
1:AA:2033:A:O2'	1:AA:2034:U:OP1	2.40	0.40
55:DA:658:C:C2	55:DA:659:C:C5	3.09	0.40
14:AQ:108:GLY:O	14:AQ:110:LEU:HB2	2.20	0.40
14:AQ:107:GLU:H	14:AQ:110:LEU:HD12	1.87	0.40
31:BA:52:G:O2'	31:BA:53:A:H5'	2.20	0.40
55:DA:547:A:H2'	55:DA:548:A:N9	2.36	0.40
55:DA:1240:U:O2'	55:DA:1241:A:C5'	2.67	0.40
1:AA:110:G:C2	1:AA:111:A:C8	3.10	0.40
45:CR:10:LYS:O	45:CR:14:GLU:HB2	2.22	0.40
41:BN:91:ARG:HG2	41:BN:91:ARG:NH1	2.33	0.40
37:CJ:78:ARG:HD3	37:CJ:156:TRP:HB3	2.04	0.40
1:AA:67:U:H2'	1:AA:68:G:C8	2.54	0.40
31:BA:324:G:N1	31:BA:327:A:OP2	2.54	0.40
55:DA:2770:G:H5''	55:DA:2771:C:OP2	2.22	0.40
54:CA:329:A:H4'	54:CA:330:C:OP1	2.17	0.40
31:BA:1057:G:C2'	31:BA:1058:G:H5'	2.51	0.40
46:CS:40:ASP:OD2	46:CS:42:ARG:CB	2.68	0.40
34:BG:107:ARG:HB3	34:BG:174:LEU:HD13	2.03	0.40
47:CT:40:LYS:HD2	47:CT:42:TYR:CZ	2.56	0.40
1:AA:1409:C:O2'	1:AA:1410:G:H5'	2.21	0.40
55:DA:2895:U:H2'	55:DA:2896:C:O4'	2.22	0.40
55:DA:2373:G:H2'	55:DA:2374:C:C6	2.56	0.40
31:BA:1079:G:C6	31:BA:1080:A:N6	2.89	0.40
34:CG:53:ASP:OD2	34:CG:57:ARG:NH1	2.49	0.40
39:CL:61:ALA:HB1	39:CL:63:ILE:HD11	2.04	0.40
34:CG:96:LEU:HD22	34:CG:96:LEU:H	1.86	0.40
10:DN:36:GLY:HA2	10:DN:106:LEU:CD2	2.51	0.40
54:CA:842:C:H5'	54:CA:843:U:OP1	2.22	0.40
1:AA:1516:U:C2	1:AA:1517:G:C8	3.09	0.40
55:DA:1472:A:H2'	55:DA:1473:G:C8	2.55	0.40
33:CF:153:VAL:HG13	33:CF:196:LEU:CD1	2.51	0.40
1:AA:2243:U:H2'	1:AA:2244:U:C6	2.56	0.40
3:DD:222:ARG:NH1	3:DD:224:ALA:HB3	2.37	0.40
52:BD:26:A:N6	52:BD:44:G:H1	2.18	0.40
55:DA:2870:C:H5'	13:D0:61:HIS:CE1	2.54	0.40
54:CA:342:C:C4	54:CA:343:U:C4	3.10	0.40
33:CF:122:GLU:O	33:CF:126:ARG:HG3	2.21	0.40
54:CA:831:U:H2'	54:CA:832:C:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AZ:41:ARG:NH1	23:AZ:41:ARG:HG3	2.36	0.40
1:AA:1951:U:H2'	1:AA:1953:A:OP2	2.21	0.40
55:DA:2097:C:H2'	55:DA:2098:U:O4'	2.22	0.40
14:AQ:38:GLN:HG3	14:AQ:47:THR:HG21	2.03	0.40
18:AS:82:LEU:HD22	18:AS:84:ARG:HH22	1.86	0.40
42:BO:104:VAL:O	42:BO:105:TYR:HB2	2.20	0.40
10:DN:10:VAL:HG23	10:DN:17:ARG:C	2.42	0.40
54:CA:730:G:C5	54:CA:731:G:H1'	2.56	0.40
1:AA:2359:C:H2'	1:AA:2360:A:O4'	2.21	0.40
1:AA:1848:A:H2'	1:AA:1849:G:O4'	2.22	0.40
43:CP:26:GLY:O	43:CP:27:LYS:C	2.60	0.40
55:DA:2547:U:H2'	55:DA:2548:G:C8	2.57	0.40
55:DA:2104:G:O2'	55:DA:2105:C:H5'	2.22	0.40
46:CS:59:TRP:HA	46:CS:62:VAL:HG22	2.04	0.40
21:AV:18:LEU:HD12	21:AV:18:LEU:N	2.37	0.40
23:DZ:47:GLN:HA	23:DZ:47:GLN:OE1	2.21	0.40
2:AB:73:A:N3	2:AB:73:A:H2'	2.36	0.40
37:CJ:132:GLY:CA	37:CJ:135:VAL:HG23	2.52	0.40
1:AA:1439:A:H2'	1:AA:1440:G:O4'	2.21	0.40
48:BU:81:PHE:C	48:BU:82:THR:HG1	2.22	0.40
55:DA:78:A:H2'	55:DA:79:G:H8	1.87	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:363:G:O6	31:BA:86:U:OP1[3_555]	2.10	0.10
16:A1:84:LYS:NZ	55:DA:654(I):C:O2'[2_465]	2.12	0.08

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	
3	AD	270/276 (98%)	201 (74%)	45 (17%)	24 (9%)	1	5
3	DD	270/276 (98%)	193 (72%)	61 (23%)	16 (6%)	2	12
4	AE	203/206 (98%)	105 (52%)	48 (24%)	50 (25%)	0	0
4	DE	203/206 (98%)	120 (59%)	36 (18%)	47 (23%)	0	0
5	AF	206/210 (98%)	136 (66%)	41 (20%)	29 (14%)	0	1
5	DF	200/210 (95%)	157 (78%)	29 (14%)	14 (7%)	1	8
6	AG	179/182 (98%)	127 (71%)	36 (20%)	16 (9%)	1	5
6	DG	179/182 (98%)	124 (69%)	30 (17%)	25 (14%)	0	1
7	AH	168/180 (93%)	80 (48%)	51 (30%)	37 (22%)	0	0
7	DH	168/180 (93%)	94 (56%)	43 (26%)	31 (18%)	0	0
8	AK	144/148 (97%)	83 (58%)	34 (24%)	27 (19%)	0	0
8	DK	144/148 (97%)	76 (53%)	41 (28%)	27 (19%)	0	0
9	AM	136/140 (97%)	95 (70%)	25 (18%)	16 (12%)	0	2
9	DM	136/140 (97%)	106 (78%)	16 (12%)	14 (10%)	1	4
10	AN	120/122 (98%)	98 (82%)	17 (14%)	5 (4%)	3	19
10	DN	120/122 (98%)	104 (87%)	12 (10%)	4 (3%)	5	26
11	AO	148/150 (99%)	73 (49%)	30 (20%)	45 (30%)	0	0
11	DO	148/150 (99%)	88 (60%)	27 (18%)	33 (22%)	0	0
12	AP	139/141 (99%)	73 (52%)	39 (28%)	27 (19%)	0	0
12	DP	139/141 (99%)	91 (66%)	28 (20%)	20 (14%)	0	1
13	A0	115/118 (98%)	84 (73%)	20 (17%)	11 (10%)	1	4
13	D0	116/118 (98%)	87 (75%)	17 (15%)	12 (10%)	1	4
14	AQ	109/112 (97%)	68 (62%)	21 (19%)	20 (18%)	0	0
14	DQ	109/112 (97%)	70 (64%)	21 (19%)	18 (16%)	0	0
15	AR	135/146 (92%)	98 (73%)	25 (18%)	12 (9%)	1	5
15	DR	135/146 (92%)	92 (68%)	27 (20%)	16 (12%)	0	2
16	A1	115/118 (98%)	79 (69%)	27 (24%)	9 (8%)	1	6
16	D1	115/118 (98%)	96 (84%)	11 (10%)	8 (7%)	1	8
17	A2	99/101 (98%)	60 (61%)	17 (17%)	22 (22%)	0	0
17	D2	99/101 (98%)	80 (81%)	9 (9%)	10 (10%)	1	4
18	AS	111/113 (98%)	82 (74%)	21 (19%)	8 (7%)	1	7
18	DS	111/113 (98%)	87 (78%)	20 (18%)	4 (4%)	4	24

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
19	AT	90/96 (94%)	66 (73%)	17 (19%)	7 (8%)	1	6
19	DT	90/96 (94%)	75 (83%)	13 (14%)	2 (2%)	8	36
20	AU	100/110 (91%)	48 (48%)	22 (22%)	30 (30%)	0	0
20	DU	100/110 (91%)	64 (64%)	11 (11%)	25 (25%)	0	0
21	AV	185/206 (90%)	90 (49%)	45 (24%)	50 (27%)	0	0
21	DV	198/206 (96%)	102 (52%)	46 (23%)	50 (25%)	0	0
22	A3	82/85 (96%)	56 (68%)	16 (20%)	10 (12%)	0	2
22	D3	82/85 (96%)	62 (76%)	14 (17%)	6 (7%)	1	7
23	AZ	95/98 (97%)	73 (77%)	10 (10%)	12 (13%)	0	1
23	DZ	95/98 (97%)	74 (78%)	13 (14%)	8 (8%)	1	6
24	AW	67/72 (93%)	42 (63%)	17 (25%)	8 (12%)	0	2
24	DW	67/72 (93%)	52 (78%)	8 (12%)	7 (10%)	1	3
25	AX	57/60 (95%)	46 (81%)	6 (10%)	5 (9%)	1	5
25	DX	57/60 (95%)	49 (86%)	5 (9%)	3 (5%)	2	14
26	A4	69/71 (97%)	26 (38%)	14 (20%)	29 (42%)	0	0
26	D4	69/71 (97%)	35 (51%)	12 (17%)	22 (32%)	0	0
27	A5	57/60 (95%)	40 (70%)	9 (16%)	8 (14%)	0	1
27	D5	57/60 (95%)	35 (61%)	9 (16%)	13 (23%)	0	0
28	A6	43/54 (80%)	15 (35%)	12 (28%)	16 (37%)	0	0
28	D6	43/54 (80%)	19 (44%)	9 (21%)	15 (35%)	0	0
29	A7	47/49 (96%)	41 (87%)	6 (13%)	0	100	100
29	D7	47/49 (96%)	40 (85%)	5 (11%)	2 (4%)	3	19
30	A8	62/65 (95%)	37 (60%)	11 (18%)	14 (23%)	0	0
30	D8	62/65 (95%)	43 (69%)	9 (14%)	10 (16%)	0	0
32	BE	235/256 (92%)	137 (58%)	62 (26%)	36 (15%)	0	0
32	CE	235/256 (92%)	140 (60%)	58 (25%)	37 (16%)	0	0
33	BF	204/239 (85%)	135 (66%)	40 (20%)	29 (14%)	0	1
33	CF	203/239 (85%)	137 (68%)	49 (24%)	17 (8%)	1	6
34	BG	206/209 (99%)	134 (65%)	43 (21%)	29 (14%)	0	1
34	CG	206/209 (99%)	124 (60%)	59 (29%)	23 (11%)	0	3
35	BH	149/162 (92%)	115 (77%)	22 (15%)	12 (8%)	1	6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
35	CH	149/162 (92%)	115 (77%)	26 (17%)	8 (5%)	2	14
36	BI	99/101 (98%)	79 (80%)	15 (15%)	5 (5%)	2	15
36	CI	99/101 (98%)	66 (67%)	26 (26%)	7 (7%)	1	8
37	BJ	153/156 (98%)	115 (75%)	26 (17%)	12 (8%)	1	6
37	CJ	153/156 (98%)	120 (78%)	26 (17%)	7 (5%)	3	17
38	BK	136/138 (99%)	104 (76%)	21 (15%)	11 (8%)	1	6
38	CK	136/138 (99%)	101 (74%)	30 (22%)	5 (4%)	4	23
39	BL	125/128 (98%)	89 (71%)	28 (22%)	8 (6%)	2	10
39	CL	125/128 (98%)	93 (74%)	19 (15%)	13 (10%)	1	3
40	BM	97/105 (92%)	61 (63%)	24 (25%)	12 (12%)	0	1
40	CM	97/105 (92%)	71 (73%)	19 (20%)	7 (7%)	1	7
41	BN	117/129 (91%)	87 (74%)	21 (18%)	9 (8%)	1	6
41	CN	117/129 (91%)	90 (77%)	24 (20%)	3 (3%)	7	32
42	BO	123/132 (93%)	81 (66%)	19 (15%)	23 (19%)	0	0
42	CO	123/132 (93%)	85 (69%)	17 (14%)	21 (17%)	0	0
43	BP	119/126 (94%)	80 (67%)	23 (19%)	16 (13%)	0	1
43	CP	123/126 (98%)	77 (63%)	22 (18%)	24 (20%)	0	0
44	BQ	58/61 (95%)	39 (67%)	12 (21%)	7 (12%)	0	2
44	CQ	58/61 (95%)	37 (64%)	12 (21%)	9 (16%)	0	0
45	BR	86/89 (97%)	67 (78%)	16 (19%)	3 (4%)	4	24
45	CR	86/89 (97%)	66 (77%)	14 (16%)	6 (7%)	1	8
46	BS	82/88 (93%)	57 (70%)	19 (23%)	6 (7%)	1	7
46	CS	82/88 (93%)	54 (66%)	22 (27%)	6 (7%)	1	7
47	BT	98/105 (93%)	78 (80%)	11 (11%)	9 (9%)	1	4
47	CT	98/105 (93%)	75 (76%)	17 (17%)	6 (6%)	2	11
48	BU	70/88 (80%)	45 (64%)	16 (23%)	9 (13%)	0	1
48	CU	70/88 (80%)	51 (73%)	11 (16%)	8 (11%)	0	2
49	BV	81/93 (87%)	47 (58%)	23 (28%)	11 (14%)	0	1
49	CV	86/93 (92%)	56 (65%)	16 (19%)	14 (16%)	0	0
50	BW	97/106 (92%)	55 (57%)	29 (30%)	13 (13%)	0	1
50	CW	97/106 (92%)	65 (67%)	20 (21%)	12 (12%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
51	BX	23/27 (85%)	16 (70%)	4 (17%)	3 (13%)	0	1
51	CX	23/27 (85%)	18 (78%)	3 (13%)	2 (9%)	1	5
56	DI	28/125 (22%)	6 (21%)	6 (21%)	16 (57%)	0	0
56	DJ	28/125 (22%)	10 (36%)	8 (29%)	10 (36%)	0	0
57	DY	143/173 (83%)	30 (21%)	36 (25%)	77 (54%)	0	0
58	DL	143/147 (97%)	46 (32%)	29 (20%)	68 (48%)	0	0
All	All	11776/12624 (93%)	7791 (66%)	2307 (20%)	1678 (14%)	0	1

All (1678) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	AD	3	VAL
3	AD	25	THR
3	AD	26	LYS
3	AD	28	GLU
3	AD	33	LEU
3	AD	58	HIS
3	AD	157	ARG
3	AD	196	VAL
3	AD	225	ALA
3	AD	237	GLU
3	AD	267	SER
3	AD	268	ARG
4	AE	2	LYS
4	AE	4	ILE
4	AE	9	VAL
4	AE	11	MET
4	AE	23	VAL
4	AE	32	PRO
4	AE	33	VAL
4	AE	53	PRO
4	AE	59	VAL
4	AE	60	ASN
4	AE	61	ARG
4	AE	71	GLY
4	AE	72	VAL
4	AE	77	ILE
4	AE	78	LEU
4	AE	88	GLY
4	AE	92	THR

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Mol	Chain	Res	Type
4	AE	118	LYS
4	AE	131	ALA
4	AE	132	HIS
4	AE	133	LYS
5	AF	2	LYS
5	AF	21	ALA
5	AF	25	PRO
5	AF	59	TYR
5	AF	61	GLY
5	AF	62	ARG
5	AF	89	VAL
5	AF	123	LEU
5	AF	129	PHE
5	AF	176	LEU
6	AG	14	GLU
6	AG	96	ARG
6	AG	117	PHE
7	AH	23	ARG
7	AH	50	VAL
7	AH	81	GLU
7	AH	87	LEU
7	AH	92	ILE
7	AH	126	PRO
7	AH	127	GLU
7	AH	130	ARG
7	AH	152	ARG
7	AH	153	LYS
7	AH	167	GLU
8	AK	30	LEU
8	AK	77	LEU
8	AK	78	THR
8	AK	88	ILE
8	AK	100	ALA
8	AK	102	SER
8	AK	117	GLU
8	AK	131	LYS
8	AK	142	VAL
8	AK	144	VAL
9	AM	17	ASP
9	AM	18	ALA
9	AM	50	ASP
9	AM	56	ASN

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Mol	Chain	Res	Type
9	AM	63	THR
9	AM	64	GLY
9	AM	130	HIS
9	AM	133	GLN
10	AN	48	PRO
11	AO	10	PRO
11	AO	15	ARG
11	AO	17	LYS
11	AO	19	VAL
11	AO	25	SER
11	AO	34	GLY
11	AO	35	HIS
11	AO	38	GLN
11	AO	49	ARG
11	AO	56	SER
11	AO	57	THR
11	AO	58	THR
11	AO	60	MET
11	AO	62	LEU
11	AO	64	LYS
11	AO	66	GLY
11	AO	94	GLU
11	AO	108	LYS
11	AO	110	TYR
11	AO	111	ARG
11	AO	147	LEU
12	AP	2	LEU
12	AP	11	LYS
12	AP	25	ASP
12	AP	61	GLY
12	AP	79	LEU
12	AP	90	VAL
12	AP	105	GLU
12	AP	130	LYS
12	AP	134	ARG
12	AP	138	ASP
12	AP	139	GLU
13	A0	10	LEU
13	A0	82	GLU
14	AQ	12	PHE
14	AQ	14	VAL
14	AQ	55	ALA

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Mol	Chain	Res	Type
14	AQ	56	LEU
14	AQ	86	ALA
14	AQ	87	PHE
14	AQ	88	ASP
14	AQ	89	ARG
14	AQ	107	GLU
15	AR	3	ARG
15	AR	78	LEU
15	AR	84	GLN
15	AR	86	ILE
15	AR	107	ASP
16	A1	90	VAL
16	A1	91	ASP
16	A1	98	LEU
17	A2	44	LYS
17	A2	45	THR
17	A2	47	VAL
17	A2	49	THR
17	A2	71	LEU
17	A2	72	VAL
17	A2	79	VAL
17	A2	84	LYS
17	A2	85	LYS
18	AS	45	TYR
18	AS	63	ASP
18	AS	80	PRO
19	AT	68	ARG
20	AU	17	SER
20	AU	21	LYS
20	AU	29	GLU
20	AU	49	VAL
20	AU	50	ARG
20	AU	63	LYS
20	AU	72	VAL
20	AU	77	PRO
20	AU	78	ALA
20	AU	85	VAL
20	AU	89	PHE
20	AU	90	LEU
20	AU	102	CYS
21	AV	6	LYS
21	AV	31	ARG

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Mol	Chain	Res	Type
21	AV	34	ASN
21	AV	61	LEU
21	AV	62	PRO
21	AV	65	GLN
21	AV	93	ASP
21	AV	96	VAL
21	AV	107	THR
21	AV	108	PRO
21	AV	112	ARG
21	AV	115	GLY
21	AV	117	LEU
21	AV	141	VAL
21	AV	148	ASP
21	AV	149	SER
21	AV	155	LEU
21	AV	171	ILE
21	AV	177	PRO
21	AV	179	ASP
21	AV	184	ALA
21	AV	186	GLU
22	A3	5	LYS
22	A3	7	LEU
22	A3	15	ASP
22	A3	84	LEU
23	AZ	30	VAL
23	AZ	82	LEU
23	AZ	84	GLY
23	AZ	93	GLU
24	AW	16	LEU
24	AW	17	SER
24	AW	43	GLN
24	AW	44	LEU
24	AW	47	ASN
24	AW	48	HIS
24	AW	70	GLN
26	A4	8	LYS
26	A4	12	ALA
26	A4	22	ILE
26	A4	26	SER
26	A4	34	GLU
26	A4	39	CYS
26	A4	40	HIS

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Mol	Chain	Res	Type
26	A4	42	PHE
26	A4	51	ASP
26	A4	53	GLU
26	A4	56	VAL
26	A4	66	SER
26	A4	67	TYR
26	A4	68	ARG
27	A5	4	HIS
27	A5	53	ALA
27	A5	58	LEU
28	A6	16	CYS
28	A6	19	ARG
28	A6	23	THR
28	A6	44	ARG
30	A8	31	HIS
30	A8	32	LEU
30	A8	34	TRP
30	A8	41	ILE
30	A8	48	PHE
30	A8	49	VAL
30	A8	50	LEU
30	A8	51	ALA
30	A8	61	LEU
30	A8	62	LEU
30	A8	64	TYR
32	BE	7	VAL
32	BE	39	ILE
32	BE	74	LYS
32	BE	96	ARG
32	BE	191	ASP
32	BE	194	PRO
32	BE	195	ASP
32	BE	229	VAL
32	BE	232	PRO
32	BE	238	LEU
33	BF	4	LYS
33	BF	12	LEU
33	BF	18	TRP
33	BF	45	LYS
33	BF	61	ALA
33	BF	98	ASN
33	BF	101	LEU

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Mol	Chain	Res	Type
33	BF	127	ARG
33	BF	146	ALA
33	BF	155	GLY
33	BF	165	THR
34	BG	14	ARG
34	BG	17	VAL
34	BG	20	TYR
34	BG	24	GLU
34	BG	27	TYR
34	BG	40	PRO
34	BG	150	GLU
34	BG	151	LYS
34	BG	189	PRO
34	BG	190	ASP
35	BH	146	ALA
36	BI	15	ASP
38	BK	91	ARG
38	BK	101	PRO
38	BK	103	VAL
38	BK	105	ARG
39	BL	40	LEU
40	BM	57	LYS
41	BN	106	LYS
42	BO	18	VAL
42	BO	19	ARG
42	BO	47	LYS
42	BO	63	GLY
42	BO	64	TYR
42	BO	65	GLU
42	BO	79	GLU
43	BP	4	ILE
43	BP	12	ASN
43	BP	25	ILE
43	BP	116	THR
44	BQ	14	PRO
44	BQ	16	PHE
44	BQ	23	ARG
44	BQ	29	ARG
47	BT	69	LYS
48	BU	19	LYS
48	BU	20	ALA
48	BU	21	LYS

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Mol	Chain	Res	Type
49	BV	9	VAL
49	BV	24	ALA
49	BV	30	LEU
49	BV	42	PRO
49	BV	43	GLU
49	BV	48	THR
50	BW	11	SER
50	BW	49	ALA
50	BW	71	THR
51	BX	25	LYS
32	CE	6	THR
32	CE	15	VAL
32	CE	96	ARG
32	CE	122	PHE
32	CE	126	GLU
32	CE	195	ASP
32	CE	208	ILE
32	CE	230	VAL
32	CE	235	SER
32	CE	237	ALA
33	CF	12	LEU
33	CF	79	ARG
33	CF	189	ALA
34	CG	7	PRO
34	CG	28	SER
34	CG	30	LYS
34	CG	151	LYS
34	CG	178	VAL
35	CH	21	ALA
35	CH	77	PRO
35	CH	115	VAL
35	CH	146	ALA
36	CI	42	GLU
37	CJ	53	LYS
38	CK	103	VAL
39	CL	23	ASN
39	CL	41	VAL
39	CL	55	ALA
39	CL	95	LYS
40	CM	57	LYS
41	CN	82	VAL
42	CO	18	VAL

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Mol	Chain	Res	Type
42	CO	27	LEU
42	CO	46	LYS
42	CO	47	LYS
42	CO	48	PRO
42	CO	62	SER
42	CO	64	TYR
42	CO	65	GLU
42	CO	79	GLU
42	CO	91	LYS
43	CP	4	ILE
43	CP	12	ASN
43	CP	28	ALA
43	CP	60	VAL
43	CP	67	GLU
43	CP	101	GLN
43	CP	116	THR
43	CP	118	ALA
43	CP	122	LYS
44	CQ	14	PRO
44	CQ	16	PHE
44	CQ	23	ARG
44	CQ	36	PHE
46	CS	49	LEU
47	CT	78	GLU
47	CT	81	ARG
48	CU	21	LYS
49	CV	3	ARG
49	CV	5	LEU
49	CV	45	VAL
49	CV	82	GLY
49	CV	83	HIS
50	CW	49	ALA
50	CW	95	ALA
50	CW	100	ILE
3	DD	28	GLU
3	DD	33	LEU
3	DD	122	ASP
3	DD	123	ALA
4	DE	2	LYS
4	DE	15	PHE
4	DE	19	ARG
4	DE	21	VAL

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Mol	Chain	Res	Type
4	DE	22	PRO
4	DE	35	GLN
4	DE	37	ARG
4	DE	54	GLN
4	DE	61	ARG
4	DE	62	PRO
4	DE	64	LYS
4	DE	68	ALA
4	DE	72	VAL
4	DE	79	ARG
4	DE	88	GLY
4	DE	118	LYS
4	DE	132	HIS
4	DE	154	LYS
4	DE	169	ASN
4	DE	187	ALA
5	DF	24	LEU
5	DF	66	PRO
5	DF	73	ALA
5	DF	89	VAL
5	DF	128	ALA
5	DF	134	GLY
6	DG	14	GLU
6	DG	96	ARG
7	DH	10	PRO
7	DH	12	PRO
7	DH	16	SER
7	DH	17	VAL
7	DH	20	ALA
7	DH	27	LYS
7	DH	83	TYR
7	DH	86	GLU
7	DH	92	ILE
7	DH	126	PRO
7	DH	127	GLU
7	DH	138	LYS
7	DH	153	LYS
7	DH	154	PRO
7	DH	155	SER
7	DH	156	ALA
7	DH	167	GLU
7	DH	169	VAL

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Mol	Chain	Res	Type
56	DI	3	LEU
56	DI	6	GLU
56	DI	10	GLU
56	DI	13	SER
56	DI	20	LEU
56	DI	21	LYS
56	DI	24	ILE
8	DK	13	GLY
8	DK	15	VAL
8	DK	77	LEU
8	DK	78	THR
8	DK	79	ILE
8	DK	115	ALA
8	DK	134	PRO
57	DY	2	PRO
57	DY	3	ASN
57	DY	4	LYS
57	DY	6	ASN
57	DY	8	GLU
57	DY	9	LEU
57	DY	11	ALA
57	DY	23	SER
57	DY	25	PHE
57	DY	28	ASN
57	DY	32	LEU
57	DY	43	ALA
57	DY	44	LEU
57	DY	47	ASN
57	DY	50	ARG
57	DY	53	VAL
57	DY	57	THR
57	DY	58	LEU
57	DY	62	ALA
57	DY	63	LEU
57	DY	64	LYS
57	DY	71	LEU
57	DY	74	LEU
57	DY	78	SER
57	DY	83	TYR
57	DY	88	ALA
57	DY	97	ALA
57	DY	102	LYS

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Mol	Chain	Res	Type
57	DY	104	ILE
57	DY	106	GLN
57	DY	108	LYS
57	DY	113	GLN
57	DY	117	LEU
57	DY	120	LYS
57	DY	121	ASP
57	DY	122	VAL
57	DY	123	GLU
57	DY	127	GLU
57	DY	129	PRO
57	DY	130	THR
57	DY	131	MET
57	DY	132	ASP
57	DY	133	GLU
57	DY	142	LEU
57	DY	143	GLN
58	DL	4	VAL
58	DL	7	VAL
58	DL	12	LEU
58	DL	14	ALA
58	DL	18	THR
58	DL	20	ALA
58	DL	33	ASN
58	DL	39	LYS
58	DL	48	MET
58	DL	49	GLY
58	DL	50	ASP
58	DL	52	ILE
58	DL	53	VAL
58	DL	54	PRO
58	DL	57	ILE
58	DL	60	TYR
58	DL	63	ARG
58	DL	64	SER
58	DL	66	THR
58	DL	68	VAL
58	DL	70	LYS
58	DL	72	PRO
58	DL	75	SER
58	DL	81	ALA
58	DL	82	ALA

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Mol	Chain	Res	Type
58	DL	87	GLY
58	DL	90	LYS
58	DL	102	GLU
58	DL	104	VAL
58	DL	113	PRO
58	DL	114	ASP
58	DL	116	ASN
58	DL	121	GLU
58	DL	126	MET
58	DL	136	VAL
58	DL	139	VAL
58	DL	141	ALA
58	DL	143	GLU
58	DL	146	ASP
56	DJ	4	ASP
56	DJ	8	ILE
56	DJ	18	LEU
56	DJ	19	GLU
56	DJ	29	GLU
9	DM	9	VAL
9	DM	22	THR
9	DM	58	ASP
9	DM	134	ARG
10	DN	97	ARG
11	DO	6	LEU
11	DO	10	PRO
11	DO	15	ARG
11	DO	16	ARG
11	DO	19	VAL
11	DO	25	SER
11	DO	27	HIS
11	DO	31	ALA
11	DO	36	LYS
11	DO	38	GLN
11	DO	57	THR
11	DO	67	MET
11	DO	106	LEU
11	DO	149	GLU
12	DP	19	GLY
12	DP	22	LYS
12	DP	88	GLY
12	DP	135	ASP

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Mol	Chain	Res	Type
12	DP	139	GLU
13	D0	3	HIS
13	D0	4	LEU
13	D0	58	GLY
14	DQ	11	LYS
14	DQ	14	VAL
14	DQ	19	LYS
14	DQ	61	ASN
14	DQ	88	ASP
14	DQ	89	ARG
14	DQ	107	GLU
15	DR	2	ASN
15	DR	3	ARG
15	DR	42	ILE
15	DR	58	ASN
15	DR	105	LEU
15	DR	123	GLN
15	DR	124	ASP
16	D1	90	VAL
16	D1	91	ASP
16	D1	93	LYS
16	D1	117	GLN
17	D2	45	THR
17	D2	49	THR
17	D2	79	VAL
18	DS	67	ASP
19	DT	68	ARG
20	DU	5	MET
20	DU	11	ASP
20	DU	20	TYR
20	DU	45	VAL
20	DU	49	VAL
20	DU	50	ARG
20	DU	57	GLN
20	DU	63	LYS
20	DU	77	PRO
20	DU	78	ALA
20	DU	80	GLY
21	DV	7	ALA
21	DV	107	THR
21	DV	112	ARG
21	DV	118	GLN

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Mol	Chain	Res	Type
21	DV	124	ILE
21	DV	140	ASP
21	DV	143	GLY
21	DV	146	ILE
21	DV	153	SER
21	DV	154	ASP
21	DV	155	LEU
21	DV	161	VAL
21	DV	175	VAL
21	DV	180	VAL
21	DV	184	ALA
21	DV	185	GLU
21	DV	187	ALA
21	DV	191	VAL
21	DV	192	ALA
21	DV	194	PRO
21	DV	197	ILE
21	DV	198	LYS
21	DV	199	LYS
22	D3	4	LYS
22	D3	9	SER
24	DW	16	LEU
24	DW	43	GLN
24	DW	47	ASN
24	DW	48	HIS
24	DW	70	GLN
26	D4	14	ILE
26	D4	31	ILE
26	D4	38	LYS
26	D4	39	CYS
26	D4	40	HIS
26	D4	46	GLN
26	D4	50	VAL
26	D4	51	ASP
26	D4	53	GLU
26	D4	55	ARG
26	D4	56	VAL
26	D4	57	GLU
27	D5	4	HIS
27	D5	35	GLU
27	D5	43	HIS
27	D5	47	PRO

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Mol	Chain	Res	Type
27	D5	53	ALA
28	D6	15	GLU
28	D6	19	ARG
28	D6	21	TYR
28	D6	31	PRO
28	D6	32	ASN
28	D6	43	CYS
28	D6	45	LYS
28	D6	46	HIS
29	D7	48	LYS
30	D8	7	HIS
30	D8	31	HIS
30	D8	52	LYS
30	D8	62	LEU
3	AD	144	ALA
3	AD	156	ALA
3	AD	238	GLY
4	AE	25	VAL
4	AE	50	GLY
4	AE	51	PHE
4	AE	54	GLN
4	AE	58	ARG
4	AE	64	LYS
4	AE	94	GLU
4	AE	130	GLY
4	AE	152	LYS
4	AE	187	ALA
4	AE	200	GLU
4	AE	204	ALA
5	AF	3	GLU
5	AF	5	ALA
5	AF	11	VAL
5	AF	17	ARG
5	AF	19	GLU
5	AF	66	PRO
5	AF	84	VAL
5	AF	125	LEU
5	AF	127	GLU
5	AF	128	ALA
5	AF	132	VAL
6	AG	3	LEU
6	AG	5	VAL

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Mol	Chain	Res	Type
7	AH	3	ARG
7	AH	12	PRO
7	AH	27	LYS
7	AH	83	TYR
7	AH	84	SER
7	AH	141	VAL
7	AH	155	SER
7	AH	168	PRO
7	AH	169	VAL
8	AK	12	LEU
8	AK	73	GLU
8	AK	101	LEU
8	AK	119	PRO
8	AK	140	LEU
8	AK	143	SER
8	AK	145	VAL
9	AM	2	LYS
10	AN	5	GLN
11	AO	5	ASP
11	AO	6	LEU
11	AO	16	ARG
11	AO	29	LYS
11	AO	36	LYS
11	AO	47	ASP
11	AO	90	ARG
11	AO	116	GLY
11	AO	119	GLU
11	AO	141	ALA
11	AO	146	VAL
12	AP	15	GLY
12	AP	22	LYS
12	AP	23	GLY
12	AP	88	GLY
12	AP	140	ALA
13	A0	11	ASN
13	A0	14	SER
13	A0	42	LYS
13	A0	93	GLY
13	A0	102	GLU
14	AQ	4	LEU
14	AQ	11	LYS
14	AQ	57	LYS

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Mol	Chain	Res	Type
14	AQ	96	GLY
14	AQ	109	GLY
15	AR	2	ASN
15	AR	97	ALA
15	AR	104	ASN
15	AR	115	ARG
16	A1	9	VAL
17	A2	38	LEU
17	A2	67	GLY
17	A2	80	GLN
18	AS	65	LEU
18	AS	67	ASP
18	AS	110	LYS
20	AU	3	VAL
20	AU	39	VAL
20	AU	44	ILE
20	AU	57	GLN
20	AU	59	GLY
20	AU	73	ARG
20	AU	99	CYS
21	AV	12	GLY
21	AV	13	GLU
21	AV	38	TYR
21	AV	53	ILE
21	AV	63	ASP
21	AV	64	GLY
21	AV	78	LYS
21	AV	105	VAL
21	AV	140	ASP
21	AV	142	SER
21	AV	143	GLY
21	AV	145	GLU
21	AV	146	ILE
21	AV	180	VAL
21	AV	181	GLU
21	AV	185	GLU
22	A3	3	HIS
22	A3	4	LYS
22	A3	55	ARG
22	A3	73	GLY
23	AZ	28	GLY
23	AZ	31	GLY

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Mol	Chain	Res	Type
23	AZ	92	LYS
23	AZ	96	LYS
25	AX	13	ILE
25	AX	26	LEU
26	A4	36	CYS
26	A4	38	LYS
26	A4	46	GLN
26	A4	50	VAL
27	A5	48	GLU
27	A5	56	LYS
27	A5	57	VAL
28	A6	45	LYS
30	A8	30	ARG
30	A8	40	GLU
32	BE	6	THR
32	BE	13	ALA
32	BE	18	GLY
32	BE	20	GLU
32	BE	73	THR
32	BE	87	ARG
32	BE	97	TRP
32	BE	216	SER
32	BE	217	ARG
33	BF	22	TRP
33	BF	26	LYS
33	BF	34	LEU
33	BF	47	LEU
33	BF	64	VAL
33	BF	129	ALA
33	BF	164	ARG
34	BG	4	TYR
34	BG	15	GLU
34	BG	28	SER
34	BG	171	GLY
35	BH	98	THR
35	BH	128	PRO
35	BH	129	ILE
35	BH	147	ASP
36	BI	13	ASN
37	BJ	7	ALA
37	BJ	8	GLU
37	BJ	14	PRO

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Mol	Chain	Res	Type
37	BJ	17	VAL
38	BK	133	LEU
39	BL	21	PRO
39	BL	44	VAL
39	BL	100	GLY
39	BL	121	ARG
40	BM	16	LEU
40	BM	36	GLY
40	BM	51	ARG
40	BM	59	SER
40	BM	75	ILE
41	BN	54	ARG
41	BN	128	ALA
42	BO	23	LYS
42	BO	27	LEU
42	BO	43	VAL
42	BO	51	ALA
42	BO	89	ARG
42	BO	91	LYS
42	BO	92	ASP
43	BP	7	VAL
43	BP	62	ASN
43	BP	86	CYS
43	BP	100	GLY
46	BS	64	ALA
46	BS	83	GLU
47	BT	33	GLY
47	BT	66	SER
47	BT	81	ARG
48	BU	22	VAL
49	BV	70	LYS
49	BV	82	GLY
50	BW	47	GLY
50	BW	61	SER
50	BW	68	LYS
50	BW	73	HIS
50	BW	95	ALA
50	BW	103	GLY
51	BX	3	LYS
32	CE	5	ILE
32	CE	18	GLY
32	CE	83	MET

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Mol	Chain	Res	Type
32	CE	84	GLU
32	CE	165	VAL
32	CE	194	PRO
32	CE	209	ARG
32	CE	216	SER
33	CF	24	ALA
33	CF	61	ALA
33	CF	66	VAL
33	CF	145	GLY
34	CG	40	PRO
34	CG	41	GLY
34	CG	51	PRO
34	CG	150	GLU
34	CG	155	LEU
34	CG	186	LEU
34	CG	200	GLU
35	CH	12	LEU
37	CJ	7	ALA
38	CK	129	VAL
38	CK	133	LEU
39	CL	109	VAL
40	CM	30	SER
40	CM	36	GLY
41	CN	91	ARG
42	CO	43	VAL
42	CO	116	SER
42	CO	117	ARG
42	CO	121	GLY
43	CP	6	GLY
43	CP	106	ASN
44	CQ	29	ARG
44	CQ	52	GLN
45	CR	77	ARG
45	CR	80	ALA
46	CS	69	THR
46	CS	83	GLU
47	CT	14	LYS
48	CU	20	ALA
48	CU	37	VAL
49	CV	6	LYS
49	CV	9	VAL
49	CV	26	GLY

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Mol	Chain	Res	Type
49	CV	39	THR
49	CV	41	VAL
49	CV	88	LYS
50	CW	11	SER
50	CW	96	GLY
50	CW	102	GLY
50	CW	103	GLY
51	CX	3	LYS
51	CX	9	ARG
3	DD	144	ALA
3	DD	239	ARG
3	DD	257	LEU
4	DE	4	ILE
4	DE	29	GLY
4	DE	50	GLY
4	DE	71	GLY
4	DE	78	LEU
4	DE	89	ASP
4	DE	92	THR
4	DE	185	LYS
4	DE	189	PRO
5	DF	67	GLN
5	DF	132	VAL
5	DF	181	LEU
6	DG	4	ASP
6	DG	5	VAL
6	DG	24	GLY
6	DG	97	ASP
6	DG	110	ALA
6	DG	124	SER
6	DG	137	GLU
6	DG	150	ASP
7	DH	3	ARG
7	DH	21	PRO
7	DH	87	LEU
7	DH	90	LYS
7	DH	128	PRO
7	DH	151	ILE
56	DI	9	LYS
56	DI	19	GLU
56	DI	25	ASP
8	DK	9	LEU

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Mol	Chain	Res	Type
8	DK	36	ALA
8	DK	102	SER
8	DK	104	GLN
8	DK	131	LYS
57	DY	5	ARG
57	DY	7	VAL
57	DY	16	ASN
57	DY	19	ARG
57	DY	27	VAL
57	DY	31	GLY
57	DY	34	ALA
57	DY	48	GLY
57	DY	49	ALA
57	DY	69	PRO
57	DY	72	ASP
57	DY	73	GLY
57	DY	80	VAL
57	DY	87	VAL
57	DY	89	ALA
57	DY	95	GLN
57	DY	103	GLY
57	DY	107	VAL
57	DY	138	LEU
57	DY	140	GLY
57	DY	141	VAL
57	DY	144	ALA
58	DL	17	ALA
58	DL	41	PHE
58	DL	61	ALA
58	DL	65	PHE
58	DL	77	LEU
58	DL	88	ALA
58	DL	110	GLN
58	DL	133	SER
58	DL	135	GLY
58	DL	144	VAL
58	DL	145	LYS
56	DJ	12	LEU
56	DJ	13	SER
56	DJ	16	THR
9	DM	23	LEU
9	DM	36	GLY

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Mol	Chain	Res	Type
10	DN	5	GLN
11	DO	12	ALA
11	DO	29	LYS
11	DO	65	ARG
11	DO	120	ALA
11	DO	125	VAL
11	DO	141	ALA
11	DO	148	LEU
12	DP	59	ARG
12	DP	62	GLY
12	DP	89	ASN
12	DP	99	PRO
12	DP	105	GLU
13	D0	82	GLU
13	D0	86	ARG
14	DQ	4	LEU
14	DQ	12	PHE
14	DQ	57	LYS
14	DQ	96	GLY
14	DQ	109	GLY
15	DR	20	PRO
17	D2	48	GLY
17	D2	50	PRO
17	D2	53	GLU
18	DS	66	GLU
20	DU	41	GLY
20	DU	47	LYS
20	DU	58	GLY
20	DU	91	GLU
20	DU	98	VAL
20	DU	102	CYS
21	DV	31	ARG
21	DV	60	GLU
21	DV	64	GLY
21	DV	93	ASP
21	DV	110	GLY
21	DV	136	PHE
21	DV	178	GLU
21	DV	181	GLU
21	DV	182	LYS
21	DV	188	ALA
22	D3	84	LEU

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Mol	Chain	Res	Type
23	DZ	78	LYS
23	DZ	79	GLY
23	DZ	82	LEU
23	DZ	84	GLY
23	DZ	91	LYS
24	DW	15	LYS
24	DW	42	GLY
25	DX	13	ILE
25	DX	39	ASP
26	D4	8	LYS
26	D4	18	CYS
26	D4	43	TYR
26	D4	66	SER
27	D5	45	VAL
27	D5	58	LEU
28	D6	33	LYS
28	D6	34	LEU
28	D6	35	GLU
28	D6	44	ARG
30	D8	49	VAL
30	D8	64	TYR
3	AD	159	ALA
3	AD	239	ARG
3	AD	263	ARG
4	AE	8	LYS
4	AE	15	PHE
4	AE	17	ASP
4	AE	29	GLY
4	AE	45	THR
4	AE	66	HIS
5	AF	126	VAL
6	AG	81	LYS
6	AG	97	ASP
6	AG	126	ASP
6	AG	155	MET
7	AH	8	PRO
7	AH	10	PRO
7	AH	16	SER
7	AH	21	PRO
7	AH	160	LYS
7	AH	162	ILE
8	AK	59	ALA

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Mol	Chain	Res	Type
8	AK	83	ALA
8	AK	89	TYR
9	AM	67	LEU
9	AM	127	ASP
10	AN	12	ASP
10	AN	120	GLU
11	AO	42	SER
11	AO	63	PRO
12	AP	4	PRO
12	AP	21	THR
12	AP	67	ARG
12	AP	104	PHE
13	A0	3	HIS
13	A0	88	ARG
14	AQ	61	ASN
15	AR	103	ARG
15	AR	116	ALA
16	A1	32	PHE
17	A2	2	PHE
17	A2	37	VAL
17	A2	50	PRO
17	A2	98	GLU
18	AS	32	ALA
18	AS	56	ALA
19	AT	22	ALA
19	AT	60	ARG
21	AV	7	ALA
21	AV	66	SER
21	AV	124	ILE
21	AV	136	PHE
21	AV	158	PRO
22	A3	82	ARG
23	AZ	88	LYS
25	AX	27	GLY
26	A4	25	TYR
26	A4	52	THR
26	A4	57	GLU
26	A4	65	ASP
27	A5	52	TYR
27	A5	55	ARG
28	A6	14	THR
28	A6	15	GLU

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Mol	Chain	Res	Type
28	A6	49	HIS
32	BE	98	LEU
32	BE	101	MET
32	BE	153	ARG
32	BE	154	LEU
32	BE	161	ALA
33	BF	20	SER
33	BF	100	ALA
33	BF	156	ARG
33	BF	168	ALA
33	BF	179	ARG
34	BG	25	ARG
34	BG	161	ASN
34	BG	182	LYS
34	BG	200	GLU
35	BH	104	ALA
36	BI	44	GLY
37	BJ	121	ALA
38	BK	104	ARG
38	BK	108	GLY
39	BL	54	ASP
41	BN	117	ASN
42	BO	29	GLY
42	BO	42	THR
42	BO	45	PRO
42	BO	90	VAL
43	BP	27	LYS
43	BP	84	ILE
43	BP	106	ASN
45	BR	24	SER
45	BR	88	ARG
46	BS	43	LYS
46	BS	53	VAL
46	BS	81	ARG
47	BT	12	SER
47	BT	74	LEU
47	BT	94	ASN
48	BU	31	LEU
48	BU	37	VAL
48	BU	59	SER
49	BV	81	ARG
50	BW	105	SER

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Mol	Chain	Res	Type
32	CE	75	LYS
32	CE	129	GLU
32	CE	155	LEU
32	CE	207	ALA
32	CE	217	ARG
32	CE	229	VAL
33	CF	45	LYS
33	CF	107	GLN
33	CF	117	ALA
33	CF	188	LEU
34	CG	48	ALA
34	CG	73	ARG
34	CG	79	PHE
34	CG	143	GLY
34	CG	164	ALA
34	CG	181	MET
36	CI	40	VAL
36	CI	43	LEU
36	CI	54	LYS
36	CI	70	ASP
36	CI	84	ASN
37	CJ	14	PRO
37	CJ	55	GLY
37	CJ	59	LEU
40	CM	27	ALA
40	CM	59	SER
42	CO	23	LYS
42	CO	115	LYS
43	CP	14	ARG
43	CP	30	ALA
43	CP	59	TYR
43	CP	100	GLY
43	CP	107	ALA
43	CP	124	PRO
44	CQ	44	LEU
45	CR	76	GLU
46	CS	48	TRP
46	CS	76	GLN
47	CT	30	PRO
48	CU	23	LYS
48	CU	54	ARG
48	CU	87	ARG

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Mol	Chain	Res	Type
50	CW	99	LEU
3	DD	26	LYS
3	DD	30	GLU
3	DD	111	LEU
3	DD	224	ALA
4	DE	7	VAL
4	DE	8	LYS
4	DE	53	PRO
4	DE	66	HIS
4	DE	204	ALA
6	DG	48	GLU
6	DG	113	ARG
6	DG	115	ARG
6	DG	143	GLU
7	DH	168	PRO
56	DI	5	ILE
56	DI	18	LEU
56	DI	27	LEU
8	DK	39	ALA
8	DK	87	LYS
8	DK	98	ALA
8	DK	100	ALA
8	DK	109	ILE
8	DK	110	ASP
57	DY	20	ALA
57	DY	45	LYS
57	DY	70	GLU
57	DY	77	PRO
58	DL	16	LYS
58	DL	21	PRO
58	DL	28	GLY
58	DL	40	ALA
58	DL	51	ALA
58	DL	73	PRO
58	DL	101	TRP
58	DL	111	LYS
58	DL	125	ARG
58	DL	138	VAL
9	DM	76	SER
9	DM	114	ARG
9	DM	127	ASP
10	DN	112	MET

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Mol	Chain	Res	Type
11	DO	62	LEU
11	DO	66	GLY
12	DP	6	ARG
12	DP	27	VAL
12	DP	53	ALA
12	DP	91	GLU
12	DP	104	PHE
13	D0	45	ARG
13	D0	59	ASP
13	D0	88	ARG
14	DQ	20	ARG
15	DR	39	ARG
15	DR	55	ASN
15	DR	108	ARG
15	DR	116	ALA
15	DR	134	GLU
16	D1	115	ALA
17	D2	54	GLY
18	DS	80	PRO
20	DU	48	ALA
20	DU	92	ASN
21	DV	13	GLU
21	DV	34	ASN
21	DV	51	ALA
21	DV	171	ILE
22	D3	10	THR
22	D3	15	ASP
25	DX	52	HIS
26	D4	19	GLY
26	D4	23	GLU
26	D4	42	PHE
27	D5	36	CYS
27	D5	55	ARG
30	D8	6	THR
30	D8	29	LYS
30	D8	34	TRP
30	D8	63	PRO
3	AD	64	ILE
4	AE	49	LEU
4	AE	52	LEU
4	AE	68	ALA
4	AE	179	GLU

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Mol	Chain	Res	Type
5	AF	86	GLY
5	AF	133	ASN
6	AG	85	GLY
7	AH	13	LYS
7	AH	80	SER
7	AH	102	ALA
8	AK	58	LEU
8	AK	85	GLU
9	AM	23	LEU
11	AO	4	SER
11	AO	21	ARG
11	AO	48	PRO
11	AO	104	GLY
11	AO	106	LEU
12	AP	6	ARG
12	AP	29	PHE
12	AP	31	ASP
14	AQ	97	ARG
16	A1	92	ARG
16	A1	93	LYS
16	A1	102	GLU
17	A2	87	HIS
19	AT	67	GLY
20	AU	9	LYS
20	AU	43	ASN
20	AU	91	GLU
22	A3	67	VAL
23	AZ	97	LEU
26	A4	7	PRO
26	A4	37	SER
28	A6	13	CYS
28	A6	24	GLU
32	BE	5	ILE
32	BE	19	HIS
32	BE	26	PRO
32	BE	130	ARG
32	BE	150	SER
32	BE	177	ALA
32	BE	190	THR
33	BF	82	GLU
33	BF	107	GLN
34	BG	3	ARG

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Mol	Chain	Res	Type
34	BG	56	VAL
34	BG	89	THR
34	BG	110	PHE
34	BG	181	MET
35	BH	21	ALA
35	BH	112	LEU
36	BI	12	PRO
36	BI	43	LEU
37	BJ	97	GLN
37	BJ	116	ALA
37	BJ	150	ALA
38	BK	2	LEU
38	BK	76	PRO
39	BL	111	ARG
40	BM	70	ARG
40	BM	99	LYS
41	BN	62	GLN
41	BN	89	ALA
41	BN	93	GLN
42	BO	61	THR
42	BO	123	LYS
43	BP	5	ALA
43	BP	42	ALA
43	BP	79	LYS
44	BQ	15	LYS
47	BT	68	ARG
48	BU	82	THR
50	BW	10	LEU
50	BW	25	ARG
32	CE	26	PRO
32	CE	78	GLN
32	CE	139	LYS
32	CE	225	ALA
32	CE	238	LEU
33	CF	4	LYS
33	CF	47	LEU
33	CF	81	GLY
33	CF	125	GLU
34	CG	27	TYR
34	CG	189	PRO
35	CH	128	PRO
39	CL	11	LYS

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Mol	Chain	Res	Type
39	CL	44	VAL
39	CL	54	ASP
39	CL	117	HIS
41	CN	103	LEU
43	CP	21	TYR
43	CP	45	VAL
43	CP	49	THR
43	CP	68	GLY
44	CQ	22	THR
45	CR	23	GLY
47	CT	34	LYS
49	CV	4	SER
49	CV	78	ARG
3	DD	3	VAL
3	DD	46	GLN
4	DE	57	LYS
4	DE	82	ARG
4	DE	86	PRO
4	DE	90	THR
5	DF	25	PRO
5	DF	47	GLY
5	DF	130	ALA
6	DG	36	LYS
6	DG	86	MET
6	DG	116	ASP
6	DG	181	ARG
7	DH	81	GLU
7	DH	152	ARG
56	DI	16	THR
56	DI	28	LYS
8	DK	10	GLU
8	DK	12	LEU
8	DK	18	VAL
8	DK	113	ARG
8	DK	118	LYS
8	DK	133	HIS
57	DY	24	PHE
57	DY	98	LYS
57	DY	101	PRO
58	DL	59	ILE
58	DL	117	THR
58	DL	142	PRO

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Mol	Chain	Res	Type
56	DJ	14	GLN
9	DM	135	PRO
11	DO	35	HIS
11	DO	90	ARG
11	DO	93	GLY
11	DO	95	VAL
11	DO	136	GLU
11	DO	147	LEU
12	DP	18	LYS
13	D0	42	LYS
13	D0	117	VAL
14	DQ	75	GLU
14	DQ	97	ARG
14	DQ	110	LEU
15	DR	36	GLU
15	DR	57	PHE
16	D1	24	TYR
16	D1	92	ARG
17	D2	36	PRO
18	DS	65	LEU
19	DT	91	ALA
20	DU	39	VAL
21	DV	6	LYS
21	DV	53	ILE
21	DV	114	GLY
21	DV	158	PRO
21	DV	164	ALA
21	DV	195	GLU
23	DZ	64	ALA
23	DZ	97	LEU
26	D4	24	THR
27	D5	42	PRO
27	D5	59	GLU
29	D7	47	ARG
3	AD	125	ILE
3	AD	127	VAL
3	AD	240	ALA
3	AD	271	ILE
4	AE	82	ARG
5	AF	124	LEU
6	AG	47	LYS
6	AG	86	MET

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Mol	Chain	Res	Type
6	AG	124	SER
6	AG	136	ARG
6	AG	176	LEU
6	AG	181	ARG
7	AH	17	VAL
7	AH	49	VAL
7	AH	99	VAL
7	AH	137	ASP
8	AK	50	ARG
8	AK	136	VAL
9	AM	3	THR
10	AN	68	GLU
11	AO	7	ARG
11	AO	43	GLY
12	AP	7	MET
12	AP	24	GLY
13	A0	107	ASP
14	AQ	51	ALA
14	AQ	62	LYS
14	AQ	90	GLY
14	AQ	94	TYR
15	AR	57	PHE
17	A2	62	LEU
17	A2	99	ILE
19	AT	51	VAL
19	AT	61	GLY
20	AU	58	GLY
21	AV	42	VAL
21	AV	95	PRO
21	AV	121	HIS
21	AV	163	LEU
21	AV	170	THR
23	AZ	87	PRO
26	A4	15	ILE
28	A6	35	GLU
28	A6	36	LEU
28	A6	51	GLU
28	A6	52	VAL
32	BE	52	GLU
33	BF	15	THR
33	BF	66	VAL
34	BG	31	CYS

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Mol	Chain	Res	Type
34	BG	160	GLN
35	BH	105	VAL
37	BJ	51	GLN
37	BJ	111	ARG
37	BJ	117	ALA
37	BJ	154	TYR
38	BK	14	ARG
39	BL	66	ARG
40	BM	54	PHE
41	BN	65	ALA
42	BO	26	ALA
43	BP	67	GLU
44	BQ	19	ARG
44	BQ	52	GLN
46	BS	57	ARG
49	BV	10	PHE
49	BV	72	GLY
32	CE	8	LYS
32	CE	13	ALA
32	CE	67	THR
32	CE	87	ARG
32	CE	101	MET
33	CF	84	ILE
34	CG	20	TYR
35	CH	52	PRO
35	CH	129	ILE
37	CJ	17	VAL
39	CL	21	PRO
39	CL	56	LEU
42	CO	12	ARG
42	CO	28	LYS
42	CO	51	ALA
42	CO	123	LYS
43	CP	3	ARG
43	CP	70	LEU
43	CP	121	LYS
44	CQ	12	ARG
46	CS	41	PRO
3	DD	45	ASN
3	DD	159	ALA
4	DE	33	VAL
4	DE	46	ALA

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Mol	Chain	Res	Type
5	DF	8	GLN
6	DG	3	LEU
6	DG	6	ALA
6	DG	117	PHE
7	DH	110	SER
8	DK	33	ARG
8	DK	145	VAL
57	DY	68	LEU
58	DL	99	ILE
58	DL	105	LEU
9	DM	40	PRO
10	DN	117	LEU
11	DO	109	GLY
12	DP	11	LYS
12	DP	67	ARG
13	D0	14	SER
13	D0	75	LEU
14	DQ	21	THR
15	DR	4	GLY
16	D1	9	VAL
17	D2	30	GLY
20	DU	55	TYR
23	DZ	92	LYS
26	D4	9	LEU
26	D4	28	LYS
27	D5	51	TYR
28	D6	24	GLU
28	D6	27	LYS
3	AD	106	ILE
4	AE	73	GLU
4	AE	135	HIS
4	AE	169	ASN
4	AE	189	PRO
5	AF	28	ILE
7	AH	39	PRO
8	AK	135	GLU
9	AM	110	GLY
11	AO	12	ALA
11	AO	107	LYS
16	A1	73	GLY
20	AU	22	GLY
20	AU	52	SER

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Mol	Chain	Res	Type
20	AU	55	TYR
21	AV	134	PRO
24	AW	67	LYS
25	AX	59	VAL
26	A4	23	GLU
26	A4	24	THR
26	A4	48	ARG
26	A4	70	GLY
28	A6	17	LYS
30	A8	38	GLY
32	BE	80	ILE
32	BE	83	MET
32	BE	106	LYS
32	BE	122	PHE
34	BG	90	GLY
40	BM	32	ALA
42	BO	75	HIS
42	BO	117	ARG
43	BP	38	GLY
47	BT	64	PRO
48	BU	23	LYS
51	BX	17	THR
32	CE	213	LEU
32	CE	236	TYR
34	CG	32	ALA
39	CL	127	LYS
42	CO	19	ARG
45	CR	16	ALA
50	CW	84	LEU
50	CW	97	ALA
3	DD	169	GLU
4	DE	39	PRO
4	DE	47	VAL
6	DG	82	LEU
6	DG	84	LYS
6	DG	85	GLY
6	DG	112	PRO
7	DH	55	PRO
7	DH	111	HIS
56	DI	4	ASP
8	DK	82	ARG
9	DM	97	ARG

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Mol	Chain	Res	Type
11	DO	7	ARG
11	DO	71	VAL
21	DV	105	VAL
21	DV	115	GLY
21	DV	141	VAL
21	DV	173	ALA
28	D6	30	THR
5	AF	14	PRO
7	AH	142	GLY
8	AK	109	ILE
9	AM	77	GLY
11	AO	71	VAL
20	AU	61	ILE
28	A6	48	VAL
33	BF	116	VAL
34	BG	5	ILE
35	BH	51	VAL
35	BH	59	GLY
40	BM	74	ILE
41	BN	90	GLY
45	BR	86	GLY
38	CK	83	ILE
39	CL	81	ILE
40	CM	91	PRO
49	CV	31	ILE
4	DE	190	GLY
57	DY	105	PRO
57	DY	139	VAL
9	DM	6	PRO
20	DU	3	VAL
21	DV	111	VAL
21	DV	193	GLU
5	AF	30	PRO
7	AH	151	ILE
11	AO	8	PRO
12	AP	47	ILE
17	A2	30	GLY
20	AU	7	VAL
25	AX	43	ILE
34	BG	124	GLY
35	BH	39	GLY
32	CE	80	ILE

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Mol	Chain	Res	Type
38	CK	73	ASP
47	CT	33	GLY
48	CU	22	VAL
48	CU	39	VAL
4	DE	55	ASN
4	DE	130	GLY
5	DF	30	PRO
7	DH	7	LEU
20	DU	56	PRO
20	DU	96	ILE
21	DV	94	GLU
5	AF	114	VAL
17	A2	36	PRO
20	AU	53	PRO
50	BW	97	ALA
33	CF	96	GLY
34	CG	105	VAL
37	CJ	19	GLY
45	CR	18	PHE
50	CW	63	ILE
50	CW	88	VAL
4	DE	93	VAL
9	DM	111	PRO
11	DO	47	ASP
22	D3	8	GLY
4	AE	173	VAL
7	AH	79	VAL
12	AP	52	VAL
17	A2	29	PRO
19	AT	24	GLY
21	AV	165	VAL
23	AZ	36	GLY
34	BG	178	VAL
38	BK	53	VAL
40	BM	93	GLY
36	CI	37	VAL
40	CM	37	PRO
4	DE	75	VAL
58	DL	55	VAL
58	DL	78	ILE
56	DJ	24	ILE
12	DP	81	VAL

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Mol	Chain	Res	Type
12	DP	109	VAL
14	DQ	82	ILE
17	D2	28	GLU
20	DU	52	SER
27	D5	57	VAL
13	A0	106	GLY
33	BF	41	GLY
9	AM	126	PRO
58	DL	13	PRO
4	AE	147	PRO
8	AK	132	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain 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 sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	AD	214/218 (98%)	182 (85%)	32 (15%)	3	15
3	DD	214/218 (98%)	181 (85%)	33 (15%)	3	14
4	AE	165/166 (99%)	146 (88%)	19 (12%)	7	27
4	DE	165/166 (99%)	128 (78%)	37 (22%)	1	4
5	AF	165/166 (99%)	151 (92%)	14 (8%)	13	45
5	DF	161/166 (97%)	136 (84%)	25 (16%)	3	14
6	AG	155/156 (99%)	138 (89%)	17 (11%)	8	30
6	DG	155/156 (99%)	134 (86%)	21 (14%)	5	20
7	AH	142/148 (96%)	130 (92%)	12 (8%)	13	45
7	DH	142/148 (96%)	117 (82%)	25 (18%)	2	10
8	AK	122/124 (98%)	105 (86%)	17 (14%)	4	19
8	DK	122/124 (98%)	92 (75%)	30 (25%)	1	3
9	AM	117/119 (98%)	100 (86%)	17 (14%)	4	16
9	DM	117/119 (98%)	102 (87%)	15 (13%)	5	21
10	AN	100/100 (100%)	83 (83%)	17 (17%)	2	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
10	DN	100/100 (100%)	84 (84%)	16 (16%)	3	13
11	AO	116/116 (100%)	91 (78%)	25 (22%)	1	5
11	DO	116/116 (100%)	84 (72%)	32 (28%)	0	1
12	AP	111/111 (100%)	91 (82%)	20 (18%)	2	10
12	DP	111/111 (100%)	97 (87%)	14 (13%)	5	22
13	A0	100/101 (99%)	88 (88%)	12 (12%)	6	24
13	D0	101/101 (100%)	83 (82%)	18 (18%)	2	10
14	AQ	87/88 (99%)	76 (87%)	11 (13%)	5	22
14	DQ	87/88 (99%)	74 (85%)	13 (15%)	4	15
15	AR	120/127 (94%)	98 (82%)	22 (18%)	2	9
15	DR	120/127 (94%)	96 (80%)	24 (20%)	1	7
16	A1	93/94 (99%)	82 (88%)	11 (12%)	6	25
16	D1	93/94 (99%)	77 (83%)	16 (17%)	2	11
17	A2	82/82 (100%)	72 (88%)	10 (12%)	6	24
17	D2	82/82 (100%)	64 (78%)	18 (22%)	1	5
18	AS	92/92 (100%)	80 (87%)	12 (13%)	5	21
18	DS	92/92 (100%)	79 (86%)	13 (14%)	4	18
19	AT	74/78 (95%)	67 (90%)	7 (10%)	11	38
19	DT	74/78 (95%)	66 (89%)	8 (11%)	8	30
20	AU	85/91 (93%)	61 (72%)	24 (28%)	0	1
20	DU	85/91 (93%)	66 (78%)	19 (22%)	1	4
21	AV	164/179 (92%)	130 (79%)	34 (21%)	1	6
21	DV	173/179 (97%)	131 (76%)	42 (24%)	1	3
22	A3	66/67 (98%)	59 (89%)	7 (11%)	8	31
22	D3	66/67 (98%)	59 (89%)	7 (11%)	8	31
23	AZ	82/83 (99%)	70 (85%)	12 (15%)	4	16
23	DZ	82/83 (99%)	71 (87%)	11 (13%)	5	20
24	AW	64/67 (96%)	58 (91%)	6 (9%)	11	39
24	DW	64/67 (96%)	53 (83%)	11 (17%)	2	11
25	AX	51/52 (98%)	42 (82%)	9 (18%)	2	10
25	DX	51/52 (98%)	48 (94%)	3 (6%)	24	60

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
26	A4	63/63 (100%)	45 (71%)	18 (29%)	0	1
26	D4	63/63 (100%)	49 (78%)	14 (22%)	1	5
27	A5	51/52 (98%)	45 (88%)	6 (12%)	6	25
27	D5	51/52 (98%)	36 (71%)	15 (29%)	0	1
28	A6	44/52 (85%)	31 (70%)	13 (30%)	0	1
28	D6	44/52 (85%)	28 (64%)	16 (36%)	0	0
29	A7	42/42 (100%)	34 (81%)	8 (19%)	2	8
29	D7	42/42 (100%)	38 (90%)	4 (10%)	11	38
30	A8	54/55 (98%)	43 (80%)	11 (20%)	1	6
30	D8	54/55 (98%)	39 (72%)	15 (28%)	0	1
32	BE	205/220 (93%)	187 (91%)	18 (9%)	12	43
32	CE	205/220 (93%)	183 (89%)	22 (11%)	8	31
33	BF	160/188 (85%)	140 (88%)	20 (12%)	6	22
33	CF	159/188 (85%)	146 (92%)	13 (8%)	14	47
34	BG	180/181 (99%)	155 (86%)	25 (14%)	4	19
34	CG	180/181 (99%)	160 (89%)	20 (11%)	8	29
35	BH	116/123 (94%)	103 (89%)	13 (11%)	7	29
35	CH	116/123 (94%)	101 (87%)	15 (13%)	5	21
36	BI	90/90 (100%)	81 (90%)	9 (10%)	9	34
36	CI	90/90 (100%)	85 (94%)	5 (6%)	26	62
37	BJ	126/127 (99%)	114 (90%)	12 (10%)	11	38
37	CJ	126/127 (99%)	118 (94%)	8 (6%)	22	58
38	BK	119/119 (100%)	112 (94%)	7 (6%)	24	60
38	CK	119/119 (100%)	110 (92%)	9 (8%)	16	51
39	BL	98/99 (99%)	86 (88%)	12 (12%)	6	24
39	CL	98/99 (99%)	84 (86%)	14 (14%)	4	17
40	BM	89/92 (97%)	79 (89%)	10 (11%)	7	29
40	CM	89/92 (97%)	80 (90%)	9 (10%)	9	33
41	BN	90/99 (91%)	85 (94%)	5 (6%)	26	62
41	CN	90/99 (91%)	88 (98%)	2 (2%)	60	85
42	BO	104/109 (95%)	91 (88%)	13 (12%)	6	22

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
42	CO	104/109 (95%)	93 (89%)	11 (11%)	8	31
43	BP	97/101 (96%)	86 (89%)	11 (11%)	7	28
43	CP	100/101 (99%)	82 (82%)	18 (18%)	2	10
44	BQ	49/50 (98%)	42 (86%)	7 (14%)	4	17
44	CQ	49/50 (98%)	43 (88%)	6 (12%)	6	24
45	BR	79/80 (99%)	73 (92%)	6 (8%)	16	51
45	CR	79/80 (99%)	72 (91%)	7 (9%)	12	42
46	BS	72/74 (97%)	66 (92%)	6 (8%)	14	46
46	CS	72/74 (97%)	61 (85%)	11 (15%)	3	14
47	BT	95/97 (98%)	91 (96%)	4 (4%)	36	73
47	CT	95/97 (98%)	89 (94%)	6 (6%)	22	58
48	BU	63/77 (82%)	51 (81%)	12 (19%)	2	8
48	CU	63/77 (82%)	51 (81%)	12 (19%)	2	8
49	BV	72/80 (90%)	59 (82%)	13 (18%)	2	9
49	CV	75/80 (94%)	53 (71%)	22 (29%)	0	1
50	BW	76/82 (93%)	65 (86%)	11 (14%)	4	16
50	CW	76/82 (93%)	69 (91%)	7 (9%)	11	40
51	BX	20/22 (91%)	17 (85%)	3 (15%)	3	15
51	CX	20/22 (91%)	19 (95%)	1 (5%)	30	67
56	DI	26/90 (29%)	15 (58%)	11 (42%)	0	0
56	DJ	26/90 (29%)	14 (54%)	12 (46%)	0	0
57	DY	117/135 (87%)	47 (40%)	70 (60%)	0	0
58	DL	109/111 (98%)	52 (48%)	57 (52%)	0	0
All	All	9931/10424 (95%)	8408 (85%)	1523 (15%)	3	14

All (1523) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	AD	10	THR
3	AD	21	PHE
3	AD	24	ILE
3	AD	48	ARG
3	AD	49	ILE
3	AD	61	LEU

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Mol	Chain	Res	Type
3	AD	64	ILE
3	AD	65	ILE
3	AD	70	TRP
3	AD	73	VAL
3	AD	94	LEU
3	AD	95	LEU
3	AD	105	ILE
3	AD	106	ILE
3	AD	131	LEU
3	AD	138	VAL
3	AD	147	LEU
3	AD	150	LYS
3	AD	157	ARG
3	AD	161	THR
3	AD	166	GLN
3	AD	168	ARG
3	AD	192	THR
3	AD	198	ASN
3	AD	211	ARG
3	AD	237	GLU
3	AD	242	ARG
3	AD	244	ARG
3	AD	255	LYS
3	AD	260	ARG
3	AD	268	ARG
3	AD	271	ILE
4	AE	4	ILE
4	AE	5	LEU
4	AE	37	ARG
4	AE	49	LEU
4	AE	59	VAL
4	AE	78	LEU
4	AE	79	ARG
4	AE	107	THR
4	AE	119	ARG
4	AE	132	HIS
4	AE	134	ILE
4	AE	144	ARG
4	AE	154	LYS
4	AE	167	VAL
4	AE	178	GLU
4	AE	197	ILE

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Mol	Chain	Res	Type
4	AE	200	GLU
4	AE	202	LYS
4	AE	203	LYS
5	AF	7	TYR
5	AF	17	ARG
5	AF	40	GLN
5	AF	48	THR
5	AF	52	LYS
5	AF	65	TRP
5	AF	66	PRO
5	AF	68	LYS
5	AF	70	THR
5	AF	74	ARG
5	AF	88	VAL
5	AF	96	ASP
5	AF	125	LEU
5	AF	165	ARG
6	AG	7	LEU
6	AG	16	ARG
6	AG	67	LYS
6	AG	80	PHE
6	AG	88	ILE
6	AG	91	ARG
6	AG	95	ARG
6	AG	101	ILE
6	AG	115	ARG
6	AG	118	ARG
6	AG	121	ASN
6	AG	123	ASN
6	AG	135	LEU
6	AG	139	LEU
6	AG	156	ASP
6	AG	159	VAL
6	AG	174	GLU
7	AH	4	ILE
7	AH	6	ARG
7	AH	13	LYS
7	AH	32	GLU
7	AH	54	ARG
7	AH	81	GLU
7	AH	85	LYS
7	AH	89	ILE

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Mol	Chain	Res	Type
7	AH	105	LEU
7	AH	116	GLU
7	AH	143	GLN
7	AH	163	TYR
8	AK	1	MET
8	AK	5	LEU
8	AK	14	ASP
8	AK	48	GLU
8	AK	52	ARG
8	AK	54	GLN
8	AK	56	LYS
8	AK	62	LYS
8	AK	82	ARG
8	AK	99	GLU
8	AK	102	SER
8	AK	109	ILE
8	AK	117	GLU
8	AK	126	TYR
8	AK	130	TYR
8	AK	133	HIS
8	AK	135	GLU
9	AM	1	MET
9	AM	7	LYS
9	AM	32	THR
9	AM	42	TRP
9	AM	45	ASN
9	AM	48	MET
9	AM	50	ASP
9	AM	71	ILE
9	AM	87	LEU
9	AM	96	GLU
9	AM	99	LEU
9	AM	111	PRO
9	AM	112	LEU
9	AM	127	ASP
9	AM	131	GLN
9	AM	137	LYS
9	AM	138	LEU
10	AN	7	TYR
10	AN	8	LEU
10	AN	9	GLU
10	AN	24	VAL

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Mol	Chain	Res	Type
10	AN	29	ASN
10	AN	32	TYR
10	AN	38	VAL
10	AN	48	PRO
10	AN	49	ARG
10	AN	66	LYS
10	AN	69	ILE
10	AN	73	ASP
10	AN	78	ARG
10	AN	80	ASP
10	AN	97	ARG
10	AN	99	PHE
10	AN	104	ARG
11	AO	10	PRO
11	AO	21	ARG
11	AO	27	HIS
11	AO	32	THR
11	AO	36	LYS
11	AO	52	GLU
11	AO	55	ARG
11	AO	59	LEU
11	AO	62	LEU
11	AO	65	ARG
11	AO	67	MET
11	AO	75	ILE
11	AO	81	GLN
11	AO	85	LEU
11	AO	91	PHE
11	AO	98	GLU
11	AO	110	TYR
11	AO	112	LEU
11	AO	115	LEU
11	AO	117	GLU
11	AO	136	GLU
11	AO	138	LEU
11	AO	144	GLU
11	AO	147	LEU
11	AO	148	LEU
12	AP	3	MET
12	AP	8	LYS
12	AP	14	ARG
12	AP	16	ARG

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Mol	Chain	Res	Type
12	AP	22	LYS
12	AP	29	PHE
12	AP	38	GLU
12	AP	45	GLN
12	AP	56	ARG
12	AP	63	LYS
12	AP	82	ARG
12	AP	83	MET
12	AP	89	ASN
12	AP	103	MET
12	AP	110	THR
12	AP	113	GLN
12	AP	115	MET
12	AP	133	ARG
12	AP	139	GLU
12	AP	141	GLN
13	A0	11	ASN
13	A0	15	SER
13	A0	18	LEU
13	A0	34	ILE
13	A0	67	LEU
13	A0	71	GLN
13	A0	74	LYS
13	A0	76	VAL
13	A0	79	LEU
13	A0	89	ASP
13	A0	104	ARG
13	A0	118	GLU
14	AQ	12	PHE
14	AQ	15	ARG
14	AQ	19	LYS
14	AQ	20	ARG
14	AQ	23	ARG
14	AQ	36	TYR
14	AQ	56	LEU
14	AQ	57	LYS
14	AQ	58	LEU
14	AQ	103	GLU
14	AQ	110	LEU
15	AR	8	LYS
15	AR	9	LEU
15	AR	11	GLU

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Mol	Chain	Res	Type
15	AR	16	ARG
15	AR	27	THR
15	AR	29	ARG
15	AR	30	VAL
15	AR	35	LYS
15	AR	41	ARG
15	AR	51	ARG
15	AR	58	ASN
15	AR	59	THR
15	AR	74	ARG
15	AR	78	LEU
15	AR	93	ARG
15	AR	95	ARG
15	AR	98	LYS
15	AR	99	LEU
15	AR	103	ARG
15	AR	115	ARG
15	AR	124	ASP
15	AR	137	LYS
16	A1	5	LYS
16	A1	31	SER
16	A1	37	GLU
16	A1	52	ARG
16	A1	56	ASP
16	A1	64	ARG
16	A1	74	LEU
16	A1	78	THR
16	A1	79	PHE
16	A1	88	ILE
16	A1	98	LEU
17	A2	15	GLU
17	A2	28	GLU
17	A2	35	LEU
17	A2	44	LYS
17	A2	64	HIS
17	A2	74	LYS
17	A2	75	PHE
17	A2	80	GLN
17	A2	81	TYR
17	A2	82	ARG
18	AS	11	ARG
18	AS	14	PRO

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Mol	Chain	Res	Type
18	AS	37	ARG
18	AS	39	THR
18	AS	51	LEU
18	AS	59	VAL
18	AS	65	LEU
18	AS	70	TYR
18	AS	88	ARG
18	AS	96	ILE
18	AS	107	LEU
18	AS	113	LYS
19	AT	12	VAL
19	AT	48	LYS
19	AT	57	LEU
19	AT	63	LYS
19	AT	69	TYR
19	AT	76	ARG
19	AT	80	ILE
20	AU	3	VAL
20	AU	7	VAL
20	AU	12	THR
20	AU	20	TYR
20	AU	26	LYS
20	AU	28	LYS
20	AU	33	LYS
20	AU	43	ASN
20	AU	50	ARG
20	AU	55	TYR
20	AU	57	GLN
20	AU	60	PHE
20	AU	62	GLU
20	AU	63	LYS
20	AU	67	LEU
20	AU	71	LYS
20	AU	75	ILE
20	AU	76	CYS
20	AU	77	PRO
20	AU	85	VAL
20	AU	86	ARG
20	AU	95	LYS
20	AU	96	ILE
20	AU	97	ARG
21	AV	2	GLU

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Mol	Chain	Res	Type
21	AV	8	TYR
21	AV	14	LYS
21	AV	29	TYR
21	AV	38	TYR
21	AV	61	LEU
21	AV	63	ASP
21	AV	67	LEU
21	AV	72	ARG
21	AV	77	ASP
21	AV	81	ARG
21	AV	96	VAL
21	AV	105	VAL
21	AV	108	PRO
21	AV	112	ARG
21	AV	117	LEU
21	AV	118	GLN
21	AV	119	GLU
21	AV	122	ARG
21	AV	131	ARG
21	AV	140	ASP
21	AV	142	SER
21	AV	145	GLU
21	AV	146	ILE
21	AV	156	LYS
21	AV	157	LEU
21	AV	159	PRO
21	AV	161	VAL
21	AV	162	GLU
21	AV	163	LEU
21	AV	178	GLU
21	AV	182	LYS
21	AV	183	LEU
21	AV	186	GLU
22	A3	3	HIS
22	A3	5	LYS
22	A3	7	LEU
22	A3	25	ARG
22	A3	36	ILE
22	A3	64	ASP
22	A3	74	ARG
23	AZ	4	VAL
23	AZ	34	THR

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Mol	Chain	Res	Type
23	AZ	38	SER
23	AZ	56	GLN
23	AZ	78	LYS
23	AZ	80	LEU
23	AZ	81	LYS
23	AZ	83	GLU
23	AZ	87	PRO
23	AZ	90	ILE
23	AZ	91	LYS
23	AZ	95	LEU
24	AW	9	GLN
24	AW	48	HIS
24	AW	50	ILE
24	AW	53	LEU
24	AW	57	ILE
24	AW	62	THR
25	AX	4	LEU
25	AX	6	VAL
25	AX	8	LEU
25	AX	24	LYS
25	AX	38	GLU
25	AX	40	THR
25	AX	46	ASN
25	AX	52	HIS
25	AX	60	GLU
26	A4	1	MET
26	A4	2	LYS
26	A4	7	PRO
26	A4	8	LYS
26	A4	9	LEU
26	A4	18	CYS
26	A4	23	GLU
26	A4	33	VAL
26	A4	36	CYS
26	A4	38	LYS
26	A4	39	CYS
26	A4	47	GLN
26	A4	55	ARG
26	A4	58	ARG
26	A4	60	GLN
26	A4	62	ARG
26	A4	67	TYR

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Mol	Chain	Res	Type
26	A4	69	LYS
27	A5	3	LYS
27	A5	4	HIS
27	A5	29	THR
27	A5	49	CYS
27	A5	51	TYR
27	A5	52	TYR
28	A6	9	LEU
28	A6	17	LYS
28	A6	21	TYR
28	A6	25	LYS
28	A6	27	LYS
28	A6	29	ASN
28	A6	30	THR
28	A6	37	ARG
28	A6	39	TYR
28	A6	45	LYS
28	A6	46	HIS
28	A6	52	VAL
28	A6	53	LYS
29	A7	4	THR
29	A7	8	ASN
29	A7	9	ARG
29	A7	32	LYS
29	A7	43	THR
29	A7	47	ARG
29	A7	48	LYS
29	A7	49	ARG
30	A8	25	MET
30	A8	32	LEU
30	A8	34	TRP
30	A8	40	GLU
30	A8	41	ILE
30	A8	46	ARG
30	A8	48	PHE
30	A8	54	GLU
30	A8	56	GLU
30	A8	61	LEU
30	A8	64	TYR
32	BE	12	GLU
32	BE	19	HIS
32	BE	22	LYS

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Mol	Chain	Res	Type
32	BE	23	ARG
32	BE	56	ARG
32	BE	80	ILE
32	BE	92	TYR
32	BE	111	ARG
32	BE	113	HIS
32	BE	121	LEU
32	BE	137	ARG
32	BE	140	HIS
32	BE	145	LEU
32	BE	163	PHE
32	BE	178	ARG
32	BE	187	LEU
32	BE	224	GLN
32	BE	232	PRO
33	BF	5	ILE
33	BF	16	ARG
33	BF	17	ASP
33	BF	18	TRP
33	BF	27	LYS
33	BF	28	GLN
33	BF	29	TYR
33	BF	43	LEU
33	BF	62	ASP
33	BF	79	ARG
33	BF	82	GLU
33	BF	85	ARG
33	BF	101	LEU
33	BF	119	ARG
33	BF	127	ARG
33	BF	131	ARG
33	BF	156	ARG
33	BF	170	GLN
33	BF	193	TYR
33	BF	196	LEU
34	BG	19	LEU
34	BG	21	LEU
34	BG	24	GLU
34	BG	25	ARG
34	BG	26	CYS
34	BG	29	PRO
34	BG	30	LYS

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Mol	Chain	Res	Type
34	BG	36	ARG
34	BG	38	TYR
34	BG	58	LEU
34	BG	61	LYS
34	BG	86	LYS
34	BG	97	LEU
34	BG	107	ARG
34	BG	108	LEU
34	BG	110	PHE
34	BG	119	GLN
34	BG	122	ARG
34	BG	135	LEU
34	BG	138	TYR
34	BG	150	GLU
34	BG	155	LEU
34	BG	187	ARG
34	BG	191	ARG
34	BG	209	ARG
35	BH	5	ASP
35	BH	6	PHE
35	BH	12	LEU
35	BH	13	ILE
35	BH	20	GLN
35	BH	24	ARG
35	BH	26	PHE
35	BH	33	VAL
35	BH	72	GLN
35	BH	78	HIS
35	BH	79	GLU
35	BH	101	ILE
35	BH	126	ARG
36	BI	1	MET
36	BI	15	ASP
36	BI	28	ARG
36	BI	36	ARG
36	BI	54	LYS
36	BI	55	ASP
36	BI	78	GLU
36	BI	95	GLU
36	BI	98	LEU
37	BJ	8	GLU
37	BJ	12	LEU

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Mol	Chain	Res	Type
37	BJ	14	PRO
37	BJ	29	LYS
37	BJ	33	ASP
37	BJ	54	THR
37	BJ	57	GLU
37	BJ	64	GLN
37	BJ	84	ASN
37	BJ	136	LYS
37	BJ	137	LYS
37	BJ	151	TYR
38	BK	1	MET
38	BK	25	ASP
38	BK	30	ARG
38	BK	52	ASP
38	BK	63	LEU
38	BK	81	HIS
38	BK	104	ARG
39	BL	10	ARG
39	BL	12	GLU
39	BL	20	ARG
39	BL	75	ASP
39	BL	95	LYS
39	BL	102	LEU
39	BL	104	ARG
39	BL	112	LYS
39	BL	113	LYS
39	BL	114	TYR
39	BL	121	ARG
39	BL	125	TYR
40	BM	16	LEU
40	BM	22	LYS
40	BM	25	GLU
40	BM	47	PHE
40	BM	57	LYS
40	BM	62	HIS
40	BM	74	ILE
40	BM	79	ARG
40	BM	80	LYS
40	BM	96	ILE
41	BN	29	ILE
41	BN	30	VAL
41	BN	54	ARG

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Mol	Chain	Res	Type
41	BN	116	HIS
41	BN	120	ARG
42	BO	17	LYS
42	BO	20	LYS
42	BO	23	LYS
42	BO	27	LEU
42	BO	39	VAL
42	BO	41	ARG
42	BO	42	THR
42	BO	46	LYS
42	BO	47	LYS
42	BO	64	TYR
42	BO	65	GLU
42	BO	66	VAL
42	BO	84	LEU
43	BP	19	LEU
43	BP	64	TRP
43	BP	70	LEU
43	BP	73	GLU
43	BP	79	LYS
43	BP	80	ARG
43	BP	82	MET
43	BP	83	ASP
43	BP	86	CYS
43	BP	88	ARG
43	BP	108	ARG
44	BQ	6	LEU
44	BQ	8	GLU
44	BQ	15	LYS
44	BQ	18	VAL
44	BQ	29	ARG
44	BQ	44	LEU
44	BQ	61	TRP
45	BR	3	ILE
45	BR	10	LYS
45	BR	26	GLU
45	BR	38	ARG
45	BR	41	GLU
45	BR	82	ILE
46	BS	20	VAL
46	BS	27	LYS
46	BS	54	GLU

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Mol	Chain	Res	Type
46	BS	55	ARG
46	BS	69	THR
46	BS	72	ARG
47	BT	49	GLU
47	BT	52	LYS
47	BT	68	ARG
47	BT	74	LEU
48	BU	21	LYS
48	BU	23	LYS
48	BU	26	LEU
48	BU	31	LEU
48	BU	37	VAL
48	BU	38	GLU
48	BU	47	THR
48	BU	54	ARG
48	BU	58	LEU
48	BU	69	THR
48	BU	81	PHE
48	BU	87	ARG
49	BV	6	LYS
49	BV	20	LEU
49	BV	22	LEU
49	BV	23	ASN
49	BV	27	GLU
49	BV	29	ARG
49	BV	37	ARG
49	BV	39	THR
49	BV	41	VAL
49	BV	44	MET
49	BV	77	THR
49	BV	78	ARG
49	BV	86	GLU
50	BW	10	LEU
50	BW	24	LEU
50	BW	26	ASN
50	BW	29	LYS
50	BW	36	LEU
50	BW	50	GLU
50	BW	64	ASP
50	BW	68	LYS
50	BW	73	HIS
50	BW	83	ARG

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Mol	Chain	Res	Type
50	BW	93	GLU
51	BX	9	ARG
51	BX	15	ARG
51	BX	26	LYS
32	CE	5	ILE
32	CE	8	LYS
32	CE	15	VAL
32	CE	16	HIS
32	CE	24	TRP
32	CE	36	ARG
32	CE	67	THR
32	CE	75	LYS
32	CE	82	ARG
32	CE	96	ARG
32	CE	146	GLN
32	CE	158	LEU
32	CE	178	ARG
32	CE	187	LEU
32	CE	192	SER
32	CE	195	ASP
32	CE	196	LEU
32	CE	200	ILE
32	CE	204	ASN
32	CE	212	GLN
32	CE	215	LEU
32	CE	236	TYR
33	CF	5	ILE
33	CF	12	LEU
33	CF	16	ARG
33	CF	17	ASP
33	CF	21	ARG
33	CF	27	LYS
33	CF	29	TYR
33	CF	34	LEU
33	CF	85	ARG
33	CF	94	LEU
33	CF	165	THR
33	CF	188	LEU
33	CF	196	LEU
34	CG	3	ARG
34	CG	7	PRO
34	CG	10	ARG

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Mol	Chain	Res	Type
34	CG	19	LEU
34	CG	33	MET
34	CG	79	PHE
34	CG	86	LYS
34	CG	110	PHE
34	CG	114	ARG
34	CG	122	ARG
34	CG	127	THR
34	CG	131	ARG
34	CG	135	LEU
34	CG	150	GLU
34	CG	154	ASN
34	CG	190	ASP
34	CG	193	ASP
34	CG	196	LEU
34	CG	200	GLU
34	CG	201	GLN
35	CH	6	PHE
35	CH	10	MET
35	CH	12	LEU
35	CH	16	THR
35	CH	20	GLN
35	CH	26	PHE
35	CH	41	VAL
35	CH	47	LYS
35	CH	60	TYR
35	CH	73	ASN
35	CH	79	GLU
35	CH	91	LEU
35	CH	101	ILE
35	CH	131	ILE
35	CH	153	LYS
36	CI	63	TYR
36	CI	69	GLU
36	CI	83	ASP
36	CI	98	LEU
36	CI	100	ASN
37	CJ	8	GLU
37	CJ	12	LEU
37	CJ	20	ASP
37	CJ	63	LYS
37	CJ	72	ARG

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Mol	Chain	Res	Type
37	CJ	104	LEU
37	CJ	137	LYS
37	CJ	155	ARG
38	CK	1	MET
38	CK	10	LEU
38	CK	25	ASP
38	CK	26	VAL
38	CK	41	ARG
38	CK	65	TYR
38	CK	70	GLN
38	CK	82	HIS
38	CK	105	ARG
39	CL	9	ARG
39	CL	47	LEU
39	CL	48	GLU
39	CL	66	ARG
39	CL	75	ASP
39	CL	83	ARG
39	CL	95	LYS
39	CL	102	LEU
39	CL	110	GLU
39	CL	112	LYS
39	CL	113	LYS
39	CL	114	TYR
39	CL	121	ARG
39	CL	128	ARG
40	CM	22	LYS
40	CM	45	ARG
40	CM	47	PHE
40	CM	57	LYS
40	CM	62	HIS
40	CM	74	ILE
40	CM	80	LYS
40	CM	95	GLU
40	CM	96	ILE
41	CN	29	ILE
41	CN	117	ASN
42	CO	20	LYS
42	CO	27	LEU
42	CO	41	ARG
42	CO	47	LYS
42	CO	53	ARG

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Mol	Chain	Res	Type
42	CO	60	LEU
42	CO	62	SER
42	CO	83	VAL
42	CO	85	ILE
42	CO	89	ARG
42	CO	127	GLU
43	CP	3	ARG
43	CP	11	ARG
43	CP	48	LEU
43	CP	56	LEU
43	CP	57	ARG
43	CP	64	TRP
43	CP	66	LEU
43	CP	67	GLU
43	CP	69	GLU
43	CP	70	LEU
43	CP	88	ARG
43	CP	101	GLN
43	CP	108	ARG
43	CP	114	ARG
43	CP	117	VAL
43	CP	120	LYS
43	CP	125	ARG
43	CP	126	LYS
44	CQ	12	ARG
44	CQ	14	PRO
44	CQ	24	CYS
44	CQ	41	ARG
44	CQ	44	LEU
44	CQ	50	LYS
45	CR	3	ILE
45	CR	8	LYS
45	CR	26	GLU
45	CR	39	LEU
45	CR	65	ARG
45	CR	74	ASP
45	CR	77	ARG
46	CS	1	MET
46	CS	4	ILE
46	CS	32	TYR
46	CS	48	TRP
46	CS	55	ARG

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Mol	Chain	Res	Type
46	CS	67	THR
46	CS	69	THR
46	CS	72	ARG
46	CS	75	ARG
46	CS	81	ARG
46	CS	82	GLN
47	CT	12	SER
47	CT	14	LYS
47	CT	35	VAL
47	CT	52	LYS
47	CT	59	ILE
47	CT	74	LEU
48	CU	18	ARG
48	CU	26	LEU
48	CU	29	PHE
48	CU	31	LEU
48	CU	32	ARG
48	CU	44	LEU
48	CU	46	GLU
48	CU	53	ARG
48	CU	54	ARG
48	CU	55	ARG
48	CU	84	LYS
48	CU	88	LYS
49	CV	3	ARG
49	CV	4	SER
49	CV	5	LEU
49	CV	6	LYS
49	CV	7	LYS
49	CV	10	PHE
49	CV	12	ASP
49	CV	15	LEU
49	CV	25	LYS
49	CV	28	LYS
49	CV	29	ARG
49	CV	30	LEU
49	CV	37	ARG
49	CV	41	VAL
49	CV	61	TYR
49	CV	63	THR
49	CV	65	ASN
49	CV	79	THR

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Mol	Chain	Res	Type
49	CV	81	ARG
49	CV	85	LYS
49	CV	86	GLU
49	CV	88	LYS
50	CW	9	ASN
50	CW	24	LEU
50	CW	26	ASN
50	CW	51	GLU
50	CW	75	ASN
50	CW	93	GLU
50	CW	99	LEU
51	CX	6	ARG
3	DD	10	THR
3	DD	17	THR
3	DD	20	ASP
3	DD	26	LYS
3	DD	28	GLU
3	DD	32	SER
3	DD	43	ARG
3	DD	44	ASN
3	DD	46	GLN
3	DD	49	ILE
3	DD	61	LEU
3	DD	64	ILE
3	DD	65	ILE
3	DD	71	ASP
3	DD	95	LEU
3	DD	99	ASP
3	DD	106	ILE
3	DD	131	LEU
3	DD	135	PHE
3	DD	138	VAL
3	DD	157	ARG
3	DD	166	GLN
3	DD	192	THR
3	DD	212	SER
3	DD	217	ARG
3	DD	221	VAL
3	DD	226	MET
3	DD	229	VAL
3	DD	230	ASP
3	DD	237	GLU

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Mol	Chain	Res	Type
3	DD	257	LEU
3	DD	259	THR
3	DD	261	LYS
4	DE	2	LYS
4	DE	4	ILE
4	DE	13	ARG
4	DE	14	ILE
4	DE	16	ARG
4	DE	26	ILE
4	DE	27	LEU
4	DE	37	ARG
4	DE	41	LYS
4	DE	47	VAL
4	DE	49	LEU
4	DE	52	LEU
4	DE	54	GLN
4	DE	62	PRO
4	DE	63	LEU
4	DE	67	PHE
4	DE	73	GLU
4	DE	75	VAL
4	DE	79	ARG
4	DE	82	ARG
4	DE	85	ASN
4	DE	89	ASP
4	DE	98	PRO
4	DE	101	ARG
4	DE	113	PHE
4	DE	117	MET
4	DE	119	ARG
4	DE	144	ARG
4	DE	163	GLU
4	DE	166	THR
4	DE	170	LEU
4	DE	175	VAL
4	DE	178	GLU
4	DE	179	GLU
4	DE	197	ILE
4	DE	202	LYS
4	DE	203	LYS
5	DF	6	VAL
5	DF	7	TYR

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Mol	Chain	Res	Type
5	DF	25	PRO
5	DF	33	LEU
5	DF	45	ARG
5	DF	48	THR
5	DF	60	SER
5	DF	65	TRP
5	DF	66	PRO
5	DF	67	GLN
5	DF	74	ARG
5	DF	78	ILE
5	DF	104	LYS
5	DF	117	ARG
5	DF	127	GLU
5	DF	140	LEU
5	DF	158	THR
5	DF	164	ARG
5	DF	165	ARG
5	DF	169	ASN
5	DF	181	LEU
5	DF	191	ARG
5	DF	192	LEU
5	DF	203	GLN
5	DF	206	ILE
6	DG	16	ARG
6	DG	34	LEU
6	DG	45	GLU
6	DG	49	ASP
6	DG	60	LEU
6	DG	67	LYS
6	DG	71	THR
6	DG	79	ASN
6	DG	88	ILE
6	DG	90	LEU
6	DG	95	ARG
6	DG	97	ASP
6	DG	108	ASN
6	DG	112	PRO
6	DG	115	ARG
6	DG	118	ARG
6	DG	121	ASN
6	DG	139	LEU
6	DG	147	ASP

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Mol	Chain	Res	Type
6	DG	159	VAL
6	DG	174	GLU
7	DH	3	ARG
7	DH	4	ILE
7	DH	7	LEU
7	DH	12	PRO
7	DH	32	GLU
7	DH	41	MET
7	DH	42	ARG
7	DH	50	VAL
7	DH	54	ARG
7	DH	83	TYR
7	DH	85	LYS
7	DH	86	GLU
7	DH	88	LEU
7	DH	89	ILE
7	DH	104	GLU
7	DH	105	LEU
7	DH	124	GLU
7	DH	132	ARG
7	DH	143	GLN
7	DH	152	ARG
7	DH	153	LYS
7	DH	154	PRO
7	DH	155	SER
7	DH	158	HIS
7	DH	160	LYS
56	DI	7	ARG
56	DI	8	ILE
56	DI	11	GLU
56	DI	13	SER
56	DI	17	VAL
56	DI	20	LEU
56	DI	22	GLN
56	DI	23	LEU
56	DI	24	ILE
56	DI	28	LYS
56	DI	29	GLU
8	DK	1	MET
8	DK	2	LYS
8	DK	6	LEU
8	DK	9	LEU

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Mol	Chain	Res	Type
8	DK	10	GLU
8	DK	12	LEU
8	DK	25	TYR
8	DK	28	ASN
8	DK	33	ARG
8	DK	38	LEU
8	DK	41	GLU
8	DK	57	ARG
8	DK	64	GLU
8	DK	70	GLU
8	DK	71	ILE
8	DK	74	ASN
8	DK	77	LEU
8	DK	78	THR
8	DK	85	GLU
8	DK	88	ILE
8	DK	110	ASP
8	DK	113	ARG
8	DK	114	LEU
8	DK	118	LYS
8	DK	120	ILE
8	DK	126	TYR
8	DK	131	LYS
8	DK	134	PRO
8	DK	135	GLU
8	DK	139	GLN
57	DY	1	MET
57	DY	2	PRO
57	DY	5	ARG
57	DY	9	LEU
57	DY	13	LEU
57	DY	14	LYS
57	DY	15	GLU
57	DY	17	LEU
57	DY	19	ARG
57	DY	21	GLN
57	DY	24	PHE
57	DY	25	PHE
57	DY	26	LEU
57	DY	27	VAL
57	DY	29	TYR
57	DY	32	LEU

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Mol	Chain	Res	Type
57	DY	33	PRO
57	DY	35	LYS
57	DY	36	GLU
57	DY	38	HIS
57	DY	41	ARG
57	DY	42	GLN
57	DY	45	LYS
57	DY	46	GLN
57	DY	47	ASN
57	DY	50	ARG
57	DY	52	PHE
57	DY	53	VAL
57	DY	56	ASN
57	DY	58	LEU
57	DY	59	ILE
57	DY	60	ARG
57	DY	61	LEU
57	DY	63	LEU
57	DY	64	LYS
57	DY	68	LEU
57	DY	70	GLU
57	DY	71	LEU
57	DY	72	ASP
57	DY	74	LEU
57	DY	75	GLN
57	DY	82	PHE
57	DY	86	PRO
57	DY	91	LYS
57	DY	92	THR
57	DY	93	LEU
57	DY	98	LYS
57	DY	99	SER
57	DY	100	ASN
57	DY	101	PRO
57	DY	102	LYS
57	DY	104	ILE
57	DY	108	LYS
57	DY	111	LEU
57	DY	112	LEU
57	DY	115	GLN
57	DY	116	ILE
57	DY	117	LEU

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Mol	Chain	Res	Type
57	DY	120	LYS
57	DY	122	VAL
57	DY	128	LEU
57	DY	130	THR
57	DY	131	MET
57	DY	132	ASP
57	DY	133	GLU
57	DY	134	LEU
57	DY	137	GLU
57	DY	138	LEU
57	DY	139	VAL
57	DY	142	LEU
58	DL	5	VAL
58	DL	8	VAL
58	DL	9	LYS
58	DL	10	LEU
58	DL	11	GLN
58	DL	12	LEU
58	DL	13	PRO
58	DL	18	THR
58	DL	27	LEU
58	DL	29	GLN
58	DL	30	HIS
58	DL	36	GLU
58	DL	37	PHE
58	DL	41	PHE
58	DL	45	THR
58	DL	48	MET
58	DL	52	ILE
58	DL	54	PRO
58	DL	55	VAL
58	DL	57	ILE
58	DL	58	THR
58	DL	59	ILE
58	DL	60	TYR
58	DL	63	ARG
58	DL	65	PHE
58	DL	66	THR
58	DL	70	LYS
58	DL	76	TYR
58	DL	80	LYS
58	DL	85	GLU

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Mol	Chain	Res	Type
58	DL	86	LYS
58	DL	89	HIS
58	DL	90	LYS
58	DL	95	LYS
58	DL	96	VAL
58	DL	98	ARG
58	DL	100	THR
58	DL	101	TRP
58	DL	102	GLU
58	DL	103	GLN
58	DL	106	GLU
58	DL	109	LYS
58	DL	111	LYS
58	DL	112	MET
58	DL	113	PRO
58	DL	116	ASN
58	DL	117	THR
58	DL	119	ASP
58	DL	120	LEU
58	DL	121	GLU
58	DL	126	MET
58	DL	127	ILE
58	DL	130	SER
58	DL	137	GLU
58	DL	139	VAL
58	DL	143	GLU
58	DL	146	ASP
56	DJ	1	MET
56	DJ	3	LEU
56	DJ	7	ARG
56	DJ	8	ILE
56	DJ	9	LYS
56	DJ	10	GLU
56	DJ	11	GLU
56	DJ	12	LEU
56	DJ	16	THR
56	DJ	19	GLU
56	DJ	23	LEU
56	DJ	24	ILE
9	DM	2	LYS
9	DM	7	LYS
9	DM	9	VAL

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Mol	Chain	Res	Type
9	DM	35	ARG
9	DM	45	ASN
9	DM	48	MET
9	DM	53	VAL
9	DM	60	ILE
9	DM	61	ARG
9	DM	71	ILE
9	DM	87	LEU
9	DM	90	MET
9	DM	96	GLU
9	DM	127	ASP
9	DM	131	GLN
10	DN	2	ILE
10	DN	8	LEU
10	DN	9	GLU
10	DN	19	ILE
10	DN	20	MET
10	DN	23	ARG
10	DN	24	VAL
10	DN	31	LYS
10	DN	32	TYR
10	DN	38	VAL
10	DN	49	ARG
10	DN	69	ILE
10	DN	77	ILE
10	DN	78	ARG
10	DN	94	ARG
10	DN	98	VAL
11	DO	5	ASP
11	DO	16	ARG
11	DO	19	VAL
11	DO	21	ARG
11	DO	27	HIS
11	DO	29	LYS
11	DO	30	THR
11	DO	42	SER
11	DO	45	LEU
11	DO	50	ARG
11	DO	58	THR
11	DO	59	LEU
11	DO	61	ARG
11	DO	62	LEU

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Mol	Chain	Res	Type
11	DO	64	LYS
11	DO	65	ARG
11	DO	67	MET
11	DO	68	GLN
11	DO	75	ILE
11	DO	76	LYS
11	DO	81	GLN
11	DO	88	LEU
11	DO	90	ARG
11	DO	101	VAL
11	DO	105	LEU
11	DO	106	LEU
11	DO	114	ILE
11	DO	119	GLU
11	DO	126	VAL
11	DO	135	LEU
11	DO	138	LEU
11	DO	144	GLU
12	DP	10	ARG
12	DP	21	THR
12	DP	26	TYR
12	DP	45	GLN
12	DP	55	VAL
12	DP	59	ARG
12	DP	79	LEU
12	DP	81	VAL
12	DP	82	ARG
12	DP	83	MET
12	DP	96	VAL
12	DP	99	PRO
12	DP	109	VAL
12	DP	132	VAL
13	D0	6	SER
13	D0	9	LYS
13	D0	10	LEU
13	D0	16	HIS
13	D0	18	LEU
13	D0	29	LEU
13	D0	44	LEU
13	D0	54	LEU
13	D0	56	LYS
13	D0	57	ARG

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Mol	Chain	Res	Type
13	D0	60	LEU
13	D0	71	GLN
13	D0	79	LEU
13	D0	91	GLN
13	D0	96	ARG
13	D0	104	ARG
13	D0	105	ARG
13	D0	118	GLU
14	DQ	12	PHE
14	DQ	17	ARG
14	DQ	19	LYS
14	DQ	20	ARG
14	DQ	44	LYS
14	DQ	52	SER
14	DQ	56	LEU
14	DQ	58	LEU
14	DQ	69	VAL
14	DQ	89	ARG
14	DQ	103	GLU
14	DQ	106	ARG
14	DQ	111	GLU
15	DR	11	GLU
15	DR	14	TYR
15	DR	23	ARG
15	DR	26	ASP
15	DR	27	THR
15	DR	30	VAL
15	DR	42	ILE
15	DR	58	ASN
15	DR	62	THR
15	DR	65	LYS
15	DR	74	ARG
15	DR	78	LEU
15	DR	84	GLN
15	DR	86	ILE
15	DR	88	ILE
15	DR	90	GLN
15	DR	95	ARG
15	DR	99	LEU
15	DR	105	LEU
15	DR	106	SER
15	DR	111	ARG

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Mol	Chain	Res	Type
15	DR	112	ARG
15	DR	125	ARG
15	DR	128	GLU
16	D1	5	LYS
16	D1	8	VAL
16	D1	19	LYS
16	D1	27	LEU
16	D1	31	SER
16	D1	44	ASN
16	D1	60	LEU
16	D1	74	LEU
16	D1	76	TYR
16	D1	78	THR
16	D1	83	LEU
16	D1	88	ILE
16	D1	92	ARG
16	D1	98	LEU
16	D1	108	GLU
16	D1	111	GLU
17	D2	14	VAL
17	D2	19	LYS
17	D2	21	ARG
17	D2	32	THR
17	D2	35	LEU
17	D2	36	PRO
17	D2	38	LEU
17	D2	39	LEU
17	D2	44	LYS
17	D2	49	THR
17	D2	57	VAL
17	D2	64	HIS
17	D2	66	ARG
17	D2	73	SER
17	D2	89	GLN
17	D2	91	TYR
17	D2	95	LEU
17	D2	99	ILE
18	DS	1	MET
18	DS	11	ARG
18	DS	16	LYS
18	DS	42	ARG
18	DS	65	LEU

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Mol	Chain	Res	Type
18	DS	67	ASP
18	DS	69	LEU
18	DS	70	TYR
18	DS	76	VAL
18	DS	88	ARG
18	DS	96	ILE
18	DS	99	ARG
18	DS	107	LEU
19	DT	27	THR
19	DT	28	PHE
19	DT	41	ASN
19	DT	57	LEU
19	DT	65	ARG
19	DT	76	ARG
19	DT	81	VAL
19	DT	88	LYS
20	DU	14	LEU
20	DU	19	LYS
20	DU	26	LYS
20	DU	27	VAL
20	DU	34	LYS
20	DU	45	VAL
20	DU	51	VAL
20	DU	57	GLN
20	DU	61	ILE
20	DU	71	LYS
20	DU	75	ILE
20	DU	77	PRO
20	DU	86	ARG
20	DU	87	LYS
20	DU	89	PHE
20	DU	90	LEU
20	DU	95	LYS
20	DU	97	ARG
20	DU	98	VAL
21	DV	5	LEU
21	DV	6	LYS
21	DV	11	GLU
21	DV	14	LYS
21	DV	19	ARG
21	DV	38	TYR
21	DV	53	ILE

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Mol	Chain	Res	Type
21	DV	61	LEU
21	DV	76	LEU
21	DV	77	ASP
21	DV	80	ARG
21	DV	81	ARG
21	DV	87	ASP
21	DV	93	ASP
21	DV	97	GLU
21	DV	105	VAL
21	DV	111	VAL
21	DV	112	ARG
21	DV	117	LEU
21	DV	119	GLU
21	DV	122	ARG
21	DV	141	VAL
21	DV	142	SER
21	DV	148	ASP
21	DV	150	LEU
21	DV	151	HIS
21	DV	153	SER
21	DV	154	ASP
21	DV	162	GLU
21	DV	169	GLU
21	DV	177	PRO
21	DV	179	ASP
21	DV	180	VAL
21	DV	182	LYS
21	DV	183	LEU
21	DV	185	GLU
21	DV	186	GLU
21	DV	193	GLU
21	DV	196	VAL
21	DV	197	ILE
21	DV	198	LYS
21	DV	199	LYS
22	D3	10	THR
22	D3	11	ARG
22	D3	14	ARG
22	D3	36	ILE
22	D3	41	ARG
22	D3	55	ARG
22	D3	64	ASP

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Mol	Chain	Res	Type
23	DZ	41	ARG
23	DZ	51	VAL
23	DZ	56	GLN
23	DZ	57	GLU
23	DZ	76	ARG
23	DZ	78	LYS
23	DZ	80	LEU
23	DZ	81	LYS
23	DZ	83	GLU
23	DZ	91	LYS
23	DZ	95	LEU
24	DW	5	GLU
24	DW	7	ARG
24	DW	15	LYS
24	DW	16	LEU
24	DW	22	GLU
24	DW	32	LEU
24	DW	35	LEU
24	DW	47	ASN
24	DW	52	ASP
24	DW	53	LEU
24	DW	64	LEU
25	DX	8	LEU
25	DX	17	LYS
25	DX	38	GLU
26	D4	15	ILE
26	D4	16	CYS
26	D4	23	GLU
26	D4	32	TYR
26	D4	33	VAL
26	D4	36	CYS
26	D4	38	LYS
26	D4	42	PHE
26	D4	49	PHE
26	D4	55	ARG
26	D4	59	PHE
26	D4	61	ARG
26	D4	68	ARG
26	D4	69	LYS
27	D5	3	LYS
27	D5	4	HIS
27	D5	6	VAL

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Mol	Chain	Res	Type
27	D5	25	LEU
27	D5	26	THR
27	D5	29	THR
27	D5	30	LEU
27	D5	36	CYS
27	D5	37	LYS
27	D5	40	LYS
27	D5	51	TYR
27	D5	52	TYR
27	D5	56	LYS
27	D5	57	VAL
27	D5	58	LEU
28	D6	9	LEU
28	D6	10	LEU
28	D6	11	LEU
28	D6	17	LYS
28	D6	19	ARG
28	D6	24	GLU
28	D6	27	LYS
28	D6	31	PRO
28	D6	34	LEU
28	D6	36	LEU
28	D6	37	ARG
28	D6	38	LYS
28	D6	39	TYR
28	D6	40	CYS
28	D6	42	TRP
28	D6	44	ARG
29	D7	4	THR
29	D7	8	ASN
29	D7	24	THR
29	D7	30	VAL
30	D8	8	LYS
30	D8	14	VAL
30	D8	15	LYS
30	D8	17	THR
30	D8	30	ARG
30	D8	35	GLN
30	D8	43	GLN
30	D8	44	LYS
30	D8	47	LYS
30	D8	48	PHE

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Mol	Chain	Res	Type
30	D8	49	VAL
30	D8	52	LYS
30	D8	56	GLU
30	D8	63	PRO
30	D8	65	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (317) such sidechains are listed below:

Mol	Chain	Res	Type
3	AD	44	ASN
3	AD	58	HIS
3	AD	116	GLN
3	AD	126	GLN
3	AD	166	GLN
3	AD	186	HIS
3	AD	198	ASN
3	AD	201	HIS
4	AE	48	GLN
4	AE	55	ASN
4	AE	60	ASN
4	AE	66	HIS
4	AE	192	ASN
5	AF	8	GLN
5	AF	75	HIS
5	AF	169	ASN
6	AG	26	GLN
6	AG	40	ASN
6	AG	41	GLN
6	AG	108	ASN
6	AG	121	ASN
6	AG	123	ASN
7	AH	143	GLN
7	AH	147	ASN
8	AK	43	ASN
8	AK	54	GLN
8	AK	105	HIS
9	AM	45	ASN
9	AM	94	HIS
9	AM	131	GLN
9	AM	133	GLN
10	AN	3	GLN
10	AN	5	GLN

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Mol	Chain	Res	Type
10	AN	82	ASN
11	AO	9	ASN
11	AO	84	ASN
12	AP	12	GLN
12	AP	89	ASN
12	AP	113	GLN
12	AP	141	GLN
13	A0	11	ASN
13	A0	23	ASN
13	A0	24	GLN
13	A0	61	HIS
13	A0	71	GLN
13	A0	91	GLN
15	AR	58	ASN
15	AR	90	GLN
15	AR	136	GLN
16	A1	49	HIS
16	A1	66	ASN
16	A1	72	HIS
16	A1	104	GLN
17	A2	11	GLN
17	A2	80	GLN
18	AS	34	ASN
18	AS	40	ASN
18	AS	57	ASN
18	AS	102	HIS
19	AT	41	ASN
19	AT	55	ASN
19	AT	87	GLN
20	AU	43	ASN
20	AU	57	GLN
21	AV	32	HIS
21	AV	34	ASN
21	AV	55	HIS
21	AV	75	ASN
21	AV	132	ASN
22	A3	29	GLN
22	A3	35	ASN
22	A3	40	GLN
22	A3	70	GLN
23	AZ	56	GLN
23	AZ	66	HIS

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Mol	Chain	Res	Type
24	AW	56	GLN
24	AW	65	ASN
25	AX	19	GLN
25	AX	33	GLN
25	AX	46	ASN
25	AX	52	HIS
26	A4	40	HIS
26	A4	46	GLN
26	A4	60	GLN
27	A5	23	HIS
27	A5	43	HIS
28	A6	29	ASN
28	A6	32	ASN
29	A7	8	ASN
32	BE	37	ASN
32	BE	40	HIS
32	BE	94	ASN
32	BE	135	GLN
32	BE	146	GLN
32	BE	212	GLN
33	BF	69	HIS
33	BF	98	ASN
33	BF	110	ASN
33	BF	123	GLN
33	BF	136	GLN
33	BF	162	GLN
33	BF	170	GLN
33	BF	181	ASN
34	BG	42	GLN
34	BG	45	GLN
34	BG	62	GLN
34	BG	119	GLN
34	BG	123	HIS
34	BG	160	GLN
35	BH	20	GLN
35	BH	65	ASN
35	BH	141	GLN
36	BI	7	ASN
36	BI	27	GLN
36	BI	32	ASN
36	BI	57	GLN
36	BI	73	ASN

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Mol	Chain	Res	Type
36	BI	100	ASN
37	BJ	13	GLN
37	BJ	28	ASN
37	BJ	97	GLN
37	BJ	106	GLN
38	BK	15	ASN
38	BK	82	HIS
39	BL	3	GLN
39	BL	58	HIS
39	BL	124	GLN
40	BM	56	HIS
40	BM	68	HIS
40	BM	78	ASN
40	BM	84	GLN
41	BN	38	ASN
41	BN	93	GLN
42	BO	8	ASN
42	BO	9	GLN
42	BO	49	ASN
42	BO	75	HIS
43	BP	77	ASN
43	BP	92	HIS
43	BP	101	GLN
44	BQ	49	HIS
45	BR	13	GLN
45	BR	37	ASN
45	BR	46	HIS
46	BS	76	GLN
47	BT	16	GLN
47	BT	26	GLN
49	BV	14	HIS
49	BV	23	ASN
49	BV	47	HIS
49	BV	56	GLN
50	BW	18	GLN
50	BW	26	ASN
32	CE	37	ASN
32	CE	40	HIS
32	CE	76	GLN
32	CE	78	GLN
32	CE	94	ASN
32	CE	95	GLN

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Mol	Chain	Res	Type
32	CE	110	GLN
32	CE	146	GLN
32	CE	204	ASN
32	CE	212	GLN
33	CF	28	GLN
33	CF	31	HIS
33	CF	69	HIS
33	CF	170	GLN
33	CF	176	HIS
33	CF	181	ASN
34	CG	77	ASN
34	CG	119	GLN
34	CG	160	GLN
34	CG	161	ASN
34	CG	201	GLN
35	CH	20	GLN
35	CH	72	GLN
35	CH	73	ASN
35	CH	78	HIS
36	CI	18	GLN
36	CI	27	GLN
36	CI	32	ASN
36	CI	64	GLN
37	CJ	37	ASN
37	CJ	86	GLN
37	CJ	106	GLN
37	CJ	122	HIS
38	CK	15	ASN
39	CL	58	HIS
39	CL	124	GLN
40	CM	68	HIS
40	CM	78	ASN
41	CN	13	GLN
41	CN	117	ASN
42	CO	9	GLN
42	CO	49	ASN
43	CP	62	ASN
43	CP	77	ASN
43	CP	92	HIS
43	CP	101	GLN
44	CQ	49	HIS
45	CR	9	GLN

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Mol	Chain	Res	Type
45	CR	37	ASN
46	CS	14	ASN
46	CS	76	GLN
46	CS	82	GLN
47	CT	16	GLN
47	CT	94	ASN
49	CV	23	ASN
49	CV	47	HIS
49	CV	65	ASN
50	CW	9	ASN
50	CW	18	GLN
50	CW	26	ASN
50	CW	90	GLN
3	DD	58	HIS
3	DD	96	HIS
3	DD	116	GLN
3	DD	126	GLN
3	DD	166	GLN
3	DD	186	HIS
3	DD	198	ASN
3	DD	201	HIS
3	DD	220	HIS
3	DD	227	ASN
4	DE	35	GLN
4	DE	135	HIS
4	DE	143	ASN
4	DE	159	HIS
4	DE	192	ASN
5	DF	40	GLN
5	DF	67	GLN
5	DF	69	HIS
5	DF	133	ASN
5	DF	169	ASN
5	DF	203	GLN
5	DF	204	ASN
6	DG	26	GLN
6	DG	41	GLN
6	DG	58	GLN
6	DG	79	ASN
6	DG	121	ASN
6	DG	123	ASN
7	DH	139	GLN

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Mol	Chain	Res	Type
7	DH	147	ASN
8	DK	43	ASN
8	DK	74	ASN
8	DK	105	HIS
8	DK	139	GLN
57	DY	3	ASN
57	DY	21	GLN
57	DY	28	ASN
57	DY	46	GLN
57	DY	47	ASN
57	DY	95	GLN
57	DY	113	GLN
9	DM	45	ASN
9	DM	69	GLN
9	DM	94	HIS
9	DM	128	HIS
9	DM	130	HIS
9	DM	131	GLN
10	DN	82	ASN
11	DO	9	ASN
11	DO	68	GLN
11	DO	81	GLN
12	DP	12	GLN
12	DP	89	ASN
12	DP	141	GLN
13	D0	3	HIS
13	D0	13	HIS
13	D0	16	HIS
13	D0	23	ASN
13	D0	24	GLN
13	D0	53	HIS
13	D0	61	HIS
13	D0	91	GLN
14	DQ	34	HIS
15	DR	43	GLN
15	DR	55	ASN
15	DR	84	GLN
15	DR	90	GLN
15	DR	136	GLN
16	D1	49	HIS
16	D1	71	GLN
16	D1	72	HIS

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Mol	Chain	Res	Type
16	D1	94	ASN
17	D2	11	GLN
17	D2	89	GLN
18	DS	57	ASN
18	DS	60	ASN
18	DS	61	ASN
18	DS	102	HIS
19	DT	31	HIS
19	DT	41	ASN
19	DT	55	ASN
19	DT	87	GLN
20	DU	57	GLN
21	DV	32	HIS
21	DV	55	HIS
21	DV	75	ASN
22	D3	29	GLN
22	D3	35	ASN
23	DZ	56	GLN
23	DZ	66	HIS
24	DW	56	GLN
24	DW	65	ASN
25	DX	19	GLN
25	DX	46	ASN
25	DX	52	HIS
26	D4	6	HIS
26	D4	47	GLN
26	D4	60	GLN
27	D5	4	HIS
27	D5	43	HIS
28	D6	20	ASN
29	D7	8	ASN
29	D7	36	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	2908/2909 (99%)	771 (26%)	318 (10%)
2	AB	121/122 (99%)	24 (19%)	6 (4%)
2	DB	121/122 (99%)	27 (22%)	5 (4%)
31	BA	1516/1516 (100%)	331 (21%)	130 (8%)
52	BB	74/76 (97%)	28 (37%)	8 (10%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
52	BC	74/76 (97%)	19 (25%)	6 (8%)
52	BD	74/76 (97%)	15 (20%)	3 (4%)
52	CB	74/76 (97%)	25 (33%)	8 (10%)
52	CC	74/76 (97%)	18 (24%)	7 (9%)
52	CD	74/76 (97%)	23 (31%)	5 (6%)
53	B1	29/30 (96%)	12 (41%)	4 (13%)
53	C1	29/30 (96%)	10 (34%)	4 (13%)
54	CA	1514/1515 (99%)	321 (21%)	138 (9%)
55	DA	2911/2912 (99%)	806 (27%)	374 (12%)
All	All	9593/9612 (99%)	2430 (25%)	1016 (10%)

All (2430) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	5	A
1	AA	13	A
1	AA	14	A
1	AA	28	A
1	AA	34	C
1	AA	35	G
1	AA	46	C
1	AA	49	A
1	AA	50	U
1	AA	51	G
1	AA	60	G
1	AA	61	G
1	AA	69	C
1	AA	70	G
1	AA	71	A
1	AA	72	U
1	AA	73	A
1	AA	74	A
1	AA	75	G
1	AA	83	G
1	AA	84	A
1	AA	85	G
1	AA	88	G
1	AA	90	U
1	AA	91	A
1	AA	93	C
1	AA	99	U
1	AA	101	G

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Mol	Chain	Res	Type
1	AA	102	G
1	AA	119	A
1	AA	120	U
1	AA	121	G
1	AA	126	A
1	AA	129	C
1	AA	137	C
1	AA	138	G
1	AA	140	A
1	AA	155	C
1	AA	161	U
1	AA	162	U
1	AA	171	G
1	AA	174	C
1	AA	175	G
1	AA	178	G
1	AA	196	A
1	AA	204	A
1	AA	205	G
1	AA	206	U
1	AA	215	G
1	AA	216	A
1	AA	221	A
1	AA	222	A
1	AA	223	A
1	AA	228	A
1	AA	229	A
1	AA	232	G
1	AA	233	A
1	AA	241	A
1	AA	242	G
1	AA	243	U
1	AA	248	G
1	AA	249	C
1	AA	250	G
1	AA	261	G
1	AA	265	A
1	AA	266	G
1	AA	267	C
1	AA	270(B)	A
1	AA	270(K)	C
1	AA	270(L)	U

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Mol	Chain	Res	Type
1	AA	270(M)	U
1	AA	270(N)	G
1	AA	270(O)	U
1	AA	270(P)	C
1	AA	270(Z)	U
1	AA	271(C)	U
1	AA	271	G
1	AA	273(D)	C
1	AA	274	G
1	AA	278	A
1	AA	279	C
1	AA	283	A
1	AA	284	U
1	AA	288	C
1	AA	289	A
1	AA	301	G
1	AA	311	A
1	AA	312	G
1	AA	316	C
1	AA	322	A
1	AA	323	G
1	AA	324	A
1	AA	329	G
1	AA	330	A
1	AA	332	A
1	AA	333	G
1	AA	346	A
1	AA	352	G
1	AA	353	G
1	AA	356	G
1	AA	363	G
1	AA	363(A)	A
1	AA	363(B)	G
1	AA	363(E)	U
1	AA	363(F)	A
1	AA	364	C
1	AA	371	A
1	AA	372	G
1	AA	385	C
1	AA	386	G
1	AA	387	U
1	AA	388	G

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Mol	Chain	Res	Type
1	AA	390	A
1	AA	391	G
1	AA	395	U
1	AA	396	G
1	AA	404	C
1	AA	405	U
1	AA	406	G
1	AA	411	G
1	AA	412	A
1	AA	422	A
1	AA	428	A
1	AA	435	C
1	AA	442	G
1	AA	443	A
1	AA	444	C
1	AA	446	G
1	AA	448	U
1	AA	449	A
1	AA	455	C
1	AA	456	C
1	AA	457	A
1	AA	458	G
1	AA	459	U
1	AA	470	A
1	AA	475	U
1	AA	480	A
1	AA	481	G
1	AA	482	A
1	AA	494	G
1	AA	504	U
1	AA	505	A
1	AA	507	A
1	AA	508	G
1	AA	509	C
1	AA	512	G
1	AA	527	C
1	AA	530	G
1	AA	531	C
1	AA	533	G
1	AA	563	G
1	AA	573	G
1	AA	574	C

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Mol	Chain	Res	Type
1	AA	575	A
1	AA	588	U
1	AA	604	G
1	AA	607	U
1	AA	612	G
1	AA	614	U
1	AA	615	G
1	AA	616	A
1	AA	617	G
1	AA	620	G
1	AA	621	A
1	AA	622	G
1	AA	627	A
1	AA	628	G
1	AA	638	G
1	AA	645	C
1	AA	646	A
1	AA	654	A
1	AA	654(E)	C
1	AA	654(F)	C
1	AA	654(G)	C
1	AA	654(H)	G
1	AA	654(I)	C
1	AA	654(J)	A
1	AA	654(K)	C
1	AA	654(L)	G
1	AA	654(N)	G
1	AA	654(S)	G
1	AA	654(T)	A
1	AA	657	U
1	AA	666	G
1	AA	668	G
1	AA	670	A
1	AA	671	C
1	AA	686	G
1	AA	687	C
1	AA	705	A
1	AA	707	G
1	AA	708	C
1	AA	722	A
1	AA	727	A
1	AA	730	C

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Mol	Chain	Res	Type
1	AA	739	G
1	AA	740	U
1	AA	746	A
1	AA	747	U
1	AA	753	C
1	AA	763	G
1	AA	775	G
1	AA	776	G
1	AA	777	A
1	AA	782	A
1	AA	784	A
1	AA	785	G
1	AA	789	A
1	AA	790	C
1	AA	791	C
1	AA	792	G
1	AA	793	A
1	AA	800	A
1	AA	801	G
1	AA	802	A
1	AA	805	G
1	AA	806	C
1	AA	811	U
1	AA	812	C
1	AA	819	A
1	AA	827	U
1	AA	828	U
1	AA	830	G
1	AA	831	G
1	AA	847	U
1	AA	848	G
1	AA	857	C
1	AA	859	G
1	AA	860	U
1	AA	866	A
1	AA	878	A
1	AA	882	G
1	AA	883	G
1	AA	884	C
1	AA	886	C
1	AA	888	C
1	AA	889	C

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Mol	Chain	Res	Type
1	AA	894	C
1	AA	895	U
1	AA	896	A
1	AA	897	C
1	AA	898	C
1	AA	899	A
1	AA	901	A
1	AA	910	A
1	AA	917	A
1	AA	918	A
1	AA	919	G
1	AA	926	A
1	AA	931	G
1	AA	932	G
1	AA	933	A
1	AA	941	A
1	AA	944	G
1	AA	945	A
1	AA	946	G
1	AA	947	G
1	AA	955	C
1	AA	956	G
1	AA	957	A
1	AA	958	U
1	AA	959	A
1	AA	961	C
1	AA	962	G
1	AA	973	A
1	AA	974	G
1	AA	983	A
1	AA	986	C
1	AA	989	G
1	AA	990	A
1	AA	991	C
1	AA	996	A
1	AA	1000	A
1	AA	1008	C
1	AA	1009	A
1	AA	1011	G
1	AA	1012	U
1	AA	1013	C
1	AA	1020	A

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Mol	Chain	Res	Type
1	AA	1021	A
1	AA	1022	G
1	AA	1023	U
1	AA	1025	G
1	AA	1026	U
1	AA	1027	A
1	AA	1044	G
1	AA	1045	A
1	AA	1046	A
1	AA	1047	G
1	AA	1048	A
1	AA	1054	A
1	AA	1056	G
1	AA	1060	U
1	AA	1061	U
1	AA	1070	A
1	AA	1071	G
1	AA	1086	A
1	AA	1087	G
1	AA	1088	A
1	AA	1090	U
1	AA	1095	A
1	AA	1096	A
1	AA	1097	U
1	AA	1099	G
1	AA	1103	A
1	AA	1112	G
1	AA	1126	A
1	AA	1127	A
1	AA	1130	U
1	AA	1131	G
1	AA	1135	C
1	AA	1136	G
1	AA	1142	U
1	AA	1142(A)	A
1	AA	1144	G
1	AA	1155	A
1	AA	1156	A
1	AA	1157	G
1	AA	1170	G
1	AA	1171	G
1	AA	1173	G

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Mol	Chain	Res	Type
1	AA	1174	A
1	AA	1175	U
1	AA	1176	G
1	AA	1177	A
1	AA	1178	C
1	AA	1180	C
1	AA	1195	G
1	AA	1204	A
1	AA	1205	U
1	AA	1206	G
1	AA	1211	U
1	AA	1212	G
1	AA	1213	A
1	AA	1220	A
1	AA	1221	C
1	AA	1225	C
1	AA	1236	G
1	AA	1237	A
1	AA	1238	G
1	AA	1244	G
1	AA	1247	A
1	AA	1248	G
1	AA	1249	U
1	AA	1251	C
1	AA	1252	G
1	AA	1253	A
1	AA	1254	A
1	AA	1255	U
1	AA	1256	G
1	AA	1265	A
1	AA	1266	G
1	AA	1271	G
1	AA	1272	A
1	AA	1273	U
1	AA	1276	A
1	AA	1281	G
1	AA	1289	C
1	AA	1300	U
1	AA	1301	A
1	AA	1302	A
1	AA	1303	G
1	AA	1313	U

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Mol	Chain	Res	Type
1	AA	1314	C
1	AA	1319	G
1	AA	1321	A
1	AA	1325	G
1	AA	1326	U
1	AA	1329	U
1	AA	1330	C
1	AA	1332	G
1	AA	1333	C
1	AA	1341	U
1	AA	1342	A
1	AA	1343	G
1	AA	1344	G
1	AA	1345	C
1	AA	1349	A
1	AA	1359	A
1	AA	1367	A
1	AA	1372	U
1	AA	1379	A
1	AA	1380	G
1	AA	1384	A
1	AA	1385	G
1	AA	1396	U
1	AA	1397	U
1	AA	1398	C
1	AA	1407	C
1	AA	1416	G
1	AA	1419	A
1	AA	1420	U
1	AA	1427	A
1	AA	1428	C
1	AA	1444(A)	A
1	AA	1449	A
1	AA	1449(A)	G
1	AA	1451	C
1	AA	1453	A
1	AA	1454	U
1	AA	1455	G
1	AA	1459	G
1	AA	1461	G
1	AA	1467	C
1	AA	1471	A

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Mol	Chain	Res	Type
1	AA	1475	G
1	AA	1478	G
1	AA	1482	U
1	AA	1483	G
1	AA	1485	G
1	AA	1488	G
1	AA	1490	A
1	AA	1491	G
1	AA	1493	C
1	AA	1494	A
1	AA	1497	U
1	AA	1498	C
1	AA	1502	C
1	AA	1505	C
1	AA	1508	A
1	AA	1509	C
1	AA	1510	A
1	AA	1522	G
1	AA	1534	G
1	AA	1535	U
1	AA	1537	C
1	AA	1538	G
1	AA	1543	A
1	AA	1544	C
1	AA	1545	A
1	AA	1554	A
1	AA	1555	G
1	AA	1558	A
1	AA	1559	G
1	AA	1560	G
1	AA	1565	C
1	AA	1566	A
1	AA	1567	A
1	AA	1569	A
1	AA	1578	U
1	AA	1579	A
1	AA	1585	C
1	AA	1586	A
1	AA	1588	C
1	AA	1602	U
1	AA	1603	A
1	AA	1607	C

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Mol	Chain	Res	Type
1	AA	1608	A
1	AA	1611	C
1	AA	1616	A
1	AA	1617	C
1	AA	1618	A
1	AA	1619	G
1	AA	1632	A
1	AA	1635	G
1	AA	1640	C
1	AA	1647	G
1	AA	1648	C
1	AA	1653	G
1	AA	1654	A
1	AA	1667	G
1	AA	1668	A
1	AA	1669	A
1	AA	1674	G
1	AA	1675	C
1	AA	1681	G
1	AA	1694	C
1	AA	1695	G
1	AA	1696	G
1	AA	1698	A
1	AA	1699	G
1	AA	1700	A
1	AA	1701	A
1	AA	1706	U
1	AA	1707	G
1	AA	1725	G
1	AA	1729	A
1	AA	1731	G
1	AA	1735	C
1	AA	1756	G
1	AA	1758	G
1	AA	1759	A
1	AA	1761	C
1	AA	1762	A
1	AA	1763	G
1	AA	1764	G
1	AA	1773	A
1	AA	1780	A
1	AA	1781	C

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Mol	Chain	Res	Type
1	AA	1782	C
1	AA	1784	A
1	AA	1785	A
1	AA	1787	A
1	AA	1791	A
1	AA	1800	C
1	AA	1801	G
1	AA	1802	A
1	AA	1815	A
1	AA	1816	G
1	AA	1820	U
1	AA	1821	A
1	AA	1822	G
1	AA	1827	C
1	AA	1828	G
1	AA	1829	A
1	AA	1835	G
1	AA	1839	G
1	AA	1847	A
1	AA	1848	A
1	AA	1858	G
1	AA	1869	G
1	AA	1870	C
1	AA	1878	G
1	AA	1880	C
1	AA	1882	C
1	AA	1888	G
1	AA	1889	A
1	AA	1900	A
1	AA	1906	G
1	AA	1914	C
1	AA	1917	U
1	AA	1919	A
1	AA	1925	C
1	AA	1929	G
1	AA	1930	G
1	AA	1931	U
1	AA	1937	A
1	AA	1938	A
1	AA	1939	U
1	AA	1940	U
1	AA	1941	C

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Mol	Chain	Res	Type
1	AA	1943	U
1	AA	1944	U
1	AA	1948	G
1	AA	1955	U
1	AA	1956	U
1	AA	1963	U
1	AA	1964	G
1	AA	1965	C
1	AA	1966	A
1	AA	1967	C
1	AA	1970	A
1	AA	1971	A
1	AA	1972	A
1	AA	1980	G
1	AA	1981	A
1	AA	1982	C
1	AA	1987	G
1	AA	1993	U
1	AA	1996	C
1	AA	1997	G
1	AA	2019	A
1	AA	2022	U
1	AA	2023	G
1	AA	2027	G
1	AA	2031	A
1	AA	2032	G
1	AA	2033	A
1	AA	2034	U
1	AA	2036	C
1	AA	2043	C
1	AA	2051	A
1	AA	2052	G
1	AA	2055	C
1	AA	2056	G
1	AA	2059	A
1	AA	2060	A
1	AA	2061	G
1	AA	2062	A
1	AA	2063	C
1	AA	2067	G
1	AA	2068	U
1	AA	2069	G

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Mol	Chain	Res	Type
1	AA	2092	U
1	AA	2093	G
1	AA	2099	U
1	AA	2108	C
1	AA	2111	C
1	AA	2112	G
1	AA	2113	U
1	AA	2114	A
1	AA	2115	G
1	AA	2118	U
1	AA	2119	A
1	AA	2120	G
1	AA	2126	A
1	AA	2127	G
1	AA	2128	C
1	AA	2130	U
1	AA	2132	U
1	AA	2133	G
1	AA	2136	C
1	AA	2146	C
1	AA	2147	G
1	AA	2159	G
1	AA	2166	G
1	AA	2168	G
1	AA	2172	U
1	AA	2173	A
1	AA	2190	G
1	AA	2192	G
1	AA	2193	G
1	AA	2198	A
1	AA	2210	G
1	AA	2211	G
1	AA	2212	A
1	AA	2215	G
1	AA	2226	C
1	AA	2239	G
1	AA	2249	U
1	AA	2250	G
1	AA	2251	G
1	AA	2259	G
1	AA	2266	A
1	AA	2267	A

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Mol	Chain	Res	Type
1	AA	2268	A
1	AA	2275	C
1	AA	2276	G
1	AA	2279	G
1	AA	2283	C
1	AA	2289	G
1	AA	2297	C
1	AA	2307	G
1	AA	2308	G
1	AA	2311	A
1	AA	2312	U
1	AA	2319	G
1	AA	2320	A
1	AA	2322	A
1	AA	2325	G
1	AA	2334	G
1	AA	2335	A
1	AA	2337	G
1	AA	2345	G
1	AA	2346	A
1	AA	2347	C
1	AA	2349	G
1	AA	2350	C
1	AA	2354	G
1	AA	2383	G
1	AA	2384	G
1	AA	2385	C
1	AA	2388	A
1	AA	2390	U
1	AA	2392	A
1	AA	2400	G
1	AA	2402	C
1	AA	2406	U
1	AA	2407	G
1	AA	2423	U
1	AA	2424	C
1	AA	2425	A
1	AA	2426	A
1	AA	2427	C
1	AA	2428	G
1	AA	2429	G
1	AA	2430	A

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Mol	Chain	Res	Type
1	AA	2434	A
1	AA	2435	A
1	AA	2439	A
1	AA	2440	C
1	AA	2441	C
1	AA	2447	G
1	AA	2448	A
1	AA	2449	U
1	AA	2450	A
1	AA	2458	G
1	AA	2459	A
1	AA	2469	A
1	AA	2470	G
1	AA	2476	A
1	AA	2478	A
1	AA	2482	G
1	AA	2484	G
1	AA	2490	G
1	AA	2491	U
1	AA	2497	A
1	AA	2498	C
1	AA	2502	G
1	AA	2503	A
1	AA	2504	U
1	AA	2505	G
1	AA	2506	U
1	AA	2507	C
1	AA	2518	A
1	AA	2519	U
1	AA	2520	C
1	AA	2523	G
1	AA	2529	G
1	AA	2531	A
1	AA	2534	A
1	AA	2543	G
1	AA	2552	U
1	AA	2554	U
1	AA	2566	A
1	AA	2567	G
1	AA	2573	C
1	AA	2574	G
1	AA	2581	G

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Mol	Chain	Res	Type
1	AA	2582	G
1	AA	2585	U
1	AA	2586	C
1	AA	2602	A
1	AA	2603	G
1	AA	2609	U
1	AA	2610	C
1	AA	2611	U
1	AA	2612	C
1	AA	2613	U
1	AA	2614	A
1	AA	2615	U
1	AA	2629	A
1	AA	2630	G
1	AA	2637	U
1	AA	2645	G
1	AA	2646	C
1	AA	2654	A
1	AA	2655	G
1	AA	2656	U
1	AA	2665	A
1	AA	2673	G
1	AA	2682	U
1	AA	2690	C
1	AA	2691	C
1	AA	2702	U
1	AA	2703	C
1	AA	2712	U
1	AA	2712(A)	A
1	AA	2713	A
1	AA	2714	G
1	AA	2725	A
1	AA	2733	A
1	AA	2748	A
1	AA	2750	A
1	AA	2751	G
1	AA	2752	C
1	AA	2754	U
1	AA	2756	U
1	AA	2757	A
1	AA	2759	G
1	AA	2762	G

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Mol	Chain	Res	Type
1	AA	2763	G
1	AA	2765	A
1	AA	2766	G
1	AA	2777	G
1	AA	2778	A
1	AA	2779	U
1	AA	2780	G
1	AA	2781	A
1	AA	2790	A
1	AA	2791	C
1	AA	2797	U
1	AA	2799	A
1	AA	2808	U
1	AA	2820	A
1	AA	2833	G
1	AA	2834	G
1	AA	2836	U
1	AA	2848	G
1	AA	2849	U
1	AA	2850	A
1	AA	2860	A
1	AA	2866	U
1	AA	2867	G
1	AA	2868	A
1	AA	2872	G
1	AA	2874	C
1	AA	2879	C
1	AA	2880	C
1	AA	2898	U
2	AB	8	U
2	AB	12	C
2	AB	13	A
2	AB	14	U
2	AB	15	A
2	AB	16	G
2	AB	25	A
2	AB	31	C
2	AB	35	U
2	AB	41	U
2	AB	42	C
2	AB	45	A
2	AB	52	A

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Mol	Chain	Res	Type
2	AB	53	A
2	AB	57	A
2	AB	67	G
2	AB	73	A
2	AB	75	G
2	AB	88	C
2	AB	89	G
2	AB	89(A)	A
2	AB	96	G
2	AB	109	G
2	AB	112	G
31	BA	5	U
31	BA	6	G
31	BA	31	G
31	BA	32	A
31	BA	39	G
31	BA	48	C
31	BA	49	U
31	BA	50	A
31	BA	51	A
31	BA	61	G
31	BA	65	U
31	BA	66	G
31	BA	76	G
31	BA	78	G
31	BA	81	G
31	BA	84	U
31	BA	85	U
31	BA	86	U
31	BA	87	A
31	BA	90	C
31	BA	91	C
31	BA	92	G
31	BA	96	G
31	BA	101	A
31	BA	109	A
31	BA	110	C
31	BA	116	A
31	BA	120	A
31	BA	121	C
31	BA	122	G
31	BA	129(A)	G

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Mol	Chain	Res	Type
31	BA	130	A
31	BA	131	C
31	BA	163	C
31	BA	169	C
31	BA	173	U
31	BA	174	C
31	BA	182	U
31	BA	189	U
31	BA	190	G
31	BA	191(D)	U
31	BA	191(E)	G
31	BA	191(F)	U
31	BA	195	A
31	BA	197	A
31	BA	198	G
31	BA	201	C
31	BA	208	U
31	BA	209	U
31	BA	210	U
31	BA	216	G
31	BA	244	U
31	BA	245	C
31	BA	247	G
31	BA	251	G
31	BA	252	U
31	BA	265	G
31	BA	266	G
31	BA	267	C
31	BA	275	G
31	BA	279	A
31	BA	280	C
31	BA	281	G
31	BA	282	A
31	BA	289	G
31	BA	306	G
31	BA	316	G
31	BA	328	C
31	BA	329	A
31	BA	330	C
31	BA	332	G
31	BA	344	A
31	BA	345	C

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Mol	Chain	Res	Type
31	BA	346	G
31	BA	350	G
31	BA	352	C
31	BA	353	A
31	BA	354	G
31	BA	367	U
31	BA	368	U
31	BA	373	A
31	BA	389	A
31	BA	397	A
31	BA	398	C
31	BA	411	A
31	BA	412	A
31	BA	413	G
31	BA	414	A
31	BA	421	U
31	BA	422	C
31	BA	423	G
31	BA	428	G
31	BA	429	U
31	BA	430	A
31	BA	438	G
31	BA	439	A
31	BA	442	C
31	BA	451	A
31	BA	465	A
31	BA	467	G
31	BA	478	A
31	BA	482	A
31	BA	484	G
31	BA	485	G
31	BA	494	U
31	BA	495	A
31	BA	496	A
31	BA	497	U
31	BA	500	G
31	BA	505	G
31	BA	508	C
31	BA	509	A
31	BA	510	A
31	BA	511	C
31	BA	517	G

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Mol	Chain	Res	Type
31	BA	518	C
31	BA	519	C
31	BA	527	G
31	BA	530	G
31	BA	531	U
31	BA	532	A
31	BA	533	A
31	BA	534	U
31	BA	536	C
31	BA	548	G
31	BA	559	A
31	BA	560	U
31	BA	561	U
31	BA	562	C
31	BA	563	A
31	BA	566	G
31	BA	567	G
31	BA	572	A
31	BA	573	A
31	BA	575	G
31	BA	576	G
31	BA	577	G
31	BA	596	C
31	BA	598	U
31	BA	630	G
31	BA	632	A
31	BA	633	G
31	BA	642	A
31	BA	653	A
31	BA	665	A
31	BA	687	A
31	BA	688	G
31	BA	697	U
31	BA	701	C
31	BA	702	A
31	BA	703	G
31	BA	704	A
31	BA	721	G
31	BA	724	G
31	BA	731	G
31	BA	749	C
31	BA	753	A

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Mol	Chain	Res	Type
31	BA	754	C
31	BA	755	G
31	BA	793	U
31	BA	801	U
31	BA	802	A
31	BA	813	U
31	BA	815	A
31	BA	816	A
31	BA	817	C
31	BA	818	G
31	BA	819	A
31	BA	820	U
31	BA	821	G
31	BA	828	A
31	BA	841	U
31	BA	842	C
31	BA	843	U
31	BA	848	C
31	BA	855	G
31	BA	859	A
31	BA	871	U
31	BA	872	A
31	BA	873	A
31	BA	874	G
31	BA	885	G
31	BA	888	G
31	BA	889	A
31	BA	890	G
31	BA	914	A
31	BA	926	G
31	BA	927	G
31	BA	934	C
31	BA	935	A
31	BA	960	U
31	BA	961	U
31	BA	966	G
31	BA	968	A
31	BA	969	A
31	BA	974	A
31	BA	976	G
31	BA	977	A
31	BA	978	A

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Mol	Chain	Res	Type
31	BA	982	U
31	BA	983	A
31	BA	991	U
31	BA	992	U
31	BA	993	G
31	BA	994	A
31	BA	1001	G
31	BA	1004	A
31	BA	1005	A
31	BA	1008	C
31	BA	1021	G
31	BA	1024	G
31	BA	1025	U
31	BA	1028	C
31	BA	1028(A)	C
31	BA	1029	G
31	BA	1032(A)	G
31	BA	1036	G
31	BA	1042	G
31	BA	1050	G
31	BA	1053	G
31	BA	1054	C
31	BA	1055	A
31	BA	1064	G
31	BA	1065	U
31	BA	1066	C
31	BA	1068	G
31	BA	1085	U
31	BA	1086	U
31	BA	1094	G
31	BA	1095	U
31	BA	1101	A
31	BA	1102	A
31	BA	1117	G
31	BA	1118	C
31	BA	1124	G
31	BA	1125	U
31	BA	1127	G
31	BA	1128	C
31	BA	1130	A
31	BA	1131	G
31	BA	1137	C

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Mol	Chain	Res	Type
31	BA	1138	G
31	BA	1139	G
31	BA	1140	C
31	BA	1146	A
31	BA	1157	A
31	BA	1158	C
31	BA	1159	U
31	BA	1160	G
31	BA	1161	C
31	BA	1178	G
31	BA	1181	G
31	BA	1183	A
31	BA	1184	G
31	BA	1187	G
31	BA	1192	C
31	BA	1196	U
31	BA	1197	G
31	BA	1200	C
31	BA	1201	A
31	BA	1202	G
31	BA	1212	U
31	BA	1215	G
31	BA	1224	G
31	BA	1225	A
31	BA	1226	C
31	BA	1227	A
31	BA	1238	A
31	BA	1240	U
31	BA	1256	A
31	BA	1257	U
31	BA	1273	G
31	BA	1278	U
31	BA	1280	A
31	BA	1282	C
31	BA	1285	A
31	BA	1286	A
31	BA	1287	A
31	BA	1297	C
31	BA	1298	C
31	BA	1299	A
31	BA	1303	C
31	BA	1305	G

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Mol	Chain	Res	Type
31	BA	1317	C
31	BA	1320	C
31	BA	1321	C
31	BA	1322	C
31	BA	1323	G
31	BA	1331	G
31	BA	1335	C
31	BA	1337	G
31	BA	1338	G
31	BA	1345	U
31	BA	1347	G
31	BA	1348	U
31	BA	1362(A)	C
31	BA	1363	A
31	BA	1364	U
31	BA	1365	G
31	BA	1381	U
31	BA	1394	A
31	BA	1395	C
31	BA	1396	A
31	BA	1397	C
31	BA	1398	A
31	BA	1400	C
31	BA	1401	G
31	BA	1419	G
31	BA	1442	G
31	BA	1443	G
31	BA	1446	A
31	BA	1450	U
31	BA	1451	A
31	BA	1452	C
31	BA	1453	G
31	BA	1454	G
31	BA	1492	A
31	BA	1499	A
31	BA	1502	A
31	BA	1503	A
31	BA	1504	G
31	BA	1506	U
31	BA	1507	A
31	BA	1517	G
31	BA	1520	G

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Mol	Chain	Res	Type
31	BA	1528	U
31	BA	1529	G
31	BA	1530	G
31	BA	1533	C
31	BA	1538	C
31	BA	1541	U
52	BD	8	U
52	BD	9	A
52	BD	10	G
52	BD	16	U
52	BD	17	C
52	BD	20	U
52	BD	22	G
52	BD	36	A
52	BD	42	C
52	BD	46	G
52	BD	49	C
52	BD	58	A
52	BD	59	U
52	BD	61	C
52	BD	73	A
52	BB	8	U
52	BB	9	A
52	BB	10	G
52	BB	11	C
52	BB	16	U
52	BB	17	C
52	BB	18	G
52	BB	19	G
52	BB	20	U
52	BB	21	A
52	BB	22	G
52	BB	24	G
52	BB	25	C
52	BB	26	A
52	BB	27	G
52	BB	41	C
52	BB	44	G
52	BB	46	G
52	BB	47	U
52	BB	49	C
52	BB	58	A

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Mol	Chain	Res	Type
52	BB	59	U
52	BB	61	C
52	BB	70	G
52	BB	73	A
52	BB	74	C
52	BB	75	C
52	BB	76	A
52	BC	8	U
52	BC	9	A
52	BC	10	G
52	BC	17	C
52	BC	18	G
52	BC	19	G
52	BC	21	A
52	BC	22	G
52	BC	29	G
52	BC	43	C
52	BC	44	G
52	BC	46	G
52	BC	47	U
52	BC	48	C
52	BC	49	C
52	BC	58	A
52	BC	59	U
52	BC	61	C
52	BC	76	A
53	B1	32	A
53	B1	37	G
53	B1	42	U
53	B1	43	U
53	B1	49	U
53	B1	51	U
53	B1	52	U
53	B1	53	U
53	B1	54	U
53	B1	55	U
53	B1	56	U
53	B1	57	U
54	CA	9	G
54	CA	13	U
54	CA	14	U
54	CA	31	G

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Mol	Chain	Res	Type
54	CA	32	A
54	CA	39	G
54	CA	48	C
54	CA	49	U
54	CA	50	A
54	CA	51	A
54	CA	61	G
54	CA	64	G
54	CA	65	U
54	CA	66	G
54	CA	76	G
54	CA	78	G
54	CA	84	U
54	CA	85	U
54	CA	86	U
54	CA	87	A
54	CA	88	C
54	CA	89	U
54	CA	90	C
54	CA	91	C
54	CA	92	G
54	CA	95	G
54	CA	96	G
54	CA	97	U
54	CA	101	A
54	CA	109	A
54	CA	110	C
54	CA	116	A
54	CA	120	A
54	CA	121	C
54	CA	122	G
54	CA	130	A
54	CA	131	C
54	CA	144	G
54	CA	147	G
54	CA	163	C
54	CA	172	A
54	CA	173	U
54	CA	174	C
54	CA	183	G
54	CA	190	G
54	CA	191(A)	G

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Mol	Chain	Res	Type
54	CA	195	A
54	CA	197	A
54	CA	198	G
54	CA	209	U
54	CA	231	G
54	CA	244	U
54	CA	245	C
54	CA	247	G
54	CA	251	G
54	CA	252	U
54	CA	266	G
54	CA	267	C
54	CA	275	G
54	CA	281	G
54	CA	289	G
54	CA	305	G
54	CA	306	G
54	CA	315	A
54	CA	316	G
54	CA	321	A
54	CA	328	C
54	CA	329	A
54	CA	330	C
54	CA	332	G
54	CA	344	A
54	CA	345	C
54	CA	346	G
54	CA	352	C
54	CA	353	A
54	CA	354	G
54	CA	367	U
54	CA	368	U
54	CA	373	A
54	CA	388	G
54	CA	389	A
54	CA	397	A
54	CA	411	A
54	CA	412	A
54	CA	413	G
54	CA	414	A
54	CA	422	C
54	CA	423	G

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Mol	Chain	Res	Type
54	CA	428	G
54	CA	429	U
54	CA	430	A
54	CA	451	A
54	CA	482	A
54	CA	484	G
54	CA	485	G
54	CA	486	U
54	CA	495	A
54	CA	496	A
54	CA	497	U
54	CA	500	G
54	CA	508	C
54	CA	509	A
54	CA	510	A
54	CA	511	C
54	CA	517	G
54	CA	518	C
54	CA	519	C
54	CA	527	G
54	CA	531	U
54	CA	532	A
54	CA	533	A
54	CA	534	U
54	CA	536	C
54	CA	548	G
54	CA	559	A
54	CA	560	U
54	CA	561	U
54	CA	563	A
54	CA	566	G
54	CA	567	G
54	CA	572	A
54	CA	573	A
54	CA	575	G
54	CA	576	G
54	CA	577	G
54	CA	596	C
54	CA	616	G
54	CA	629	G
54	CA	630	G
54	CA	631	G

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Mol	Chain	Res	Type
54	CA	632	A
54	CA	642	A
54	CA	665	A
54	CA	666	G
54	CA	688	G
54	CA	701	C
54	CA	702	A
54	CA	703	G
54	CA	704	A
54	CA	721	G
54	CA	722	A
54	CA	731	G
54	CA	749	C
54	CA	754	C
54	CA	755	G
54	CA	791	G
54	CA	793	U
54	CA	794	A
54	CA	801	U
54	CA	802	A
54	CA	813	U
54	CA	815	A
54	CA	816	A
54	CA	817	C
54	CA	818	G
54	CA	819	A
54	CA	820	U
54	CA	821	G
54	CA	828	A
54	CA	841	U
54	CA	843	U
54	CA	848	C
54	CA	859	A
54	CA	871	U
54	CA	872	A
54	CA	873	A
54	CA	874	G
54	CA	885	G
54	CA	889	A
54	CA	890	G
54	CA	891	U
54	CA	902	G

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Mol	Chain	Res	Type
54	CA	914	A
54	CA	920	U
54	CA	926	G
54	CA	927	G
54	CA	934	C
54	CA	935	A
54	CA	960	U
54	CA	961	U
54	CA	966	G
54	CA	968	A
54	CA	969	A
54	CA	971	G
54	CA	972	C
54	CA	974	A
54	CA	975	A
54	CA	976	G
54	CA	977	A
54	CA	978	A
54	CA	982	U
54	CA	983	A
54	CA	991	U
54	CA	992	U
54	CA	993	G
54	CA	994	A
54	CA	1001	G
54	CA	1002	G
54	CA	1003	G
54	CA	1004	A
54	CA	1005	A
54	CA	1008	C
54	CA	1024	G
54	CA	1025	U
54	CA	1028	C
54	CA	1028(A)	C
54	CA	1029	G
54	CA	1032(A)	G
54	CA	1036	G
54	CA	1040	U
54	CA	1050	G
54	CA	1054	C
54	CA	1055	A
54	CA	1064	G

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Mol	Chain	Res	Type
54	CA	1065	U
54	CA	1066	C
54	CA	1068	G
54	CA	1085	U
54	CA	1086	U
54	CA	1094	G
54	CA	1095	U
54	CA	1101	A
54	CA	1102	A
54	CA	1117	G
54	CA	1124	G
54	CA	1125	U
54	CA	1126	U
54	CA	1127	G
54	CA	1130	A
54	CA	1131	G
54	CA	1136	U
54	CA	1137	C
54	CA	1138	G
54	CA	1139	G
54	CA	1140	C
54	CA	1146	A
54	CA	1157	A
54	CA	1158	C
54	CA	1159	U
54	CA	1160	G
54	CA	1177	G
54	CA	1178	G
54	CA	1179	A
54	CA	1181	G
54	CA	1182	G
54	CA	1183	A
54	CA	1191	A
54	CA	1196	U
54	CA	1197	G
54	CA	1200	C
54	CA	1201	A
54	CA	1202	G
54	CA	1212	U
54	CA	1215	G
54	CA	1224	G
54	CA	1225	A

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Mol	Chain	Res	Type
54	CA	1227	A
54	CA	1238	A
54	CA	1240	U
54	CA	1241	G
54	CA	1256	A
54	CA	1257	U
54	CA	1273	G
54	CA	1280	A
54	CA	1281	U
54	CA	1282	C
54	CA	1285	A
54	CA	1286	A
54	CA	1287	A
54	CA	1298	C
54	CA	1299	A
54	CA	1301	U
54	CA	1303	C
54	CA	1305	G
54	CA	1317	C
54	CA	1320	C
54	CA	1322	C
54	CA	1331	G
54	CA	1335	C
54	CA	1336	C
54	CA	1338	G
54	CA	1346	A
54	CA	1347	G
54	CA	1348	U
54	CA	1362(A)	C
54	CA	1363	A
54	CA	1364	U
54	CA	1365	G
54	CA	1370	G
54	CA	1381	U
54	CA	1395	C
54	CA	1396	A
54	CA	1397	C
54	CA	1398	A
54	CA	1400	C
54	CA	1401	G
54	CA	1419	G
54	CA	1442	G

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Mol	Chain	Res	Type
54	CA	1443	G
54	CA	1446	A
54	CA	1447	G
54	CA	1450	U
54	CA	1452	C
54	CA	1453	G
54	CA	1454	G
54	CA	1487	G
54	CA	1492	A
54	CA	1499	A
54	CA	1502	A
54	CA	1503	A
54	CA	1504	G
54	CA	1505	G
54	CA	1506	U
54	CA	1507	A
54	CA	1517	G
54	CA	1520	G
54	CA	1529	G
54	CA	1530	G
54	CA	1531	A
54	CA	1535	C
54	CA	1542	U
52	CD	2	C
52	CD	3	C
52	CD	8	U
52	CD	9	A
52	CD	13	C
52	CD	14	A
52	CD	17	C
52	CD	19	G
52	CD	21	A
52	CD	22	G
52	CD	42	C
52	CD	44	G
52	CD	45	U
52	CD	46	G
52	CD	47	U
52	CD	48	C
52	CD	49	C
52	CD	55	U
52	CD	56	C

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Mol	Chain	Res	Type
52	CD	59	U
52	CD	61	C
52	CD	73	A
52	CD	76	A
52	CB	8	U
52	CB	9	A
52	CB	10	G
52	CB	11	C
52	CB	16	U
52	CB	17	C
52	CB	18	G
52	CB	19	G
52	CB	20	U
52	CB	21	A
52	CB	22	G
52	CB	24	G
52	CB	26	A
52	CB	27	G
52	CB	41	C
52	CB	44	G
52	CB	47	U
52	CB	49	C
52	CB	58	A
52	CB	59	U
52	CB	70	G
52	CB	71	G
52	CB	74	C
52	CB	75	C
52	CB	76	A
52	CC	7	A
52	CC	8	U
52	CC	9	A
52	CC	10	G
52	CC	17	C
52	CC	18	G
52	CC	19	G
52	CC	20	U
52	CC	21	A
52	CC	29	G
52	CC	36	A
52	CC	45	U
52	CC	47	U

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Mol	Chain	Res	Type
52	CC	48	C
52	CC	58	A
52	CC	59	U
52	CC	61	C
52	CC	76	A
53	C1	32	A
53	C1	37	G
53	C1	40	U
53	C1	43	U
53	C1	45	U
53	C1	46	U
53	C1	53	U
53	C1	54	U
53	C1	56	U
53	C1	57	U
55	DA	5	A
55	DA	13	A
55	DA	14	A
55	DA	28	A
55	DA	34	C
55	DA	35	G
55	DA	46	C
55	DA	50	U
55	DA	51	G
55	DA	52	A
55	DA	63	U
55	DA	64	A
55	DA	70	G
55	DA	71	A
55	DA	72	U
55	DA	73	A
55	DA	74	A
55	DA	75	G
55	DA	84	A
55	DA	85	G
55	DA	88	G
55	DA	90	U
55	DA	91	A
55	DA	99	U
55	DA	101	G
55	DA	102	G
55	DA	118	A

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Mol	Chain	Res	Type
55	DA	119	A
55	DA	120	U
55	DA	121	G
55	DA	126	A
55	DA	138	G
55	DA	140	A
55	DA	165	U
55	DA	196	A
55	DA	197	A
55	DA	204	A
55	DA	205	G
55	DA	206	U
55	DA	214	G
55	DA	215	G
55	DA	216	A
55	DA	221	A
55	DA	222	A
55	DA	223	A
55	DA	227	A
55	DA	229	A
55	DA	230	U
55	DA	232	G
55	DA	233	A
55	DA	241	A
55	DA	242	G
55	DA	243	U
55	DA	248	G
55	DA	249	C
55	DA	250	G
55	DA	265	A
55	DA	266	G
55	DA	269	U
55	DA	270(L)	U
55	DA	270(M)	U
55	DA	270(O)	U
55	DA	270(P)	C
55	DA	271(A)	C
55	DA	271(C)	U
55	DA	271	G
55	DA	274	G
55	DA	275	G
55	DA	277	C

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Mol	Chain	Res	Type
55	DA	279	C
55	DA	284	U
55	DA	299	A
55	DA	301	G
55	DA	305	U
55	DA	311	A
55	DA	321	G
55	DA	322	A
55	DA	323	G
55	DA	324	A
55	DA	329	G
55	DA	330	A
55	DA	332	A
55	DA	333	G
55	DA	345	A
55	DA	346	A
55	DA	352	G
55	DA	353	G
55	DA	363	G
55	DA	364	C
55	DA	371	A
55	DA	372	G
55	DA	373	U
55	DA	386	G
55	DA	387	U
55	DA	388	G
55	DA	390	A
55	DA	391	G
55	DA	396	G
55	DA	403	U
55	DA	404	C
55	DA	405	U
55	DA	406	G
55	DA	411	G
55	DA	412	A
55	DA	421	U
55	DA	428	A
55	DA	434	U
55	DA	435	C
55	DA	442	G
55	DA	443	A
55	DA	444	C

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Mol	Chain	Res	Type
55	DA	446	G
55	DA	447	A
55	DA	448	U
55	DA	449	A
55	DA	454	A
55	DA	455	C
55	DA	456	C
55	DA	457	A
55	DA	458	G
55	DA	470	A
55	DA	475	U
55	DA	479	A
55	DA	480	A
55	DA	481	G
55	DA	482	A
55	DA	504	U
55	DA	505	A
55	DA	506	G
55	DA	508	G
55	DA	509	C
55	DA	526	A
55	DA	527	C
55	DA	528	A
55	DA	529	A
55	DA	531	C
55	DA	532	A
55	DA	533	G
55	DA	537	C
55	DA	539	G
55	DA	546	C
55	DA	549	G
55	DA	563	G
55	DA	572	A
55	DA	573	G
55	DA	574	C
55	DA	575	A
55	DA	586	A
55	DA	588	U
55	DA	603	A
55	DA	604	G
55	DA	607	U
55	DA	614	U

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Mol	Chain	Res	Type
55	DA	615	G
55	DA	616	A
55	DA	617	G
55	DA	621	A
55	DA	627	A
55	DA	628	G
55	DA	638	G
55	DA	644	A
55	DA	645	C
55	DA	646	A
55	DA	650	C
55	DA	651	G
55	DA	654	A
55	DA	654(E)	C
55	DA	654(F)	C
55	DA	654(G)	C
55	DA	654(H)	G
55	DA	654(I)	C
55	DA	654(J)	A
55	DA	654(K)	C
55	DA	654(L)	G
55	DA	654(N)	G
55	DA	654(S)	G
55	DA	654(T)	A
55	DA	670	A
55	DA	671	C
55	DA	686	G
55	DA	687	C
55	DA	702	G
55	DA	705	A
55	DA	722	A
55	DA	726	G
55	DA	730	C
55	DA	739	G
55	DA	747	U
55	DA	753	C
55	DA	762	U
55	DA	763	G
55	DA	775	G
55	DA	776	G
55	DA	777	A
55	DA	782	A

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Mol	Chain	Res	Type
55	DA	784	A
55	DA	785	G
55	DA	789	A
55	DA	790	C
55	DA	791	C
55	DA	792	G
55	DA	793	A
55	DA	794	G
55	DA	800	A
55	DA	801	G
55	DA	803	U
55	DA	805	G
55	DA	806	C
55	DA	811	U
55	DA	812	C
55	DA	819	A
55	DA	827	U
55	DA	828	U
55	DA	830	G
55	DA	831	G
55	DA	845	G
55	DA	847	U
55	DA	857	C
55	DA	858	U
55	DA	859	G
55	DA	860	U
55	DA	865	C
55	DA	866	A
55	DA	871	U
55	DA	878	A
55	DA	880	G
55	DA	881	G
55	DA	882	G
55	DA	883	G
55	DA	884	C
55	DA	885	C
55	DA	886	C
55	DA	887	A
55	DA	888	C
55	DA	889	C
55	DA	892	G
55	DA	893	C

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Mol	Chain	Res	Type
55	DA	896	A
55	DA	897	C
55	DA	898	C
55	DA	899	A
55	DA	900	A
55	DA	901	A
55	DA	906	G
55	DA	910	A
55	DA	913	U
55	DA	914	C
55	DA	917	A
55	DA	919	G
55	DA	930	U
55	DA	931	G
55	DA	933	A
55	DA	941	A
55	DA	946	G
55	DA	957	A
55	DA	958	U
55	DA	959	A
55	DA	961	C
55	DA	962	G
55	DA	973	A
55	DA	974	G
55	DA	975	G
55	DA	983	A
55	DA	989	G
55	DA	990	A
55	DA	991	C
55	DA	996	A
55	DA	1005	C
55	DA	1008	C
55	DA	1009	A
55	DA	1011	G
55	DA	1012	U
55	DA	1013	C
55	DA	1020	A
55	DA	1021	A
55	DA	1022	G
55	DA	1023	U
55	DA	1025	G
55	DA	1026	U

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Mol	Chain	Res	Type
55	DA	1027	A
55	DA	1034	G
55	DA	1044	G
55	DA	1045	A
55	DA	1046	A
55	DA	1047	G
55	DA	1048	A
55	DA	1049	C
55	DA	1050	A
55	DA	1054	A
55	DA	1055	G
55	DA	1056	G
55	DA	1057	A
55	DA	1058	U
55	DA	1059	G
55	DA	1060	U
55	DA	1061	U
55	DA	1062	G
55	DA	1066	U
55	DA	1067	A
55	DA	1068	G
55	DA	1070	A
55	DA	1071	G
55	DA	1074	G
55	DA	1076	C
55	DA	1077	A
55	DA	1078	U
55	DA	1079	C
55	DA	1080	A
55	DA	1082	U
55	DA	1084	A
55	DA	1085	A
55	DA	1086	A
55	DA	1088	A
55	DA	1090	U
55	DA	1092	C
55	DA	1093	G
55	DA	1095	A
55	DA	1096	A
55	DA	1097	U
55	DA	1099	G
55	DA	1103	A

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Mol	Chain	Res	Type
55	DA	1104	C
55	DA	1110	G
55	DA	1126	A
55	DA	1127	A
55	DA	1128	A
55	DA	1131	G
55	DA	1135	C
55	DA	1136	G
55	DA	1142	U
55	DA	1142(A)	A
55	DA	1143	A
55	DA	1144	G
55	DA	1152	C
55	DA	1155	A
55	DA	1156	A
55	DA	1157	G
55	DA	1170	G
55	DA	1173	G
55	DA	1174	A
55	DA	1175	U
55	DA	1176	G
55	DA	1178	C
55	DA	1179	C
55	DA	1180	C
55	DA	1181	C
55	DA	1195	G
55	DA	1204	A
55	DA	1205	U
55	DA	1206	G
55	DA	1211	U
55	DA	1212	G
55	DA	1213	A
55	DA	1220	A
55	DA	1221	C
55	DA	1236	G
55	DA	1237	A
55	DA	1238	G
55	DA	1241	A
55	DA	1242	A
55	DA	1247	A
55	DA	1248	G
55	DA	1249	U

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Mol	Chain	Res	Type
55	DA	1251	C
55	DA	1252	G
55	DA	1253	A
55	DA	1254	A
55	DA	1256	G
55	DA	1265	A
55	DA	1266	G
55	DA	1269	A
55	DA	1271	G
55	DA	1272	A
55	DA	1273	U
55	DA	1275	A
55	DA	1276	A
55	DA	1281	G
55	DA	1286	A
55	DA	1288	U
55	DA	1289	C
55	DA	1300	U
55	DA	1301	A
55	DA	1302	A
55	DA	1303	G
55	DA	1311	G
55	DA	1313	U
55	DA	1314	C
55	DA	1319	G
55	DA	1320	C
55	DA	1321	A
55	DA	1325	G
55	DA	1326	U
55	DA	1327	C
55	DA	1329	U
55	DA	1330	C
55	DA	1333	C
55	DA	1334	G
55	DA	1340	U
55	DA	1341	U
55	DA	1342	A
55	DA	1343	G
55	DA	1344	G
55	DA	1345	C
55	DA	1349	A
55	DA	1359	A

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Mol	Chain	Res	Type
55	DA	1360	A
55	DA	1365	A
55	DA	1368	G
55	DA	1372	U
55	DA	1379	A
55	DA	1380	G
55	DA	1384	A
55	DA	1385	G
55	DA	1386	C
55	DA	1389	G
55	DA	1395	A
55	DA	1396	U
55	DA	1397	U
55	DA	1398	C
55	DA	1406	U
55	DA	1407	C
55	DA	1411	C
55	DA	1416	G
55	DA	1419	A
55	DA	1420	U
55	DA	1421	G
55	DA	1427	A
55	DA	1428	C
55	DA	1429	G
55	DA	1444(A)	A
55	DA	1449	A
55	DA	1449(A)	G
55	DA	1451	C
55	DA	1453	A
55	DA	1454	U
55	DA	1455	G
55	DA	1459	G
55	DA	1460	A
55	DA	1461	G
55	DA	1467	C
55	DA	1471	A
55	DA	1475	G
55	DA	1482	U
55	DA	1483	G
55	DA	1485	G
55	DA	1490	A
55	DA	1491	G

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Mol	Chain	Res	Type
55	DA	1493	C
55	DA	1494	A
55	DA	1497	U
55	DA	1505	C
55	DA	1506	C
55	DA	1508	A
55	DA	1510	A
55	DA	1511	A
55	DA	1514	U
55	DA	1527	G
55	DA	1533	C
55	DA	1534	G
55	DA	1535	U
55	DA	1536	A
55	DA	1537	C
55	DA	1543	A
55	DA	1544	C
55	DA	1545	A
55	DA	1555	G
55	DA	1558	A
55	DA	1559	G
55	DA	1560	G
55	DA	1565	C
55	DA	1566	A
55	DA	1567	A
55	DA	1568	G
55	DA	1569	A
55	DA	1578	U
55	DA	1579	A
55	DA	1585	C
55	DA	1586	A
55	DA	1598	C
55	DA	1603	A
55	DA	1607	C
55	DA	1608	A
55	DA	1609	A
55	DA	1611	C
55	DA	1615	C
55	DA	1616	A
55	DA	1617	C
55	DA	1618	A
55	DA	1619	G

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Mol	Chain	Res	Type
55	DA	1634	A
55	DA	1635	G
55	DA	1640	C
55	DA	1647	G
55	DA	1648	C
55	DA	1652	A
55	DA	1653	G
55	DA	1654	A
55	DA	1667	G
55	DA	1668	A
55	DA	1674	G
55	DA	1675	C
55	DA	1676	A
55	DA	1682	G
55	DA	1693	U
55	DA	1694	C
55	DA	1695	G
55	DA	1698	A
55	DA	1699	G
55	DA	1700	A
55	DA	1706	U
55	DA	1707	G
55	DA	1725	G
55	DA	1729	A
55	DA	1730	U
55	DA	1731	G
55	DA	1733	G
55	DA	1735	C
55	DA	1742	C
55	DA	1743	G
55	DA	1758	G
55	DA	1759	A
55	DA	1763	G
55	DA	1764	G
55	DA	1773	A
55	DA	1780	A
55	DA	1781	C
55	DA	1782	C
55	DA	1785	A
55	DA	1786	A
55	DA	1787	A
55	DA	1791	A

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Mol	Chain	Res	Type
55	DA	1799	G
55	DA	1800	C
55	DA	1801	G
55	DA	1802	A
55	DA	1815	A
55	DA	1816	G
55	DA	1819	A
55	DA	1820	U
55	DA	1821	A
55	DA	1828	G
55	DA	1829	A
55	DA	1833	U
55	DA	1835	G
55	DA	1839	G
55	DA	1847	A
55	DA	1848	A
55	DA	1858	G
55	DA	1869	G
55	DA	1870	C
55	DA	1878	G
55	DA	1880	C
55	DA	1882	C
55	DA	1885	A
55	DA	1888	G
55	DA	1900	A
55	DA	1906	G
55	DA	1912	A
55	DA	1913	A
55	DA	1914	C
55	DA	1918	A
55	DA	1919	A
55	DA	1930	G
55	DA	1931	U
55	DA	1934	C
55	DA	1935	G
55	DA	1937	A
55	DA	1938	A
55	DA	1939	U
55	DA	1940	U
55	DA	1941	C
55	DA	1943	U
55	DA	1944	U

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Mol	Chain	Res	Type
55	DA	1945	G
55	DA	1954	G
55	DA	1955	U
55	DA	1956	U
55	DA	1963	U
55	DA	1964	G
55	DA	1965	C
55	DA	1966	A
55	DA	1967	C
55	DA	1969	A
55	DA	1970	A
55	DA	1971	A
55	DA	1972	A
55	DA	1980	G
55	DA	1981	A
55	DA	1982	C
55	DA	1986	A
55	DA	1993	U
55	DA	1997	G
55	DA	2020	A
55	DA	2021	C
55	DA	2022	U
55	DA	2023	G
55	DA	2031	A
55	DA	2032	G
55	DA	2033	A
55	DA	2034	U
55	DA	2036	C
55	DA	2043	C
55	DA	2044	C
55	DA	2051	A
55	DA	2052	G
55	DA	2055	C
55	DA	2056	G
55	DA	2059	A
55	DA	2060	A
55	DA	2061	G
55	DA	2062	A
55	DA	2067	G
55	DA	2068	U
55	DA	2069	G
55	DA	2092	U

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Mol	Chain	Res	Type
55	DA	2093	G
55	DA	2099	U
55	DA	2111	C
55	DA	2113	U
55	DA	2114	A
55	DA	2115	G
55	DA	2116	G
55	DA	2118	U
55	DA	2120	G
55	DA	2126	A
55	DA	2127	G
55	DA	2128	C
55	DA	2132	U
55	DA	2133	G
55	DA	2135	A
55	DA	2136	C
55	DA	2146	C
55	DA	2147	G
55	DA	2159	G
55	DA	2166	G
55	DA	2167	U
55	DA	2168	G
55	DA	2171	A
55	DA	2173	A
55	DA	2176	A
55	DA	2190	G
55	DA	2198	A
55	DA	2199	A
55	DA	2210	G
55	DA	2211	G
55	DA	2212	A
55	DA	2213	U
55	DA	2215	G
55	DA	2225	A
55	DA	2226	C
55	DA	2239	G
55	DA	2245	U
55	DA	2251	G
55	DA	2259	G
55	DA	2275	C
55	DA	2283	C
55	DA	2286	A

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Mol	Chain	Res	Type
55	DA	2288	A
55	DA	2289	G
55	DA	2290	G
55	DA	2296	U
55	DA	2297	C
55	DA	2305	A
55	DA	2307	G
55	DA	2308	G
55	DA	2309	A
55	DA	2311	A
55	DA	2319	G
55	DA	2320	A
55	DA	2321	G
55	DA	2325	G
55	DA	2326	C
55	DA	2334	G
55	DA	2335	A
55	DA	2336	A
55	DA	2337	G
55	DA	2345	G
55	DA	2346	A
55	DA	2347	C
55	DA	2350	C
55	DA	2382	G
55	DA	2383	G
55	DA	2384	G
55	DA	2385	C
55	DA	2390	U
55	DA	2392	A
55	DA	2402	C
55	DA	2403	C
55	DA	2406	U
55	DA	2407	G
55	DA	2424	C
55	DA	2425	A
55	DA	2426	A
55	DA	2427	C
55	DA	2429	G
55	DA	2430	A
55	DA	2432	A
55	DA	2435	A
55	DA	2439	A

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Mol	Chain	Res	Type
55	DA	2440	C
55	DA	2441	C
55	DA	2447	G
55	DA	2448	A
55	DA	2449	U
55	DA	2450	A
55	DA	2458	G
55	DA	2459	A
55	DA	2469	A
55	DA	2470	G
55	DA	2474	C
55	DA	2475	C
55	DA	2476	A
55	DA	2478	A
55	DA	2482	G
55	DA	2483	C
55	DA	2484	G
55	DA	2491	U
55	DA	2497	A
55	DA	2502	G
55	DA	2503	A
55	DA	2504	U
55	DA	2505	G
55	DA	2506	U
55	DA	2507	C
55	DA	2508	G
55	DA	2517	C
55	DA	2518	A
55	DA	2519	U
55	DA	2520	C
55	DA	2529	G
55	DA	2531	A
55	DA	2534	A
55	DA	2542	A
55	DA	2543	G
55	DA	2554	U
55	DA	2567	G
55	DA	2573	C
55	DA	2581	G
55	DA	2582	G
55	DA	2585	U
55	DA	2586	C

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Mol	Chain	Res	Type
55	DA	2599	G
55	DA	2602	A
55	DA	2609	U
55	DA	2610	C
55	DA	2611	U
55	DA	2612	C
55	DA	2613	U
55	DA	2614	A
55	DA	2615	U
55	DA	2629	A
55	DA	2645	G
55	DA	2646	C
55	DA	2654	A
55	DA	2655	G
55	DA	2665	A
55	DA	2673	G
55	DA	2675	A
55	DA	2682	U
55	DA	2690	C
55	DA	2691	C
55	DA	2702	U
55	DA	2703	C
55	DA	2712	U
55	DA	2712(A)	A
55	DA	2713	A
55	DA	2714	G
55	DA	2726	U
55	DA	2730	C
55	DA	2733	A
55	DA	2750	A
55	DA	2751	G
55	DA	2752	C
55	DA	2756	U
55	DA	2757	A
55	DA	2758	A
55	DA	2761	G
55	DA	2765	A
55	DA	2766	G
55	DA	2776	A
55	DA	2777	G
55	DA	2778	A
55	DA	2779	U

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Mol	Chain	Res	Type
55	DA	2780	G
55	DA	2781	A
55	DA	2790	A
55	DA	2791	C
55	DA	2793	G
55	DA	2797	U
55	DA	2799	A
55	DA	2820	A
55	DA	2833	G
55	DA	2834	G
55	DA	2835	A
55	DA	2836	U
55	DA	2845	G
55	DA	2848	G
55	DA	2849	U
55	DA	2866	U
55	DA	2867	G
55	DA	2872	G
55	DA	2874	C
55	DA	2879	C
55	DA	2880	C
55	DA	2892	A
55	DA	2894	G
2	DB	10	C
2	DB	12	C
2	DB	13	A
2	DB	15	A
2	DB	21	G
2	DB	24	G
2	DB	25	A
2	DB	27	C
2	DB	34	U
2	DB	35	U
2	DB	40	U
2	DB	41	U
2	DB	42	C
2	DB	45	A
2	DB	52	A
2	DB	53	A
2	DB	56	G
2	DB	57	A
2	DB	66	A

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Mol	Chain	Res	Type
2	DB	67	G
2	DB	73	A
2	DB	75	G
2	DB	81	G
2	DB	88	C
2	DB	89	G
2	DB	109	G
2	DB	112	G

All (1016) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	13	A
1	AA	27	G
1	AA	33	U
1	AA	34	C
1	AA	49	A
1	AA	51	G
1	AA	60	G
1	AA	70	G
1	AA	71	A
1	AA	72	U
1	AA	74	A
1	AA	83	G
1	AA	84	A
1	AA	119	A
1	AA	120	U
1	AA	125	G
1	AA	128	C
1	AA	139	G
1	AA	177	G
1	AA	196	A
1	AA	199	A
1	AA	204	A
1	AA	205	G
1	AA	214	G
1	AA	215	G
1	AA	221	A
1	AA	222	A
1	AA	227	A
1	AA	241	A
1	AA	242	G

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Mol	Chain	Res	Type
1	AA	249	C
1	AA	265	A
1	AA	271(B)	G
1	AA	278	A
1	AA	283	A
1	AA	301	G
1	AA	321	G
1	AA	322	A
1	AA	323	G
1	AA	329	G
1	AA	331	A
1	AA	332	A
1	AA	345	A
1	AA	352	G
1	AA	363(F)	A
1	AA	370	G
1	AA	371	A
1	AA	387	U
1	AA	390	A
1	AA	403	U
1	AA	404	C
1	AA	411	G
1	AA	421	U
1	AA	434	U
1	AA	442	G
1	AA	446	G
1	AA	447	A
1	AA	448	U
1	AA	454	A
1	AA	455	C
1	AA	456	C
1	AA	458	G
1	AA	474	G
1	AA	479	A
1	AA	503	A
1	AA	506	G
1	AA	508	G
1	AA	527	C
1	AA	529	A
1	AA	531	C
1	AA	532	A
1	AA	571	A

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Mol	Chain	Res	Type
1	AA	573	G
1	AA	574	C
1	AA	587	C
1	AA	603	A
1	AA	616	A
1	AA	620	G
1	AA	627	A
1	AA	637	A
1	AA	654(F)	C
1	AA	654(J)	A
1	AA	654(M)	C
1	AA	654(S)	G
1	AA	669	G
1	AA	670	A
1	AA	685	A
1	AA	686	G
1	AA	704	G
1	AA	726	G
1	AA	728	G
1	AA	739	G
1	AA	746	A
1	AA	752	A
1	AA	762	U
1	AA	764	A
1	AA	775	G
1	AA	776	G
1	AA	788	A
1	AA	789	A
1	AA	790	C
1	AA	791	C
1	AA	792	G
1	AA	793	A
1	AA	800	A
1	AA	801	G
1	AA	805	G
1	AA	811	U
1	AA	829	A
1	AA	830	G
1	AA	846	C
1	AA	856	C
1	AA	858	U
1	AA	859	G

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Mol	Chain	Res	Type
1	AA	865	C
1	AA	877	U
1	AA	888	C
1	AA	893	C
1	AA	896	A
1	AA	913	U
1	AA	930	U
1	AA	932	G
1	AA	945	A
1	AA	957	A
1	AA	961	C
1	AA	973	A
1	AA	974(A)	C
1	AA	989	G
1	AA	1008	C
1	AA	1020	A
1	AA	1022	G
1	AA	1060	U
1	AA	1085	A
1	AA	1126	A
1	AA	1130	U
1	AA	1156	A
1	AA	1171	G
1	AA	1173	G
1	AA	1204	A
1	AA	1205	U
1	AA	1210	A
1	AA	1212	G
1	AA	1236	G
1	AA	1237	A
1	AA	1247	A
1	AA	1248	G
1	AA	1250	G
1	AA	1251	C
1	AA	1272	A
1	AA	1275	A
1	AA	1286	A
1	AA	1288	U
1	AA	1300	U
1	AA	1301	A
1	AA	1302	A
1	AA	1312	U

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Mol	Chain	Res	Type
1	AA	1320	C
1	AA	1325	G
1	AA	1329	U
1	AA	1332	G
1	AA	1340	U
1	AA	1344	G
1	AA	1372	U
1	AA	1378	A
1	AA	1379	A
1	AA	1385	G
1	AA	1396	U
1	AA	1397	U
1	AA	1427	A
1	AA	1428	C
1	AA	1451	C
1	AA	1453	A
1	AA	1454	U
1	AA	1490	A
1	AA	1493	C
1	AA	1497	U
1	AA	1554	A
1	AA	1558	A
1	AA	1565	C
1	AA	1566	A
1	AA	1567	A
1	AA	1602	U
1	AA	1607	C
1	AA	1608	A
1	AA	1609	A
1	AA	1610	A
1	AA	1615	C
1	AA	1617	C
1	AA	1618	A
1	AA	1634	A
1	AA	1647	G
1	AA	1652	A
1	AA	1653	G
1	AA	1668	A
1	AA	1674	G
1	AA	1681	G
1	AA	1693	U
1	AA	1694	C

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Mol	Chain	Res	Type
1	AA	1698	A
1	AA	1699	G
1	AA	1706	U
1	AA	1758	G
1	AA	1762	A
1	AA	1780	A
1	AA	1784	A
1	AA	1786	A
1	AA	1799	G
1	AA	1800	C
1	AA	1801	G
1	AA	1815	A
1	AA	1818	U
1	AA	1819	A
1	AA	1820	U
1	AA	1900	A
1	AA	1918	A
1	AA	1929	G
1	AA	1930	G
1	AA	1936	A
1	AA	1937	A
1	AA	1938	A
1	AA	1939	U
1	AA	1940	U
1	AA	1943	U
1	AA	1944	U
1	AA	1954	G
1	AA	1955	U
1	AA	1962	C
1	AA	1963	U
1	AA	1964	G
1	AA	1966	A
1	AA	1970	A
1	AA	1980	G
1	AA	1992	G
1	AA	1996	C
1	AA	2021	C
1	AA	2022	U
1	AA	2032	G
1	AA	2033	A
1	AA	2035	G
1	AA	2051	A

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Mol	Chain	Res	Type
1	AA	2060	A
1	AA	2061	G
1	AA	2062	A
1	AA	2067	G
1	AA	2092	U
1	AA	2110	G
1	AA	2126	A
1	AA	2158	A
1	AA	2191	G
1	AA	2210	G
1	AA	2211	G
1	AA	2225	A
1	AA	2238	G
1	AA	2249	U
1	AA	2250	G
1	AA	2258	C
1	AA	2266	A
1	AA	2275	C
1	AA	2282	G
1	AA	2286	A
1	AA	2288	A
1	AA	2296	U
1	AA	2311	A
1	AA	2319	G
1	AA	2334	G
1	AA	2336	A
1	AA	2344	U
1	AA	2345	G
1	AA	2346	A
1	AA	2384	G
1	AA	2391	G
1	AA	2405	G
1	AA	2406	U
1	AA	2422	A
1	AA	2423	U
1	AA	2425	A
1	AA	2426	A
1	AA	2439	A
1	AA	2447	G
1	AA	2448	A
1	AA	2449	U
1	AA	2458	G

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Mol	Chain	Res	Type
1	AA	2481	G
1	AA	2490	G
1	AA	2497	A
1	AA	2503	A
1	AA	2506	U
1	AA	2517	C
1	AA	2518	A
1	AA	2519	U
1	AA	2566	A
1	AA	2572	A
1	AA	2581	G
1	AA	2602	A
1	AA	2609	U
1	AA	2610	C
1	AA	2613	U
1	AA	2614	A
1	AA	2655	G
1	AA	2681	C
1	AA	2689	U
1	AA	2690	C
1	AA	2712	U
1	AA	2713	A
1	AA	2756	U
1	AA	2776	A
1	AA	2778	A
1	AA	2779	U
1	AA	2780	G
1	AA	2790	A
1	AA	2835	A
1	AA	2848	G
1	AA	2849	U
1	AA	2859	G
1	AA	2866	U
1	AA	2867	G
1	AA	2873	A
1	AA	2879	C
2	AB	11	C
2	AB	12	C
2	AB	34	U
2	AB	56	G
2	AB	66	A
2	AB	108	C

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Mol	Chain	Res	Type
31	BA	4	U
31	BA	5	U
31	BA	7	G
31	BA	13	U
31	BA	30	U
31	BA	31	G
31	BA	47	C
31	BA	48	C
31	BA	49	U
31	BA	50	A
31	BA	51	A
31	BA	60	A
31	BA	65	U
31	BA	86	U
31	BA	89	U
31	BA	109	A
31	BA	115	G
31	BA	119	A
31	BA	121	C
31	BA	129(A)	G
31	BA	173	U
31	BA	181	G
31	BA	197	A
31	BA	201	C
31	BA	208	U
31	BA	209	U
31	BA	210	U
31	BA	243	A
31	BA	244	U
31	BA	246	A
31	BA	250	A
31	BA	251	G
31	BA	274	A
31	BA	279	A
31	BA	280	C
31	BA	305	G
31	BA	327	A
31	BA	328	C
31	BA	329	A
31	BA	351	G
31	BA	366	C
31	BA	367	U

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Mol	Chain	Res	Type
31	BA	372	C
31	BA	388	G
31	BA	410	G
31	BA	412	A
31	BA	428	G
31	BA	429	U
31	BA	451	A
31	BA	481	G
31	BA	484	G
31	BA	495	A
31	BA	498	A
31	BA	508	C
31	BA	509	A
31	BA	518	C
31	BA	531	U
31	BA	532	A
31	BA	533	A
31	BA	535	A
31	BA	547	A
31	BA	559	A
31	BA	560	U
31	BA	562	C
31	BA	566	G
31	BA	575	G
31	BA	576	G
31	BA	631	G
31	BA	632	A
31	BA	641	U
31	BA	653	A
31	BA	687	A
31	BA	701	C
31	BA	748	C
31	BA	753	A
31	BA	792	A
31	BA	812	C
31	BA	815	A
31	BA	817	C
31	BA	818	G
31	BA	819	A
31	BA	820	U
31	BA	870	U
31	BA	871	U

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Mol	Chain	Res	Type
31	BA	872	A
31	BA	873	A
31	BA	913	A
31	BA	934	C
31	BA	965	A
31	BA	968	A
31	BA	975	A
31	BA	982	U
31	BA	992	U
31	BA	1023	G
31	BA	1027	C
31	BA	1049	U
31	BA	1065	U
31	BA	1067	A
31	BA	1085	U
31	BA	1101	A
31	BA	1124	G
31	BA	1126	U
31	BA	1139	G
31	BA	1182	G
31	BA	1201	A
31	BA	1214	C
31	BA	1224	G
31	BA	1226	C
31	BA	1239	A
31	BA	1256	A
31	BA	1281	U
31	BA	1285	A
31	BA	1297	C
31	BA	1302	U
31	BA	1346	A
31	BA	1347	G
31	BA	1363	A
31	BA	1380	U
31	BA	1394	A
31	BA	1396	A
31	BA	1399	C
31	BA	1400	C
31	BA	1452	C
31	BA	1498	U
31	BA	1502	A
31	BA	1503	A

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Mol	Chain	Res	Type
31	BA	1504	G
31	BA	1506	U
31	BA	1528	U
31	BA	1529	G
52	BD	8	U
52	BD	9	A
52	BD	58	A
52	BB	7	A
52	BB	8	U
52	BB	9	A
52	BB	10	G
52	BB	18	G
52	BB	19	G
52	BB	58	A
52	BB	74	C
52	BC	7	A
52	BC	9	A
52	BC	18	G
52	BC	43	C
52	BC	46	G
52	BC	58	A
53	B1	42	U
53	B1	51	U
53	B1	53	U
53	B1	56	U
54	CA	7	G
54	CA	30	U
54	CA	31	G
54	CA	47	C
54	CA	48	C
54	CA	49	U
54	CA	50	A
54	CA	51	A
54	CA	60	A
54	CA	64	G
54	CA	65	U
54	CA	85	U
54	CA	89	U
54	CA	109	A
54	CA	115	G
54	CA	119	A
54	CA	121	C

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Mol	Chain	Res	Type
54	CA	173	U
54	CA	197	A
54	CA	243	A
54	CA	244	U
54	CA	246	A
54	CA	250	A
54	CA	251	G
54	CA	266	G
54	CA	274	A
54	CA	279	A
54	CA	280	C
54	CA	281	G
54	CA	305	G
54	CA	315	A
54	CA	327	A
54	CA	328	C
54	CA	329	A
54	CA	351	G
54	CA	366	C
54	CA	367	U
54	CA	372	C
54	CA	388	G
54	CA	410	G
54	CA	412	A
54	CA	428	G
54	CA	429	U
54	CA	451	A
54	CA	481	G
54	CA	484	G
54	CA	485	G
54	CA	495	A
54	CA	496	A
54	CA	498	A
54	CA	508	C
54	CA	509	A
54	CA	511	C
54	CA	517	G
54	CA	530	G
54	CA	531	U
54	CA	533	A
54	CA	535	A
54	CA	547	A

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Mol	Chain	Res	Type
54	CA	559	A
54	CA	560	U
54	CA	562	C
54	CA	566	G
54	CA	575	G
54	CA	576	G
54	CA	595	G
54	CA	630	G
54	CA	631	G
54	CA	641	U
54	CA	653	A
54	CA	687	A
54	CA	701	C
54	CA	703	G
54	CA	717	C
54	CA	721	G
54	CA	748	C
54	CA	753	A
54	CA	792	A
54	CA	812	C
54	CA	815	A
54	CA	817	C
54	CA	819	A
54	CA	820	U
54	CA	871	U
54	CA	873	A
54	CA	884	U
54	CA	889	A
54	CA	890	G
54	CA	913	A
54	CA	934	C
54	CA	960	U
54	CA	965	A
54	CA	968	A
54	CA	971	G
54	CA	975	A
54	CA	976	G
54	CA	982	U
54	CA	992	U
54	CA	993	G
54	CA	1027	C
54	CA	1049	U

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Mol	Chain	Res	Type
54	CA	1054	C
54	CA	1064	G
54	CA	1065	U
54	CA	1067	A
54	CA	1085	U
54	CA	1094	G
54	CA	1101	A
54	CA	1139	G
54	CA	1159	U
54	CA	1182	G
54	CA	1200	C
54	CA	1201	A
54	CA	1214	C
54	CA	1224	G
54	CA	1226	C
54	CA	1239	A
54	CA	1280	A
54	CA	1285	A
54	CA	1297	C
54	CA	1300	G
54	CA	1345	U
54	CA	1347	G
54	CA	1363	A
54	CA	1380	U
54	CA	1394	A
54	CA	1396	A
54	CA	1399	C
54	CA	1400	C
54	CA	1443	G
54	CA	1452	C
54	CA	1498	U
54	CA	1502	A
54	CA	1503	A
54	CA	1504	G
54	CA	1506	U
54	CA	1528	U
54	CA	1529	G
52	CD	2	C
52	CD	8	U
52	CD	18	G
52	CD	45	U
52	CD	58	A

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Mol	Chain	Res	Type
52	CB	7	A
52	CB	8	U
52	CB	9	A
52	CB	10	G
52	CB	18	G
52	CB	19	G
52	CB	58	A
52	CB	74	C
52	CC	7	A
52	CC	9	A
52	CC	19	G
52	CC	20	U
52	CC	46	G
52	CC	48	C
52	CC	58	A
53	C1	31	A
53	C1	42	U
53	C1	44	U
53	C1	56	U
55	DA	13	A
55	DA	27	G
55	DA	33	U
55	DA	34	C
55	DA	49	A
55	DA	50	U
55	DA	51	G
55	DA	60	G
55	DA	63	U
55	DA	70	G
55	DA	71	A
55	DA	72	U
55	DA	74	A
55	DA	84	A
55	DA	90	U
55	DA	99	U
55	DA	101	G
55	DA	119	A
55	DA	120	U
55	DA	125	G
55	DA	139	G
55	DA	177	G
55	DA	196	A

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Mol	Chain	Res	Type
55	DA	199	A
55	DA	204	A
55	DA	205	G
55	DA	215	G
55	DA	221	A
55	DA	222	A
55	DA	226	G
55	DA	227	A
55	DA	228	A
55	DA	229	A
55	DA	232	G
55	DA	241	A
55	DA	242	G
55	DA	249	C
55	DA	265	A
55	DA	270(Z)	U
55	DA	271(B)	G
55	DA	278	A
55	DA	283	A
55	DA	301	G
55	DA	311	A
55	DA	321	G
55	DA	322	A
55	DA	323	G
55	DA	329	G
55	DA	331	A
55	DA	332	A
55	DA	345	A
55	DA	352	G
55	DA	363(F)	A
55	DA	370	G
55	DA	371	A
55	DA	372	G
55	DA	386	G
55	DA	387	U
55	DA	390	A
55	DA	403	U
55	DA	404	C
55	DA	405	U
55	DA	411	G
55	DA	421	U
55	DA	434	U

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Mol	Chain	Res	Type
55	DA	442	G
55	DA	446	G
55	DA	447	A
55	DA	448	U
55	DA	454	A
55	DA	455	C
55	DA	457	A
55	DA	458	G
55	DA	474	G
55	DA	479	A
55	DA	481	G
55	DA	503	A
55	DA	506	G
55	DA	508	G
55	DA	527	C
55	DA	528	A
55	DA	529	A
55	DA	530	G
55	DA	531	C
55	DA	532	A
55	DA	562	U
55	DA	571	A
55	DA	573	G
55	DA	574	C
55	DA	587	C
55	DA	603	A
55	DA	614	U
55	DA	616	A
55	DA	620	G
55	DA	627	A
55	DA	637	A
55	DA	654(F)	C
55	DA	654(I)	C
55	DA	654(J)	A
55	DA	654(M)	C
55	DA	654(S)	G
55	DA	669	G
55	DA	670	A
55	DA	685	A
55	DA	686	G
55	DA	704	G
55	DA	726	G

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Mol	Chain	Res	Type
55	DA	739	G
55	DA	746	A
55	DA	752	A
55	DA	762	U
55	DA	764	A
55	DA	775	G
55	DA	776	G
55	DA	788	A
55	DA	789	A
55	DA	790	C
55	DA	791	C
55	DA	792	G
55	DA	793	A
55	DA	800	A
55	DA	801	G
55	DA	805	G
55	DA	811	U
55	DA	829	A
55	DA	830	G
55	DA	846	C
55	DA	856	C
55	DA	858	U
55	DA	859	G
55	DA	865	C
55	DA	877	U
55	DA	884	C
55	DA	887	A
55	DA	888	C
55	DA	895	U
55	DA	896	A
55	DA	913	U
55	DA	930	U
55	DA	932	G
55	DA	945	A
55	DA	957	A
55	DA	961	C
55	DA	973	A
55	DA	974(A)	C
55	DA	989	G
55	DA	995	C
55	DA	1008	C
55	DA	1011	G

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Mol	Chain	Res	Type
55	DA	1012	U
55	DA	1020	A
55	DA	1022	G
55	DA	1025	G
55	DA	1026	U
55	DA	1033	U
55	DA	1056	G
55	DA	1057	A
55	DA	1060	U
55	DA	1085	A
55	DA	1126	A
55	DA	1128	A
55	DA	1130	U
55	DA	1131	G
55	DA	1142(A)	A
55	DA	1143	A
55	DA	1156	A
55	DA	1173	G
55	DA	1175	U
55	DA	1178	C
55	DA	1204	A
55	DA	1205	U
55	DA	1210	A
55	DA	1211	U
55	DA	1212	G
55	DA	1220	A
55	DA	1236	G
55	DA	1237	A
55	DA	1247	A
55	DA	1250	G
55	DA	1251	C
55	DA	1252	G
55	DA	1253	A
55	DA	1265	A
55	DA	1266	G
55	DA	1272	A
55	DA	1275	A
55	DA	1286	A
55	DA	1288	U
55	DA	1300	U
55	DA	1301	A
55	DA	1302	A

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Mol	Chain	Res	Type
55	DA	1312	U
55	DA	1320	C
55	DA	1324	G
55	DA	1325	G
55	DA	1329	U
55	DA	1332	G
55	DA	1340	U
55	DA	1341	U
55	DA	1342	A
55	DA	1344	G
55	DA	1378	A
55	DA	1379	A
55	DA	1385	G
55	DA	1396	U
55	DA	1397	U
55	DA	1427	A
55	DA	1428	C
55	DA	1451	C
55	DA	1453	A
55	DA	1454	U
55	DA	1458	C
55	DA	1490	A
55	DA	1493	C
55	DA	1497	U
55	DA	1543	A
55	DA	1544	C
55	DA	1554	A
55	DA	1558	A
55	DA	1559	G
55	DA	1565	C
55	DA	1566	A
55	DA	1567	A
55	DA	1602	U
55	DA	1607	C
55	DA	1608	A
55	DA	1609	A
55	DA	1610	A
55	DA	1615	C
55	DA	1616	A
55	DA	1617	C
55	DA	1618	A
55	DA	1634	A

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Mol	Chain	Res	Type
55	DA	1647	G
55	DA	1652	A
55	DA	1653	G
55	DA	1667	G
55	DA	1674	G
55	DA	1681	G
55	DA	1693	U
55	DA	1694	C
55	DA	1698	A
55	DA	1699	G
55	DA	1706	U
55	DA	1758	G
55	DA	1762	A
55	DA	1780	A
55	DA	1781	C
55	DA	1784	A
55	DA	1786	A
55	DA	1799	G
55	DA	1800	C
55	DA	1801	G
55	DA	1815	A
55	DA	1818	U
55	DA	1819	A
55	DA	1820	U
55	DA	1828	G
55	DA	1838	C
55	DA	1899	G
55	DA	1900	A
55	DA	1912	A
55	DA	1913	A
55	DA	1918	A
55	DA	1925	C
55	DA	1929	G
55	DA	1930	G
55	DA	1936	A
55	DA	1937	A
55	DA	1939	U
55	DA	1940	U
55	DA	1943	U
55	DA	1944	U
55	DA	1954	G
55	DA	1955	U

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Mol	Chain	Res	Type
55	DA	1962	C
55	DA	1964	G
55	DA	1966	A
55	DA	1970	A
55	DA	1980	G
55	DA	1992	G
55	DA	1996	C
55	DA	2021	C
55	DA	2022	U
55	DA	2032	G
55	DA	2033	A
55	DA	2035	G
55	DA	2051	A
55	DA	2060	A
55	DA	2061	G
55	DA	2067	G
55	DA	2092	U
55	DA	2110	G
55	DA	2126	A
55	DA	2158	A
55	DA	2197	U
55	DA	2198	A
55	DA	2210	G
55	DA	2211	G
55	DA	2225	A
55	DA	2238	G
55	DA	2249	U
55	DA	2250	G
55	DA	2258	C
55	DA	2266	A
55	DA	2275	C
55	DA	2282	G
55	DA	2286	A
55	DA	2288	A
55	DA	2296	U
55	DA	2307	G
55	DA	2308	G
55	DA	2311	A
55	DA	2318	G
55	DA	2319	G
55	DA	2320	A
55	DA	2334	G

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Mol	Chain	Res	Type
55	DA	2335	A
55	DA	2336	A
55	DA	2344	U
55	DA	2345	G
55	DA	2346	A
55	DA	2382	G
55	DA	2384	G
55	DA	2391	G
55	DA	2405	G
55	DA	2423	U
55	DA	2425	A
55	DA	2426	A
55	DA	2439	A
55	DA	2447	G
55	DA	2448	A
55	DA	2449	U
55	DA	2458	G
55	DA	2468	G
55	DA	2481	G
55	DA	2490	G
55	DA	2503	A
55	DA	2506	U
55	DA	2507	C
55	DA	2517	C
55	DA	2519	U
55	DA	2566	A
55	DA	2572	A
55	DA	2581	G
55	DA	2585	U
55	DA	2602	A
55	DA	2609	U
55	DA	2610	C
55	DA	2613	U
55	DA	2614	A
55	DA	2638	G
55	DA	2645	G
55	DA	2654	A
55	DA	2681	C
55	DA	2689	U
55	DA	2690	C
55	DA	2712	U
55	DA	2713	A

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Mol	Chain	Res	Type
55	DA	2725	A
55	DA	2726	U
55	DA	2732	G
55	DA	2750	A
55	DA	2756	U
55	DA	2776	A
55	DA	2778	A
55	DA	2790	A
55	DA	2820	A
55	DA	2832	U
55	DA	2835	A
55	DA	2848	G
55	DA	2866	U
55	DA	2873	A
55	DA	2879	C
2	DB	12	C
2	DB	24	G
2	DB	34	U
2	DB	56	G
2	DB	66	A

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

6 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
52	MIA	BB	37	52	21,31,32	1.44	2 (9%)	26,44,47	3.46	3 (11%)
52	MIA	BC	37	52	21,31,32	1.17	1 (4%)	26,44,47	3.17	3 (11%)
52	MIA	BD	37	52	21,31,32	1.68	3 (14%)	26,44,47	3.49	3 (11%)
52	MIA	CB	37	52	21,31,32	1.32	2 (9%)	26,44,47	3.95	5 (19%)
52	MIA	CC	37	52	21,31,32	1.50	3 (14%)	26,44,47	3.16	3 (11%)
52	MIA	CD	37	52	21,31,32	1.58	3 (14%)	26,44,47	3.20	3 (11%)

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
52	MIA	BB	37	52	-	0/11/33/34	0/3/3/3
52	MIA	BC	37	52	-	0/11/33/34	0/3/3/3
52	MIA	BD	37	52	-	2/11/33/34	0/3/3/3
52	MIA	CB	37	52	-	0/11/33/34	0/3/3/3
52	MIA	CC	37	52	-	0/11/33/34	0/3/3/3
52	MIA	CD	37	52	-	2/11/33/34	0/3/3/3

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	BC	37	MIA	C13-C12	-4.13	1.34	1.52
52	BD	37	MIA	C13-C12	-4.03	1.34	1.52
52	CC	37	MIA	C13-C12	-3.93	1.34	1.52
52	BB	37	MIA	C13-C12	-3.87	1.35	1.52
52	CD	37	MIA	C13-C12	-3.81	1.35	1.52
52	CB	37	MIA	C13-C12	-3.79	1.35	1.52
52	CC	37	MIA	C6-N1	2.03	1.35	1.33
52	CD	37	MIA	C6-N1	2.05	1.35	1.33
52	BD	37	MIA	C6-N1	2.24	1.36	1.33
52	CB	37	MIA	C2-S10	3.78	1.79	1.75
52	BB	37	MIA	C2-S10	4.24	1.79	1.75
52	CC	37	MIA	C2-S10	4.64	1.79	1.75
52	CD	37	MIA	C2-S10	5.27	1.80	1.75
52	BD	37	MIA	C2-S10	5.70	1.80	1.75

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	CB	37	MIA	C12-N6-C6	-15.82	103.74	123.42
52	BC	37	MIA	C12-N6-C6	-12.54	107.82	123.42
52	BD	37	MIA	C12-N6-C6	-12.11	108.35	123.42
52	BB	37	MIA	C12-N6-C6	-11.15	109.55	123.42
52	CC	37	MIA	C12-N6-C6	-10.52	110.33	123.42
52	CD	37	MIA	C12-N6-C6	-9.88	111.12	123.42
52	CB	37	MIA	C5-C6-N1	-2.87	117.52	120.48
52	CD	37	MIA	C5-C6-N1	-2.85	117.54	120.48
52	BD	37	MIA	C5-C6-N1	-2.76	117.63	120.48
52	BC	37	MIA	C5-C6-N1	-2.68	117.72	120.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	BB	37	MIA	C5-C6-N1	-2.66	117.74	120.48
52	CC	37	MIA	C5-C6-N1	-2.62	117.78	120.48
52	CB	37	MIA	C2-N1-C6	2.12	119.58	113.35
52	CB	37	MIA	C5-C6-N6	2.90	125.23	120.47
52	BC	37	MIA	C11-S10-C2	8.73	107.86	102.26
52	CB	37	MIA	C11-S10-C2	10.96	109.29	102.26
52	CC	37	MIA	C11-S10-C2	10.99	109.30	102.26
52	CD	37	MIA	C11-S10-C2	11.94	109.92	102.26
52	BD	37	MIA	C11-S10-C2	12.00	109.95	102.26
52	BB	37	MIA	C11-S10-C2	12.30	110.15	102.26

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
52	CD	37	MIA	N3-C2-S10-C11
52	CD	37	MIA	N1-C2-S10-C11
52	BD	37	MIA	N1-C2-S10-C11
52	BD	37	MIA	N3-C2-S10-C11

There are no ring outliers.

6 monomers are involved in 25 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
52	BB	37	MIA	2	0
52	BC	37	MIA	1	0
52	BD	37	MIA	8	0
52	CB	37	MIA	6	0
52	CC	37	MIA	1	0
52	CD	37	MIA	7	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 5351 ligands modelled in this entry, 5351 are monoatomic - leaving 0 for Mogul analysis.

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.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

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	AA	2909/2909 (100%)	-0.15	77 (2%) 59 35	24, 64, 192, 200	0
2	AB	122/122 (100%)	-0.25	2 (1%) 74 55	71, 95, 122, 159	0
2	DB	122/122 (100%)	-0.35	1 (0%) 87 75	43, 62, 79, 132	0
3	AD	272/276 (98%)	0.27	5 (1%) 71 50	29, 49, 71, 94	0
3	DD	272/276 (98%)	0.02	3 (1%) 82 66	15, 35, 58, 78	0
4	AE	205/206 (99%)	1.07	44 (21%) 1 0	41, 77, 115, 121	0
4	DE	205/206 (99%)	0.40	10 (4%) 33 14	16, 49, 92, 103	0
5	AF	208/210 (99%)	0.44	16 (7%) 16 5	33, 67, 130, 143	0
5	DF	202/210 (96%)	-0.19	1 (0%) 91 83	10, 43, 77, 88	0
6	AG	181/182 (99%)	1.09	36 (19%) 1 0	86, 105, 124, 138	0
6	DG	181/182 (99%)	0.23	7 (3%) 43 21	55, 70, 98, 109	0
7	AH	170/180 (94%)	2.84	95 (55%) 0 0	124, 158, 180, 187	0
7	DH	170/180 (94%)	0.38	9 (5%) 30 13	48, 84, 96, 100	0
8	AK	146/148 (98%)	0.50	11 (7%) 17 6	58, 93, 117, 128	0
8	DK	146/148 (98%)	0.65	15 (10%) 9 3	46, 93, 108, 114	0
9	AM	138/140 (98%)	1.42	32 (23%) 1 0	59, 83, 108, 111	0
9	DM	138/140 (98%)	-0.00	2 (1%) 78 60	31, 48, 85, 96	0
10	AN	122/122 (100%)	1.12	19 (15%) 3 1	42, 68, 81, 87	0
10	DN	122/122 (100%)	0.21	1 (0%) 87 75	24, 44, 58, 66	0
11	AO	150/150 (100%)	0.35	8 (5%) 30 13	43, 83, 109, 137	0
11	DO	150/150 (100%)	0.06	6 (4%) 42 20	23, 54, 87, 117	0
12	AP	141/141 (100%)	1.45	37 (26%) 1 0	49, 84, 112, 122	0
12	DP	141/141 (100%)	-0.00	4 (2%) 56 32	28, 48, 77, 95	0
13	A0	117/118 (99%)	-0.04	0 100 100	41, 60, 80, 91	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	D0	118/118 (100%)	-0.39	0 100 100	21, 47, 68, 79	0
14	AQ	111/112 (99%)	0.12	4 (3%) 46 23	71, 97, 127, 137	0
14	DQ	111/112 (99%)	0.31	8 (7%) 18 7	44, 63, 84, 97	0
15	AR	137/146 (93%)	0.12	7 (5%) 32 13	57, 77, 123, 139	0
15	DR	137/146 (93%)	0.31	5 (3%) 46 23	39, 59, 103, 134	0
16	A1	117/118 (99%)	1.10	22 (18%) 2 1	42, 76, 109, 122	0
16	D1	117/118 (99%)	-0.33	2 (1%) 73 52	25, 39, 64, 101	0
17	A2	101/101 (100%)	1.52	35 (34%) 0 0	41, 94, 110, 113	0
17	D2	101/101 (100%)	-0.07	3 (2%) 54 29	18, 60, 77, 83	0
18	AS	113/113 (100%)	0.43	3 (2%) 58 34	39, 57, 84, 106	0
18	DS	113/113 (100%)	-0.33	1 (0%) 85 72	28, 40, 64, 109	0
19	AT	92/96 (95%)	0.22	3 (3%) 50 26	45, 62, 86, 90	0
19	DT	92/96 (95%)	-0.32	0 100 100	24, 41, 60, 65	0
20	AU	102/110 (92%)	1.14	17 (16%) 2 1	58, 83, 144, 149	0
20	DU	102/110 (92%)	-0.05	5 (4%) 33 14	44, 71, 114, 123	0
21	AV	187/206 (90%)	2.74	112 (59%) 0 0	96, 128, 171, 184	0
21	DV	200/206 (97%)	0.96	38 (19%) 2 1	48, 97, 155, 163	0
22	A3	84/85 (98%)	0.27	6 (7%) 19 7	52, 71, 99, 110	0
22	D3	84/85 (98%)	-0.09	3 (3%) 46 23	25, 44, 80, 96	0
23	AZ	97/98 (98%)	0.52	11 (11%) 7 2	39, 61, 102, 111	0
23	DZ	97/98 (98%)	0.36	4 (4%) 41 19	23, 50, 98, 120	0
24	AW	69/72 (95%)	0.11	3 (4%) 39 18	48, 71, 115, 141	0
24	DW	69/72 (95%)	-0.15	1 (1%) 78 60	29, 53, 84, 104	0
25	AX	59/60 (98%)	1.55	14 (23%) 1 0	60, 81, 101, 112	0
25	DX	59/60 (98%)	-0.12	1 (1%) 73 52	32, 50, 73, 89	0
26	A4	71/71 (100%)	3.23	50 (70%) 0 0	126, 151, 157, 158	0
26	D4	71/71 (100%)	1.15	14 (19%) 1 0	95, 125, 138, 143	0
27	A5	59/60 (98%)	0.82	8 (13%) 4 2	45, 65, 140, 145	0
27	D5	59/60 (98%)	0.56	10 (16%) 2 1	19, 57, 159, 165	0
28	A6	45/54 (83%)	1.93	19 (42%) 0 0	126, 140, 154, 156	0
28	D6	45/54 (83%)	3.94	34 (75%) 0 0	86, 120, 140, 143	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	A7	49/49 (100%)	0.14	2 (4%) 41 19	30, 40, 98, 125	0
29	D7	49/49 (100%)	-0.28	2 (4%) 41 19	16, 25, 82, 109	0
30	A8	64/65 (98%)	0.47	3 (4%) 35 16	45, 64, 95, 120	0
30	D8	64/65 (98%)	-0.09	0 100 100	25, 39, 55, 98	0
31	BA	1516/1516 (100%)	-0.50	8 (0%) 91 83	32, 82, 155, 200	0
32	BE	237/256 (92%)	0.47	23 (9%) 10 3	83, 120, 159, 171	0
32	CE	237/256 (92%)	0.34	15 (6%) 23 9	65, 104, 144, 155	0
33	BF	206/239 (86%)	0.55	22 (10%) 8 3	82, 108, 137, 147	0
33	CF	205/239 (85%)	0.89	30 (14%) 3 1	54, 85, 115, 122	0
34	BG	208/209 (99%)	0.04	4 (1%) 70 48	57, 76, 93, 103	0
34	CG	208/209 (99%)	0.23	6 (2%) 55 31	62, 80, 99, 104	0
35	BH	151/162 (93%)	-0.19	1 (0%) 89 78	68, 82, 104, 117	0
35	CH	151/162 (93%)	-0.00	1 (0%) 89 78	49, 69, 99, 114	0
36	BI	101/101 (100%)	0.72	12 (11%) 6 2	55, 73, 90, 109	0
36	CI	101/101 (100%)	0.28	1 (0%) 84 69	47, 73, 83, 109	0
37	BJ	155/156 (99%)	0.52	11 (7%) 19 7	69, 93, 115, 124	0
37	CJ	155/156 (99%)	0.22	10 (6%) 22 8	59, 85, 104, 117	0
38	BK	138/138 (100%)	-0.32	0 100 100	73, 85, 101, 109	0
38	CK	138/138 (100%)	-0.31	0 100 100	56, 74, 86, 89	0
39	BL	127/128 (99%)	-0.18	4 (3%) 52 28	81, 114, 130, 141	0
39	CL	127/128 (99%)	-0.27	1 (0%) 87 75	58, 105, 125, 134	0
40	BM	99/105 (94%)	-0.28	2 (2%) 68 46	87, 121, 137, 139	0
40	CM	99/105 (94%)	0.34	8 (8%) 15 5	57, 106, 131, 133	0
41	BN	119/129 (92%)	1.16	27 (22%) 1 0	54, 77, 104, 125	0
41	CN	119/129 (92%)	0.89	16 (13%) 4 2	50, 70, 102, 120	0
42	BO	125/132 (94%)	0.74	13 (10%) 8 3	54, 74, 91, 124	0
42	CO	125/132 (94%)	0.55	15 (12%) 6 2	38, 51, 79, 111	0
43	BP	121/126 (96%)	0.51	13 (10%) 8 3	82, 118, 131, 135	0
43	CP	125/126 (99%)	0.00	5 (4%) 42 20	57, 92, 111, 123	0
44	BQ	60/61 (98%)	-0.19	0 100 100	78, 99, 117, 122	0
44	CQ	60/61 (98%)	-0.28	0 100 100	65, 76, 88, 99	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
45	BR	88/89 (98%)	-0.03	1 (1%) 82 66	52, 74, 102, 112	0
45	CR	88/89 (98%)	-0.12	1 (1%) 82 66	43, 65, 93, 95	0
46	BS	84/88 (95%)	-0.65	0 100 100	57, 71, 92, 113	0
46	CS	84/88 (95%)	-0.64	1 (1%) 81 64	53, 78, 103, 128	0
47	BT	100/105 (95%)	-0.04	3 (3%) 54 29	60, 80, 106, 128	0
47	CT	100/105 (95%)	-0.29	1 (1%) 84 69	56, 77, 94, 110	0
48	BU	72/88 (81%)	0.68	10 (13%) 4 2	59, 75, 115, 121	0
48	CU	72/88 (81%)	0.48	3 (4%) 40 19	56, 68, 105, 117	0
49	BV	83/93 (89%)	0.53	9 (10%) 8 2	112, 124, 144, 151	0
49	CV	88/93 (94%)	0.31	7 (7%) 15 5	80, 98, 123, 141	0
50	BW	99/106 (93%)	-0.42	1 (1%) 84 69	61, 88, 128, 132	0
50	CW	99/106 (93%)	-0.43	0 100 100	60, 85, 120, 124	0
51	BX	25/27 (92%)	-0.43	1 (4%) 42 20	92, 114, 122, 125	0
51	CX	25/27 (92%)	-0.52	0 100 100	84, 93, 110, 118	0
52	BB	75/76 (98%)	1.21	20 (26%) 1 0	82, 170, 186, 188	0
52	BC	75/76 (98%)	-0.04	1 (1%) 79 62	52, 85, 121, 139	0
52	BD	75/76 (98%)	0.25	4 (5%) 30 13	60, 156, 184, 192	0
52	CB	75/76 (98%)	1.14	17 (22%) 1 0	49, 148, 176, 180	0
52	CC	75/76 (98%)	0.06	2 (2%) 58 34	33, 67, 101, 114	0
52	CD	75/76 (98%)	0.64	9 (12%) 6 2	45, 151, 177, 181	0
53	B1	30/30 (100%)	0.20	2 (6%) 21 7	67, 153, 197, 198	0
53	C1	30/30 (100%)	1.05	6 (20%) 1 0	45, 141, 192, 194	0
54	CA	1515/1515 (100%)	-0.41	7 (0%) 91 83	27, 72, 153, 200	0
55	DA	2912/2912 (100%)	-0.13	55 (1%) 70 48	11, 42, 174, 200	0
56	DI	30/125 (24%)	1.46	6 (20%) 1 0	121, 127, 132, 143	0
56	DJ	30/125 (24%)	1.46	8 (26%) 1 0	124, 129, 137, 138	0
57	DY	145/173 (83%)	0.87	27 (18%) 2 1	132, 157, 169, 177	0
58	DL	145/147 (98%)	2.18	66 (45%) 0 0	128, 199, 200, 200	0
All	All	21582/22236 (97%)	0.16	1407 (6%) 22 8	10, 73, 158, 200	0

All (1407) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
55	DA	654(L)	G	18.2
55	DA	654(K)	C	17.3
1	AA	2901	C	16.4
21	AV	187	ALA	15.8
1	AA	654(I)	C	14.1
21	AV	186	GLU	14.0
1	AA	654(J)	A	13.6
1	AA	654(L)	G	13.5
55	DA	654(J)	A	13.0
27	D5	54	GLY	12.7
55	DA	654(I)	C	11.9
1	AA	2797	U	11.8
55	DA	163	U	11.4
1	AA	2900	A	11.1
7	AH	48	GLY	11.0
21	AV	184	ALA	10.8
7	AH	18	GLU	10.4
1	AA	2902	C	10.4
1	AA	654(M)	C	10.0
1	AA	654(H)	G	9.9
16	A1	91	ASP	9.8
7	AH	32	GLU	9.7
1	AA	654(K)	C	9.6
28	D6	22	ALA	9.5
7	AH	24	VAL	9.3
1	AA	2798	C	9.1
7	AH	31	GLY	9.0
9	AM	1	MET	9.0
7	AH	43	VAL	9.0
1	AA	1176	G	8.9
1	AA	2899	G	8.9
20	AU	46	LYS	8.9
1	AA	4	C	8.8
7	AH	128	PRO	8.8
55	DA	2901	C	8.6
21	AV	179	ASP	8.6
26	A4	64	GLY	8.6
1	AA	3	U	8.5
54	CA	86	U	8.5
55	DA	2798	C	8.4
1	AA	2799	A	8.3
20	AU	48	ALA	8.3
1	AA	1067	A	8.2

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Mol	Chain	Res	Type	RSRZ
21	AV	185	GLU	8.2
28	D6	29	ASN	8.0
21	AV	121	HIS	8.0
21	AV	180	VAL	8.0
1	AA	2	G	7.8
4	AE	69	LYS	7.8
7	AH	30	LYS	7.7
58	DL	147	ALA	7.7
12	AP	33	GLY	7.7
28	D6	13	CYS	7.6
58	DL	96	VAL	7.6
20	AU	47	LYS	7.6
12	AP	91	GLU	7.6
17	A2	45	THR	7.6
55	DA	654(O)	G	7.5
7	AH	99	VAL	7.5
28	D6	49	HIS	7.5
43	BP	7	VAL	7.5
1	AA	654(G)	C	7.4
26	A4	40	HIS	7.3
15	DR	2	ASN	7.3
4	DE	205	ALA	7.3
7	AH	29	PRO	7.3
7	AH	105	LEU	7.2
8	AK	146	ALA	7.2
27	A5	2	ALA	7.2
28	D6	42	TRP	7.2
16	A1	118	GLY	7.1
26	A4	45	GLY	7.0
58	DL	87	GLY	7.0
55	DA	654(H)	G	7.0
24	AW	72	ALA	7.0
57	DY	28	ASN	7.0
52	BB	71	G	7.0
55	DA	654(M)	C	7.0
57	DY	135	ARG	6.9
58	DL	97	GLY	6.9
7	AH	52	VAL	6.9
28	D6	23	THR	6.8
52	BB	76	A	6.8
21	AV	181	GLU	6.7
7	AH	53	GLU	6.7

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Mol	Chain	Res	Type	RSRZ
52	CB	71	G	6.7
7	AH	35	VAL	6.7
55	DA	164	U	6.7
21	AV	176	PRO	6.7
16	D1	117	GLN	6.5
5	AF	10	PRO	6.5
12	AP	141	GLN	6.5
28	D6	20	ASN	6.5
20	AU	49	VAL	6.5
55	DA	654(N)	G	6.5
7	AH	23	ARG	6.4
20	AU	52	SER	6.4
55	DA	654(P)	G	6.4
1	AA	1066	U	6.4
1	AA	654(F)	C	6.4
20	AU	102	CYS	6.3
58	DL	146	ASP	6.2
27	A5	59	GLU	6.2
7	AH	47	GLU	6.2
57	DY	12	THR	6.1
9	AM	134	ARG	6.1
14	AQ	2	ALA	6.1
42	BO	129	ALA	6.1
55	DA	2902	C	6.1
58	DL	51	ALA	6.1
54	CA	85	U	6.1
26	A4	44	THR	6.0
4	AE	205	ALA	6.0
28	D6	26	ASN	6.0
58	DL	48	MET	6.0
11	DO	149	GLU	6.0
21	AV	107	THR	6.0
52	BB	72	C	6.0
18	DS	113	LYS	6.0
58	DL	50	ASP	6.0
30	A8	65	GLU	6.0
1	AA	2795	G	6.0
28	A6	41	PRO	5.9
42	BO	128	ALA	5.9
21	DV	148	ASP	5.9
43	BP	84	ILE	5.9
58	DL	88	ALA	5.9

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Mol	Chain	Res	Type	RSRZ
41	BN	12	ARG	5.9
7	AH	17	VAL	5.8
26	D4	30	GLU	5.8
7	AH	49	VAL	5.8
7	AH	44	VAL	5.8
7	AH	103	LEU	5.8
42	CO	129	ALA	5.8
32	CE	231	GLU	5.7
5	AF	14	PRO	5.7
21	AV	155	LEU	5.7
1	AA	2801	A	5.7
4	AE	76	ARG	5.7
21	AV	183	LEU	5.7
25	AX	29	ARG	5.7
7	AH	39	PRO	5.7
7	AH	107	VAL	5.7
26	A4	13	ARG	5.7
21	AV	168	GLU	5.7
6	AG	182	LYS	5.7
17	D2	36	PRO	5.6
26	A4	29	PRO	5.6
26	A4	39	CYS	5.6
7	AH	98	LEU	5.6
58	DL	77	LEU	5.6
28	A6	14	THR	5.6
48	BU	88	LYS	5.5
21	AV	79	ARG	5.5
58	DL	94	GLU	5.5
11	AO	150	ALA	5.5
26	A4	37	SER	5.5
7	AH	125	VAL	5.5
21	DV	177	PRO	5.5
55	DA	654(F)	C	5.5
7	AH	25	LYS	5.4
1	AA	654(B)	C	5.4
21	AV	113	ALA	5.4
55	DA	4	C	5.4
28	D6	21	TYR	5.4
28	D6	43	CYS	5.4
17	A2	36	PRO	5.4
16	A1	89	GLU	5.4
28	D6	53	LYS	5.4

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Mol	Chain	Res	Type	RSRZ
21	AV	150	LEU	5.4
55	DA	654(G)	C	5.4
32	CE	233	SER	5.4
57	DY	83	TYR	5.4
52	BB	17	C	5.4
6	AG	2	PRO	5.4
7	AH	34	GLU	5.3
28	A6	42	TRP	5.3
55	DA	654(R)	C	5.3
28	D6	14	THR	5.3
1	AA	2790	A	5.3
49	BV	86	GLU	5.3
28	D6	32	ASN	5.3
52	CD	12	U	5.3
28	D6	41	PRO	5.3
20	AU	50	ARG	5.3
26	A4	49	PHE	5.2
21	AV	170	THR	5.2
55	DA	654(E)	C	5.2
12	AP	37	LEU	5.2
26	A4	14	ILE	5.2
30	A8	64	TYR	5.2
26	A4	46	GLN	5.2
21	AV	182	LYS	5.2
22	D3	85	ALA	5.2
21	AV	146	ILE	5.2
7	DH	83	TYR	5.1
14	DQ	109	GLY	5.1
7	AH	26	VAL	5.1
1	AA	1093	G	5.1
26	A4	28	LYS	5.1
21	AV	149	SER	5.1
21	AV	82	ARG	5.1
16	A1	117	GLN	5.1
55	DA	277	C	5.0
5	AF	12	LEU	5.0
24	AW	71	ASN	5.0
54	CA	84	U	5.0
5	AF	1	MET	5.0
53	C1	56	U	5.0
55	DA	1	G	5.0
21	DV	195	GLU	5.0

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Mol	Chain	Res	Type	RSRZ
55	DA	654(Q)	C	5.0
21	AV	165	VAL	5.0
1	AA	1098	A	5.0
3	AD	26	LYS	4.9
7	AH	11	VAL	4.9
26	A4	30	GLU	4.9
6	AG	39	ILE	4.9
28	D6	12	GLU	4.9
27	D5	58	LEU	4.9
49	CV	87	ALA	4.9
12	AP	65	PHE	4.9
41	CN	11	LYS	4.9
7	AH	33	LEU	4.9
58	DL	141	ALA	4.9
27	D5	59	GLU	4.9
7	AH	101	ARG	4.9
16	A1	90	VAL	4.9
12	AP	32	TYR	4.8
41	CN	12	ARG	4.8
58	DL	95	LYS	4.8
7	AH	123	PHE	4.8
21	AV	177	PRO	4.8
32	BE	232	PRO	4.8
26	A4	55	ARG	4.8
26	A4	27	THR	4.8
55	DA	2797	U	4.8
28	D6	34	LEU	4.8
55	DA	2799	A	4.8
15	DR	106	SER	4.8
15	AR	2	ASN	4.8
7	AH	126	PRO	4.8
21	AV	97	GLU	4.8
21	AV	122	ARG	4.8
27	D5	2	ALA	4.8
25	AX	60	GLU	4.7
21	AV	2	GLU	4.7
17	A2	101	GLY	4.7
41	BN	13	GLN	4.7
55	DA	2899	G	4.7
7	AH	19	VAL	4.7
1	AA	1177	A	4.7
7	DH	101	ARG	4.7

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Mol	Chain	Res	Type	RSRZ
7	AH	129	THR	4.7
21	AV	173	ALA	4.7
21	DV	181	GLU	4.7
58	DL	64	SER	4.7
17	A2	40	LEU	4.7
21	AV	162	GLU	4.7
14	AQ	108	GLY	4.7
6	AG	152	LEU	4.7
26	A4	18	CYS	4.7
12	AP	23	GLY	4.7
43	BP	85	GLY	4.7
4	AE	70	ALA	4.6
58	DL	45	THR	4.6
55	DA	2801	A	4.6
1	AA	1095	A	4.6
7	AH	84	SER	4.6
58	DL	90	LYS	4.6
26	A4	65	ASP	4.6
4	AE	59	VAL	4.6
12	AP	36	ALA	4.6
27	D5	53	ALA	4.6
1	AA	2896	C	4.6
43	CP	125	ARG	4.6
23	DZ	96	LYS	4.5
28	A6	13	CYS	4.5
20	AU	86	ARG	4.5
12	AP	1	MET	4.5
1	AA	1068	G	4.5
16	D1	118	GLY	4.5
26	A4	63	TYR	4.5
1	AA	654(D)	G	4.5
41	CN	129	SER	4.5
17	A2	57	VAL	4.5
12	AP	104	PHE	4.5
26	A4	42	PHE	4.5
12	AP	90	VAL	4.5
28	D6	40	CYS	4.5
58	DL	85	GLU	4.4
21	AV	118	GLN	4.4
24	AW	43	GLN	4.4
8	DK	139	GLN	4.4
9	AM	133	GLN	4.4

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Mol	Chain	Res	Type	RSRZ
48	CU	17	SER	4.4
33	CF	88	ARG	4.4
28	D6	47	THR	4.4
7	AH	114	VAL	4.4
55	DA	2900	A	4.4
37	BJ	156	TRP	4.4
23	DZ	94	LEU	4.4
21	DV	194	PRO	4.4
17	A2	1	MET	4.4
28	D6	19	ARG	4.4
58	DL	21	PRO	4.3
43	BP	8	GLU	4.3
48	CU	88	LYS	4.3
7	AH	96	ALA	4.3
52	CB	17	C	4.3
21	DV	188	ALA	4.3
5	AF	13	SER	4.3
33	CF	90	GLU	4.3
7	AH	148	ILE	4.3
52	CB	45	U	4.3
7	DH	34	GLU	4.3
27	A5	53	ALA	4.3
26	A4	31	ILE	4.3
32	BE	219	VAL	4.3
4	AE	54	GLN	4.3
16	A1	85	LYS	4.3
7	AH	81	GLU	4.3
55	DA	2795	G	4.3
3	DD	26	LYS	4.3
21	AV	172	ALA	4.3
9	AM	43	THR	4.3
21	AV	175	VAL	4.3
9	AM	9	VAL	4.3
12	AP	103	MET	4.3
52	CB	73	A	4.3
21	AV	114	GLY	4.3
49	BV	43	GLU	4.3
49	BV	44	MET	4.2
52	CD	6	G	4.2
1	AA	2898	U	4.2
26	A4	33	VAL	4.2
29	A7	49	ARG	4.2

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Mol	Chain	Res	Type	RSRZ
4	AE	77	ILE	4.2
15	DR	1	MET	4.2
58	DL	89	HIS	4.2
9	AM	8	GLN	4.2
55	DA	896	A	4.2
7	AH	116	GLU	4.2
7	AH	46	GLU	4.2
4	AE	72	VAL	4.2
52	CB	70	G	4.2
2	AB	1(M)	A	4.2
21	AV	68	PRO	4.2
37	CJ	139	GLU	4.2
56	DJ	4	ASP	4.2
20	AU	51	VAL	4.2
21	AV	161	VAL	4.2
1	AA	2793	G	4.2
47	BT	101	ARG	4.2
9	AM	10	GLU	4.2
58	DL	138	VAL	4.1
58	DL	13	PRO	4.1
28	A6	25	LYS	4.1
21	AV	178	GLU	4.1
26	A4	7	PRO	4.1
28	D6	18	ARG	4.1
11	AO	149	GLU	4.1
52	BD	17	C	4.1
21	AV	72	ARG	4.1
55	DA	887	A	4.1
55	DA	888	C	4.1
57	DY	116	ILE	4.1
41	CN	128	ALA	4.1
21	DV	147	GLY	4.0
52	BB	3	C	4.0
7	AH	140	LYS	4.0
21	AV	50	GLN	4.0
7	AH	82	GLY	4.0
14	DQ	108	GLY	4.0
7	AH	102	ALA	4.0
21	DV	179	ASP	4.0
55	DA	3	U	4.0
21	AV	156	LYS	4.0
21	AV	169	GLU	4.0

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Mol	Chain	Res	Type	RSRZ
17	A2	32	THR	4.0
33	CF	66	VAL	4.0
8	DK	146	ALA	4.0
7	AH	16	SER	4.0
58	DL	44	ALA	4.0
8	AK	76	THR	4.0
1	AA	1509	C	4.0
12	AP	105	GLU	4.0
7	DH	23	ARG	3.9
17	A2	14	VAL	3.9
21	AV	142	SER	3.9
26	A4	12	ALA	3.9
12	AP	31	ASP	3.9
41	BN	35	PRO	3.9
58	DL	27	LEU	3.9
7	AH	37	VAL	3.9
33	BF	46	GLU	3.9
58	DL	14	ALA	3.9
26	A4	10	VAL	3.9
26	A4	43	TYR	3.9
41	BN	129	SER	3.9
6	AG	178	PHE	3.9
27	D5	57	VAL	3.9
57	DY	129	PRO	3.9
21	AV	152	ALA	3.9
2	AB	88	C	3.9
21	DV	184	ALA	3.9
17	A2	99	ILE	3.9
20	AU	60	PHE	3.9
27	D5	60	VAL	3.9
58	DL	47	ASN	3.9
52	CB	72	C	3.9
7	AH	124	GLU	3.9
7	AH	95	ARG	3.9
26	A4	9	LEU	3.8
5	AF	11	VAL	3.8
28	D6	51	GLU	3.8
52	CB	76	A	3.8
58	DL	49	GLY	3.8
9	AM	37	LYS	3.8
15	DR	135	ALA	3.8
28	D6	45	LYS	3.8

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Mol	Chain	Res	Type	RSRZ
58	DL	16	LYS	3.8
12	AP	106	VAL	3.8
36	CI	101	ALA	3.8
9	AM	36	GLY	3.8
26	A4	36	CYS	3.8
10	AN	42	SER	3.8
21	AV	164	ALA	3.8
57	DY	108	LYS	3.8
33	CF	166	GLU	3.8
55	DA	165	U	3.8
26	A4	32	TYR	3.7
25	AX	30	ARG	3.7
1	AA	2794	C	3.7
25	AX	53	LEU	3.7
58	DL	104	VAL	3.7
41	CN	16	SER	3.7
27	A5	52	TYR	3.7
36	BI	1	MET	3.7
8	AK	145	VAL	3.7
4	DE	204	ALA	3.7
52	CD	5	G	3.7
52	BD	12	U	3.7
28	A6	50	ARG	3.7
28	A6	21	TYR	3.7
33	CF	101	LEU	3.7
48	BU	17	SER	3.7
6	AG	118	ARG	3.7
1	AA	1065	U	3.7
1	AA	654(O)	G	3.7
21	AV	171	ILE	3.7
28	D6	39	TYR	3.7
28	D6	50	ARG	3.7
10	AN	81	ASP	3.7
55	DA	2794	C	3.7
7	AH	83	TYR	3.7
12	AP	63	LYS	3.6
7	AH	28	GLY	3.6
28	A6	49	HIS	3.6
58	DL	79	ARG	3.6
21	AV	80	ARG	3.6
11	AO	92	GLU	3.6
43	BP	5	ALA	3.6

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Mol	Chain	Res	Type	RSRZ
58	DL	30	HIS	3.6
6	AG	166	ASP	3.6
9	AM	138	LEU	3.6
4	DE	187	ALA	3.6
57	DY	100	ASN	3.6
52	CD	13	C	3.6
7	AH	40	GLU	3.6
8	AK	140	LEU	3.6
21	AV	145	GLU	3.6
32	BE	4	GLU	3.6
24	DW	43	GLN	3.6
32	BE	228	GLY	3.6
4	AE	1	MET	3.6
32	BE	221	LEU	3.6
55	DA	270(L)	U	3.6
6	DG	182	LYS	3.6
9	DM	130	HIS	3.6
12	AP	99	PRO	3.6
57	DY	109	SER	3.6
16	A1	109	LEU	3.5
26	A4	52	THR	3.5
9	AM	41	ASP	3.5
55	DA	276	A	3.5
25	AX	28	LEU	3.5
31	BA	1029	G	3.5
1	AA	654(E)	C	3.5
12	AP	7	MET	3.5
41	BN	109	VAL	3.5
42	CO	39	VAL	3.5
4	DE	68	ALA	3.5
9	AM	12	ARG	3.5
58	DL	93	ARG	3.5
5	AF	20	LEU	3.5
9	AM	60	ILE	3.5
18	AS	113	LYS	3.5
21	AV	106	GLY	3.5
4	AE	51	PHE	3.5
16	A1	116	ALA	3.5
21	AV	138	GLU	3.5
23	AZ	98	LEU	3.5
56	DI	12	LEU	3.5
21	DV	107	THR	3.5

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Mol	Chain	Res	Type	RSRZ
26	A4	16	CYS	3.5
14	DQ	107	GLU	3.5
4	AE	85	ASN	3.5
7	AH	55	PRO	3.5
54	CA	87	A	3.5
58	DL	43	ALA	3.5
12	AP	38	GLU	3.5
20	AU	59	GLY	3.5
53	C1	28	G	3.5
32	BE	36	ARG	3.5
6	AG	179	PRO	3.4
12	AP	60	ARG	3.4
29	D7	49	ARG	3.4
6	AG	155	MET	3.4
52	BB	73	A	3.4
7	AH	9	ILE	3.4
7	AH	72	ILE	3.4
21	AV	115	GLY	3.4
52	BB	75	C	3.4
10	AN	12	ASP	3.4
14	AQ	60	GLY	3.4
55	DA	2141	G	3.4
32	CE	229	VAL	3.4
21	DV	170	THR	3.4
1	AA	5	A	3.4
33	BF	85	ARG	3.4
4	AE	198	VAL	3.4
21	AV	174	VAL	3.4
21	DV	198	LYS	3.4
40	CM	91	PRO	3.4
7	AH	41	MET	3.4
5	AF	2	LYS	3.4
7	AH	131	VAL	3.4
17	D2	45	THR	3.4
34	CG	169	LYS	3.4
26	D4	61	ARG	3.4
4	AE	68	ALA	3.4
7	AH	36	PRO	3.4
33	CF	84	ILE	3.4
41	CN	17	GLY	3.4
43	BP	6	GLY	3.4
12	AP	100	GLY	3.4

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Mol	Chain	Res	Type	RSRZ
43	BP	16	ASP	3.4
49	CV	86	GLU	3.4
27	A5	58	LEU	3.4
1	AA	2802	G	3.3
21	DV	197	ILE	3.3
7	AH	45	VAL	3.3
33	CF	58	GLU	3.3
6	AG	82	LEU	3.3
26	D4	31	ILE	3.3
56	DJ	22	GLN	3.3
4	AE	204	ALA	3.3
21	AV	124	ILE	3.3
7	AH	80	SER	3.3
8	DK	135	GLU	3.3
23	DZ	80	LEU	3.3
58	DL	26	ALA	3.3
33	BF	77	ILE	3.3
53	C1	57	U	3.3
17	A2	46	VAL	3.3
28	D6	48	VAL	3.3
58	DL	73	PRO	3.3
41	BN	17	GLY	3.3
32	BE	6	THR	3.3
28	A6	51	GLU	3.3
23	AZ	54	ALA	3.3
21	DV	106	GLY	3.3
43	CP	8	GLU	3.3
1	AA	654(N)	G	3.3
5	AF	133	ASN	3.3
4	AE	29	GLY	3.3
55	DA	162	U	3.3
21	AV	112	ARG	3.3
1	AA	1	G	3.3
21	DV	180	VAL	3.3
8	DK	72	LEU	3.3
9	AM	13	TRP	3.3
26	A4	71	ARG	3.3
42	BO	39	VAL	3.3
9	AM	51	PHE	3.3
17	A2	91	TYR	3.2
7	AH	50	VAL	3.2
26	A4	19	GLY	3.2

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Mol	Chain	Res	Type	RSRZ
7	AH	38	SER	3.2
58	DL	145	LYS	3.2
49	CV	89	ALA	3.2
55	DA	5	A	3.2
39	BL	56	LEU	3.2
57	DY	82	PHE	3.2
21	AV	127	LYS	3.2
48	BU	23	LYS	3.2
4	AE	84	PHE	3.2
28	D6	52	VAL	3.2
7	AH	170	ARG	3.2
33	BF	88	ARG	3.2
6	DG	2	PRO	3.2
9	AM	40	PRO	3.2
52	CB	2	C	3.2
21	DV	146	ILE	3.2
21	AV	144	LEU	3.2
23	AZ	2	SER	3.2
32	CE	61	LEU	3.2
7	AH	89	ILE	3.2
21	AV	56	VAL	3.2
42	CO	56	ALA	3.2
58	DL	92	GLY	3.2
49	BV	47	HIS	3.2
4	AE	74	PRO	3.2
12	AP	20	ALA	3.2
41	BN	16	SER	3.2
54	CA	345	C	3.2
4	AE	40	GLU	3.2
26	A4	53	GLU	3.2
5	AF	207	GLY	3.2
17	A2	70	ILE	3.2
58	DL	144	VAL	3.2
23	AZ	95	LEU	3.2
21	AV	140	ASP	3.2
39	CL	95	LYS	3.2
7	AH	141	VAL	3.2
10	AN	13	ASN	3.2
58	DL	17	ALA	3.2
41	BN	18	ARG	3.2
8	AK	72	LEU	3.2
17	A2	44	LYS	3.2

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Mol	Chain	Res	Type	RSRZ
17	A2	5	VAL	3.2
42	BO	64	TYR	3.2
41	CN	36	ASP	3.1
27	D5	51	TYR	3.1
33	BF	67	THR	3.1
49	CV	88	LYS	3.1
6	AG	115	ARG	3.1
42	BO	65	GLU	3.1
21	AV	160	GLY	3.1
21	AV	151	HIS	3.1
1	AA	945	A	3.1
12	AP	26	TYR	3.1
57	DY	90	ALA	3.1
8	AK	71	ILE	3.1
21	AV	71	VAL	3.1
21	AV	102	LEU	3.1
58	DL	6	ALA	3.1
23	AZ	3	LYS	3.1
58	DL	28	GLY	3.1
6	AG	116	ASP	3.1
26	A4	11	PRO	3.1
1	AA	1064	C	3.1
25	AX	8	LEU	3.1
32	BE	222	ILE	3.1
1	AA	654(C)	G	3.1
55	DA	2	G	3.1
11	DO	150	ALA	3.1
28	A6	12	GLU	3.1
28	A6	26	ASN	3.1
33	CF	98	ASN	3.1
49	BV	29	ARG	3.1
21	AV	148	ASP	3.1
21	DV	149	SER	3.1
26	A4	70	GLY	3.1
56	DI	8	ILE	3.1
52	BB	74	C	3.1
28	D6	24	GLU	3.1
41	BN	68	ALA	3.1
8	DK	140	LEU	3.1
4	AE	50	GLY	3.1
26	A4	22	ILE	3.1
58	DL	20	ALA	3.1

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Mol	Chain	Res	Type	RSRZ
8	AK	75	LEU	3.1
10	AN	57	VAL	3.1
28	A6	34	LEU	3.1
33	CF	99	VAL	3.1
36	BI	39	LYS	3.1
6	AG	34	LEU	3.1
9	AM	116	LEU	3.1
55	DA	885	C	3.1
10	AN	51	ALA	3.1
26	D4	40	HIS	3.1
33	CF	87	LEU	3.1
10	AN	65	THR	3.0
31	BA	1028(B)	C	3.0
34	BG	179	GLU	3.0
7	AH	76	VAL	3.0
53	B1	55	U	3.0
25	AX	55	ARG	3.0
21	AV	86	VAL	3.0
42	BO	55	VAL	3.0
5	AF	208	GLY	3.0
33	CF	19	GLU	3.0
58	DL	25	PRO	3.0
6	AG	145	THR	3.0
20	AU	45	VAL	3.0
32	CE	133	LYS	3.0
26	A4	20	ASN	3.0
33	CF	102	ASN	3.0
21	AV	163	LEU	3.0
21	AV	99	TYR	3.0
26	A4	21	VAL	3.0
33	BF	84	ILE	3.0
37	CJ	52	GLU	3.0
52	BB	70	G	3.0
32	BE	220	ASP	3.0
21	AV	69	THR	3.0
26	A4	25	TYR	3.0
49	CV	61	TYR	3.0
28	D6	25	LYS	3.0
3	DD	34	VAL	3.0
10	AN	52	VAL	3.0
6	AG	157	ILE	3.0
42	CO	28	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
21	DV	191	VAL	3.0
5	AF	7	TYR	3.0
52	CD	11	C	3.0
17	A2	35	LEU	3.0
17	A2	56	SER	3.0
9	DM	134	ARG	3.0
21	AV	4	ARG	3.0
21	AV	154	ASP	3.0
43	CP	123	ALA	3.0
58	DL	74	ALA	3.0
6	AG	137	GLU	3.0
7	AH	94	TYR	3.0
20	AU	88	LYS	3.0
11	AO	13	ASN	3.0
6	AG	41	GLN	3.0
7	AH	51	ARG	3.0
43	BP	4	ILE	3.0
1	AA	654(P)	G	3.0
32	CE	232	PRO	3.0
52	BB	10	G	3.0
16	A1	71	GLN	3.0
28	A6	20	ASN	3.0
1	AA	654(R)	C	3.0
21	AV	120	ILE	3.0
54	CA	1030	C	3.0
21	AV	95	PRO	2.9
4	AE	181	LEU	2.9
49	BV	28	LYS	2.9
55	DA	270(K)	C	2.9
25	AX	27	GLY	2.9
52	BD	11	C	2.9
6	AG	146	TYR	2.9
58	DL	142	PRO	2.9
21	DV	105	VAL	2.9
58	DL	65	PHE	2.9
9	AM	14	VAL	2.9
16	A1	64	ARG	2.9
48	BU	87	ARG	2.9
57	DY	99	SER	2.9
4	AE	88	GLY	2.9
26	D4	69	LYS	2.9
48	BU	20	ALA	2.9

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Mol	Chain	Res	Type	RSRZ
1	AA	1099	G	2.9
1	AA	654(Q)	C	2.9
21	AV	76	LEU	2.9
27	D5	55	ARG	2.9
21	AV	83	PRO	2.9
56	DJ	19	GLU	2.9
32	BE	218	ALA	2.9
21	AV	123	ASP	2.9
4	DE	7	VAL	2.9
41	BN	14	VAL	2.9
43	BP	121	LYS	2.9
4	AE	4	ILE	2.9
7	AH	100	GLY	2.9
26	A4	15	ILE	2.9
25	AX	47	VAL	2.9
42	BO	56	ALA	2.9
26	A4	68	ARG	2.9
52	BB	44	G	2.9
10	AN	56	ASP	2.9
58	DL	86	LYS	2.9
4	AE	73	GLU	2.9
9	AM	53	VAL	2.9
57	DY	115	GLN	2.9
28	A6	40	CYS	2.9
7	AH	85	LYS	2.9
43	CP	122	LYS	2.9
7	AH	136	ILE	2.9
33	BF	108	ASN	2.9
4	AE	35	GLN	2.9
7	AH	145	ALA	2.9
20	AU	89	PHE	2.9
21	AV	21	ALA	2.9
21	DV	182	LYS	2.9
48	BU	26	LEU	2.9
4	DE	21	VAL	2.9
37	CJ	78	ARG	2.9
52	CD	17	C	2.9
4	AE	46	ALA	2.8
12	DP	1	MET	2.8
21	AV	18	LEU	2.8
4	AE	34	VAL	2.8
15	AR	36	GLU	2.8

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Mol	Chain	Res	Type	RSRZ
16	A1	88	ILE	2.8
42	BO	57	LYS	2.8
28	D6	11	LEU	2.8
21	AV	139	VAL	2.8
21	AV	167	PRO	2.8
37	CJ	156	TRP	2.8
57	DY	77	PRO	2.8
32	BE	163	PHE	2.8
4	AE	48	GLN	2.8
33	CF	104	GLN	2.8
26	A4	56	VAL	2.8
36	BI	100	ASN	2.8
52	BB	16	U	2.8
32	BE	70	PHE	2.8
21	DV	172	ALA	2.8
33	CF	65	ALA	2.8
56	DI	21	LYS	2.8
27	A5	60	VAL	2.8
32	BE	229	VAL	2.8
57	DY	80	VAL	2.8
8	DK	8	PRO	2.8
1	AA	1092	C	2.8
16	A1	111	GLU	2.8
4	AE	89	ASP	2.8
6	AG	147	ASP	2.8
42	CO	38	THR	2.8
40	CM	33	GLN	2.8
49	BV	41	VAL	2.8
28	A6	27	LYS	2.8
58	DL	78	ILE	2.8
17	A2	26	ASP	2.8
1	AA	887	A	2.8
9	AM	6	PRO	2.8
7	AH	115	VAL	2.8
21	DV	196	VAL	2.8
53	C1	55	U	2.8
45	BR	2	PRO	2.8
4	AE	81	ILE	2.7
21	AV	24	LEU	2.7
32	BE	5	ILE	2.7
33	CF	103	VAL	2.7
32	BE	215	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
40	CM	23	ILE	2.7
58	DL	12	LEU	2.7
7	AH	132	ARG	2.7
52	BB	45	U	2.7
6	AG	43	LEU	2.7
21	DV	144	LEU	2.7
32	CE	217	ARG	2.7
4	AE	38	THR	2.7
1	AA	654(S)	G	2.7
7	AH	104	GLU	2.7
10	AN	22	ILE	2.7
21	DV	160	GLY	2.7
36	BI	38	GLU	2.7
41	BN	21	ILE	2.7
28	D6	30	THR	2.7
31	BA	1030	C	2.7
23	AZ	96	LYS	2.7
7	AH	71	LEU	2.7
19	AT	92	LEU	2.7
26	A4	34	GLU	2.7
43	BP	88	ARG	2.7
4	AE	159	HIS	2.7
21	DV	145	GLU	2.7
31	BA	1035	A	2.7
7	AH	13	LYS	2.7
56	DI	30	ALA	2.7
8	DK	117	GLU	2.7
14	DQ	104	GLY	2.7
17	A2	20	LEU	2.7
21	AV	116	VAL	2.7
41	CN	80	VAL	2.7
21	AV	20	ARG	2.7
21	AV	28	MET	2.7
21	AV	119	GLU	2.7
33	CF	56	ASP	2.7
37	CJ	81	GLY	2.7
58	DL	15	GLY	2.7
8	AK	139	GLN	2.7
21	AV	78	LYS	2.7
12	AP	97	VAL	2.7
17	A2	58	VAL	2.7
3	AD	236	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
23	DZ	97	LEU	2.7
52	BB	47	U	2.7
33	CF	39	ILE	2.7
1	AA	896	A	2.7
52	CD	14	A	2.7
9	AM	136	GLU	2.7
12	DP	89	ASN	2.7
43	BP	60	VAL	2.7
26	D4	37	SER	2.7
11	AO	148	LEU	2.7
32	CE	215	LEU	2.7
49	BV	25	LYS	2.7
7	AH	113	VAL	2.7
34	CG	133	VAL	2.7
52	CB	20	U	2.7
14	DQ	110	LEU	2.6
21	DV	193	GLU	2.6
22	A3	9	SER	2.6
41	BN	128	ALA	2.6
33	CF	153	VAL	2.6
56	DJ	15	ALA	2.6
17	D2	37	VAL	2.6
25	AX	26	LEU	2.6
7	AH	75	ALA	2.6
40	CM	4	ILE	2.6
57	DY	130	THR	2.6
7	AH	56	SER	2.6
26	D4	28	LYS	2.6
55	DA	2131	G	2.6
21	AV	128	VAL	2.6
9	AM	42	TRP	2.6
10	DN	122	LEU	2.6
21	AV	157	LEU	2.6
16	A1	73	GLY	2.6
33	CF	60	ALA	2.6
58	DL	99	ILE	2.6
26	A4	8	LYS	2.6
26	D4	60	GLN	2.6
20	AU	44	ILE	2.6
33	BF	68	VAL	2.6
21	AV	5	LEU	2.6
21	AV	104	PHE	2.6

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Mol	Chain	Res	Type	RSRZ
9	AM	16	ILE	2.6
21	AV	93	ASP	2.6
40	CM	90	LEU	2.6
12	AP	68	ILE	2.6
30	A8	63	PRO	2.6
41	BN	95	ILE	2.6
26	A4	47	GLN	2.6
41	BN	39	PRO	2.6
57	DY	50	ARG	2.6
33	CF	76	VAL	2.6
58	DL	136	VAL	2.6
16	A1	72	HIS	2.6
21	DV	121	HIS	2.6
45	CR	89	GLY	2.6
5	AF	22	ALA	2.6
54	CA	1542	U	2.6
6	AG	75	LYS	2.6
3	AD	237	GLU	2.6
6	DG	137	GLU	2.6
56	DI	11	GLU	2.6
28	D6	46	HIS	2.6
21	AV	143	GLY	2.6
37	CJ	79	ARG	2.6
27	D5	52	TYR	2.6
37	BJ	65	ALA	2.6
42	CO	64	TYR	2.6
4	AE	177	PRO	2.6
21	AV	74	VAL	2.6
39	BL	53	VAL	2.6
8	DK	75	LEU	2.6
33	CF	91	LEU	2.6
23	AZ	61	ARG	2.6
35	CH	152	ARG	2.6
32	CE	222	ILE	2.6
21	DV	192	ALA	2.6
26	D4	39	CYS	2.6
52	BB	11	C	2.6
6	AG	62	LEU	2.5
37	BJ	84	ASN	2.5
41	BN	33	THR	2.5
22	A3	85	ALA	2.5
55	DA	654(A)	A	2.5

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Mol	Chain	Res	Type	RSRZ
7	AH	8	PRO	2.5
21	AV	55	HIS	2.5
17	A2	93	GLU	2.5
32	BE	231	GLU	2.5
32	CE	230	VAL	2.5
41	CN	82	VAL	2.5
58	DL	55	VAL	2.5
4	AE	49	LEU	2.5
21	AV	44	PHE	2.5
28	D6	38	LYS	2.5
43	CP	126	LYS	2.5
41	CN	48	ILE	2.5
52	CC	17	C	2.5
12	AP	140	ALA	2.5
14	DQ	111	GLU	2.5
55	DA	2132	U	2.5
58	DL	128	ALA	2.5
17	A2	63	GLY	2.5
21	AV	110	GLY	2.5
52	CB	7	A	2.5
4	DE	69	LYS	2.5
17	A2	27	ALA	2.5
41	CN	15	ALA	2.5
3	AD	147	LEU	2.5
55	DA	886	C	2.5
32	BE	217	ARG	2.5
37	BJ	88	PRO	2.5
8	DK	141	LYS	2.5
10	AN	11	ALA	2.5
58	DL	36	GLU	2.5
21	AV	9	TYR	2.5
26	A4	5	ILE	2.5
41	BN	84	VAL	2.5
26	D4	32	TYR	2.5
8	DK	74	ASN	2.5
58	DL	31	GLY	2.5
1	AA	2897	U	2.5
1	AA	888	C	2.5
23	AZ	97	LEU	2.5
36	BI	71	ARG	2.5
37	BJ	86	GLN	2.5
21	DV	151	HIS	2.5

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Mol	Chain	Res	Type	RSRZ
26	D4	64	GLY	2.5
47	BT	100	LYS	2.5
7	DH	136	ILE	2.5
15	DR	21	GLU	2.5
6	AG	112	PRO	2.5
21	DV	63	ASP	2.5
14	DQ	83	LYS	2.5
16	A1	113	ALA	2.5
1	AA	898	C	2.5
11	DO	144	GLU	2.5
25	DX	60	GLU	2.5
9	AM	52	VAL	2.5
25	AX	54	VAL	2.5
21	AV	14	LYS	2.5
22	D3	5	LYS	2.5
41	BN	99	GLN	2.4
12	AP	19	GLY	2.4
12	AP	24	GLY	2.4
6	AG	52	ILE	2.4
17	A2	73	SER	2.4
28	D6	16	CYS	2.4
56	DI	4	ASP	2.4
26	D4	33	VAL	2.4
19	AT	69	TYR	2.4
58	DL	135	GLY	2.4
11	AO	1	MET	2.4
32	BE	46	LYS	2.4
58	DL	75	SER	2.4
58	DL	143	GLU	2.4
7	AH	137	ASP	2.4
53	C1	29	G	2.4
1	AA	2138	C	2.4
20	AU	65	ALA	2.4
22	A3	2	ALA	2.4
39	BL	4	TYR	2.4
42	BO	127	GLU	2.4
1	AA	1094	U	2.4
33	BF	149	ALA	2.4
37	CJ	84	ASN	2.4
41	BN	19	ALA	2.4
42	BO	68	ALA	2.4
48	BU	34	TYR	2.4

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Mol	Chain	Res	Type	RSRZ
4	DE	72	VAL	2.4
33	BF	144	SER	2.4
34	BG	152	SER	2.4
15	AR	37	GLY	2.4
6	AG	142	PRO	2.4
16	A1	80	ILE	2.4
33	CF	89	GLU	2.4
1	AA	2139	C	2.4
32	BE	7	VAL	2.4
41	CN	98	LEU	2.4
48	BU	86	VAL	2.4
52	BB	9	A	2.4
43	BP	11	ARG	2.4
48	CU	18	ARG	2.4
21	AV	147	GLY	2.4
21	DV	178	GLU	2.4
8	DK	76	THR	2.4
34	CG	145	GLU	2.4
5	AF	18	ARG	2.4
7	AH	169	VAL	2.4
17	A2	64	HIS	2.4
20	DU	102	CYS	2.4
37	BJ	153	HIS	2.4
48	BU	24	ALA	2.4
36	BI	31	GLU	2.4
1	AA	1100	C	2.4
12	AP	66	ILE	2.4
41	BN	31	THR	2.4
4	AE	36	ARG	2.4
7	DH	125	VAL	2.4
25	AX	20	LYS	2.4
33	BF	87	LEU	2.4
52	CB	47	U	2.4
52	CC	44	G	2.4
6	DG	88	ILE	2.4
12	AP	22	LYS	2.4
21	AV	91	LEU	2.4
21	AV	117	LEU	2.4
26	A4	35	VAL	2.4
31	BA	1129	C	2.4
55	DA	890	A	2.4
4	AE	87	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
43	BP	82	MET	2.4
6	AG	40	ASN	2.4
6	AG	108	ASN	2.4
52	BB	4	C	2.4
7	AH	54	ARG	2.4
16	A1	115	ALA	2.4
10	AN	19	ILE	2.4
21	AV	159	PRO	2.3
25	AX	44	ARG	2.3
33	CF	169	ALA	2.3
21	AV	125	LEU	2.3
28	A6	36	LEU	2.3
14	DQ	76	LYS	2.3
21	AV	81	ARG	2.3
58	DL	39	LYS	2.3
34	CG	152	SER	2.3
58	DL	22	PRO	2.3
50	BW	106	ALA	2.3
16	A1	104	GLN	2.3
58	DL	56	GLU	2.3
7	AH	121	ILE	2.3
12	DP	20	ALA	2.3
21	AV	59	LEU	2.3
53	C1	53	U	2.3
17	A2	34	GLU	2.3
37	CJ	140	ASP	2.3
8	AK	78	THR	2.3
15	AR	34	VAL	2.3
6	AG	111	LEU	2.3
7	AH	87	LEU	2.3
55	DA	2151	G	2.3
20	AU	2	ARG	2.3
20	DU	53	PRO	2.3
55	DA	654(U)	A	2.3
33	CF	51	GLY	2.3
8	DK	71	ILE	2.3
6	AG	64	THR	2.3
17	A2	12	TYR	2.3
52	CB	13	C	2.3
57	DY	16	ASN	2.3
1	AA	1096	A	2.3
42	BO	59	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
52	CB	23	A	2.3
57	DY	26	LEU	2.3
7	DH	113	VAL	2.3
17	A2	37	VAL	2.3
17	A2	47	VAL	2.3
36	BI	6	VAL	2.3
15	AR	40	THR	2.3
28	A6	29	ASN	2.3
52	BB	2	C	2.3
57	DY	89	ALA	2.3
21	AV	25	PRO	2.3
57	DY	29	TYR	2.3
6	AG	60	LEU	2.3
8	AK	77	LEU	2.3
21	DV	98	MET	2.3
33	BF	102	ASN	2.3
37	CJ	16	LEU	2.3
7	AH	90	LYS	2.3
7	AH	117	PRO	2.3
32	CE	160	ASP	2.3
42	BO	41	ARG	2.3
6	AG	90	LEU	2.3
12	AP	30	GLY	2.3
21	DV	171	ILE	2.3
57	DY	118	THR	2.3
40	BM	34	VAL	2.3
4	DE	62	PRO	2.3
12	AP	29	PHE	2.3
32	BE	14	GLY	2.3
42	CO	67	THR	2.3
56	DJ	24	ILE	2.3
6	AG	69	ALA	2.2
57	DY	136	ALA	2.2
42	CO	79	GLU	2.2
1	AA	2146	C	2.2
22	A3	7	LEU	2.2
17	A2	96	ILE	2.2
41	BN	80	VAL	2.2
33	CF	82	GLU	2.2
17	A2	94	LEU	2.2
56	DJ	25	ASP	2.2
1	AA	897	C	2.2

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Mol	Chain	Res	Type	RSRZ
42	CO	40	VAL	2.2
52	CD	47	U	2.2
58	DL	131	ALA	2.2
1	AA	654(A)	A	2.2
8	DK	123	LEU	2.2
33	BF	56	ASP	2.2
52	CB	69	G	2.2
1	AA	2132	U	2.2
9	AM	7	LYS	2.2
33	BF	20	SER	2.2
10	AN	91	LEU	2.2
33	BF	101	LEU	2.2
1	AA	1070	A	2.2
2	DB	1(M)	A	2.2
10	AN	58	VAL	2.2
17	A2	51	VAL	2.2
18	AS	109	GLU	2.2
33	CF	100	ALA	2.2
41	BN	92	GLU	2.2
8	AK	12	LEU	2.2
42	CO	61	THR	2.2
4	AE	10	GLY	2.2
1	AA	2141	G	2.2
1	AA	2155	G	2.2
32	CE	68	ILE	2.2
41	BN	30	VAL	2.2
17	A2	16	PRO	2.2
34	BG	37	PRO	2.2
7	AH	97	ARG	2.2
9	AM	119	ARG	2.2
7	AH	22	GLY	2.2
21	AV	67	LEU	2.2
32	CE	214	ILE	2.2
47	BT	11	VAL	2.2
55	DA	2140	C	2.2
37	BJ	62	PHE	2.2
34	CG	146	ILE	2.2
52	BC	76	A	2.2
5	AF	21	ALA	2.2
9	AM	56	ASN	2.2
21	AV	136	PHE	2.2
34	BG	169	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
1	AA	889	C	2.2
1	AA	2792	G	2.2
1	AA	2803	C	2.2
16	A1	110	VAL	2.2
52	BB	56	C	2.2
6	DG	181	ARG	2.2
35	BH	155	GLU	2.2
33	CF	67	THR	2.2
1	AA	2820	A	2.2
5	DF	24	LEU	2.2
11	DO	91	PHE	2.2
22	D3	84	LEU	2.2
20	DU	49	VAL	2.2
20	DU	50	ARG	2.2
4	AE	41	LYS	2.2
15	AR	35	LYS	2.2
57	DY	92	THR	2.2
58	DL	67	PHE	2.2
32	CE	228	GLY	2.2
22	A3	3	HIS	2.2
6	AG	63	ILE	2.2
14	AQ	107	GLU	2.1
19	AT	89	ILE	2.2
29	D7	48	LYS	2.1
12	AP	92	GLY	2.1
23	AZ	36	GLY	2.1
27	A5	47	PRO	2.1
36	BI	34	GLY	2.1
9	AM	98	VAL	2.1
22	A3	12	ASN	2.1
58	DL	139	VAL	2.1
21	DV	23	LYS	2.1
33	CF	201	TYR	2.1
4	AE	78	LEU	2.1
10	AN	25	LEU	2.1
55	DA	654(T)	A	2.1
4	AE	3	GLY	2.1
6	DG	52	ILE	2.1
12	AP	102	VAL	2.1
21	DV	108	PRO	2.1
39	BL	21	PRO	2.1
25	AX	15	TYR	2.1

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Mol	Chain	Res	Type	RSRZ
27	A5	51	TYR	2.1
40	CM	89	ASP	2.1
6	AG	181	ARG	2.1
42	CO	59	ARG	2.1
52	BD	5	G	2.1
55	DA	654(S)	G	2.1
17	A2	3	ALA	2.1
29	A7	46	VAL	2.1
41	BN	50	TYR	2.1
10	AN	122	LEU	2.1
41	BN	91	ARG	2.1
33	BF	60	ALA	2.1
1	AA	2157	G	2.1
18	AS	30	GLU	2.1
28	A6	52	VAL	2.1
31	BA	1032(B)	G	2.1
33	BF	57	ILE	2.1
42	CO	65	GLU	2.1
52	CB	10	G	2.1
20	DU	52	SER	2.1
41	CN	101	SER	2.1
10	AN	34	THR	2.1
47	CT	101	ARG	2.1
9	AM	50	ASP	2.1
16	A1	74	LEU	2.1
17	A2	25	LEU	2.1
42	CO	128	ALA	2.1
46	CS	84	ALA	2.1
57	DY	119	ALA	2.1
10	AN	38	VAL	2.1
21	AV	135	GLU	2.1
31	BA	841	U	2.1
36	BI	36	ARG	2.1
26	A4	26	SER	2.1
26	A4	69	LYS	2.1
26	D4	63	TYR	2.1
49	CV	15	LEU	2.1
21	AV	63	ASP	2.1
40	BM	10	GLY	2.1
41	BN	86	GLY	2.1
9	AM	137	LYS	2.1
32	BE	156	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
32	CE	95	GLN	2.1
33	BF	105	GLU	2.1
49	BV	68	GLY	2.1
6	AG	149	VAL	2.1
21	AV	100	VAL	2.1
36	BI	37	VAL	2.1
56	DJ	7	ARG	2.1
58	DL	53	VAL	2.1
41	CN	127	LYS	2.1
9	AM	4	TYR	2.1
11	AO	91	PHE	2.1
5	AF	175	THR	2.1
7	AH	119	GLU	2.1
7	DH	60	ARG	2.1
57	DY	76	GLY	2.1
10	AN	96	THR	2.1
21	DV	174	VAL	2.1
40	CM	24	VAL	2.1
7	AH	153	LYS	2.1
12	AP	64	ILE	2.1
9	AM	87	LEU	2.1
31	BA	1033	G	2.1
55	DA	2802	G	2.1
55	DA	2145	C	2.1
4	AE	184	VAL	2.1
21	AV	92	SER	2.1
21	AV	166	SER	2.1
56	DJ	10	GLU	2.1
33	CF	130	VAL	2.1
36	BI	72	VAL	2.1
37	BJ	48	LYS	2.1
58	DL	4	VAL	2.1
48	BU	29	PHE	2.1
7	AH	20	ALA	2.1
7	AH	159	GLU	2.1
12	AP	107	ALA	2.1
32	BE	237	ALA	2.1
57	DY	81	VAL	2.1
33	BF	104	GLN	2.1
52	CB	1	G	2.1
7	AH	106	THR	2.1
36	BI	62	TRP	2.1

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Mol	Chain	Res	Type	RSRZ
6	DG	118	ARG	2.1
28	D6	44	ARG	2.1
33	BF	83	ARG	2.1
11	AO	94	GLU	2.1
49	CV	85	LYS	2.1
3	AD	2	ALA	2.1
7	AH	15	VAL	2.1
41	CN	95	ILE	2.0
1	AA	654(T)	A	2.0
4	AE	67	PHE	2.0
26	D4	13	ARG	2.0
33	CF	110	ASN	2.0
42	CO	33	ARG	2.0
55	DA	2146	C	2.0
4	AE	2	LYS	2.0
11	DO	142	GLY	2.0
21	AV	13	GLU	2.0
15	AR	1	MET	2.0
16	A1	86	ALA	2.0
21	AV	96	VAL	2.0
51	BX	23	PRO	2.0
21	AV	137	ILE	2.0
33	BF	42	LEU	2.0
37	BJ	70	LYS	2.0
40	CM	22	LYS	2.0
42	BO	126	LYS	2.0
4	AE	60	ASN	2.0
4	DE	88	GLY	2.0
21	AV	84	GLU	2.0
52	CD	7	A	2.0
12	DP	140	ALA	2.0
52	CB	65	G	2.0
3	DD	38	LYS	2.0
4	AE	52	LEU	2.0
16	A1	94	ASN	2.0
37	BJ	141	VAL	2.0
37	CJ	85	TYR	2.0
41	BN	82	VAL	2.0
1	AA	2140	C	2.0
34	CG	115	ARG	2.0
41	BN	96	ARG	2.0
42	CO	57	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
6	AG	135	LEU	2.0
7	DH	103	LEU	2.0
17	A2	38	LEU	2.0
32	BE	17	PHE	2.0
21	DV	185	GLU	2.0
23	AZ	93	GLU	2.0
52	BB	1	G	2.0
41	CN	25	TYR	2.0
23	AZ	91	LYS	2.0
53	B1	56	U	2.0
11	DO	148	LEU	2.0
21	DV	60	GLU	2.0
26	A4	57	GLU	2.0
8	DK	130	TYR	2.0
28	A6	48	VAL	2.0
1	AA	883	G	2.0
8	DK	86	THR	2.0
12	AP	129	THR	2.0
33	BF	43	LEU	2.0
37	BJ	43	PHE	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
52	MIA	BB	37	29/30	0.94	0.19	-	83,88,98,99	0
52	MIA	CD	37	29/30	0.92	0.27	-	106,108,109,110	0
52	MIA	CB	37	29/30	0.96	0.23	-	53,57,62,63	0
52	MIA	CC	37	29/30	0.97	0.21	-	49,53,60,61	0
52	MIA	BC	37	29/30	0.95	0.19	-	70,75,80,81	0
52	MIA	BD	37	29/30	0.89	0.21	-	107,111,115,115	0

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

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
59	MG	DA	4747	1/1	0.95	1.00	99.18	71,71,71,71	0
59	MG	DA	4545	1/1	0.74	0.73	89.57	90,90,90,90	0
59	MG	DA	4606	1/1	0.93	0.69	63.59	41,41,41,41	0
59	MG	DA	4936	1/1	0.97	0.74	43.71	52,52,52,52	0
59	MG	A1	204	1/1	0.88	0.85	36.21	65,65,65,65	0
59	MG	DA	3279	1/1	0.95	0.39	34.01	45,45,45,45	0
59	MG	DA	4594	1/1	0.96	0.48	33.72	62,62,62,62	0
59	MG	DA	3458	1/1	0.91	0.38	32.36	54,54,54,54	0
59	MG	BQ	101	1/1	0.53	0.34	30.20	66,66,66,66	0
59	MG	DA	4712	1/1	0.94	0.45	29.05	43,43,43,43	0
59	MG	DF	322	1/1	0.94	0.81	28.64	40,40,40,40	0
59	MG	DA	3055	1/1	0.94	0.41	28.64	21,21,21,21	0
59	MG	CA	2121	1/1	0.50	0.26	28.43	125,125,125,125	0
59	MG	DO	214	1/1	0.92	0.78	27.70	61,61,61,61	0
59	MG	DA	4232	1/1	0.95	0.33	26.83	68,68,68,68	0
59	MG	DA	4325	1/1	0.89	0.42	26.58	45,45,45,45	0
59	MG	DA	4572	1/1	0.45	1.39	26.25	76,76,76,76	0
59	MG	DA	4931	1/1	0.97	0.42	25.12	41,41,41,41	0
59	MG	DA	4231	1/1	0.85	0.49	24.50	42,42,42,42	0
59	MG	BA	1697	1/1	0.95	0.43	24.06	52,52,52,52	0
59	MG	D0	203	1/1	0.55	0.57	23.46	97,97,97,97	0
59	MG	AA	3630	1/1	0.96	0.37	23.28	55,55,55,55	0
59	MG	DA	3684	1/1	0.90	0.42	23.07	56,56,56,56	0
59	MG	DA	4131	1/1	0.96	0.25	22.67	34,34,34,34	0
59	MG	CA	2152	1/1	0.86	0.39	22.67	42,42,42,42	0
59	MG	DM	204	1/1	0.91	1.30	22.58	67,67,67,67	0
59	MG	DA	3067	1/1	0.99	0.40	22.57	14,14,14,14	0
59	MG	DA	3994	1/1	0.86	0.39	21.80	48,48,48,48	0
59	MG	CA	2065	1/1	0.65	0.44	21.66	87,87,87,87	0
59	MG	DA	3123	1/1	0.90	0.41	21.18	65,65,65,65	0
59	MG	DA	4497	1/1	0.86	0.36	21.09	43,43,43,43	0
59	MG	DA	4666	1/1	0.98	0.37	21.03	60,60,60,60	0
59	MG	DA	3875	1/1	0.90	0.33	20.72	116,116,116,116	0
59	MG	DA	3880	1/1	0.96	0.38	20.67	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3671	1/1	0.96	0.41	20.48	40,40,40,40	0
59	MG	DA	3832	1/1	0.68	0.34	20.27	55,55,55,55	0
59	MG	DA	3053	1/1	0.96	0.43	20.11	24,24,24,24	0
59	MG	DA	4981	1/1	0.98	0.41	20.03	41,41,41,41	0
59	MG	DA	4561	1/1	0.97	0.58	19.60	43,43,43,43	0
59	MG	DA	3998	1/1	0.86	0.38	19.10	46,46,46,46	0
59	MG	BA	2070	1/1	0.67	0.28	19.06	89,89,89,89	0
59	MG	DA	3085	1/1	0.96	0.38	18.77	43,43,43,43	0
59	MG	DA	4450	1/1	0.91	0.24	18.45	68,68,68,68	0
59	MG	DA	4946	1/1	0.97	0.53	18.19	62,62,62,62	0
59	MG	CA	2051	1/1	0.64	0.32	18.01	89,89,89,89	0
59	MG	DA	3154	1/1	0.84	0.29	17.69	46,46,46,46	0
59	MG	CA	1776	1/1	0.89	0.41	17.47	62,62,62,62	0
59	MG	DA	4940	1/1	0.79	0.32	17.26	69,69,69,69	0
59	MG	DW	107	1/1	0.88	0.76	17.07	70,70,70,70	0
59	MG	DA	5062	1/1	0.90	0.29	17.03	94,94,94,94	0
59	MG	CA	1738	1/1	0.92	0.29	17.00	66,66,66,66	0
59	MG	AA	3711	1/1	0.95	0.26	16.98	69,69,69,69	0
59	MG	DA	4035	1/1	0.94	0.54	16.95	52,52,52,52	0
59	MG	DA	4469	1/1	0.93	0.43	16.80	52,52,52,52	0
59	MG	BA	1971	1/1	0.82	0.34	16.59	98,98,98,98	0
59	MG	DA	3793	1/1	0.63	0.27	16.40	81,81,81,81	0
59	MG	DA	4401	1/1	0.98	0.30	16.38	87,87,87,87	0
59	MG	DD	304	1/1	0.95	0.87	16.03	66,66,66,66	0
59	MG	DA	3022	1/1	0.98	0.30	15.97	12,12,12,12	0
59	MG	DA	3026	1/1	0.97	0.39	15.91	17,17,17,17	0
59	MG	DM	205	1/1	0.95	1.02	15.70	51,51,51,51	0
59	MG	DA	4406	1/1	0.97	0.38	15.69	54,54,54,54	0
59	MG	AA	4094	1/1	0.80	0.34	15.68	57,57,57,57	0
59	MG	DA	3664	1/1	0.95	0.24	15.41	60,60,60,60	0
59	MG	BA	1750	1/1	0.90	0.29	15.37	65,65,65,65	0
59	MG	DA	3536	1/1	0.91	0.32	15.27	48,48,48,48	0
59	MG	CA	1765	1/1	0.86	0.35	15.21	56,56,56,56	0
59	MG	DA	4456	1/1	0.88	0.32	15.16	59,59,59,59	0
59	MG	DF	321	1/1	0.93	0.50	15.16	55,55,55,55	0
59	MG	DA	3276	1/1	0.98	0.29	15.11	34,34,34,34	0
59	MG	DA	3171	1/1	0.95	0.28	14.90	36,36,36,36	0
59	MG	AA	3357	1/1	0.90	1.30	14.82	91,91,91,91	0
59	MG	BA	1640	1/1	0.97	0.28	14.55	27,27,27,27	0
59	MG	DA	3439	1/1	0.84	0.34	14.43	86,86,86,86	0
59	MG	DA	4207	1/1	0.93	0.34	14.41	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4369	1/1	0.90	0.37	14.32	78,78,78,78	0
59	MG	DA	4802	1/1	0.81	0.32	14.25	75,75,75,75	0
59	MG	DA	3011	1/1	0.98	0.35	14.21	1,1,1,1	0
59	MG	BA	1949	1/1	0.81	0.32	14.18	85,85,85,85	0
59	MG	BA	1731	1/1	0.82	0.28	14.12	46,46,46,46	0
59	MG	DA	3585	1/1	0.98	0.28	14.10	10,10,10,10	0
59	MG	DA	4199	1/1	0.97	0.43	13.89	48,48,48,48	0
59	MG	DA	4130	1/1	0.97	0.37	13.81	29,29,29,29	0
59	MG	BA	1725	1/1	0.09	0.31	13.77	109,109,109,109	0
59	MG	DA	3072	1/1	0.98	0.29	13.73	9,9,9,9	0
59	MG	DA	3365	1/1	0.77	0.34	13.63	45,45,45,45	0
59	MG	CA	1782	1/1	0.89	0.35	13.58	50,50,50,50	0
59	MG	CA	1957	1/1	0.95	0.31	13.47	56,56,56,56	0
59	MG	DA	3625	1/1	0.93	0.35	13.47	19,19,19,19	0
59	MG	DA	4012	1/1	0.94	0.35	13.28	63,63,63,63	0
59	MG	DA	4357	1/1	0.73	0.29	13.27	53,53,53,53	0
59	MG	CA	2313	1/1	0.79	0.34	13.24	128,128,128,128	0
59	MG	DA	3382	1/1	0.93	0.35	13.08	47,47,47,47	0
59	MG	CA	2073	1/1	0.89	0.35	13.07	41,41,41,41	0
59	MG	DA	4353	1/1	0.94	0.48	12.96	45,45,45,45	0
59	MG	DA	3254	1/1	0.91	0.26	12.71	25,25,25,25	0
59	MG	BA	2091	1/1	0.87	0.37	12.51	108,108,108,108	0
59	MG	BA	1990	1/1	0.88	0.20	12.42	82,82,82,82	0
59	MG	DD	308	1/1	0.90	0.68	12.32	53,53,53,53	0
59	MG	BA	1723	1/1	0.96	0.26	12.30	63,63,63,63	0
59	MG	CA	1661	1/1	0.90	0.31	12.25	59,59,59,59	0
59	MG	AA	3721	1/1	0.93	0.69	12.19	82,82,82,82	0
59	MG	CA	1779	1/1	0.98	0.31	12.10	38,38,38,38	0
59	MG	D3	106	1/1	0.90	0.36	12.06	58,58,58,58	0
59	MG	DA	5040	1/1	0.89	0.31	11.96	90,90,90,90	0
59	MG	DA	4040	1/1	0.80	0.28	11.84	59,59,59,59	0
59	MG	DA	3703	1/1	0.97	0.31	11.69	12,12,12,12	0
59	MG	AA	3171	1/1	0.87	0.45	11.68	50,50,50,50	0
59	MG	DA	3732	1/1	0.90	0.43	11.65	60,60,60,60	0
59	MG	AA	4113	1/1	0.93	0.50	11.62	92,92,92,92	0
59	MG	AA	3638	1/1	0.83	0.32	11.58	51,51,51,51	0
59	MG	DA	3396	1/1	0.81	0.33	11.54	46,46,46,46	0
59	MG	DA	3101	1/1	0.98	0.32	11.50	45,45,45,45	0
59	MG	AA	3019	1/1	0.93	0.30	11.40	31,31,31,31	0
59	MG	CA	1623	1/1	0.93	0.31	11.35	49,49,49,49	0
59	MG	BA	1713	1/1	0.96	0.37	11.34	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DD	314	1/1	0.99	0.74	11.30	32,32,32,32	0
59	MG	DF	323	1/1	0.97	0.72	11.21	37,37,37,37	0
59	MG	DA	4867	1/1	0.97	0.26	11.12	62,62,62,62	0
59	MG	DA	3469	1/1	0.95	0.28	11.09	63,63,63,63	0
59	MG	AO	206	1/1	0.74	0.57	11.08	53,53,53,53	0
59	MG	AA	3571	1/1	0.85	0.24	11.08	57,57,57,57	0
59	MG	CA	1679	1/1	0.86	0.29	11.05	60,60,60,60	0
59	MG	AA	3733	1/1	0.86	0.23	11.00	72,72,72,72	0
59	MG	BA	1616	1/1	0.97	0.27	10.99	47,47,47,47	0
59	MG	AW	102	1/1	0.91	0.38	10.98	56,56,56,56	0
59	MG	DA	3507	1/1	0.85	0.20	10.93	66,66,66,66	0
59	MG	DA	3530	1/1	0.53	0.25	10.92	73,73,73,73	0
59	MG	DA	4977	1/1	0.97	0.34	10.90	94,94,94,94	0
59	MG	AA	4018	1/1	0.87	0.34	10.85	56,56,56,56	0
59	MG	DA	3095	1/1	0.89	0.29	10.81	27,27,27,27	0
59	MG	DA	3283	1/1	0.65	0.36	10.77	87,87,87,87	0
59	MG	CA	1717	1/1	0.59	0.21	10.71	67,67,67,67	0
59	MG	DA	4021	1/1	0.83	0.32	10.66	76,76,76,76	0
59	MG	DA	3603	1/1	0.90	0.29	10.65	20,20,20,20	0
59	MG	AA	3793	1/1	0.98	0.44	10.59	63,63,63,63	0
59	MG	AA	3337	1/1	0.90	0.23	10.52	51,51,51,51	0
59	MG	BA	1654	1/1	0.91	0.29	10.52	53,53,53,53	0
59	MG	BA	1651	1/1	0.95	0.27	10.44	72,72,72,72	0
59	MG	DA	4715	1/1	0.90	0.31	10.34	58,58,58,58	0
59	MG	AA	4163	1/1	0.97	0.38	10.18	102,102,102,102	0
59	MG	D0	207	1/1	0.78	0.33	10.08	58,58,58,58	0
59	MG	DA	3400	1/1	0.94	0.24	10.03	48,48,48,48	0
59	MG	DA	3162	1/1	0.76	0.24	9.98	45,45,45,45	0
59	MG	DA	4929	1/1	0.68	0.43	9.96	52,52,52,52	0
59	MG	BA	1665	1/1	0.70	0.29	9.94	61,61,61,61	0
59	MG	DE	308	1/1	0.77	0.94	9.90	83,83,83,83	0
59	MG	DA	3508	1/1	0.96	0.36	9.85	56,56,56,56	0
59	MG	BA	1839	1/1	0.78	0.29	9.82	136,136,136,136	0
59	MG	DU	212	1/1	0.94	0.73	9.76	75,75,75,75	0
59	MG	DA	3706	1/1	0.98	0.25	9.75	20,20,20,20	0
59	MG	DB	250	1/1	0.94	0.31	9.75	74,74,74,74	0
59	MG	DA	3132	1/1	0.94	0.37	9.75	34,34,34,34	0
59	MG	AA	3253	1/1	0.80	0.21	9.73	50,50,50,50	0
59	MG	DA	3211	1/1	0.96	0.31	9.69	43,43,43,43	0
59	MG	AA	3045	1/1	0.95	0.29	9.63	51,51,51,51	0
59	MG	DA	4443	1/1	0.98	0.56	9.63	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	D8	105	1/1	0.89	0.34	9.57	44,44,44,44	0
59	MG	DA	4546	1/1	0.95	0.27	9.48	67,67,67,67	0
59	MG	DA	3848	1/1	0.94	0.45	9.47	35,35,35,35	0
59	MG	DA	4134	1/1	0.81	0.27	9.40	34,34,34,34	0
59	MG	DA	3592	1/1	0.78	0.21	9.40	81,81,81,81	0
59	MG	DA	3866	1/1	0.96	0.26	9.40	59,59,59,59	0
59	MG	DA	4273	1/1	0.89	0.28	9.34	74,74,74,74	0
59	MG	CA	1973	1/1	0.94	0.27	9.32	65,65,65,65	0
59	MG	DA	4582	1/1	0.78	0.25	9.30	69,69,69,69	0
59	MG	CA	2278	1/1	0.77	0.24	9.28	84,84,84,84	0
59	MG	AD	308	1/1	0.96	1.02	9.15	58,58,58,58	0
59	MG	BA	2062	1/1	0.50	0.21	9.15	75,75,75,75	0
59	MG	AA	3046	1/1	0.98	0.34	9.10	38,38,38,38	0
59	MG	CA	2087	1/1	0.89	0.23	9.08	95,95,95,95	0
59	MG	BA	1770	1/1	0.75	0.20	9.07	67,67,67,67	0
59	MG	DO	210	1/1	0.94	0.34	9.06	53,53,53,53	0
59	MG	DA	4039	1/1	0.91	0.36	9.02	75,75,75,75	0
59	MG	DA	3700	1/1	0.95	0.28	8.93	39,39,39,39	0
59	MG	DA	4381	1/1	0.74	0.25	8.92	88,88,88,88	0
59	MG	BA	2241	1/1	0.89	0.22	8.89	78,78,78,78	0
59	MG	DA	3066	1/1	0.96	0.25	8.89	17,17,17,17	0
59	MG	DA	4939	1/1	0.95	0.50	8.86	57,57,57,57	0
59	MG	DA	4537	1/1	0.91	0.31	8.79	58,58,58,58	0
59	MG	BA	2039	1/1	0.86	0.21	8.68	138,138,138,138	0
59	MG	BA	1619	1/1	0.96	0.31	8.66	31,31,31,31	0
59	MG	DO	203	1/1	0.95	0.35	8.66	32,32,32,32	0
59	MG	DA	4589	1/1	0.92	0.35	8.58	58,58,58,58	0
59	MG	DA	3838	1/1	0.88	0.31	8.57	80,80,80,80	0
59	MG	DF	308	1/1	0.97	0.51	8.54	30,30,30,30	0
59	MG	AA	3263	1/1	0.93	0.67	8.34	57,57,57,57	0
59	MG	DA	3023	1/1	0.88	0.32	8.31	57,57,57,57	0
59	MG	DA	4278	1/1	0.94	0.34	8.25	62,62,62,62	0
59	MG	DA	3044	1/1	0.97	0.31	8.23	18,18,18,18	0
59	MG	DA	3002	1/1	0.96	0.28	8.14	11,11,11,11	0
59	MG	DA	4022	1/1	0.97	0.56	8.10	41,41,41,41	0
59	MG	CA	2072	1/1	0.93	0.30	8.10	48,48,48,48	0
59	MG	AA	3978	1/1	0.93	0.47	8.06	70,70,70,70	0
59	MG	DD	305	1/1	0.98	0.68	8.04	78,78,78,78	0
59	MG	CA	1748	1/1	0.98	0.26	7.99	27,27,27,27	0
59	MG	DA	3329	1/1	0.95	0.25	7.95	57,57,57,57	0
59	MG	DA	3983	1/1	0.72	0.22	7.93	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3337	1/1	0.94	0.27	7.88	44,44,44,44	0
59	MG	BA	2150	1/1	0.31	0.29	7.83	96,96,96,96	0
59	MG	AA	3017	1/1	0.98	0.34	7.82	29,29,29,29	0
59	MG	D0	205	1/1	0.86	0.35	7.82	41,41,41,41	0
59	MG	DA	3474	1/1	0.88	0.25	7.76	41,41,41,41	0
59	MG	AA	3364	1/1	0.88	0.21	7.72	57,57,57,57	0
59	MG	D5	106	1/1	0.96	0.36	7.71	58,58,58,58	0
59	MG	DA	3730	1/1	0.93	0.28	7.70	47,47,47,47	0
59	MG	AA	3820	1/1	0.82	0.37	7.48	59,59,59,59	0
59	MG	CA	1901	1/1	0.90	0.20	7.31	65,65,65,65	0
59	MG	DA	3252	1/1	0.90	0.23	7.29	29,29,29,29	0
59	MG	AA	3531	1/1	0.98	0.26	7.27	26,26,26,26	0
59	MG	AA	3710	1/1	0.75	0.21	7.25	76,76,76,76	0
59	MG	AA	3977	1/1	0.93	0.32	7.23	56,56,56,56	0
59	MG	DA	3699	1/1	0.98	0.29	7.21	1,1,1,1	0
59	MG	DA	3708	1/1	0.95	0.25	7.21	9,9,9,9	0
59	MG	DA	4745	1/1	0.85	0.28	7.18	53,53,53,53	0
59	MG	D1	205	1/1	0.91	0.32	7.16	55,55,55,55	0
59	MG	AA	3623	1/1	0.71	0.23	7.16	50,50,50,50	0
59	MG	DA	3584	1/1	0.90	0.23	7.11	63,63,63,63	0
59	MG	DA	4015	1/1	0.77	0.40	7.05	57,57,57,57	0
59	MG	D1	212	1/1	0.96	0.34	7.02	53,53,53,53	0
59	MG	DA	4775	1/1	0.83	0.40	7.01	86,86,86,86	0
59	MG	CA	1856	1/1	0.32	0.23	6.98	81,81,81,81	0
59	MG	DA	4808	1/1	0.98	0.50	6.98	61,61,61,61	0
59	MG	AA	3528	1/1	0.96	0.56	6.96	46,46,46,46	0
59	MG	DA	3419	1/1	0.88	0.18	6.94	32,32,32,32	0
59	MG	DA	4737	1/1	0.90	0.22	6.90	85,85,85,85	0
59	MG	BA	2117	1/1	0.90	0.25	6.89	109,109,109,109	0
59	MG	D2	208	1/1	0.89	0.36	6.82	71,71,71,71	0
59	MG	AA	3459	1/1	0.99	0.32	6.82	30,30,30,30	0
59	MG	BA	1774	1/1	0.76	0.19	6.79	53,53,53,53	0
59	MG	CA	1958	1/1	0.93	0.18	6.75	75,75,75,75	0
59	MG	DA	3115	1/1	0.94	0.23	6.73	34,34,34,34	0
59	MG	DA	4588	1/1	0.90	0.38	6.70	41,41,41,41	0
59	MG	A1	202	1/1	0.93	0.46	6.63	61,61,61,61	0
59	MG	DA	4003	1/1	0.95	0.38	6.59	39,39,39,39	0
59	MG	AD	303	1/1	0.92	0.52	6.56	62,62,62,62	0
59	MG	DA	3001	1/1	0.99	0.25	6.55	8,8,8,8	0
59	MG	AA	3640	1/1	0.92	0.22	6.52	45,45,45,45	0
59	MG	DA	3358	1/1	0.98	0.27	6.50	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DB	274	1/1	0.71	0.21	6.42	79,79,79,79	0
59	MG	AA	3398	1/1	0.96	0.24	6.38	30,30,30,30	0
59	MG	DA	3060	1/1	0.97	0.26	6.35	19,19,19,19	0
59	MG	CA	2255	1/1	0.81	0.29	6.32	95,95,95,95	0
59	MG	A8	104	1/1	0.87	0.29	6.27	68,68,68,68	0
59	MG	D1	211	1/1	0.90	0.33	6.26	49,49,49,49	0
59	MG	D1	206	1/1	0.72	0.28	6.19	68,68,68,68	0
59	MG	DA	3830	1/1	0.97	0.56	6.15	39,39,39,39	0
59	MG	DM	202	1/1	0.71	0.43	6.09	48,48,48,48	0
59	MG	AA	3477	1/1	0.83	0.28	6.07	65,65,65,65	0
59	MG	CA	1906	1/1	0.95	0.23	6.06	50,50,50,50	0
59	MG	AA	4137	1/1	0.54	0.26	6.06	90,90,90,90	0
59	MG	CA	1861	1/1	0.88	0.22	6.03	87,87,87,87	0
59	MG	DA	3471	1/1	0.84	0.21	6.00	27,27,27,27	0
59	MG	BA	1721	1/1	0.85	0.19	6.00	71,71,71,71	0
59	MG	DA	3018	1/1	0.94	0.24	5.98	20,20,20,20	0
59	MG	DR	202	1/1	0.92	0.51	5.96	60,60,60,60	0
59	MG	DA	3660	1/1	0.82	0.19	5.94	46,46,46,46	0
59	MG	DF	307	1/1	0.96	0.38	5.88	27,27,27,27	0
59	MG	DA	4703	1/1	0.94	0.30	5.87	49,49,49,49	0
59	MG	CA	2091	1/1	0.93	0.25	5.86	68,68,68,68	0
59	MG	CS	106	1/1	0.51	0.33	5.85	77,77,77,77	0
59	MG	CA	1708	1/1	0.89	0.19	5.85	58,58,58,58	0
59	MG	DA	4669	1/1	0.96	0.26	5.84	71,71,71,71	0
59	MG	AA	3551	1/1	0.95	0.35	5.83	44,44,44,44	0
59	MG	BT	201	1/1	0.92	0.45	5.81	110,110,110,110	0
59	MG	DA	3405	1/1	0.89	0.22	5.77	43,43,43,43	0
59	MG	DA	3033	1/1	0.99	0.28	5.74	13,13,13,13	0
59	MG	DA	3475	1/1	0.93	0.23	5.73	51,51,51,51	0
59	MG	CA	1981	1/1	0.82	0.20	5.72	78,78,78,78	0
59	MG	AA	3010	1/1	0.97	0.22	5.69	19,19,19,19	0
59	MG	DA	3903	1/1	0.97	0.27	5.69	42,42,42,42	0
59	MG	BA	1777	1/1	0.83	0.23	5.68	57,57,57,57	0
59	MG	DA	4093	1/1	0.93	0.25	5.65	85,85,85,85	0
59	MG	DU	210	1/1	0.92	0.42	5.60	107,107,107,107	0
59	MG	DA	3447	1/1	0.83	0.22	5.59	48,48,48,48	0
59	MG	DB	224	1/1	0.92	0.24	5.56	51,51,51,51	0
59	MG	AA	3101	1/1	0.97	0.29	5.56	38,38,38,38	0
59	MG	DA	4726	1/1	0.88	0.28	5.52	71,71,71,71	0
59	MG	DT	106	1/1	0.81	0.49	5.51	69,69,69,69	0
59	MG	DA	4603	1/1	0.88	0.23	5.46	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3172	1/1	0.89	0.28	5.44	37,37,37,37	0
59	MG	BA	1602	1/1	0.95	0.20	5.41	20,20,20,20	0
59	MG	DA	3046	1/1	0.93	0.30	5.41	12,12,12,12	0
59	MG	CA	1766	1/1	0.84	0.22	5.41	59,59,59,59	0
59	MG	BA	1722	1/1	0.69	0.29	5.35	54,54,54,54	0
59	MG	BA	2263	1/1	0.94	0.23	5.32	71,71,71,71	0
59	MG	DA	4508	1/1	0.89	0.32	5.32	58,58,58,58	0
59	MG	DA	4767	1/1	0.98	0.28	5.32	52,52,52,52	0
59	MG	AA	3132	1/1	0.97	0.27	5.23	44,44,44,44	0
59	MG	DA	3930	1/1	0.93	0.22	5.23	72,72,72,72	0
59	MG	DO	217	1/1	0.94	0.35	5.20	52,52,52,52	0
59	MG	DA	4100	1/1	0.78	0.23	5.19	72,72,72,72	0
59	MG	AA	4155	1/1	0.73	0.23	5.18	80,80,80,80	0
59	MG	DA	3809	1/1	0.84	0.20	5.13	82,82,82,82	0
59	MG	DD	301	1/1	0.87	0.41	5.10	45,45,45,45	0
59	MG	BA	1702	1/1	0.97	0.22	5.06	33,33,33,33	0
59	MG	DA	4151	1/1	0.80	0.25	5.04	66,66,66,66	0
59	MG	DA	4685	1/1	0.85	0.21	4.93	64,64,64,64	0
59	MG	DA	3184	1/1	0.88	0.27	4.89	40,40,40,40	0
59	MG	CA	2177	1/1	0.96	0.19	4.85	116,116,116,116	0
59	MG	AA	3706	1/1	0.95	0.21	4.84	44,44,44,44	0
59	MG	CA	2244	1/1	0.99	0.18	4.81	126,126,126,126	0
59	MG	AT	101	1/1	0.82	0.55	4.79	70,70,70,70	0
59	MG	DF	302	1/1	0.92	0.27	4.75	46,46,46,46	0
59	MG	D0	211	1/1	0.68	0.33	4.72	89,89,89,89	0
59	MG	D1	201	1/1	0.78	0.24	4.70	49,49,49,49	0
59	MG	DA	4701	1/1	0.62	0.30	4.68	64,64,64,64	0
59	MG	DA	3177	1/1	0.95	0.24	4.65	39,39,39,39	0
59	MG	AA	4007	1/1	0.72	0.30	4.62	94,94,94,94	0
59	MG	DA	3542	1/1	0.90	0.25	4.61	51,51,51,51	0
59	MG	DA	4454	1/1	0.76	0.54	4.59	51,51,51,51	0
59	MG	DA	3189	1/1	0.85	0.22	4.58	26,26,26,26	0
59	MG	DA	4210	1/1	0.86	0.21	4.56	53,53,53,53	0
59	MG	DA	4402	1/1	0.97	0.48	4.53	35,35,35,35	0
59	MG	AA	3821	1/1	0.68	0.17	4.53	69,69,69,69	0
59	MG	DA	3970	1/1	0.93	0.22	4.50	50,50,50,50	0
59	MG	BA	2170	1/1	0.58	0.38	4.46	151,151,151,151	0
59	MG	DA	3414	1/1	0.88	0.25	4.44	45,45,45,45	0
59	MG	DT	104	1/1	0.90	0.33	4.40	74,74,74,74	0
59	MG	DO	211	1/1	0.79	0.30	4.39	53,53,53,53	0
59	MG	BA	1719	1/1	0.93	0.18	4.37	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4172	1/1	0.99	0.23	4.36	41,41,41,41	0
59	MG	BA	1696	1/1	0.62	0.17	4.35	73,73,73,73	0
59	MG	CA	2238	1/1	0.90	0.26	4.33	65,65,65,65	0
59	MG	DA	3511	1/1	0.80	0.30	4.32	42,42,42,42	0
59	MG	CA	1643	1/1	0.96	0.22	4.31	51,51,51,51	0
59	MG	DA	4743	1/1	0.97	0.29	4.24	96,96,96,96	0
59	MG	BA	2187	1/1	0.39	0.24	4.23	107,107,107,107	0
59	MG	AA	3235	1/1	0.84	0.21	4.20	48,48,48,48	0
59	MG	DA	3240	1/1	0.96	0.22	4.20	32,32,32,32	0
59	MG	BK	202	1/1	0.83	0.30	4.19	80,80,80,80	0
59	MG	CA	1628	1/1	0.92	0.36	4.16	42,42,42,42	0
59	MG	BA	1752	1/1	0.92	0.18	4.10	48,48,48,48	0
59	MG	DA	3069	1/1	0.96	0.29	4.10	16,16,16,16	0
59	MG	AE	302	1/1	0.89	0.39	4.05	74,74,74,74	0
59	MG	DA	4913	1/1	0.96	0.22	4.05	74,74,74,74	0
59	MG	AA	3331	1/1	0.96	0.20	4.03	41,41,41,41	0
59	MG	DA	3729	1/1	0.97	0.23	4.03	52,52,52,52	0
59	MG	DA	3856	1/1	0.80	0.26	4.00	70,70,70,70	0
59	MG	DD	307	1/1	0.89	0.34	3.99	50,50,50,50	0
59	MG	DA	3245	1/1	0.83	0.24	3.99	41,41,41,41	0
59	MG	DA	3626	1/1	0.77	0.19	3.99	84,84,84,84	0
59	MG	CA	1604	1/1	0.93	0.24	3.98	10,10,10,10	0
59	MG	AA	3629	1/1	0.97	0.25	3.96	45,45,45,45	0
59	MG	DA	3078	1/1	0.93	0.26	3.96	17,17,17,17	0
59	MG	DA	4135	1/1	0.97	0.27	3.92	59,59,59,59	0
59	MG	AA	3523	1/1	0.98	0.23	3.90	42,42,42,42	0
59	MG	BM	201	1/1	0.72	0.23	3.88	64,64,64,64	0
59	MG	BA	2078	1/1	0.95	0.18	3.84	79,79,79,79	0
59	MG	AA	3576	1/1	0.84	0.17	3.78	37,37,37,37	0
59	MG	AA	3643	1/1	0.91	0.26	3.76	61,61,61,61	0
59	MG	AA	3048	1/1	0.98	0.20	3.72	41,41,41,41	0
59	MG	DA	3040	1/1	0.98	0.23	3.69	14,14,14,14	0
59	MG	DA	4830	1/1	0.90	0.30	3.64	64,64,64,64	0
59	MG	DA	3305	1/1	0.95	0.18	3.63	21,21,21,21	0
59	MG	CA	1638	1/1	0.83	0.22	3.63	51,51,51,51	0
59	MG	BA	1999	1/1	0.91	0.19	3.61	77,77,77,77	0
59	MG	BA	1642	1/1	0.81	0.17	3.58	45,45,45,45	0
59	MG	AA	3224	1/1	0.73	0.18	3.55	63,63,63,63	0
59	MG	CA	2017	1/1	0.86	0.22	3.53	57,57,57,57	0
59	MG	DA	3421	1/1	0.91	0.21	3.53	56,56,56,56	0
59	MG	BA	2131	1/1	0.86	0.18	3.50	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	2164	1/1	0.74	0.15	3.49	78,78,78,78	0
59	MG	DA	3241	1/1	0.96	0.22	3.48	20,20,20,20	0
59	MG	AA	3210	1/1	0.85	0.18	3.48	39,39,39,39	0
59	MG	AA	3714	1/1	0.82	0.20	3.48	70,70,70,70	0
59	MG	DA	4078	1/1	0.95	0.21	3.45	65,65,65,65	0
59	MG	BA	1692	1/1	0.93	0.23	3.37	34,34,34,34	0
59	MG	AA	4026	1/1	0.91	0.20	3.30	53,53,53,53	0
59	MG	DA	4459	1/1	0.96	0.33	3.30	35,35,35,35	0
59	MG	DA	3579	1/1	0.97	0.24	3.27	21,21,21,21	0
59	MG	DA	3082	1/1	0.99	0.23	3.27	27,27,27,27	0
59	MG	DA	4843	1/1	0.93	0.30	3.23	72,72,72,72	0
59	MG	DA	4437	1/1	0.94	0.25	3.23	27,27,27,27	0
59	MG	D1	204	1/1	0.97	0.23	3.20	59,59,59,59	0
59	MG	DA	3712	1/1	0.95	0.20	3.17	25,25,25,25	0
59	MG	AA	3824	1/1	0.64	0.21	3.16	94,94,94,94	0
59	MG	BA	2146	1/1	0.86	0.27	3.15	81,81,81,81	0
59	MG	DA	5008	1/1	0.91	0.25	3.14	57,57,57,57	0
59	MG	DA	4393	1/1	0.95	0.18	3.12	53,53,53,53	0
59	MG	DA	3737	1/1	0.97	0.23	3.12	36,36,36,36	0
59	MG	AA	3385	1/1	0.96	0.18	3.09	34,34,34,34	0
59	MG	DA	3572	1/1	0.86	0.22	3.09	51,51,51,51	0
59	MG	DB	205	1/1	0.96	0.20	3.07	27,27,27,27	0
59	MG	CA	1688	1/1	0.92	0.18	3.07	42,42,42,42	0
59	MG	DA	4640	1/1	0.93	0.21	3.05	66,66,66,66	0
59	MG	D3	105	1/1	0.95	0.32	3.03	48,48,48,48	0
59	MG	DA	4133	1/1	0.85	0.19	2.97	47,47,47,47	0
59	MG	CA	1605	1/1	0.95	0.19	2.96	36,36,36,36	0
59	MG	DA	3093	1/1	0.95	0.20	2.95	13,13,13,13	0
59	MG	DA	3284	1/1	0.90	0.20	2.92	27,27,27,27	0
59	MG	DA	3956	1/1	0.98	0.27	2.88	45,45,45,45	0
59	MG	DA	4531	1/1	0.97	0.23	2.86	57,57,57,57	0
59	MG	DA	3043	1/1	0.99	0.23	2.84	23,23,23,23	0
59	MG	CA	1695	1/1	0.93	0.23	2.82	50,50,50,50	0
59	MG	DA	3049	1/1	0.94	0.20	2.78	25,25,25,25	0
59	MG	AA	3178	1/1	0.91	0.23	2.77	41,41,41,41	0
59	MG	CA	2157	1/1	0.90	0.21	2.76	79,79,79,79	0
59	MG	DO	208	1/1	0.94	0.23	2.76	59,59,59,59	0
59	MG	CT	202	1/1	0.50	0.23	2.75	85,85,85,85	0
59	MG	DA	3144	1/1	0.95	0.20	2.75	36,36,36,36	0
59	MG	CA	2323	1/1	0.94	0.31	2.74	88,88,88,88	0
59	MG	AA	3976	1/1	0.84	0.20	2.74	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4878	1/1	0.91	0.29	2.72	50,50,50,50	0
59	MG	DD	309	1/1	0.93	0.26	2.71	57,57,57,57	0
59	MG	AA	3255	1/1	0.88	0.21	2.67	46,46,46,46	0
59	MG	DE	309	1/1	0.86	0.45	2.65	49,49,49,49	0
59	MG	CA	2041	1/1	0.81	0.16	2.65	64,64,64,64	0
59	MG	AA	3955	1/1	0.89	0.30	2.64	66,66,66,66	0
59	MG	CA	1629	1/1	0.98	0.22	2.62	34,34,34,34	0
59	MG	DA	4671	1/1	0.94	0.22	2.62	72,72,72,72	0
59	MG	DA	3351	1/1	0.95	0.22	2.62	39,39,39,39	0
59	MG	AA	3749	1/1	0.86	0.36	2.62	33,33,33,33	0
59	MG	DA	3073	1/1	0.95	0.21	2.58	16,16,16,16	0
59	MG	DA	4226	1/1	0.95	0.19	2.57	45,45,45,45	0
59	MG	CG	308	1/1	0.90	0.26	2.57	100,100,100,100	0
59	MG	CA	1910	1/1	0.84	0.24	2.54	54,54,54,54	0
59	MG	AA	3216	1/1	0.95	0.21	2.52	40,40,40,40	0
59	MG	CA	1607	1/1	0.98	0.21	2.51	20,20,20,20	0
59	MG	AA	3057	1/1	0.99	0.19	2.50	49,49,49,49	0
59	MG	DB	216	1/1	0.78	0.18	2.48	43,43,43,43	0
59	MG	DA	4499	1/1	0.93	0.21	2.45	51,51,51,51	0
59	MG	DA	3369	1/1	0.97	0.21	2.42	16,16,16,16	0
59	MG	DA	3899	1/1	0.98	0.20	2.41	8,8,8,8	0
59	MG	DA	3281	1/1	0.89	0.21	2.40	38,38,38,38	0
59	MG	CA	1706	1/1	0.94	0.19	2.38	41,41,41,41	0
59	MG	DA	4410	1/1	0.97	0.26	2.37	59,59,59,59	0
59	MG	DA	3035	1/1	0.97	0.20	2.37	15,15,15,15	0
59	MG	AA	3803	1/1	0.93	0.17	2.35	72,72,72,72	0
59	MG	AA	3396	1/1	0.78	0.17	2.31	58,58,58,58	0
59	MG	BA	2274	1/1	0.80	0.17	2.31	82,82,82,82	0
59	MG	BA	2083	1/1	0.81	0.17	2.31	86,86,86,86	0
59	MG	BA	1695	1/1	0.92	0.18	2.30	44,44,44,44	0
59	MG	DA	4157	1/1	0.98	0.23	2.30	37,37,37,37	0
59	MG	DA	4249	1/1	0.95	0.29	2.29	55,55,55,55	0
59	MG	CA	2314	1/1	0.47	0.29	2.24	92,92,92,92	0
59	MG	DB	248	1/1	0.92	0.18	2.24	76,76,76,76	0
59	MG	BA	1838	1/1	0.96	0.16	2.23	91,91,91,91	0
59	MG	DA	3169	1/1	0.85	0.17	2.21	59,59,59,59	0
59	MG	DA	4489	1/1	0.94	0.20	2.19	42,42,42,42	0
59	MG	DA	4425	1/1	0.95	0.27	2.18	109,109,109,109	0
59	MG	DA	4197	1/1	0.94	0.19	2.17	51,51,51,51	0
59	MG	CA	2207	1/1	0.96	0.15	2.16	70,70,70,70	0
59	MG	D8	102	1/1	0.96	0.40	2.11	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4566	1/1	0.88	0.18	2.10	64,64,64,64	0
59	MG	BA	1887	1/1	0.93	0.17	2.09	56,56,56,56	0
59	MG	CA	2274	1/1	0.88	0.16	2.07	54,54,54,54	0
59	MG	DA	4371	1/1	0.94	0.26	2.05	57,57,57,57	0
59	MG	CA	2132	1/1	0.56	0.16	2.04	80,80,80,80	0
59	MG	CE	302	1/1	0.69	0.30	2.04	98,98,98,98	0
59	MG	BW	201	1/1	0.82	0.17	2.02	88,88,88,88	0
59	MG	DS	203	1/1	0.89	0.28	2.00	54,54,54,54	0
59	MG	CA	1752	1/1	0.85	0.16	1.99	53,53,53,53	0
59	MG	DA	3042	1/1	0.92	0.20	1.98	21,21,21,21	0
59	MG	DA	3614	1/1	0.94	0.20	1.98	53,53,53,53	0
59	MG	DA	3621	1/1	0.71	0.19	1.97	51,51,51,51	0
59	MG	DA	3105	1/1	0.98	0.19	1.96	16,16,16,16	0
59	MG	DA	3639	1/1	0.92	0.21	1.96	66,66,66,66	0
59	MG	AA	3567	1/1	0.56	0.18	1.96	82,82,82,82	0
59	MG	AA	3185	1/1	0.91	0.20	1.90	29,29,29,29	0
59	MG	AA	3725	1/1	0.76	0.21	1.90	89,89,89,89	0
59	MG	AA	3315	1/1	0.83	0.16	1.88	49,49,49,49	0
59	MG	CA	1902	1/1	0.88	0.21	1.84	52,52,52,52	0
59	MG	DA	4139	1/1	0.88	0.21	1.84	36,36,36,36	0
59	MG	DA	3449	1/1	0.95	0.22	1.84	50,50,50,50	0
59	MG	DA	3149	1/1	0.90	0.19	1.84	18,18,18,18	0
59	MG	AA	3184	1/1	0.94	0.23	1.81	49,49,49,49	0
59	MG	BA	1609	1/1	0.95	0.16	1.81	36,36,36,36	0
59	MG	CA	2141	1/1	0.95	0.18	1.80	60,60,60,60	0
59	MG	DA	4679	1/1	0.89	0.18	1.79	47,47,47,47	0
59	MG	DA	4986	1/1	0.80	0.20	1.79	63,63,63,63	0
59	MG	DA	3960	1/1	0.91	0.16	1.78	54,54,54,54	0
59	MG	BA	1945	1/1	0.92	0.14	1.77	56,56,56,56	0
59	MG	BA	2219	1/1	0.80	0.17	1.74	60,60,60,60	0
59	MG	DA	3368	1/1	0.90	0.18	1.74	31,31,31,31	0
59	MG	CJ	201	1/1	0.77	0.27	1.69	89,89,89,89	0
59	MG	DF	316	1/1	0.93	0.21	1.62	84,84,84,84	0
59	MG	D2	206	1/1	0.92	0.21	1.60	55,55,55,55	0
59	MG	DA	3076	1/1	0.96	0.24	1.60	13,13,13,13	0
59	MG	AA	3001	1/1	0.98	0.18	1.58	21,21,21,21	0
59	MG	AA	3021	1/1	0.96	0.23	1.57	26,26,26,26	0
59	MG	DA	4150	1/1	0.97	0.18	1.56	47,47,47,47	0
59	MG	BA	1819	1/1	0.96	0.17	1.55	61,61,61,61	0
59	MG	CA	1701	1/1	0.86	0.19	1.55	56,56,56,56	0
59	MG	DA	3191	1/1	0.82	0.20	1.55	60,60,60,60	0
59	MG	DA	3003	1/1	0.95	0.20	1.53	11,11,11,11	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4409	1/1	0.84	0.25	1.52	75,75,75,75	0
59	MG	BK	204	1/1	0.75	0.24	1.51	74,74,74,74	0
59	MG	BA	1840	1/1	0.56	0.14	1.48	156,156,156,156	0
59	MG	CA	1648	1/1	0.88	0.17	1.48	36,36,36,36	0
59	MG	DA	3560	1/1	0.87	0.19	1.46	36,36,36,36	0
59	MG	DA	3627	1/1	0.88	0.20	1.45	40,40,40,40	0
59	MG	CA	1744	1/1	0.90	0.18	1.45	55,55,55,55	0
59	MG	DA	4526	1/1	0.73	0.27	1.44	53,53,53,53	0
59	MG	AA	3032	1/1	0.94	0.19	1.43	28,28,28,28	0
59	MG	AA	3698	1/1	0.75	0.18	1.42	64,64,64,64	0
59	MG	DA	3897	1/1	0.95	0.18	1.42	27,27,27,27	0
59	MG	DG	201	1/1	0.87	0.26	1.40	68,68,68,68	0
59	MG	AA	3339	1/1	0.94	0.13	1.35	50,50,50,50	0
59	MG	BA	2246	1/1	0.87	0.19	1.31	125,125,125,125	0
59	MG	AF	304	1/1	0.98	0.28	1.30	42,42,42,42	0
59	MG	DA	4752	1/1	0.78	0.20	1.27	84,84,84,84	0
59	MG	CG	309	1/1	0.84	0.36	1.24	78,78,78,78	0
59	MG	DA	3480	1/1	0.90	0.18	1.23	46,46,46,46	0
59	MG	DE	315	1/1	0.95	0.36	1.22	77,77,77,77	0
59	MG	DA	3198	1/1	0.94	0.17	1.22	21,21,21,21	0
59	MG	D2	203	1/1	0.99	0.19	1.21	57,57,57,57	0
59	MG	BA	2214	1/1	0.99	0.15	1.20	90,90,90,90	0
59	MG	BW	207	1/1	0.69	0.16	1.20	85,85,85,85	0
59	MG	AA	4039	1/1	0.93	0.16	1.19	95,95,95,95	0
59	MG	DA	3714	1/1	0.89	0.25	1.18	21,21,21,21	0
59	MG	DA	4310	1/1	0.83	0.19	1.16	56,56,56,56	0
60	ZN	D4	103	1/1	0.91	0.36	1.15	200,200,200,200	0
59	MG	DA	4801	1/1	0.86	0.17	1.14	54,54,54,54	0
59	MG	DA	3058	1/1	0.99	0.19	1.14	15,15,15,15	0
59	MG	AA	3397	1/1	0.74	0.17	1.14	56,56,56,56	0
59	MG	AA	3358	1/1	0.87	0.15	1.13	95,95,95,95	0
59	MG	CA	1933	1/1	0.96	0.18	1.13	60,60,60,60	0
59	MG	CG	311	1/1	0.93	0.20	1.12	150,150,150,150	0
59	MG	BA	1683	1/1	0.87	0.15	1.12	51,51,51,51	0
59	MG	A2	201	1/1	0.77	0.31	1.09	66,66,66,66	0
59	MG	AA	3957	1/1	0.92	0.15	1.08	74,74,74,74	0
59	MG	DA	3226	1/1	0.88	0.21	1.08	44,44,44,44	0
59	MG	DA	4756	1/1	0.97	0.18	1.05	57,57,57,57	0
59	MG	AT	104	1/1	0.93	0.29	1.02	89,89,89,89	0
59	MG	DB	221	1/1	0.98	0.17	1.02	35,35,35,35	0
59	MG	DA	3868	1/1	0.95	0.28	1.01	72,72,72,72	0
59	MG	CA	1929	1/1	0.76	0.19	1.01	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	D7	102	1/1	0.97	0.23	1.00	41,41,41,41	0
59	MG	DA	3697	1/1	0.99	0.18	1.00	6,6,6,6	0
59	MG	DA	3640	1/1	0.85	0.18	0.99	54,54,54,54	0
59	MG	DA	4173	1/1	0.85	0.18	0.99	60,60,60,60	0
59	MG	AA	3850	1/1	0.97	0.25	0.95	41,41,41,41	0
59	MG	CS	105	1/1	0.92	0.14	0.94	69,69,69,69	0
59	MG	BA	2010	1/1	0.63	0.17	0.93	61,61,61,61	0
59	MG	AA	3033	1/1	0.97	0.23	0.91	41,41,41,41	0
59	MG	AA	3817	1/1	0.74	0.17	0.91	66,66,66,66	0
59	MG	BA	1611	1/1	0.98	0.16	0.90	37,37,37,37	0
59	MG	DA	3156	1/1	0.96	0.24	0.90	27,27,27,27	0
59	MG	AA	3952	1/1	0.96	0.19	0.89	71,71,71,71	0
59	MG	DA	3893	1/1	0.98	0.17	0.88	7,7,7,7	0
59	MG	DA	3297	1/1	0.99	0.20	0.86	27,27,27,27	0
59	MG	CA	1895	1/1	0.93	0.15	0.86	58,58,58,58	0
59	MG	AA	3618	1/1	0.93	0.15	0.85	89,89,89,89	0
59	MG	AA	3005	1/1	0.89	0.20	0.84	17,17,17,17	0
59	MG	AA	3988	1/1	0.86	0.27	0.84	64,64,64,64	0
59	MG	BA	1880	1/1	0.96	0.16	0.84	60,60,60,60	0
59	MG	AA	3508	1/1	0.66	0.21	0.79	61,61,61,61	0
59	MG	AA	3108	1/1	0.97	0.18	0.79	41,41,41,41	0
59	MG	DA	3503	1/1	0.65	0.20	0.77	71,71,71,71	0
59	MG	CA	2042	1/1	0.77	0.15	0.77	57,57,57,57	0
59	MG	CA	2052	1/1	0.93	0.18	0.77	54,54,54,54	0
59	MG	CA	1903	1/1	0.94	0.14	0.76	56,56,56,56	0
59	MG	CC	120	1/1	0.90	0.28	0.75	44,44,44,44	0
59	MG	DA	3810	1/1	0.97	0.18	0.75	39,39,39,39	0
59	MG	AR	205	1/1	0.86	0.25	0.75	54,54,54,54	0
59	MG	DA	3028	1/1	0.98	0.20	0.75	18,18,18,18	0
59	MG	AA	3176	1/1	0.95	0.20	0.69	33,33,33,33	0
59	MG	CA	1725	1/1	0.92	0.18	0.66	55,55,55,55	0
59	MG	DA	4774	1/1	0.93	0.16	0.64	70,70,70,70	0
59	MG	CA	1609	1/1	0.97	0.15	0.64	31,31,31,31	0
59	MG	DA	4247	1/1	0.91	0.17	0.64	48,48,48,48	0
59	MG	BA	1985	1/1	0.54	0.16	0.63	105,105,105,105	0
59	MG	AA	3112	1/1	0.99	0.18	0.62	102,102,102,102	0
59	MG	DA	3411	1/1	0.84	0.20	0.62	56,56,56,56	0
59	MG	CA	2164	1/1	0.80	0.18	0.61	103,103,103,103	0
59	MG	DA	3097	1/1	0.96	0.17	0.61	21,21,21,21	0
59	MG	BA	2096	1/1	0.87	0.27	0.59	51,51,51,51	0
59	MG	AA	3675	1/1	0.72	0.15	0.57	71,71,71,71	0
59	MG	DA	3238	1/1	0.97	0.17	0.57	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3948	1/1	0.70	0.16	0.53	72,72,72,72	0
59	MG	BA	1922	1/1	0.90	0.11	0.52	71,71,71,71	0
59	MG	AA	3626	1/1	0.93	0.22	0.51	48,48,48,48	0
59	MG	AA	3461	1/1	0.87	0.19	0.51	58,58,58,58	0
59	MG	AA	3251	1/1	0.98	0.18	0.49	24,24,24,24	0
59	MG	CQ	102	1/1	0.97	0.19	0.49	51,51,51,51	0
60	ZN	BG	308	1/1	0.99	0.25	0.48	71,71,71,71	0
59	MG	CA	1700	1/1	0.65	0.18	0.47	39,39,39,39	0
59	MG	DA	4014	1/1	0.94	0.22	0.47	50,50,50,50	0
60	ZN	CG	301	1/1	0.96	0.24	0.46	74,74,74,74	0
59	MG	AA	3105	1/1	0.92	0.21	0.43	50,50,50,50	0
59	MG	DA	3561	1/1	0.89	0.20	0.41	51,51,51,51	0
59	MG	DA	3009	1/1	0.99	0.18	0.41	10,10,10,10	0
59	MG	AA	3006	1/1	0.98	0.18	0.40	14,14,14,14	0
59	MG	AA	3500	1/1	0.98	0.18	0.36	22,22,22,22	0
59	MG	CA	2276	1/1	0.97	0.16	0.35	69,69,69,69	0
59	MG	DZ	105	1/1	0.94	0.40	0.35	54,54,54,54	0
60	ZN	A4	101	1/1	0.64	0.59	0.35	200,200,200,200	0
59	MG	CK	208	1/1	0.69	0.21	0.34	69,69,69,69	0
59	MG	DA	3131	1/1	0.90	0.17	0.34	32,32,32,32	0
59	MG	DA	4507	1/1	0.94	0.16	0.34	88,88,88,88	0
59	MG	DA	4405	1/1	0.85	0.17	0.33	40,40,40,40	0
59	MG	CK	209	1/1	0.73	0.20	0.33	60,60,60,60	0
59	MG	DA	4736	1/1	0.94	0.17	0.31	77,77,77,77	0
59	MG	CA	2171	1/1	0.91	0.14	0.30	115,115,115,115	0
59	MG	BA	2052	1/1	0.58	0.14	0.29	128,128,128,128	0
59	MG	CH	206	1/1	0.92	0.18	0.29	70,70,70,70	0
59	MG	AA	4071	1/1	0.97	0.17	0.29	70,70,70,70	0
59	MG	CA	1710	1/1	0.91	0.17	0.29	30,30,30,30	0
59	MG	AB	207	1/1	0.77	0.16	0.27	74,74,74,74	0
59	MG	AA	3614	1/1	0.92	0.14	0.27	62,62,62,62	0
59	MG	AA	3207	1/1	0.97	0.20	0.24	30,30,30,30	0
59	MG	DA	4583	1/1	0.87	0.17	0.23	51,51,51,51	0
59	MG	AA	3503	1/1	0.91	0.17	0.22	23,23,23,23	0
59	MG	AA	3543	1/1	0.84	0.14	0.22	77,77,77,77	0
59	MG	AE	304	1/1	0.87	0.19	0.22	83,83,83,83	0
59	MG	AA	3533	1/1	0.86	0.18	0.21	44,44,44,44	0
59	MG	DA	3300	1/1	0.97	0.17	0.20	27,27,27,27	0
59	MG	CA	2215	1/1	0.87	0.19	0.20	63,63,63,63	0
59	MG	BS	109	1/1	0.84	0.15	0.20	110,110,110,110	0
59	MG	DE	301	1/1	0.94	0.18	0.20	19,19,19,19	0
59	MG	AA	3504	1/1	0.99	0.16	0.20	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BE	303	1/1	0.88	0.16	0.18	94,94,94,94	0
59	MG	AA	3511	1/1	0.95	0.15	0.18	26,26,26,26	0
59	MG	AA	3916	1/1	0.99	0.15	0.17	93,93,93,93	0
59	MG	AB	220	1/1	0.79	0.17	0.16	79,79,79,79	0
59	MG	CG	307	1/1	0.82	0.14	0.15	106,106,106,106	0
59	MG	CA	2230	1/1	0.68	0.14	0.12	92,92,92,92	0
59	MG	CA	1955	1/1	0.49	0.18	0.12	58,58,58,58	0
59	MG	AZ	102	1/1	0.79	0.22	0.11	50,50,50,50	0
59	MG	DA	4335	1/1	0.93	0.20	0.10	50,50,50,50	0
59	MG	AA	3549	1/1	0.90	0.17	0.10	44,44,44,44	0
59	MG	BA	2076	1/1	0.91	0.13	0.09	85,85,85,85	0
59	MG	AA	3925	1/1	0.86	0.17	0.09	71,71,71,71	0
59	MG	AA	3557	1/1	0.86	0.32	0.07	89,89,89,89	0
59	MG	D0	204	1/1	0.93	0.19	0.06	27,27,27,27	0
59	MG	AA	3633	1/1	0.71	0.21	0.04	41,41,41,41	0
59	MG	CA	1620	1/1	0.95	0.15	0.04	39,39,39,39	0
59	MG	CA	1905	1/1	0.86	0.15	0.04	81,81,81,81	0
59	MG	BA	2275	1/1	0.44	0.17	0.03	145,145,145,145	0
59	MG	CA	1614	1/1	0.95	0.21	0.01	41,41,41,41	0
59	MG	DA	4034	1/1	0.91	0.40	0.01	71,71,71,71	0
59	MG	BA	2092	1/1	0.86	0.15	0.01	77,77,77,77	0
59	MG	D8	107	1/1	0.97	0.22	-0.00	44,44,44,44	0
59	MG	AA	3544	1/1	0.84	0.19	-0.01	62,62,62,62	0
59	MG	AA	3106	1/1	0.90	0.18	-0.01	17,17,17,17	0
59	MG	AA	3177	1/1	0.98	0.19	-0.02	26,26,26,26	0
59	MG	D3	103	1/1	0.89	0.22	-0.02	23,23,23,23	0
59	MG	DA	4677	1/1	0.93	0.18	-0.04	61,61,61,61	0
59	MG	DS	208	1/1	0.97	0.18	-0.04	54,54,54,54	0
59	MG	BA	2181	1/1	0.93	0.17	-0.05	93,93,93,93	0
59	MG	AA	3751	1/1	0.85	0.22	-0.05	48,48,48,48	0
59	MG	AA	4038	1/1	0.94	0.14	-0.06	77,77,77,77	0
59	MG	CA	2161	1/1	0.94	0.19	-0.10	96,96,96,96	0
59	MG	AD	313	1/1	0.96	0.18	-0.10	39,39,39,39	0
59	MG	CA	2040	1/1	0.88	0.15	-0.11	56,56,56,56	0
59	MG	AD	307	1/1	0.91	0.19	-0.12	51,51,51,51	0
59	MG	DA	3228	1/1	0.92	0.16	-0.12	36,36,36,36	0
59	MG	DA	4198	1/1	0.97	0.17	-0.13	45,45,45,45	0
59	MG	DB	246	1/1	0.81	0.17	-0.14	52,52,52,52	0
59	MG	AA	3526	1/1	0.81	0.14	-0.14	75,75,75,75	0
59	MG	CA	1928	1/1	0.80	0.16	-0.15	78,78,78,78	0
59	MG	AB	232	1/1	0.93	0.27	-0.15	70,70,70,70	0
59	MG	BL	202	1/1	0.69	0.14	-0.16	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AB	229	1/1	0.62	0.14	-0.17	67,67,67,67	0
59	MG	DA	3096	1/1	0.93	0.15	-0.18	7,7,7,7	0
59	MG	AA	3534	1/1	0.94	0.18	-0.19	32,32,32,32	0
59	MG	CA	1619	1/1	0.98	0.16	-0.20	24,24,24,24	0
59	MG	DP	201	1/1	0.92	0.19	-0.20	29,29,29,29	0
59	MG	CE	304	1/1	0.92	0.12	-0.20	62,62,62,62	0
59	MG	AA	3011	1/1	0.98	0.18	-0.20	17,17,17,17	0
59	MG	AA	3734	1/1	0.95	0.25	-0.20	49,49,49,49	0
59	MG	DK	201	1/1	0.89	0.24	-0.21	71,71,71,71	0
59	MG	CK	205	1/1	0.77	0.16	-0.22	75,75,75,75	0
59	MG	DA	3163	1/1	0.93	0.18	-0.22	39,39,39,39	0
59	MG	CD	106	1/1	0.81	0.27	-0.22	88,88,88,88	0
59	MG	CA	1914	1/1	0.85	0.12	-0.23	58,58,58,58	0
59	MG	AA	4114	1/1	0.94	0.16	-0.23	92,92,92,92	0
59	MG	DA	3231	1/1	0.92	0.15	-0.25	9,9,9,9	0
59	MG	AU	203	1/1	0.87	0.23	-0.28	74,74,74,74	0
59	MG	DA	4327	1/1	0.85	0.20	-0.28	51,51,51,51	0
59	MG	AO	204	1/1	0.88	0.27	-0.28	43,43,43,43	0
59	MG	DA	4179	1/1	0.96	0.16	-0.28	57,57,57,57	0
59	MG	DA	4564	1/1	0.93	0.16	-0.30	39,39,39,39	0
59	MG	AA	3434	1/1	0.67	0.12	-0.30	65,65,65,65	0
59	MG	DA	3780	1/1	0.96	0.16	-0.33	32,32,32,32	0
59	MG	A1	201	1/1	0.83	0.17	-0.33	60,60,60,60	0
59	MG	A1	203	1/1	0.92	0.21	-0.33	77,77,77,77	0
59	MG	DA	3549	1/1	0.79	0.17	-0.33	40,40,40,40	0
59	MG	BA	2133	1/1	0.90	0.15	-0.34	122,122,122,122	0
59	MG	D8	103	1/1	0.88	0.21	-0.35	76,76,76,76	0
59	MG	DA	4619	1/1	0.94	0.17	-0.35	49,49,49,49	0
59	MG	CA	1622	1/1	0.96	0.14	-0.35	51,51,51,51	0
59	MG	CC	108	1/1	0.87	0.14	-0.38	57,57,57,57	0
59	MG	DE	303	1/1	0.88	0.20	-0.38	52,52,52,52	0
59	MG	AA	3498	1/1	0.96	0.20	-0.38	52,52,52,52	0
59	MG	DY	201	1/1	0.76	0.23	-0.38	100,100,100,100	0
59	MG	AA	3527	1/1	0.80	0.16	-0.38	34,34,34,34	0
59	MG	CB	116	1/1	0.45	0.23	-0.40	89,89,89,89	0
59	MG	AA	3088	1/1	0.85	0.15	-0.40	51,51,51,51	0
59	MG	AA	3111	1/1	0.98	0.14	-0.40	46,46,46,46	0
59	MG	BA	2217	1/1	0.82	0.14	-0.40	108,108,108,108	0
59	MG	DA	4850	1/1	0.99	0.15	-0.41	38,38,38,38	0
59	MG	DE	310	1/1	0.91	0.27	-0.41	52,52,52,52	0
59	MG	DA	4351	1/1	0.91	0.17	-0.41	43,43,43,43	0
59	MG	CA	1869	1/1	0.96	0.14	-0.45	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BQ	103	1/1	0.80	0.17	-0.47	69,69,69,69	0
59	MG	DA	3891	1/1	0.82	0.13	-0.47	82,82,82,82	0
59	MG	AA	3167	1/1	0.95	0.16	-0.47	61,61,61,61	0
59	MG	BA	2021	1/1	0.82	0.12	-0.47	84,84,84,84	0
59	MG	DA	3650	1/1	1.00	0.17	-0.48	37,37,37,37	0
59	MG	DD	306	1/1	0.91	0.17	-0.51	51,51,51,51	0
59	MG	BE	301	1/1	0.65	0.15	-0.52	63,63,63,63	0
59	MG	CA	1937	1/1	0.74	0.15	-0.52	73,73,73,73	0
59	MG	CA	2270	1/1	0.79	0.16	-0.52	68,68,68,68	0
59	MG	DA	3927	1/1	0.95	0.14	-0.53	66,66,66,66	0
59	MG	AA	3529	1/1	0.87	0.15	-0.53	29,29,29,29	0
59	MG	AA	3222	1/1	0.98	0.18	-0.54	28,28,28,28	0
59	MG	DR	204	1/1	0.87	0.19	-0.56	40,40,40,40	0
59	MG	AA	4060	1/1	0.68	0.13	-0.56	70,70,70,70	0
59	MG	AA	3678	1/1	0.71	0.12	-0.57	49,49,49,49	0
59	MG	AQ	201	1/1	0.91	0.18	-0.57	56,56,56,56	0
59	MG	DA	4471	1/1	0.96	0.15	-0.57	46,46,46,46	0
59	MG	DA	3648	1/1	0.94	0.17	-0.57	51,51,51,51	0
59	MG	AA	3387	1/1	0.82	0.16	-0.58	40,40,40,40	0
59	MG	DA	4434	1/1	0.99	0.17	-0.59	59,59,59,59	0
59	MG	AA	3273	1/1	0.93	0.14	-0.59	30,30,30,30	0
59	MG	DH	202	1/1	0.87	0.16	-0.60	59,59,59,59	0
59	MG	D6	103	1/1	0.69	0.43	-0.60	63,63,63,63	0
59	MG	AA	3063	1/1	0.97	0.14	-0.60	27,27,27,27	0
59	MG	CR	102	1/1	0.94	0.16	-0.61	43,43,43,43	0
59	MG	AO	201	1/1	0.95	0.16	-0.61	50,50,50,50	0
59	MG	DA	4556	1/1	0.95	0.16	-0.64	41,41,41,41	0
59	MG	AA	3056	1/1	0.90	0.13	-0.64	63,63,63,63	0
59	MG	AA	3412	1/1	0.93	0.16	-0.64	30,30,30,30	0
59	MG	BA	2009	1/1	0.83	0.13	-0.66	63,63,63,63	0
59	MG	DF	304	1/1	0.91	0.16	-0.66	29,29,29,29	0
59	MG	AU	206	1/1	0.81	0.25	-0.66	75,75,75,75	0
59	MG	DU	216	1/1	0.97	0.17	-0.69	80,80,80,80	0
59	MG	CQ	103	1/1	0.94	0.15	-0.69	51,51,51,51	0
59	MG	DA	4581	1/1	0.87	0.14	-0.71	55,55,55,55	0
59	MG	D8	108	1/1	0.96	0.17	-0.71	52,52,52,52	0
59	MG	AA	3082	1/1	0.95	0.14	-0.71	48,48,48,48	0
59	MG	AA	3261	1/1	0.90	0.16	-0.74	40,40,40,40	0
59	MG	AA	3389	1/1	0.97	0.15	-0.76	67,67,67,67	0
59	MG	D5	107	1/1	0.87	0.27	-0.77	59,59,59,59	0
59	MG	DA	4750	1/1	0.92	0.15	-0.78	68,68,68,68	0
59	MG	BA	2020	1/1	0.89	0.13	-0.79	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	1956	1/1	0.76	0.14	-0.79	74,74,74,74	0
59	MG	BA	1727	1/1	0.97	0.15	-0.79	52,52,52,52	0
59	MG	AA	3393	1/1	0.84	0.15	-0.81	63,63,63,63	0
59	MG	DY	204	1/1	0.78	0.14	-0.81	85,85,85,85	0
59	MG	AA	3559	1/1	0.91	0.19	-0.82	50,50,50,50	0
59	MG	BS	107	1/1	0.94	0.11	-0.83	90,90,90,90	0
59	MG	AA	3747	1/1	0.77	0.16	-0.84	53,53,53,53	0
59	MG	DO	209	1/1	0.98	0.16	-0.84	60,60,60,60	0
59	MG	DF	303	1/1	0.88	0.17	-0.84	28,28,28,28	0
59	MG	CA	1889	1/1	0.98	0.12	-0.84	59,59,59,59	0
59	MG	DT	101	1/1	0.83	0.16	-0.84	54,54,54,54	0
59	MG	CA	1613	1/1	0.97	0.12	-0.85	41,41,41,41	0
59	MG	AA	3683	1/1	0.88	0.16	-0.86	46,46,46,46	0
59	MG	AA	3672	1/1	0.85	0.16	-0.86	55,55,55,55	0
59	MG	AO	205	1/1	0.92	0.17	-0.87	52,52,52,52	0
59	MG	DA	3317	1/1	0.93	0.13	-0.88	86,86,86,86	0
60	ZN	BQ	104	1/1	0.96	0.11	-0.91	97,97,97,97	0
59	MG	DA	4242	1/1	0.97	0.17	-0.91	49,49,49,49	0
59	MG	DA	3437	1/1	0.99	0.15	-0.91	47,47,47,47	0
59	MG	DM	201	1/1	0.91	0.20	-0.92	29,29,29,29	0
59	MG	DF	301	1/1	0.94	0.17	-0.94	28,28,28,28	0
59	MG	BA	1905	1/1	0.84	0.11	-0.95	74,74,74,74	0
59	MG	DE	304	1/1	0.97	0.15	-0.95	47,47,47,47	0
59	MG	AA	3458	1/1	0.92	0.10	-0.95	49,49,49,49	0
59	MG	AA	3308	1/1	0.93	0.10	-0.95	38,38,38,38	0
59	MG	CA	1969	1/1	0.95	0.13	-0.96	85,85,85,85	0
59	MG	AA	3462	1/1	0.96	0.15	-0.97	32,32,32,32	0
59	MG	BA	1668	1/1	0.87	0.12	-0.98	56,56,56,56	0
59	MG	BA	1901	1/1	0.94	0.08	-0.99	82,82,82,82	0
59	MG	DB	207	1/1	0.82	0.12	-1.00	64,64,64,64	0
59	MG	AA	3686	1/1	0.97	0.14	-1.03	49,49,49,49	0
59	MG	CC	102	1/1	0.96	0.15	-1.04	28,28,28,28	0
59	MG	DA	3687	1/1	0.98	0.16	-1.04	41,41,41,41	0
59	MG	DB	227	1/1	0.85	0.14	-1.05	59,59,59,59	0
59	MG	CA	1919	1/1	0.87	0.13	-1.05	50,50,50,50	0
59	MG	DA	4903	1/1	0.88	0.13	-1.06	69,69,69,69	0
59	MG	DA	4235	1/1	0.94	0.13	-1.07	44,44,44,44	0
59	MG	DB	260	1/1	0.89	0.12	-1.07	63,63,63,63	0
59	MG	AA	3018	1/1	0.92	0.16	-1.07	22,22,22,22	0
59	MG	DA	3077	1/1	0.84	0.15	-1.09	47,47,47,47	0
59	MG	BA	2042	1/1	0.64	0.09	-1.10	95,95,95,95	0
59	MG	AP	201	1/1	0.93	0.16	-1.11	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	1801	1/1	0.95	0.12	-1.11	44,44,44,44	0
59	MG	AA	3075	1/1	0.94	0.14	-1.13	33,33,33,33	0
59	MG	D3	102	1/1	0.86	0.17	-1.13	47,47,47,47	0
59	MG	BA	2004	1/1	0.89	0.12	-1.13	69,69,69,69	0
59	MG	CV	103	1/1	0.80	0.14	-1.14	84,84,84,84	0
59	MG	AA	3515	1/1	0.94	0.14	-1.15	20,20,20,20	0
59	MG	DD	303	1/1	0.94	0.12	-1.17	16,16,16,16	0
59	MG	BH	203	1/1	0.94	0.13	-1.18	89,89,89,89	0
59	MG	AB	230	1/1	0.87	0.16	-1.19	76,76,76,76	0
59	MG	CA	1659	1/1	0.91	0.15	-1.19	41,41,41,41	0
59	MG	AA	3521	1/1	0.92	0.15	-1.20	32,32,32,32	0
59	MG	DA	4654	1/1	0.94	0.17	-1.21	69,69,69,69	0
59	MG	D8	101	1/1	0.90	0.17	-1.21	42,42,42,42	0
59	MG	AA	3664	1/1	0.97	0.13	-1.23	68,68,68,68	0
59	MG	BA	2157	1/1	0.80	0.13	-1.23	72,72,72,72	0
59	MG	AA	3512	1/1	0.93	0.09	-1.24	31,31,31,31	0
59	MG	AQ	202	1/1	0.91	0.12	-1.24	94,94,94,94	0
60	ZN	CQ	101	1/1	0.98	0.09	-1.26	114,114,114,114	0
59	MG	DA	3366	1/1	0.85	0.13	-1.27	35,35,35,35	0
59	MG	AA	3377	1/1	0.98	0.14	-1.27	19,19,19,19	0
59	MG	D0	206	1/1	0.92	0.14	-1.27	45,45,45,45	0
59	MG	DA	4470	1/1	0.95	0.16	-1.28	41,41,41,41	0
59	MG	DU	206	1/1	0.97	0.12	-1.28	47,47,47,47	0
59	MG	AA	3015	1/1	0.99	0.15	-1.29	19,19,19,19	0
59	MG	AA	3554	1/1	0.66	0.14	-1.30	86,86,86,86	0
59	MG	CA	1900	1/1	0.95	0.09	-1.30	74,74,74,74	0
59	MG	AA	3381	1/1	0.98	0.16	-1.32	32,32,32,32	0
59	MG	DA	3591	1/1	0.93	0.15	-1.33	16,16,16,16	0
59	MG	DA	3654	1/1	0.77	0.17	-1.34	40,40,40,40	0
59	MG	AT	102	1/1	0.93	0.14	-1.34	57,57,57,57	0
59	MG	DA	4279	1/1	0.78	0.12	-1.36	72,72,72,72	0
59	MG	BA	1993	1/1	0.96	0.13	-1.37	60,60,60,60	0
59	MG	CA	1646	1/1	0.79	0.13	-1.38	53,53,53,53	0
59	MG	DH	201	1/1	0.88	0.15	-1.38	48,48,48,48	0
59	MG	AA	3647	1/1	0.91	0.12	-1.39	25,25,25,25	0
59	MG	DB	237	1/1	0.89	0.10	-1.39	57,57,57,57	0
59	MG	CA	1606	1/1	0.98	0.13	-1.40	22,22,22,22	0
59	MG	CA	2096	1/1	0.89	0.12	-1.41	60,60,60,60	0
59	MG	BA	2189	1/1	0.83	0.11	-1.42	140,140,140,140	0
59	MG	AA	3014	1/1	0.96	0.14	-1.43	20,20,20,20	0
59	MG	AA	3206	1/1	0.98	0.10	-1.45	40,40,40,40	0
59	MG	AA	3670	1/1	0.83	0.14	-1.45	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BH	205	1/1	0.77	0.10	-1.45	78,78,78,78	0
59	MG	DA	3841	1/1	0.95	0.13	-1.45	50,50,50,50	0
59	MG	BG	303	1/1	0.93	0.10	-1.46	59,59,59,59	0
59	MG	D4	102	1/1	0.95	0.19	-1.46	86,86,86,86	0
59	MG	CE	303	1/1	0.88	0.12	-1.47	83,83,83,83	0
59	MG	AA	3945	1/1	0.95	0.12	-1.47	108,108,108,108	0
59	MG	CA	1702	1/1	0.88	0.14	-1.47	45,45,45,45	0
59	MG	CD	112	1/1	0.83	0.13	-1.47	142,142,142,142	0
59	MG	CD	110	1/1	0.75	0.10	-1.49	77,77,77,77	0
59	MG	A6	101	1/1	0.91	0.07	-1.49	55,55,55,55	0
59	MG	CA	1988	1/1	0.87	0.10	-1.50	57,57,57,57	0
59	MG	DA	4584	1/1	0.96	0.14	-1.50	40,40,40,40	0
59	MG	DE	306	1/1	0.82	0.11	-1.51	45,45,45,45	0
59	MG	DA	4220	1/1	0.99	0.10	-1.52	40,40,40,40	0
59	MG	BS	105	1/1	0.80	0.10	-1.52	89,89,89,89	0
59	MG	CA	1618	1/1	0.94	0.12	-1.53	24,24,24,24	0
59	MG	CA	1734	1/1	0.93	0.12	-1.54	38,38,38,38	0
59	MG	AA	3953	1/1	0.93	0.13	-1.54	60,60,60,60	0
59	MG	AA	3066	1/1	0.97	0.11	-1.54	17,17,17,17	0
59	MG	CA	1665	1/1	0.93	0.15	-1.57	31,31,31,31	0
59	MG	CA	2093	1/1	0.98	0.10	-1.59	64,64,64,64	0
59	MG	CA	1979	1/1	0.83	0.13	-1.60	58,58,58,58	0
59	MG	AA	3095	1/1	0.98	0.17	-1.61	18,18,18,18	0
59	MG	AA	4013	1/1	0.85	0.09	-1.61	119,119,119,119	0
59	MG	DA	3679	1/1	0.78	0.07	-1.61	69,69,69,69	0
59	MG	AA	4016	1/1	0.83	0.37	-1.62	111,111,111,111	0
59	MG	DO	201	1/1	0.97	0.12	-1.62	32,32,32,32	0
59	MG	DA	3253	1/1	0.90	0.16	-1.62	15,15,15,15	0
59	MG	DA	4318	1/1	0.94	0.14	-1.63	50,50,50,50	0
59	MG	DA	3020	1/1	0.97	0.14	-1.64	21,21,21,21	0
59	MG	CD	121	1/1	0.88	0.10	-1.64	133,133,133,133	0
59	MG	AA	3864	1/1	0.79	0.11	-1.65	48,48,48,48	0
59	MG	BA	2031	1/1	0.96	0.11	-1.65	71,71,71,71	0
59	MG	AA	3077	1/1	0.79	0.14	-1.66	63,63,63,63	0
59	MG	BV	101	1/1	0.96	0.12	-1.68	73,73,73,73	0
59	MG	DA	3742	1/1	0.97	0.15	-1.69	65,65,65,65	0
59	MG	DU	201	1/1	0.94	0.14	-1.70	36,36,36,36	0
59	MG	AA	3342	1/1	0.73	0.15	-1.73	63,63,63,63	0
59	MG	DA	4224	1/1	0.90	0.09	-1.75	90,90,90,90	0
59	MG	BA	1926	1/1	0.76	0.11	-1.76	53,53,53,53	0
59	MG	AA	3118	1/1	0.64	0.13	-1.76	52,52,52,52	0
59	MG	CA	1922	1/1	0.93	0.10	-1.78	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3545	1/1	0.81	0.18	-1.78	56,56,56,56	0
59	MG	DA	4995	1/1	0.46	0.07	-1.79	121,121,121,121	0
59	MG	DA	3299	1/1	0.91	0.14	-1.79	33,33,33,33	0
59	MG	CP	201	1/1	0.99	0.08	-1.80	54,54,54,54	0
59	MG	DA	3605	1/1	0.83	0.14	-1.80	29,29,29,29	0
59	MG	AA	3829	1/1	0.90	0.08	-1.82	88,88,88,88	0
59	MG	CB	121	1/1	0.38	0.15	-1.82	101,101,101,101	0
59	MG	CD	120	1/1	0.96	0.06	-1.83	98,98,98,98	0
59	MG	AF	303	1/1	0.90	0.12	-1.84	68,68,68,68	0
59	MG	AA	3013	1/1	0.97	0.14	-1.85	49,49,49,49	0
59	MG	DA	3904	1/1	0.61	0.14	-1.85	105,105,105,105	0
59	MG	CA	2206	1/1	0.89	0.12	-1.87	52,52,52,52	0
59	MG	AA	3970	1/1	0.96	0.10	-1.90	47,47,47,47	0
59	MG	CA	2082	1/1	0.94	0.09	-1.90	63,63,63,63	0
59	MG	AA	3509	1/1	0.99	0.16	-1.90	19,19,19,19	0
59	MG	CA	2162	1/1	0.85	0.09	-1.92	79,79,79,79	0
59	MG	BQ	102	1/1	0.71	0.10	-1.94	63,63,63,63	0
59	MG	BA	1608	1/1	0.95	0.11	-1.96	47,47,47,47	0
59	MG	BA	2008	1/1	0.94	0.07	-1.98	50,50,50,50	0
59	MG	DA	4299	1/1	0.93	0.11	-2.00	72,72,72,72	0
59	MG	BA	1684	1/1	0.93	0.13	-2.01	36,36,36,36	0
59	MG	DA	3915	1/1	0.96	0.14	-2.02	28,28,28,28	0
59	MG	DA	4106	1/1	0.93	0.13	-2.03	65,65,65,65	0
59	MG	DA	4490	1/1	0.60	0.07	-2.04	125,125,125,125	0
59	MG	BA	1793	1/1	0.81	0.11	-2.04	57,57,57,57	0
59	MG	AA	3169	1/1	0.96	0.09	-2.05	11,11,11,11	0
59	MG	DA	4910	1/1	0.80	0.13	-2.05	67,67,67,67	0
59	MG	BA	1989	1/1	0.94	0.04	-2.05	75,75,75,75	0
59	MG	AA	3424	1/1	0.94	0.13	-2.05	54,54,54,54	0
59	MG	DA	3006	1/1	0.97	0.13	-2.09	14,14,14,14	0
59	MG	AA	3150	1/1	0.95	0.13	-2.10	29,29,29,29	0
59	MG	DA	3316	1/1	0.99	0.11	-2.11	43,43,43,43	0
59	MG	AA	3016	1/1	0.94	0.14	-2.12	9,9,9,9	0
59	MG	BA	2127	1/1	0.86	0.10	-2.13	50,50,50,50	0
59	MG	DA	3273	1/1	0.98	0.15	-2.13	18,18,18,18	0
59	MG	BL	201	1/1	0.66	0.20	-2.15	86,86,86,86	0
59	MG	DA	4098	1/1	0.91	0.13	-2.15	43,43,43,43	0
59	MG	DA	3408	1/1	0.78	0.14	-2.19	41,41,41,41	0
59	MG	BA	2253	1/1	0.88	0.11	-2.21	103,103,103,103	0
59	MG	DA	4912	1/1	0.92	0.14	-2.21	42,42,42,42	0
59	MG	CL	201	1/1	0.95	0.09	-2.24	54,54,54,54	0
59	MG	BA	1791	1/1	0.98	0.10	-2.25	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3635	1/1	0.95	0.13	-2.25	54,54,54,54	0
59	MG	AA	3982	1/1	0.89	0.11	-2.26	71,71,71,71	0
59	MG	CA	2226	1/1	0.96	0.12	-2.27	53,53,53,53	0
59	MG	BA	1733	1/1	0.94	0.07	-2.29	46,46,46,46	0
59	MG	A5	103	1/1	0.82	0.12	-2.31	54,54,54,54	0
59	MG	D8	106	1/1	0.92	0.08	-2.31	41,41,41,41	0
59	MG	AA	3677	1/1	0.97	0.13	-2.32	60,60,60,60	0
59	MG	AA	3378	1/1	0.98	0.12	-2.32	50,50,50,50	0
59	MG	CA	2176	1/1	0.94	0.06	-2.33	62,62,62,62	0
59	MG	CA	2024	1/1	0.92	0.05	-2.33	96,96,96,96	0
59	MG	DA	3975	1/1	0.87	0.14	-2.34	50,50,50,50	0
59	MG	BA	1889	1/1	0.93	0.07	-2.39	37,37,37,37	0
59	MG	AA	3186	1/1	0.98	0.09	-2.40	19,19,19,19	0
59	MG	DA	4236	1/1	0.88	0.12	-2.40	52,52,52,52	0
59	MG	AA	3281	1/1	0.97	0.10	-2.40	45,45,45,45	0
59	MG	BA	1703	1/1	0.92	0.12	-2.43	40,40,40,40	0
59	MG	AA	3896	1/1	0.98	0.13	-2.44	99,99,99,99	0
59	MG	DA	5069	1/1	0.89	0.14	-2.44	66,66,66,66	0
59	MG	AA	3094	1/1	0.95	0.14	-2.47	21,21,21,21	0
59	MG	DA	4010	1/1	0.95	0.12	-2.48	91,91,91,91	0
59	MG	DA	3423	1/1	0.80	0.12	-2.48	58,58,58,58	0
59	MG	BC	113	1/1	0.95	0.07	-2.48	54,54,54,54	0
59	MG	DA	3233	1/1	0.95	0.13	-2.49	26,26,26,26	0
59	MG	AA	4139	1/1	0.94	0.10	-2.50	67,67,67,67	0
59	MG	DA	3476	1/1	0.93	0.10	-2.51	27,27,27,27	0
59	MG	CA	1762	1/1	0.99	0.11	-2.51	49,49,49,49	0
59	MG	DA	4332	1/1	0.89	0.13	-2.53	53,53,53,53	0
59	MG	DA	3589	1/1	0.99	0.14	-2.53	7,7,7,7	0
59	MG	DA	3629	1/1	0.86	0.14	-2.53	29,29,29,29	0
59	MG	DA	3167	1/1	0.97	0.12	-2.54	48,48,48,48	0
59	MG	AA	3460	1/1	0.86	0.13	-2.55	28,28,28,28	0
59	MG	AR	203	1/1	0.97	0.05	-2.55	55,55,55,55	0
59	MG	DA	3698	1/1	0.98	0.12	-2.57	35,35,35,35	0
59	MG	DA	4094	1/1	0.95	0.15	-2.59	41,41,41,41	0
59	MG	AF	301	1/1	0.82	0.11	-2.60	73,73,73,73	0
59	MG	DA	4301	1/1	0.94	0.16	-2.60	37,37,37,37	0
59	MG	AA	4072	1/1	0.93	0.13	-2.62	56,56,56,56	0
59	MG	CA	1773	1/1	0.96	0.12	-2.65	45,45,45,45	0
59	MG	DA	3324	1/1	0.89	0.15	-2.65	42,42,42,42	0
59	MG	BA	1841	1/1	0.88	0.06	-2.66	108,108,108,108	0
59	MG	DA	4485	1/1	0.70	0.07	-2.68	138,138,138,138	0
59	MG	AA	3501	1/1	0.98	0.14	-2.71	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DG	202	1/1	0.97	0.07	-2.72	47,47,47,47	0
59	MG	CA	1790	1/1	0.96	0.09	-2.72	81,81,81,81	0
59	MG	DA	4045	1/1	0.59	0.09	-2.74	134,134,134,134	0
59	MG	AA	3438	1/1	0.69	0.08	-2.78	99,99,99,99	0
59	MG	AA	3359	1/1	0.81	0.10	-2.79	48,48,48,48	0
59	MG	AA	3652	1/1	0.94	0.09	-2.81	44,44,44,44	0
59	MG	CA	2002	1/1	0.66	0.09	-2.81	112,112,112,112	0
59	MG	BA	1743	1/1	0.85	0.08	-2.86	43,43,43,43	0
59	MG	DA	4164	1/1	0.90	0.13	-2.91	29,29,29,29	0
59	MG	DA	3877	1/1	0.95	0.12	-2.92	37,37,37,37	0
59	MG	CN	201	1/1	0.95	0.10	-2.93	33,33,33,33	0
59	MG	CA	1913	1/1	0.86	0.15	-2.95	52,52,52,52	0
59	MG	AA	3417	1/1	0.77	0.11	-2.97	58,58,58,58	0
59	MG	AA	3239	1/1	0.91	0.07	-2.98	51,51,51,51	0
59	MG	DA	3388	1/1	0.95	0.12	-3.02	33,33,33,33	0
59	MG	AG	202	1/1	0.79	0.10	-3.02	83,83,83,83	0
59	MG	AA	3302	1/1	0.94	0.13	-3.04	32,32,32,32	0
59	MG	BA	1804	1/1	0.59	0.09	-3.04	105,105,105,105	0
59	MG	BC	109	1/1	0.95	0.09	-3.06	72,72,72,72	0
59	MG	D1	203	1/1	0.98	0.10	-3.07	42,42,42,42	0
59	MG	DE	305	1/1	0.95	0.10	-3.07	44,44,44,44	0
59	MG	CA	2021	1/1	0.92	0.09	-3.10	63,63,63,63	0
59	MG	AA	3615	1/1	0.94	0.08	-3.10	47,47,47,47	0
59	MG	DA	4044	1/1	0.85	0.09	-3.11	107,107,107,107	0
59	MG	DA	3237	1/1	0.96	0.14	-3.12	13,13,13,13	0
59	MG	DA	3293	1/1	0.93	0.12	-3.12	35,35,35,35	0
59	MG	AA	3622	1/1	0.88	0.11	-3.14	43,43,43,43	0
59	MG	AO	202	1/1	0.92	0.13	-3.15	55,55,55,55	0
59	MG	AA	4076	1/1	0.88	0.07	-3.18	113,113,113,113	0
59	MG	AA	3143	1/1	0.91	0.11	-3.21	37,37,37,37	0
59	MG	DA	3222	1/1	0.92	0.09	-3.22	42,42,42,42	0
59	MG	CA	2133	1/1	0.90	0.12	-3.25	67,67,67,67	0
59	MG	CA	1930	1/1	0.94	0.12	-3.25	42,42,42,42	0
59	MG	DA	3663	1/1	0.97	0.09	-3.25	79,79,79,79	0
59	MG	CA	1829	1/1	0.92	0.07	-3.25	61,61,61,61	0
59	MG	AA	3352	1/1	0.95	0.10	-3.27	28,28,28,28	0
59	MG	CA	1730	1/1	0.84	0.10	-3.27	38,38,38,38	0
59	MG	AA	3134	1/1	0.98	0.16	-3.28	22,22,22,22	0
59	MG	BI	201	1/1	0.81	0.09	-3.29	47,47,47,47	0
59	MG	DB	220	1/1	0.94	0.10	-3.30	79,79,79,79	0
59	MG	AA	3349	1/1	0.93	0.11	-3.30	42,42,42,42	0
59	MG	CA	1819	1/1	0.98	0.11	-3.31	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	1944	1/1	0.96	0.08	-3.32	61,61,61,61	0
59	MG	CA	1664	1/1	0.95	0.11	-3.33	22,22,22,22	0
59	MG	BA	2114	1/1	0.87	0.10	-3.34	71,71,71,71	0
59	MG	AA	3028	1/1	0.97	0.12	-3.36	15,15,15,15	0
59	MG	DA	3059	1/1	0.98	0.13	-3.37	8,8,8,8	0
59	MG	DB	204	1/1	0.92	0.10	-3.37	23,23,23,23	0
59	MG	DA	4567	1/1	0.95	0.11	-3.38	51,51,51,51	0
59	MG	DA	3037	1/1	0.98	0.16	-3.38	1,1,1,1	0
59	MG	CA	2015	1/1	0.99	0.10	-3.40	57,57,57,57	0
59	MG	AA	3651	1/1	0.89	0.17	-3.40	41,41,41,41	0
59	MG	CA	1880	1/1	0.97	0.09	-3.41	35,35,35,35	0
59	MG	DA	3702	1/1	0.97	0.12	-3.42	36,36,36,36	0
59	MG	CC	117	1/1	0.96	0.14	-3.42	45,45,45,45	0
59	MG	CA	2014	1/1	0.89	0.10	-3.43	56,56,56,56	0
59	MG	BA	1891	1/1	0.94	0.09	-3.43	60,60,60,60	0
59	MG	AB	204	1/1	0.90	0.07	-3.44	54,54,54,54	0
59	MG	DA	4444	1/1	0.97	0.13	-3.45	51,51,51,51	0
59	MG	AA	3277	1/1	0.97	0.07	-3.47	42,42,42,42	0
59	MG	AA	3798	1/1	0.92	0.08	-3.47	47,47,47,47	0
59	MG	CS	103	1/1	0.95	0.10	-3.50	74,74,74,74	0
59	MG	DA	3515	1/1	0.94	0.11	-3.54	28,28,28,28	0
59	MG	DA	3050	1/1	0.90	0.11	-3.55	46,46,46,46	0
59	MG	AA	3162	1/1	0.93	0.10	-3.59	48,48,48,48	0
59	MG	AD	306	1/1	0.94	0.12	-3.59	44,44,44,44	0
59	MG	AA	3430	1/1	0.97	0.06	-3.62	81,81,81,81	0
59	MG	AA	3139	1/1	0.97	0.07	-3.63	45,45,45,45	0
59	MG	CA	1690	1/1	0.96	0.10	-3.66	43,43,43,43	0
59	MG	DB	208	1/1	0.93	0.10	-3.67	46,46,46,46	0
59	MG	AB	208	1/1	0.87	0.09	-3.68	57,57,57,57	0
59	MG	AA	3600	1/1	0.98	0.09	-3.69	46,46,46,46	0
59	MG	CA	2013	1/1	0.94	0.11	-3.73	46,46,46,46	0
59	MG	BA	2044	1/1	0.86	0.09	-3.75	62,62,62,62	0
59	MG	AA	3175	1/1	0.97	0.10	-3.75	29,29,29,29	0
59	MG	AA	3003	1/1	0.98	0.10	-3.79	12,12,12,12	0
59	MG	BA	1953	1/1	0.98	0.11	-3.86	68,68,68,68	0
59	MG	DA	3683	1/1	0.97	0.13	-3.86	56,56,56,56	0
59	MG	AA	3689	1/1	0.86	0.09	-3.89	61,61,61,61	0
59	MG	DA	5043	1/1	0.84	0.10	-3.92	73,73,73,73	0
59	MG	AA	3147	1/1	0.99	0.12	-3.94	60,60,60,60	0
59	MG	DA	3774	1/1	0.98	0.13	-3.95	37,37,37,37	0
59	MG	DA	3048	1/1	0.94	0.14	-3.97	15,15,15,15	0
59	MG	DA	3917	1/1	0.96	0.14	-4.00	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	1675	1/1	0.90	0.10	-4.01	28,28,28,28	0
59	MG	AA	3484	1/1	0.86	0.10	-4.05	66,66,66,66	0
59	MG	DA	3726	1/1	0.98	0.08	-4.07	1,1,1,1	0
59	MG	BA	2153	1/1	0.68	0.11	-4.16	100,100,100,100	0
59	MG	DA	4527	1/1	0.92	0.11	-4.17	53,53,53,53	0
59	MG	DA	3725	1/1	0.89	0.12	-4.21	22,22,22,22	0
59	MG	BA	1749	1/1	0.91	0.08	-4.23	30,30,30,30	0
59	MG	AA	3282	1/1	0.91	0.08	-4.23	64,64,64,64	0
59	MG	DA	3707	1/1	0.95	0.11	-4.25	28,28,28,28	0
59	MG	BA	1680	1/1	0.87	0.11	-4.26	55,55,55,55	0
59	MG	CA	1898	1/1	0.96	0.09	-4.31	59,59,59,59	0
59	MG	AA	3035	1/1	0.94	0.07	-4.34	17,17,17,17	0
59	MG	CA	1830	1/1	0.92	0.04	-4.35	59,59,59,59	0
59	MG	AA	3250	1/1	0.96	0.10	-4.35	24,24,24,24	0
59	MG	BA	1735	1/1	0.96	0.07	-4.37	40,40,40,40	0
59	MG	DA	3376	1/1	0.88	0.12	-4.39	18,18,18,18	0
59	MG	DA	3776	1/1	0.98	0.12	-4.40	46,46,46,46	0
59	MG	DA	3914	1/1	0.93	0.09	-4.42	36,36,36,36	0
59	MG	DA	4138	1/1	0.99	0.11	-4.43	54,54,54,54	0
59	MG	DA	3427	1/1	0.97	0.12	-4.46	44,44,44,44	0
59	MG	DA	3744	1/1	0.98	0.11	-4.57	58,58,58,58	0
59	MG	DA	4091	1/1	0.99	0.10	-4.57	42,42,42,42	0
59	MG	AA	3463	1/1	0.97	0.07	-4.64	3,3,3,3	0
59	MG	CA	1662	1/1	0.98	0.06	-4.67	19,19,19,19	0
59	MG	DA	3301	1/1	0.94	0.11	-4.76	29,29,29,29	0
59	MG	AA	3354	1/1	0.85	0.07	-4.79	53,53,53,53	0
59	MG	BA	1784	1/1	0.86	0.09	-4.81	54,54,54,54	0
59	MG	DA	3731	1/1	0.98	0.09	-4.94	35,35,35,35	0
59	MG	AA	3442	1/1	0.50	0.08	-4.99	128,128,128,128	0
59	MG	AA	3662	1/1	0.92	0.08	-5.02	51,51,51,51	0
59	MG	AA	3465	1/1	0.98	0.07	-5.04	28,28,28,28	0
59	MG	BA	1650	1/1	0.85	0.06	-5.05	52,52,52,52	0
59	MG	CA	1649	1/1	0.94	0.08	-5.11	47,47,47,47	0
59	MG	AA	3076	1/1	0.95	0.11	-5.11	35,35,35,35	0
59	MG	AA	3093	1/1	0.96	0.11	-5.19	39,39,39,39	0
59	MG	AA	3380	1/1	0.96	0.09	-5.23	25,25,25,25	0
59	MG	DA	3174	1/1	0.96	0.09	-5.37	30,30,30,30	0
59	MG	DA	3566	1/1	0.92	0.10	-5.39	21,21,21,21	0
59	MG	AA	3043	1/1	0.95	0.04	-5.39	42,42,42,42	0
59	MG	AA	3468	1/1	0.95	0.09	-5.49	22,22,22,22	0
59	MG	CA	1642	1/1	0.93	0.10	-5.49	25,25,25,25	0
59	MG	AA	3237	1/1	0.97	0.07	-5.69	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3054	1/1	0.86	0.10	-5.73	44,44,44,44	0
59	MG	DA	3967	1/1	0.97	0.10	-5.78	80,80,80,80	0
59	MG	DA	3251	1/1	0.97	0.11	-5.93	12,12,12,12	0
59	MG	DB	206	1/1	0.99	0.04	-6.02	34,34,34,34	0
59	MG	AA	3919	1/1	0.92	0.08	-6.04	59,59,59,59	0
59	MG	CA	2026	1/1	0.94	0.06	-6.04	69,69,69,69	0
59	MG	DA	3783	1/1	0.95	0.06	-6.06	63,63,63,63	0
59	MG	DA	4283	1/1	0.98	0.13	-6.20	63,63,63,63	0
59	MG	DA	3618	1/1	0.99	0.11	-6.26	14,14,14,14	0
59	MG	BA	1961	1/1	0.97	0.05	-6.26	49,49,49,49	0
59	MG	DA	3559	1/1	0.88	0.10	-6.31	23,23,23,23	0
59	MG	AA	3047	1/1	0.98	0.08	-6.34	28,28,28,28	0
59	MG	AA	3379	1/1	0.89	0.09	-6.36	70,70,70,70	0
59	MG	DA	3027	1/1	0.97	0.11	-6.49	15,15,15,15	0
59	MG	CA	2296	1/1	0.97	0.06	-6.52	68,68,68,68	0
59	MG	DA	3753	1/1	0.98	0.07	-6.71	62,62,62,62	0
59	MG	DA	3966	1/1	0.99	0.09	-6.76	41,41,41,41	0
59	MG	DA	3092	1/1	0.98	0.12	-6.86	3,3,3,3	0
59	MG	AA	3703	1/1	0.88	0.08	-6.92	51,51,51,51	0
59	MG	AA	3655	1/1	0.92	0.08	-6.93	50,50,50,50	0
59	MG	AA	3681	1/1	0.94	0.07	-7.01	65,65,65,65	0
59	MG	BA	1942	1/1	0.92	0.10	-7.24	63,63,63,63	0
59	MG	CA	1640	1/1	0.98	0.05	-7.33	28,28,28,28	0
59	MG	AA	3742	1/1	0.92	0.08	-7.42	70,70,70,70	0
59	MG	DA	3718	1/1	0.95	0.08	-7.44	25,25,25,25	0
59	MG	DA	4075	1/1	0.96	0.10	-7.46	25,25,25,25	0
59	MG	CA	1883	1/1	0.95	0.07	-7.56	43,43,43,43	0
59	MG	DA	3330	1/1	0.93	0.10	-7.86	70,70,70,70	0
59	MG	AA	3466	1/1	0.98	0.03	-8.21	37,37,37,37	0
59	MG	DA	3110	1/1	0.96	0.10	-8.31	35,35,35,35	0
59	MG	DA	3197	1/1	0.95	0.10	-8.63	19,19,19,19	0
59	MG	DA	3545	1/1	0.96	0.10	-8.76	36,36,36,36	0
59	MG	AA	4125	1/1	0.95	0.10	-9.05	69,69,69,69	0
59	MG	DA	3229	1/1	0.90	0.10	-9.35	33,33,33,33	0
59	MG	DA	3158	1/1	0.92	0.10	-10.07	28,28,28,28	0
59	MG	DA	4069	1/1	0.98	0.11	-10.70	24,24,24,24	0
59	MG	DA	3304	1/1	0.94	0.13	-10.95	43,43,43,43	0
59	MG	DA	3601	1/1	0.95	0.12	-12.78	1,1,1,1	0
59	MG	AA	3236	1/1	0.93	0.05	-18.51	20,20,20,20	0
59	MG	CA	1990	1/1	0.86	0.14	-	64,64,64,64	0
59	MG	CA	1687	1/1	0.98	0.20	-	46,46,46,46	0
59	MG	DA	4595	1/1	0.83	0.33	-	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AD	310	1/1	0.92	0.26	-	42,42,42,42	0
59	MG	BA	1973	1/1	0.90	0.09	-	81,81,81,81	0
59	MG	BA	2106	1/1	0.84	0.31	-	104,104,104,104	0
59	MG	BA	2053	1/1	0.97	0.13	-	90,90,90,90	0
59	MG	DA	4303	1/1	0.93	0.15	-	47,47,47,47	0
59	MG	DA	4653	1/1	0.85	0.21	-	69,69,69,69	0
59	MG	DH	204	1/1	0.94	0.38	-	87,87,87,87	0
59	MG	CF	303	1/1	0.96	0.78	-	79,79,79,79	0
59	MG	DA	4958	1/1	0.87	0.16	-	64,64,64,64	0
59	MG	AA	4082	1/1	0.83	0.17	-	75,75,75,75	0
59	MG	BA	2160	1/1	0.83	0.15	-	95,95,95,95	0
59	MG	AA	3971	1/1	0.92	0.18	-	85,85,85,85	0
59	MG	DA	3941	1/1	0.96	0.08	-	61,61,61,61	0
59	MG	CB	115	1/1	0.65	0.39	-	97,97,97,97	0
59	MG	AA	3096	1/1	0.86	0.18	-	67,67,67,67	0
59	MG	BA	2264	1/1	0.73	0.14	-	79,79,79,79	0
59	MG	DA	4782	1/1	0.74	0.23	-	83,83,83,83	0
59	MG	C1	102	1/1	0.85	0.22	-	68,68,68,68	0
59	MG	DA	3791	1/1	0.94	0.25	-	109,109,109,109	0
59	MG	BA	2232	1/1	0.86	0.14	-	103,103,103,103	0
59	MG	DA	3428	1/1	0.98	0.24	-	38,38,38,38	0
59	MG	DA	3485	1/1	0.88	0.33	-	77,77,77,77	0
59	MG	AA	3052	1/1	0.87	0.16	-	60,60,60,60	0
59	MG	AA	3553	1/1	0.87	0.21	-	73,73,73,73	0
59	MG	DA	3709	1/1	0.96	0.15	-	46,46,46,46	0
59	MG	CA	2248	1/1	0.85	0.18	-	72,72,72,72	0
59	MG	BA	1629	1/1	0.73	0.27	-	76,76,76,76	0
59	MG	BA	1660	1/1	0.91	0.20	-	101,101,101,101	0
59	MG	BA	1627	1/1	0.93	0.36	-	60,60,60,60	0
59	MG	AA	3009	1/1	0.99	0.16	-	18,18,18,18	0
59	MG	DA	4488	1/1	0.70	0.55	-	89,89,89,89	0
59	MG	CA	1641	1/1	0.94	0.17	-	28,28,28,28	0
59	MG	DA	3083	1/1	0.91	0.22	-	9,9,9,9	0
59	MG	DA	3771	1/1	0.95	0.09	-	92,92,92,92	0
59	MG	AA	3142	1/1	0.93	0.09	-	12,12,12,12	0
59	MG	CA	1862	1/1	0.94	0.10	-	122,122,122,122	0
59	MG	DA	3512	1/1	0.83	0.28	-	66,66,66,66	0
59	MG	AA	3989	1/1	0.86	0.16	-	74,74,74,74	0
59	MG	AA	4130	1/1	0.29	0.25	-	107,107,107,107	0
59	MG	DA	4184	1/1	0.76	0.33	-	61,61,61,61	0
59	MG	CA	1833	1/1	0.90	0.06	-	57,57,57,57	0
59	MG	DA	4042	1/1	0.85	0.34	-	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	1760	1/1	0.97	0.30	-	69,69,69,69	0
59	MG	AA	4029	1/1	0.97	0.06	-	80,80,80,80	0
59	MG	DA	5063	1/1	0.87	0.39	-	52,52,52,52	0
59	MG	DA	4270	1/1	0.98	0.18	-	46,46,46,46	0
59	MG	AA	3245	1/1	0.76	0.28	-	69,69,69,69	0
59	MG	DP	202	1/1	0.92	0.23	-	53,53,53,53	0
59	MG	AA	3780	1/1	0.95	0.28	-	69,69,69,69	0
59	MG	CA	1907	1/1	0.87	0.26	-	66,66,66,66	0
59	MG	DA	4407	1/1	0.85	0.34	-	85,85,85,85	0
59	MG	DA	4006	1/1	0.82	0.41	-	71,71,71,71	0
59	MG	AA	3694	1/1	0.96	0.09	-	56,56,56,56	0
59	MG	CD	128	1/1	0.73	0.20	-	66,66,66,66	0
59	MG	DE	312	1/1	0.78	0.16	-	74,74,74,74	0
59	MG	CB	120	1/1	0.94	0.38	-	100,100,100,100	0
59	MG	DA	3061	1/1	0.96	0.17	-	23,23,23,23	0
59	MG	AR	201	1/1	0.73	0.10	-	71,71,71,71	0
59	MG	BA	2177	1/1	0.95	0.25	-	67,67,67,67	0
59	MG	DA	4315	1/1	0.89	0.10	-	67,67,67,67	0
59	MG	AB	216	1/1	0.86	0.23	-	53,53,53,53	0
59	MG	BA	1982	1/1	0.93	0.12	-	96,96,96,96	0
59	MG	CA	2181	1/1	0.82	0.17	-	73,73,73,73	0
59	MG	AV	301	1/1	0.89	0.11	-	67,67,67,67	0
59	MG	DA	3054	1/1	0.94	0.15	-	11,11,11,11	0
59	MG	AS	203	1/1	0.68	0.46	-	72,72,72,72	0
59	MG	AA	3983	1/1	0.90	0.27	-	126,126,126,126	0
59	MG	DF	312	1/1	0.89	0.13	-	75,75,75,75	0
59	MG	AR	202	1/1	0.89	0.12	-	64,64,64,64	0
59	MG	BA	1940	1/1	0.87	0.36	-	79,79,79,79	0
59	MG	AA	3268	1/1	0.91	0.31	-	60,60,60,60	0
59	MG	AA	3283	1/1	0.92	0.08	-	74,74,74,74	0
59	MG	BA	1761	1/1	0.97	0.26	-	58,58,58,58	0
59	MG	DA	4600	1/1	0.86	0.23	-	57,57,57,57	0
59	MG	AA	3333	1/1	0.72	0.52	-	59,59,59,59	0
59	MG	DA	3478	1/1	0.98	0.10	-	18,18,18,18	0
59	MG	CA	2046	1/1	0.89	0.14	-	67,67,67,67	0
59	MG	DA	3119	1/1	0.86	0.25	-	60,60,60,60	0
59	MG	BA	2100	1/1	0.95	0.21	-	69,69,69,69	0
59	MG	DA	4518	1/1	0.79	0.24	-	49,49,49,49	0
59	MG	CA	1684	1/1	0.64	0.26	-	103,103,103,103	0
59	MG	DA	4287	1/1	0.95	0.20	-	73,73,73,73	0
59	MG	DA	4542	1/1	0.79	0.23	-	37,37,37,37	0
59	MG	BA	1618	1/1	0.96	0.08	-	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	1784	1/1	0.84	0.20	-	54,54,54,54	0
59	MG	CA	2081	1/1	0.90	0.18	-	107,107,107,107	0
59	MG	DA	4652	1/1	0.90	0.17	-	71,71,71,71	0
59	MG	AA	4132	1/1	0.93	0.17	-	68,68,68,68	0
59	MG	AA	3779	1/1	0.87	0.13	-	86,86,86,86	0
59	MG	BA	1852	1/1	0.84	0.17	-	105,105,105,105	0
59	MG	DA	3356	1/1	0.81	0.30	-	58,58,58,58	0
59	MG	BA	1802	1/1	0.79	0.29	-	75,75,75,75	0
59	MG	DA	4500	1/1	0.95	0.12	-	53,53,53,53	0
59	MG	AA	3519	1/1	0.82	0.13	-	63,63,63,63	0
59	MG	DA	3353	1/1	0.96	0.16	-	22,22,22,22	0
59	MG	AA	3579	1/1	0.96	0.14	-	83,83,83,83	0
59	MG	DA	3937	1/1	0.97	0.12	-	67,67,67,67	0
59	MG	DA	4408	1/1	0.90	0.23	-	54,54,54,54	0
59	MG	CA	2205	1/1	0.96	0.33	-	70,70,70,70	0
59	MG	AB	209	1/1	0.45	0.17	-	104,104,104,104	0
59	MG	BA	1776	1/1	0.86	0.09	-	79,79,79,79	0
59	MG	CC	107	1/1	0.94	0.38	-	56,56,56,56	0
59	MG	BH	201	1/1	0.92	0.23	-	55,55,55,55	0
59	MG	AA	3444	1/1	0.81	0.32	-	81,81,81,81	0
59	MG	AA	3891	1/1	0.93	0.30	-	105,105,105,105	0
59	MG	DA	4261	1/1	0.91	0.19	-	65,65,65,65	0
59	MG	BA	2144	1/1	0.80	0.18	-	75,75,75,75	0
59	MG	DA	4827	1/1	0.79	0.41	-	87,87,87,87	0
59	MG	BB	112	1/1	0.82	0.23	-	107,107,107,107	0
59	MG	DA	4748	1/1	0.98	0.09	-	83,83,83,83	0
59	MG	CA	1964	1/1	0.91	0.14	-	41,41,41,41	0
59	MG	BA	2262	1/1	0.73	0.14	-	90,90,90,90	0
59	MG	DA	4978	1/1	0.83	0.28	-	57,57,57,57	0
59	MG	DA	5010	1/1	0.91	0.32	-	68,68,68,68	0
59	MG	CA	1949	1/1	0.74	0.14	-	60,60,60,60	0
59	MG	AA	3680	1/1	0.89	0.34	-	71,71,71,71	0
59	MG	AA	3766	1/1	0.84	0.20	-	86,86,86,86	0
59	MG	DA	4621	1/1	0.86	0.30	-	92,92,92,92	0
59	MG	CA	1719	1/1	0.97	0.09	-	62,62,62,62	0
59	MG	DA	4302	1/1	0.69	0.10	-	102,102,102,102	0
59	MG	DA	3454	1/1	0.91	0.23	-	51,51,51,51	0
59	MG	BA	1617	1/1	0.98	0.34	-	44,44,44,44	0
59	MG	AA	4128	1/1	0.63	0.18	-	116,116,116,116	0
59	MG	AA	3858	1/1	0.93	0.21	-	76,76,76,76	0
59	MG	BA	1800	1/1	0.97	0.20	-	66,66,66,66	0
59	MG	BA	2192	1/1	0.90	0.17	-	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	5003	1/1	0.97	0.31	-	76,76,76,76	0
59	MG	DA	4792	1/1	0.90	0.21	-	113,113,113,113	0
59	MG	DA	4344	1/1	0.94	0.35	-	63,63,63,63	0
59	MG	DA	5024	1/1	0.94	0.15	-	43,43,43,43	0
59	MG	AA	4070	1/1	0.59	0.18	-	60,60,60,60	0
59	MG	AA	3760	1/1	0.85	0.36	-	85,85,85,85	0
59	MG	DO	207	1/1	0.92	0.12	-	37,37,37,37	0
59	MG	AA	3951	1/1	0.83	0.09	-	98,98,98,98	0
59	MG	AA	4084	1/1	0.87	0.08	-	86,86,86,86	0
59	MG	BD	116	1/1	0.23	0.37	-	129,129,129,129	0
59	MG	D1	208	1/1	0.81	0.19	-	58,58,58,58	0
59	MG	DA	4639	1/1	0.94	0.12	-	75,75,75,75	0
59	MG	AA	3885	1/1	0.85	0.19	-	51,51,51,51	0
59	MG	DA	4465	1/1	0.97	0.26	-	48,48,48,48	0
59	MG	DA	3223	1/1	0.91	0.34	-	45,45,45,45	0
59	MG	DA	3789	1/1	0.92	0.13	-	45,45,45,45	0
59	MG	BA	2174	1/1	0.90	0.40	-	125,125,125,125	0
59	MG	DA	4496	1/1	0.69	0.36	-	81,81,81,81	0
59	MG	DA	3543	1/1	0.91	0.28	-	62,62,62,62	0
59	MG	BA	1673	1/1	0.69	0.20	-	73,73,73,73	0
59	MG	CA	2112	1/1	0.93	0.14	-	78,78,78,78	0
59	MG	DA	3775	1/1	0.80	0.18	-	87,87,87,87	0
59	MG	AA	3440	1/1	0.76	0.19	-	75,75,75,75	0
59	MG	BD	104	1/1	0.94	0.25	-	51,51,51,51	0
59	MG	BA	1964	1/1	0.85	0.46	-	78,78,78,78	0
59	MG	AA	3746	1/1	0.88	0.13	-	66,66,66,66	0
59	MG	AA	4043	1/1	0.97	0.71	-	132,132,132,132	0
59	MG	DA	4627	1/1	0.42	0.23	-	80,80,80,80	0
59	MG	CC	127	1/1	0.89	0.49	-	89,89,89,89	0
59	MG	AA	3247	1/1	0.90	0.11	-	47,47,47,47	0
59	MG	DA	4365	1/1	0.90	0.31	-	61,61,61,61	0
59	MG	CA	2005	1/1	0.86	0.10	-	55,55,55,55	0
59	MG	DU	214	1/1	0.92	0.27	-	62,62,62,62	0
59	MG	BW	205	1/1	0.73	0.18	-	91,91,91,91	0
59	MG	BA	2101	1/1	0.96	0.24	-	124,124,124,124	0
59	MG	AA	3540	1/1	0.87	0.27	-	61,61,61,61	0
59	MG	DA	3470	1/1	0.96	0.18	-	52,52,52,52	0
59	MG	AA	3740	1/1	0.84	0.13	-	60,60,60,60	0
59	MG	AA	3525	1/1	0.90	0.13	-	36,36,36,36	0
59	MG	CA	2243	1/1	0.99	0.12	-	53,53,53,53	0
59	MG	DT	102	1/1	0.84	0.23	-	60,60,60,60	0
59	MG	BA	2132	1/1	0.81	0.13	-	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	1734	1/1	0.88	0.14	-	76,76,76,76	0
59	MG	DU	209	1/1	0.86	0.37	-	96,96,96,96	0
59	MG	DA	3568	1/1	0.88	0.20	-	54,54,54,54	0
59	MG	AA	3144	1/1	0.80	0.21	-	69,69,69,69	0
59	MG	CA	1886	1/1	0.96	0.12	-	43,43,43,43	0
59	MG	DA	3212	1/1	0.98	0.20	-	30,30,30,30	0
59	MG	DA	3450	1/1	0.93	0.45	-	75,75,75,75	0
59	MG	D0	210	1/1	0.94	0.15	-	75,75,75,75	0
59	MG	DA	4148	1/1	0.90	0.39	-	63,63,63,63	0
59	MG	DA	4484	1/1	0.89	0.35	-	50,50,50,50	0
59	MG	DA	3922	1/1	0.93	0.21	-	69,69,69,69	0
59	MG	AA	3479	1/1	0.96	0.13	-	59,59,59,59	0
59	MG	CA	2071	1/1	0.89	0.28	-	100,100,100,100	0
59	MG	CA	2043	1/1	0.87	0.50	-	100,100,100,100	0
59	MG	DA	5051	1/1	0.84	0.40	-	103,103,103,103	0
59	MG	AA	3560	1/1	0.90	0.20	-	37,37,37,37	0
59	MG	AA	3880	1/1	0.80	0.14	-	102,102,102,102	0
59	MG	DA	3298	1/1	0.92	0.17	-	97,97,97,97	0
59	MG	DA	4740	1/1	0.87	0.29	-	78,78,78,78	0
59	MG	BA	2022	1/1	0.74	0.10	-	104,104,104,104	0
59	MG	CA	1624	1/1	0.77	0.14	-	80,80,80,80	0
59	MG	DB	240	1/1	0.77	0.26	-	84,84,84,84	0
59	MG	DB	225	1/1	0.86	0.14	-	76,76,76,76	0
59	MG	DA	3886	1/1	0.99	0.04	-	48,48,48,48	0
59	MG	CA	2102	1/1	0.91	0.17	-	57,57,57,57	0
59	MG	DA	5074	1/1	0.85	0.09	-	67,67,67,67	0
59	MG	CA	2156	1/1	0.87	0.32	-	92,92,92,92	0
59	MG	BA	1904	1/1	0.98	0.21	-	38,38,38,38	0
59	MG	DA	4108	1/1	0.90	0.20	-	74,74,74,74	0
59	MG	DA	4861	1/1	0.87	0.28	-	74,74,74,74	0
59	MG	DA	5011	1/1	0.70	0.31	-	76,76,76,76	0
59	MG	BB	101	1/1	0.91	0.11	-	76,76,76,76	0
59	MG	AA	3044	1/1	0.90	0.32	-	36,36,36,36	0
59	MG	DD	311	1/1	0.89	0.13	-	65,65,65,65	0
59	MG	AA	3368	1/1	0.89	0.28	-	87,87,87,87	0
59	MG	DA	4185	1/1	0.78	0.44	-	88,88,88,88	0
59	MG	CA	1757	1/1	0.97	0.13	-	26,26,26,26	0
59	MG	DA	3778	1/1	0.96	0.10	-	18,18,18,18	0
59	MG	AA	4159	1/1	0.89	0.14	-	67,67,67,67	0
59	MG	AA	3586	1/1	0.94	0.04	-	41,41,41,41	0
59	MG	DA	4380	1/1	0.95	0.20	-	61,61,61,61	0
59	MG	BA	2234	1/1	0.72	0.25	-	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3978	1/1	0.93	0.56	-	82,82,82,82	0
59	MG	BA	1624	1/1	0.87	0.18	-	84,84,84,84	0
59	MG	DB	215	1/1	0.87	0.31	-	66,66,66,66	0
59	MG	AA	3351	1/1	0.93	0.10	-	62,62,62,62	0
59	MG	CA	2199	1/1	0.89	0.10	-	106,106,106,106	0
59	MG	CB	101	1/1	0.78	0.33	-	64,64,64,64	0
59	MG	DA	3448	1/1	0.90	0.28	-	40,40,40,40	0
59	MG	DA	3373	1/1	0.90	0.33	-	40,40,40,40	0
59	MG	DA	3491	1/1	0.94	0.13	-	78,78,78,78	0
59	MG	DA	4064	1/1	0.94	0.12	-	56,56,56,56	0
59	MG	DA	4917	1/1	0.79	0.33	-	61,61,61,61	0
59	MG	DA	3246	1/1	0.91	0.15	-	34,34,34,34	0
59	MG	AD	311	1/1	0.87	0.13	-	54,54,54,54	0
59	MG	BG	307	1/1	0.67	0.17	-	85,85,85,85	0
59	MG	B1	104	1/1	0.87	0.09	-	116,116,116,116	0
59	MG	DB	273	1/1	0.77	0.24	-	100,100,100,100	0
59	MG	DA	4590	1/1	0.89	0.54	-	81,81,81,81	0
59	MG	DA	3720	1/1	0.95	0.21	-	46,46,46,46	0
59	MG	DA	4688	1/1	0.80	0.41	-	83,83,83,83	0
59	MG	AA	4042	1/1	0.38	0.19	-	88,88,88,88	0
59	MG	DA	4466	1/1	0.91	0.25	-	73,73,73,73	0
59	MG	DA	4661	1/1	0.88	0.23	-	76,76,76,76	0
59	MG	DA	3548	1/1	0.93	0.25	-	58,58,58,58	0
59	MG	DA	4626	1/1	0.78	0.16	-	56,56,56,56	0
59	MG	BA	2210	1/1	0.88	0.09	-	78,78,78,78	0
59	MG	AA	3264	1/1	0.93	0.15	-	43,43,43,43	0
59	MG	DA	3705	1/1	0.96	0.07	-	1,1,1,1	0
59	MG	AA	3213	1/1	0.86	0.18	-	51,51,51,51	0
59	MG	AB	226	1/1	0.61	0.14	-	88,88,88,88	0
59	MG	BA	2259	1/1	0.98	0.18	-	101,101,101,101	0
59	MG	DA	3441	1/1	0.96	0.22	-	43,43,43,43	0
59	MG	AA	3289	1/1	0.89	0.24	-	90,90,90,90	0
59	MG	BA	2161	1/1	0.69	0.19	-	114,114,114,114	0
59	MG	DA	3976	1/1	0.91	0.62	-	37,37,37,37	0
59	MG	DA	4239	1/1	0.95	0.13	-	62,62,62,62	0
59	MG	BA	1888	1/1	0.87	0.28	-	67,67,67,67	0
59	MG	AA	3923	1/1	0.69	0.15	-	107,107,107,107	0
59	MG	AA	3038	1/1	0.92	0.23	-	68,68,68,68	0
59	MG	CA	1804	1/1	0.96	0.24	-	67,67,67,67	0
59	MG	CC	110	1/1	0.93	0.21	-	71,71,71,71	0
59	MG	CK	211	1/1	0.92	0.17	-	57,57,57,57	0
59	MG	AA	3667	1/1	0.51	0.28	-	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CC	111	1/1	0.85	0.31	-	68,68,68,68	0
59	MG	AA	4146	1/1	0.90	0.21	-	90,90,90,90	0
59	MG	DA	3847	1/1	0.68	0.26	-	81,81,81,81	0
59	MG	BD	115	1/1	0.97	0.09	-	61,61,61,61	0
59	MG	BA	1991	1/1	0.87	0.29	-	91,91,91,91	0
59	MG	AA	3700	1/1	0.93	0.20	-	58,58,58,58	0
59	MG	BA	2230	1/1	0.59	0.28	-	111,111,111,111	0
59	MG	DA	4451	1/1	0.83	0.32	-	63,63,63,63	0
59	MG	AA	4123	1/1	0.89	0.14	-	55,55,55,55	0
59	MG	DA	3363	1/1	0.93	0.07	-	36,36,36,36	0
59	MG	BA	2169	1/1	0.71	0.18	-	98,98,98,98	0
59	MG	BA	2036	1/1	0.62	0.27	-	86,86,86,86	0
59	MG	AA	3219	1/1	0.85	0.30	-	81,81,81,81	0
59	MG	DA	3950	1/1	0.96	0.26	-	117,117,117,117	0
59	MG	A8	101	1/1	0.93	0.09	-	45,45,45,45	0
59	MG	AA	3862	1/1	0.90	0.21	-	75,75,75,75	0
59	MG	BA	2237	1/1	0.84	0.11	-	77,77,77,77	0
59	MG	DA	5041	1/1	0.66	0.39	-	57,57,57,57	0
59	MG	AA	3153	1/1	0.89	0.11	-	40,40,40,40	0
59	MG	DA	3883	1/1	0.77	0.14	-	74,74,74,74	0
59	MG	DA	3921	1/1	0.95	0.21	-	24,24,24,24	0
59	MG	DU	211	1/1	0.62	0.26	-	116,116,116,116	0
59	MG	AA	4051	1/1	0.69	0.29	-	106,106,106,106	0
59	MG	D5	104	1/1	0.92	0.11	-	38,38,38,38	0
59	MG	DA	3409	1/1	0.85	0.24	-	44,44,44,44	0
59	MG	DA	3361	1/1	0.96	0.13	-	50,50,50,50	0
59	MG	DA	3496	1/1	0.88	0.14	-	47,47,47,47	0
59	MG	DA	3522	1/1	0.87	0.35	-	63,63,63,63	0
59	MG	AA	4145	1/1	0.97	0.23	-	77,77,77,77	0
59	MG	BA	1794	1/1	0.98	0.22	-	49,49,49,49	0
59	MG	BW	202	1/1	0.79	0.11	-	73,73,73,73	0
59	MG	DA	3808	1/1	0.95	0.13	-	77,77,77,77	0
59	MG	DA	4963	1/1	0.96	0.12	-	63,63,63,63	0
59	MG	DB	242	1/1	0.94	0.31	-	61,61,61,61	0
59	MG	AB	231	1/1	0.88	0.21	-	94,94,94,94	0
59	MG	BA	2024	1/1	0.95	0.10	-	111,111,111,111	0
59	MG	CA	1967	1/1	0.95	0.21	-	56,56,56,56	0
59	MG	BA	2065	1/1	0.93	0.14	-	73,73,73,73	0
59	MG	AA	4108	1/1	0.95	0.13	-	136,136,136,136	0
59	MG	DA	3295	1/1	0.98	0.21	-	14,14,14,14	0
59	MG	CA	2104	1/1	0.92	0.07	-	67,67,67,67	0
59	MG	AA	3002	1/1	0.96	0.11	-	14,14,14,14	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3295	1/1	0.93	0.34	-	62,62,62,62	0
59	MG	CA	2028	1/1	0.86	0.23	-	71,71,71,71	0
59	MG	BB	106	1/1	0.49	0.40	-	116,116,116,116	0
59	MG	CA	1912	1/1	0.82	0.40	-	81,81,81,81	0
59	MG	CA	1832	1/1	0.97	0.15	-	115,115,115,115	0
59	MG	CA	1950	1/1	0.87	0.21	-	86,86,86,86	0
59	MG	DA	3958	1/1	0.92	0.11	-	55,55,55,55	0
59	MG	DA	4233	1/1	0.92	0.35	-	69,69,69,69	0
59	MG	DA	4698	1/1	0.39	0.82	-	104,104,104,104	0
59	MG	DA	4957	1/1	0.89	0.07	-	86,86,86,86	0
59	MG	DA	4447	1/1	0.82	0.23	-	63,63,63,63	0
59	MG	DA	4472	1/1	0.91	0.21	-	56,56,56,56	0
59	MG	DA	4399	1/1	0.92	0.25	-	47,47,47,47	0
59	MG	AA	4135	1/1	0.93	0.14	-	64,64,64,64	0
59	MG	DA	3264	1/1	0.93	0.26	-	28,28,28,28	0
59	MG	DA	4491	1/1	0.89	0.11	-	66,66,66,66	0
59	MG	DA	4025	1/1	0.99	0.07	-	48,48,48,48	0
59	MG	CA	1879	1/1	0.92	0.43	-	58,58,58,58	0
59	MG	CA	2211	1/1	0.88	0.48	-	90,90,90,90	0
59	MG	DA	4062	1/1	0.80	0.18	-	49,49,49,49	0
59	MG	CC	124	1/1	0.86	0.30	-	77,77,77,77	0
59	MG	AK	202	1/1	0.80	0.11	-	75,75,75,75	0
59	MG	AA	3873	1/1	0.80	0.24	-	87,87,87,87	0
59	MG	AA	4064	1/1	0.83	0.11	-	76,76,76,76	0
59	MG	BA	2000	1/1	0.88	0.17	-	93,93,93,93	0
59	MG	AA	3924	1/1	0.98	0.09	-	79,79,79,79	0
59	MG	AA	3055	1/1	0.95	0.17	-	33,33,33,33	0
59	MG	DG	203	1/1	0.80	0.21	-	64,64,64,64	0
59	MG	BA	1626	1/1	0.90	0.30	-	68,68,68,68	0
59	MG	CA	2000	1/1	0.89	0.10	-	99,99,99,99	0
59	MG	CA	1891	1/1	0.96	0.26	-	56,56,56,56	0
59	MG	AA	4001	1/1	0.85	0.25	-	83,83,83,83	0
59	MG	AG	201	1/1	0.87	0.12	-	86,86,86,86	0
59	MG	CA	1894	1/1	0.75	0.23	-	60,60,60,60	0
59	MG	CA	1896	1/1	0.73	0.16	-	73,73,73,73	0
59	MG	AA	3238	1/1	0.83	0.18	-	63,63,63,63	0
59	MG	DA	4020	1/1	0.97	0.21	-	153,153,153,153	0
59	MG	DA	3942	1/1	0.94	0.17	-	64,64,64,64	0
59	MG	DA	4142	1/1	0.91	0.19	-	29,29,29,29	0
59	MG	CA	1820	1/1	0.94	0.08	-	67,67,67,67	0
59	MG	BA	1699	1/1	0.85	0.23	-	90,90,90,90	0
59	MG	DA	4053	1/1	0.74	0.22	-	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3367	1/1	0.45	0.62	-	91,91,91,91	0
59	MG	BA	2136	1/1	0.82	0.11	-	117,117,117,117	0
59	MG	D4	101	1/1	0.89	0.36	-	96,96,96,96	0
59	MG	AA	3067	1/1	0.90	0.16	-	37,37,37,37	0
59	MG	AA	3464	1/1	0.88	0.20	-	61,61,61,61	0
59	MG	DA	4423	1/1	0.94	0.28	-	73,73,73,73	0
59	MG	DA	3550	1/1	0.94	0.23	-	96,96,96,96	0
59	MG	CA	1874	1/1	0.98	0.08	-	55,55,55,55	0
59	MG	DA	4101	1/1	0.95	0.24	-	82,82,82,82	0
59	MG	DA	3497	1/1	0.96	0.41	-	38,38,38,38	0
59	MG	DA	3957	1/1	0.87	0.14	-	62,62,62,62	0
59	MG	CA	2167	1/1	0.50	0.22	-	97,97,97,97	0
59	MG	CA	1826	1/1	0.95	0.05	-	83,83,83,83	0
59	MG	BA	1741	1/1	0.79	0.21	-	85,85,85,85	0
59	MG	BA	2202	1/1	0.90	0.41	-	87,87,87,87	0
59	MG	AA	3816	1/1	0.88	0.44	-	73,73,73,73	0
59	MG	CA	1872	1/1	0.96	0.08	-	74,74,74,74	0
59	MG	BB	110	1/1	0.83	0.19	-	69,69,69,69	0
59	MG	DA	3325	1/1	0.92	0.24	-	62,62,62,62	0
59	MG	DA	3362	1/1	0.96	0.24	-	35,35,35,35	0
59	MG	AA	3883	1/1	0.73	0.32	-	100,100,100,100	0
59	MG	AA	3138	1/1	0.99	0.17	-	19,19,19,19	0
59	MG	DA	4251	1/1	0.98	0.15	-	51,51,51,51	0
59	MG	CA	1749	1/1	0.94	0.13	-	68,68,68,68	0
59	MG	DW	104	1/1	0.94	0.16	-	49,49,49,49	0
59	MG	BA	1612	1/1	0.73	0.49	-	90,90,90,90	0
59	MG	CA	2286	1/1	0.84	0.16	-	67,67,67,67	0
59	MG	AA	3763	1/1	0.97	0.12	-	48,48,48,48	0
59	MG	BA	2007	1/1	0.87	0.21	-	106,106,106,106	0
59	MG	DA	4438	1/1	0.90	0.39	-	89,89,89,89	0
59	MG	AA	3322	1/1	0.91	0.17	-	58,58,58,58	0
59	MG	AA	3496	1/1	0.81	0.10	-	63,63,63,63	0
59	MG	DA	4141	1/1	0.93	0.55	-	66,66,66,66	0
59	MG	DA	3364	1/1	0.89	0.27	-	54,54,54,54	0
59	MG	AA	4158	1/1	0.94	0.14	-	93,93,93,93	0
59	MG	DA	3133	1/1	0.98	0.31	-	45,45,45,45	0
59	MG	CA	1678	1/1	0.86	0.48	-	65,65,65,65	0
59	MG	DA	3524	1/1	0.93	0.07	-	32,32,32,32	0
59	MG	A7	104	1/1	0.93	0.27	-	88,88,88,88	0
59	MG	AA	3736	1/1	0.86	0.18	-	72,72,72,72	0
59	MG	DR	201	1/1	0.91	0.14	-	72,72,72,72	0
59	MG	AA	3785	1/1	0.94	0.27	-	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4288	1/1	0.95	0.22	-	72,72,72,72	0
59	MG	DA	4321	1/1	0.60	0.28	-	70,70,70,70	0
59	MG	DA	4161	1/1	0.96	0.39	-	61,61,61,61	0
59	MG	CA	2084	1/1	0.67	0.12	-	77,77,77,77	0
59	MG	BA	1787	1/1	0.97	0.23	-	49,49,49,49	0
59	MG	DA	4011	1/1	0.95	0.17	-	52,52,52,52	0
59	MG	BA	2003	1/1	0.74	0.17	-	98,98,98,98	0
59	MG	AA	3191	1/1	0.99	0.28	-	31,31,31,31	0
59	MG	BA	2095	1/1	0.92	0.26	-	67,67,67,67	0
59	MG	DA	3938	1/1	0.97	0.08	-	96,96,96,96	0
59	MG	DA	4823	1/1	0.79	0.24	-	71,71,71,71	0
59	MG	AA	3109	1/1	0.98	0.27	-	40,40,40,40	0
59	MG	AD	302	1/1	0.91	0.16	-	71,71,71,71	0
59	MG	CA	1887	1/1	0.39	0.32	-	92,92,92,92	0
59	MG	AA	3326	1/1	0.97	0.10	-	22,22,22,22	0
59	MG	BA	2002	1/1	0.90	0.23	-	73,73,73,73	0
59	MG	AA	4161	1/1	0.92	0.15	-	68,68,68,68	0
59	MG	AA	3467	1/1	0.92	0.29	-	55,55,55,55	0
59	MG	BA	1785	1/1	0.68	0.32	-	67,67,67,67	0
59	MG	DA	3488	1/1	0.93	0.25	-	37,37,37,37	0
59	MG	DA	4266	1/1	0.89	0.13	-	64,64,64,64	0
59	MG	DA	3477	1/1	0.98	0.24	-	171,171,171,171	0
59	MG	BA	2066	1/1	0.81	0.38	-	105,105,105,105	0
59	MG	DO	206	1/1	0.88	0.31	-	51,51,51,51	0
59	MG	DA	4119	1/1	0.89	0.12	-	47,47,47,47	0
59	MG	DW	101	1/1	0.87	0.26	-	49,49,49,49	0
59	MG	BA	2221	1/1	0.84	0.13	-	75,75,75,75	0
59	MG	DA	4504	1/1	0.80	0.36	-	82,82,82,82	0
59	MG	AA	3221	1/1	0.91	0.33	-	63,63,63,63	0
59	MG	DA	4400	1/1	0.97	0.24	-	83,83,83,83	0
59	MG	AA	3407	1/1	0.84	0.43	-	78,78,78,78	0
59	MG	AA	3875	1/1	0.95	0.06	-	67,67,67,67	0
59	MG	BA	2041	1/1	0.89	0.44	-	91,91,91,91	0
59	MG	DA	4938	1/1	0.89	0.12	-	55,55,55,55	0
59	MG	AA	3611	1/1	0.87	0.08	-	70,70,70,70	0
59	MG	AA	3881	1/1	0.93	0.12	-	72,72,72,72	0
59	MG	DA	3484	1/1	0.84	0.34	-	76,76,76,76	0
59	MG	CA	1673	1/1	0.95	0.20	-	97,97,97,97	0
59	MG	DA	4515	1/1	0.92	0.19	-	60,60,60,60	0
59	MG	AA	3405	1/1	0.88	0.36	-	73,73,73,73	0
59	MG	DA	4608	1/1	0.90	0.17	-	47,47,47,47	0
59	MG	BA	2015	1/1	0.93	0.16	-	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	2073	1/1	0.91	0.08	-	81,81,81,81	0
59	MG	BA	2248	1/1	0.97	0.07	-	61,61,61,61	0
59	MG	DA	4212	1/1	0.97	0.21	-	54,54,54,54	0
59	MG	AA	3658	1/1	0.75	0.23	-	64,64,64,64	0
59	MG	AB	211	1/1	0.83	0.34	-	77,77,77,77	0
59	MG	A7	102	1/1	0.80	0.41	-	59,59,59,59	0
59	MG	CA	1655	1/1	0.97	0.12	-	18,18,18,18	0
59	MG	DA	3208	1/1	0.84	0.26	-	72,72,72,72	0
59	MG	DA	4170	1/1	0.94	0.32	-	46,46,46,46	0
59	MG	AA	3619	1/1	0.94	0.08	-	64,64,64,64	0
59	MG	AA	3072	1/1	0.95	0.23	-	21,21,21,21	0
59	MG	BA	1812	1/1	0.89	0.27	-	136,136,136,136	0
59	MG	AA	3999	1/1	0.87	0.15	-	57,57,57,57	0
59	MG	CA	2092	1/1	0.85	0.42	-	94,94,94,94	0
59	MG	DA	3089	1/1	0.99	0.36	-	23,23,23,23	0
59	MG	CD	116	1/1	0.91	0.15	-	78,78,78,78	0
59	MG	AA	4025	1/1	0.85	0.23	-	86,86,86,86	0
59	MG	DA	3843	1/1	0.76	0.22	-	53,53,53,53	0
59	MG	CA	2257	1/1	0.91	0.26	-	60,60,60,60	0
59	MG	DA	3074	1/1	0.92	0.22	-	22,22,22,22	0
59	MG	AA	4154	1/1	0.87	0.19	-	89,89,89,89	0
59	MG	CA	2272	1/1	0.81	0.09	-	147,147,147,147	0
59	MG	AA	3958	1/1	0.84	0.31	-	94,94,94,94	0
59	MG	DA	4337	1/1	0.92	0.21	-	58,58,58,58	0
59	MG	AA	3413	1/1	0.80	0.49	-	95,95,95,95	0
59	MG	AA	3650	1/1	0.97	0.10	-	70,70,70,70	0
59	MG	AA	3200	1/1	0.96	0.34	-	83,83,83,83	0
59	MG	AA	3420	1/1	0.86	0.25	-	68,68,68,68	0
59	MG	BD	126	1/1	0.77	0.41	-	133,133,133,133	0
59	MG	AA	3748	1/1	0.90	0.09	-	84,84,84,84	0
59	MG	DA	3340	1/1	0.91	0.24	-	37,37,37,37	0
59	MG	AA	3241	1/1	0.90	0.15	-	59,59,59,59	0
59	MG	DA	3261	1/1	0.94	0.20	-	34,34,34,34	0
59	MG	DA	3645	1/1	0.82	0.15	-	61,61,61,61	0
59	MG	AA	3765	1/1	0.83	0.29	-	74,74,74,74	0
59	MG	AA	3327	1/1	0.94	0.21	-	45,45,45,45	0
59	MG	AA	3591	1/1	0.61	0.22	-	106,106,106,106	0
59	MG	CA	1831	1/1	0.95	0.13	-	132,132,132,132	0
59	MG	AA	4101	1/1	0.90	0.27	-	99,99,99,99	0
59	MG	CA	1663	1/1	0.93	0.10	-	52,52,52,52	0
59	MG	DA	4147	1/1	0.96	0.33	-	42,42,42,42	0
59	MG	CA	1737	1/1	0.93	0.20	-	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	1951	1/1	0.83	0.08	-	82,82,82,82	0
59	MG	DA	3754	1/1	0.92	0.08	-	107,107,107,107	0
59	MG	CA	1783	1/1	0.89	0.14	-	56,56,56,56	0
59	MG	DA	4847	1/1	0.96	0.16	-	117,117,117,117	0
59	MG	DA	4549	1/1	0.80	0.14	-	98,98,98,98	0
59	MG	AA	3217	1/1	0.98	0.44	-	57,57,57,57	0
59	MG	DA	4137	1/1	0.94	0.21	-	39,39,39,39	0
59	MG	CA	2106	1/1	0.86	0.11	-	83,83,83,83	0
59	MG	DA	4676	1/1	0.93	0.46	-	82,82,82,82	0
59	MG	BA	2033	1/1	0.52	0.15	-	94,94,94,94	0
59	MG	DA	4052	1/1	0.91	0.16	-	178,178,178,178	0
59	MG	AA	3847	1/1	0.94	0.17	-	84,84,84,84	0
59	MG	DM	206	1/1	0.81	0.39	-	85,85,85,85	0
59	MG	DA	4831	1/1	0.76	0.24	-	82,82,82,82	0
59	MG	DB	258	1/1	0.90	0.38	-	77,77,77,77	0
59	MG	DA	3905	1/1	0.86	0.20	-	61,61,61,61	0
59	MG	BA	2138	1/1	0.62	0.17	-	74,74,74,74	0
59	MG	DA	3741	1/1	0.69	0.42	-	76,76,76,76	0
59	MG	CA	1796	1/1	0.92	0.14	-	67,67,67,67	0
59	MG	DA	4857	1/1	0.88	0.20	-	56,56,56,56	0
59	MG	CA	1677	1/1	0.84	0.26	-	89,89,89,89	0
59	MG	CA	1682	1/1	0.91	0.26	-	36,36,36,36	0
59	MG	BA	1979	1/1	0.90	0.22	-	73,73,73,73	0
59	MG	BA	1847	1/1	0.95	0.09	-	74,74,74,74	0
59	MG	DF	325	1/1	0.91	0.14	-	47,47,47,47	0
59	MG	BA	1764	1/1	0.96	0.08	-	50,50,50,50	0
59	MG	DX	102	1/1	0.82	0.14	-	62,62,62,62	0
59	MG	AA	4034	1/1	0.95	0.11	-	100,100,100,100	0
59	MG	AA	3473	1/1	0.94	0.13	-	63,63,63,63	0
59	MG	CA	1601	1/1	0.93	0.08	-	41,41,41,41	0
59	MG	DA	3495	1/1	0.86	0.21	-	51,51,51,51	0
59	MG	CA	2279	1/1	0.90	0.22	-	67,67,67,67	0
59	MG	DA	5000	1/1	0.88	0.45	-	71,71,71,71	0
59	MG	AA	3025	1/1	0.87	0.29	-	38,38,38,38	0
59	MG	DA	4107	1/1	0.94	0.15	-	49,49,49,49	0
59	MG	AA	3786	1/1	0.89	0.51	-	107,107,107,107	0
59	MG	AA	3855	1/1	0.81	0.10	-	72,72,72,72	0
59	MG	DA	4578	1/1	0.93	0.16	-	95,95,95,95	0
59	MG	BA	2257	1/1	0.79	0.10	-	85,85,85,85	0
59	MG	DB	259	1/1	0.95	0.35	-	69,69,69,69	0
59	MG	BA	1805	1/1	0.83	0.42	-	99,99,99,99	0
59	MG	DA	5042	1/1	0.53	0.39	-	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3565	1/1	0.93	0.20	-	55,55,55,55	0
59	MG	BA	2215	1/1	0.52	0.24	-	79,79,79,79	0
59	MG	CC	119	1/1	0.94	0.16	-	46,46,46,46	0
59	MG	AA	3311	1/1	0.94	0.30	-	49,49,49,49	0
59	MG	DA	5006	1/1	0.90	0.18	-	61,61,61,61	0
59	MG	DA	3224	1/1	0.96	0.11	-	31,31,31,31	0
59	MG	DA	3168	1/1	0.82	0.17	-	40,40,40,40	0
59	MG	DA	4083	1/1	0.88	0.23	-	52,52,52,52	0
59	MG	AA	3774	1/1	0.95	0.18	-	79,79,79,79	0
59	MG	DA	5018	1/1	0.92	0.27	-	89,89,89,89	0
59	MG	AA	3637	1/1	0.89	0.12	-	54,54,54,54	0
59	MG	BA	2155	1/1	0.94	0.15	-	71,71,71,71	0
59	MG	DA	3616	1/1	0.97	0.21	-	64,64,64,64	0
59	MG	CG	304	1/1	0.89	0.10	-	95,95,95,95	0
59	MG	BA	1975	1/1	0.90	0.30	-	109,109,109,109	0
59	MG	AA	4097	1/1	0.76	0.47	-	109,109,109,109	0
59	MG	AB	234	1/1	0.87	0.25	-	105,105,105,105	0
59	MG	AA	4143	1/1	0.90	0.49	-	112,112,112,112	0
59	MG	AA	3539	1/1	0.86	0.09	-	50,50,50,50	0
59	MG	AA	3472	1/1	0.98	0.17	-	59,59,59,59	0
59	MG	DA	4574	1/1	0.74	0.31	-	73,73,73,73	0
59	MG	BA	1700	1/1	0.87	0.23	-	46,46,46,46	0
59	MG	DU	213	1/1	0.87	0.34	-	70,70,70,70	0
59	MG	DA	4681	1/1	0.62	0.43	-	118,118,118,118	0
59	MG	DA	3814	1/1	0.85	0.19	-	67,67,67,67	0
59	MG	AD	301	1/1	0.96	0.09	-	36,36,36,36	0
59	MG	DA	3426	1/1	0.93	0.41	-	39,39,39,39	0
59	MG	BA	1708	1/1	0.95	0.25	-	57,57,57,57	0
59	MG	A6	102	1/1	0.94	0.07	-	60,60,60,60	0
59	MG	BD	108	1/1	0.78	0.13	-	82,82,82,82	0
59	MG	DA	3968	1/1	0.81	0.30	-	55,55,55,55	0
59	MG	DA	3857	1/1	0.82	0.48	-	78,78,78,78	0
59	MG	AA	3089	1/1	0.82	0.37	-	70,70,70,70	0
59	MG	DA	3795	1/1	0.71	0.34	-	88,88,88,88	0
59	MG	BA	2105	1/1	0.90	0.17	-	117,117,117,117	0
59	MG	CA	2109	1/1	0.77	0.11	-	74,74,74,74	0
59	MG	DA	4145	1/1	0.95	0.21	-	44,44,44,44	0
59	MG	DA	4610	1/1	0.87	0.09	-	114,114,114,114	0
59	MG	DA	4741	1/1	0.84	0.20	-	62,62,62,62	0
59	MG	DA	4072	1/1	0.95	0.11	-	48,48,48,48	0
59	MG	AA	3906	1/1	0.94	0.30	-	67,67,67,67	0
59	MG	BA	1829	1/1	0.83	0.17	-	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	1677	1/1	0.89	0.26	-	52,52,52,52	0
59	MG	AA	3080	1/1	0.87	0.14	-	41,41,41,41	0
59	MG	AA	3558	1/1	0.93	0.12	-	50,50,50,50	0
59	MG	DA	4862	1/1	0.90	0.12	-	66,66,66,66	0
59	MG	DA	3472	1/1	0.85	0.32	-	55,55,55,55	0
59	MG	AA	4061	1/1	0.91	0.27	-	79,79,79,79	0
59	MG	AA	4033	1/1	0.86	0.34	-	83,83,83,83	0
59	MG	AA	3097	1/1	0.85	0.10	-	73,73,73,73	0
59	MG	CA	1863	1/1	0.90	0.17	-	66,66,66,66	0
59	MG	DA	3526	1/1	0.76	0.16	-	46,46,46,46	0
59	MG	DA	3202	1/1	0.92	0.20	-	37,37,37,37	0
59	MG	DA	4646	1/1	0.89	0.21	-	69,69,69,69	0
59	MG	BA	1994	1/1	0.79	0.15	-	107,107,107,107	0
59	MG	BF	301	1/1	0.63	0.17	-	104,104,104,104	0
59	MG	CA	1888	1/1	0.93	0.41	-	72,72,72,72	0
59	MG	BA	1671	1/1	0.91	0.24	-	50,50,50,50	0
59	MG	CA	2054	1/1	0.95	0.08	-	62,62,62,62	0
59	MG	BA	1691	1/1	0.95	0.04	-	65,65,65,65	0
59	MG	DA	4319	1/1	0.91	0.23	-	67,67,67,67	0
59	MG	BA	2225	1/1	0.86	0.13	-	98,98,98,98	0
59	MG	CA	2310	1/1	0.89	0.12	-	127,127,127,127	0
59	MG	AA	3209	1/1	0.97	0.21	-	77,77,77,77	0
59	MG	AA	3383	1/1	0.97	0.14	-	24,24,24,24	0
59	MG	DF	319	1/1	0.92	0.15	-	67,67,67,67	0
59	MG	D2	204	1/1	0.91	0.47	-	51,51,51,51	0
59	MG	D2	201	1/1	0.95	0.17	-	48,48,48,48	0
59	MG	AA	3745	1/1	0.94	0.18	-	57,57,57,57	0
59	MG	DA	3769	1/1	0.71	0.35	-	72,72,72,72	0
59	MG	DA	3394	1/1	0.97	0.31	-	43,43,43,43	0
59	MG	AA	3947	1/1	0.93	0.24	-	84,84,84,84	0
59	MG	AB	236	1/1	0.91	0.22	-	64,64,64,64	0
59	MG	CA	2140	1/1	0.91	0.07	-	110,110,110,110	0
59	MG	DA	4431	1/1	0.69	0.19	-	87,87,87,87	0
59	MG	CA	2049	1/1	0.82	0.39	-	113,113,113,113	0
59	MG	DA	3971	1/1	0.89	0.21	-	66,66,66,66	0
59	MG	DA	5066	1/1	0.75	0.34	-	61,61,61,61	0
59	MG	AA	3691	1/1	0.95	0.18	-	79,79,79,79	0
59	MG	CA	1935	1/1	0.78	0.17	-	45,45,45,45	0
59	MG	D3	107	1/1	0.79	0.16	-	53,53,53,53	0
59	MG	CA	2113	1/1	0.97	0.29	-	68,68,68,68	0
59	MG	DA	4558	1/1	0.91	0.26	-	86,86,86,86	0
59	MG	DA	3034	1/1	0.99	0.24	-	11,11,11,11	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4116	1/1	0.94	0.36	-	78,78,78,78	0
59	MG	BA	1929	1/1	0.47	0.09	-	85,85,85,85	0
59	MG	BA	2034	1/1	0.94	0.21	-	68,68,68,68	0
59	MG	DA	3947	1/1	0.89	0.07	-	72,72,72,72	0
59	MG	AA	3059	1/1	0.57	0.23	-	68,68,68,68	0
59	MG	CD	113	1/1	0.95	0.09	-	75,75,75,75	0
59	MG	CA	2214	1/1	0.72	0.16	-	104,104,104,104	0
59	MG	DB	202	1/1	0.96	0.28	-	48,48,48,48	0
59	MG	CA	2142	1/1	0.82	0.51	-	110,110,110,110	0
59	MG	AA	4105	1/1	0.86	0.10	-	106,106,106,106	0
59	MG	DA	3682	1/1	0.78	0.16	-	83,83,83,83	0
59	MG	AQ	204	1/1	0.59	0.13	-	80,80,80,80	0
59	MG	DF	309	1/1	0.78	0.24	-	46,46,46,46	0
59	MG	DA	3263	1/1	0.87	0.15	-	24,24,24,24	0
59	MG	AA	3516	1/1	0.94	0.14	-	35,35,35,35	0
59	MG	DA	3098	1/1	0.93	0.12	-	34,34,34,34	0
59	MG	AA	3783	1/1	0.95	0.22	-	86,86,86,86	0
59	MG	CA	2066	1/1	0.93	0.32	-	77,77,77,77	0
59	MG	AA	3573	1/1	0.90	0.19	-	44,44,44,44	0
59	MG	AF	302	1/1	0.89	0.18	-	69,69,69,69	0
59	MG	AA	3328	1/1	0.96	0.15	-	32,32,32,32	0
59	MG	DA	3075	1/1	0.97	0.24	-	19,19,19,19	0
59	MG	AA	3893	1/1	0.90	0.15	-	67,67,67,67	0
59	MG	CA	2155	1/1	0.84	0.19	-	65,65,65,65	0
59	MG	BA	1712	1/1	0.79	0.35	-	56,56,56,56	0
59	MG	CA	1800	1/1	0.85	0.07	-	89,89,89,89	0
59	MG	CA	2168	1/1	0.95	0.23	-	108,108,108,108	0
59	MG	DA	4948	1/1	0.69	0.51	-	126,126,126,126	0
59	MG	AA	3123	1/1	0.93	0.20	-	47,47,47,47	0
59	MG	CW	201	1/1	0.70	0.41	-	89,89,89,89	0
59	MG	CA	1736	1/1	0.97	0.17	-	30,30,30,30	0
59	MG	AA	3940	1/1	0.98	0.32	-	61,61,61,61	0
59	MG	AA	3565	1/1	0.62	0.36	-	89,89,89,89	0
59	MG	DA	4840	1/1	0.93	0.29	-	111,111,111,111	0
59	MG	AA	3994	1/1	0.88	0.11	-	68,68,68,68	0
59	MG	DA	4970	1/1	0.94	0.35	-	87,87,87,87	0
59	MG	CA	1691	1/1	0.93	0.16	-	33,33,33,33	0
59	MG	DA	4238	1/1	0.94	0.21	-	52,52,52,52	0
59	MG	DA	3653	1/1	0.85	0.30	-	61,61,61,61	0
59	MG	BA	2077	1/1	0.75	0.16	-	74,74,74,74	0
59	MG	CA	1993	1/1	0.94	0.08	-	91,91,91,91	0
59	MG	AA	3194	1/1	0.86	0.14	-	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	1743	1/1	0.84	0.17	-	81,81,81,81	0
59	MG	BA	1935	1/1	0.91	0.22	-	95,95,95,95	0
59	MG	AA	3717	1/1	0.53	0.42	-	106,106,106,106	0
59	MG	DA	3630	1/1	0.92	0.27	-	71,71,71,71	0
59	MG	AA	3676	1/1	0.91	0.45	-	81,81,81,81	0
59	MG	AA	4133	1/1	0.41	0.50	-	127,127,127,127	0
59	MG	DA	3551	1/1	0.93	0.28	-	29,29,29,29	0
59	MG	AA	4164	1/1	0.95	0.16	-	80,80,80,80	0
59	MG	DA	3186	1/1	0.92	0.16	-	39,39,39,39	0
59	MG	BA	2195	1/1	0.85	0.14	-	67,67,67,67	0
59	MG	DA	3839	1/1	0.92	0.17	-	54,54,54,54	0
59	MG	AA	3769	1/1	0.90	0.09	-	80,80,80,80	0
59	MG	BA	2069	1/1	0.82	0.49	-	105,105,105,105	0
59	MG	CA	2158	1/1	0.91	0.14	-	58,58,58,58	0
59	MG	DA	4853	1/1	0.92	0.21	-	80,80,80,80	0
59	MG	CK	201	1/1	0.93	0.33	-	102,102,102,102	0
59	MG	CA	2144	1/1	0.94	0.20	-	61,61,61,61	0
59	MG	AA	3556	1/1	0.93	0.19	-	74,74,74,74	0
59	MG	CA	2120	1/1	0.81	0.30	-	84,84,84,84	0
59	MG	CC	106	1/1	0.81	0.24	-	60,60,60,60	0
59	MG	AA	4015	1/1	0.76	0.39	-	104,104,104,104	0
59	MG	DA	4960	1/1	0.85	0.25	-	77,77,77,77	0
59	MG	CA	1621	1/1	0.94	0.16	-	45,45,45,45	0
59	MG	CA	1980	1/1	0.67	0.38	-	83,83,83,83	0
59	MG	DA	3989	1/1	0.33	0.12	-	110,110,110,110	0
59	MG	BA	1892	1/1	0.86	0.09	-	75,75,75,75	0
59	MG	BA	1996	1/1	0.88	0.32	-	86,86,86,86	0
59	MG	CA	1939	1/1	0.95	0.06	-	81,81,81,81	0
59	MG	AA	3454	1/1	0.86	0.17	-	67,67,67,67	0
59	MG	BA	1807	1/1	0.98	0.15	-	63,63,63,63	0
59	MG	AA	3841	1/1	0.81	0.25	-	85,85,85,85	0
59	MG	DA	4181	1/1	0.94	0.20	-	81,81,81,81	0
59	MG	DA	3451	1/1	0.84	0.51	-	76,76,76,76	0
59	MG	DA	4312	1/1	0.99	0.20	-	49,49,49,49	0
59	MG	DA	3280	1/1	0.95	0.12	-	32,32,32,32	0
59	MG	CA	2239	1/1	0.90	0.13	-	65,65,65,65	0
59	MG	DA	3016	1/1	0.99	0.17	-	4,4,4,4	0
59	MG	CA	2235	1/1	0.84	0.23	-	70,70,70,70	0
59	MG	CA	2251	1/1	0.78	0.16	-	93,93,93,93	0
59	MG	AA	3949	1/1	0.90	0.06	-	71,71,71,71	0
59	MG	DA	3842	1/1	0.81	0.10	-	54,54,54,54	0
59	MG	DA	4591	1/1	0.90	0.30	-	107,107,107,107	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3901	1/1	0.93	0.19	-	52,52,52,52	0
59	MG	AU	202	1/1	0.78	0.23	-	76,76,76,76	0
59	MG	AA	3601	1/1	0.96	0.10	-	73,73,73,73	0
59	MG	DA	4190	1/1	0.75	0.08	-	70,70,70,70	0
59	MG	DA	3643	1/1	0.86	0.24	-	62,62,62,62	0
59	MG	CA	2077	1/1	0.71	0.14	-	96,96,96,96	0
59	MG	AA	3617	1/1	0.95	0.06	-	59,59,59,59	0
59	MG	CA	1709	1/1	0.76	0.17	-	55,55,55,55	0
59	MG	DA	3595	1/1	0.89	0.23	-	38,38,38,38	0
59	MG	BC	114	1/1	0.84	0.19	-	58,58,58,58	0
59	MG	DA	4446	1/1	0.90	0.11	-	54,54,54,54	0
59	MG	DA	4522	1/1	0.87	0.25	-	64,64,64,64	0
59	MG	DA	4539	1/1	0.77	0.34	-	85,85,85,85	0
59	MG	DA	4028	1/1	0.87	0.24	-	48,48,48,48	0
59	MG	BA	2119	1/1	0.75	0.16	-	67,67,67,67	0
59	MG	DA	4884	1/1	0.90	0.16	-	73,73,73,73	0
59	MG	DA	4063	1/1	0.88	0.20	-	52,52,52,52	0
59	MG	AA	3874	1/1	0.95	0.12	-	90,90,90,90	0
59	MG	DA	3217	1/1	0.95	0.19	-	28,28,28,28	0
59	MG	CA	2194	1/1	0.80	0.20	-	101,101,101,101	0
59	MG	DA	4192	1/1	0.93	0.56	-	65,65,65,65	0
59	MG	AA	3306	1/1	0.94	0.29	-	49,49,49,49	0
59	MG	CA	2297	1/1	0.82	0.17	-	71,71,71,71	0
59	MG	AA	3384	1/1	0.92	0.27	-	47,47,47,47	0
59	MG	CA	2173	1/1	0.79	0.15	-	71,71,71,71	0
59	MG	CA	1707	1/1	0.95	0.40	-	54,54,54,54	0
59	MG	BA	2035	1/1	0.91	0.15	-	91,91,91,91	0
59	MG	D2	210	1/1	0.82	0.56	-	98,98,98,98	0
59	MG	BA	2023	1/1	0.91	0.20	-	67,67,67,67	0
59	MG	BA	2047	1/1	0.88	0.18	-	107,107,107,107	0
59	MG	DA	3182	1/1	0.83	0.34	-	65,65,65,65	0
59	MG	AA	4102	1/1	0.86	0.21	-	90,90,90,90	0
59	MG	BA	2140	1/1	0.78	0.30	-	103,103,103,103	0
59	MG	DA	3800	1/1	0.96	0.13	-	33,33,33,33	0
59	MG	BA	1918	1/1	0.94	0.07	-	74,74,74,74	0
59	MG	DA	4200	1/1	0.83	0.18	-	61,61,61,61	0
59	MG	DA	3961	1/1	0.95	0.15	-	41,41,41,41	0
59	MG	DA	3690	1/1	0.87	0.26	-	111,111,111,111	0
59	MG	BA	1871	1/1	0.95	0.03	-	74,74,74,74	0
59	MG	DA	3407	1/1	0.83	0.33	-	70,70,70,70	0
59	MG	AA	3842	1/1	0.94	0.13	-	67,67,67,67	0
59	MG	DA	3307	1/1	0.72	0.19	-	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AZ	101	1/1	0.72	0.22	-	83,83,83,83	0
59	MG	CA	2223	1/1	0.96	0.21	-	67,67,67,67	0
59	MG	BA	2067	1/1	0.69	0.17	-	95,95,95,95	0
59	MG	BA	1972	1/1	0.96	0.10	-	53,53,53,53	0
59	MG	BA	2113	1/1	0.84	0.30	-	92,92,92,92	0
59	MG	CA	1838	1/1	0.89	0.30	-	122,122,122,122	0
59	MG	AA	3514	1/1	0.90	0.33	-	49,49,49,49	0
59	MG	BA	1707	1/1	0.85	0.35	-	59,59,59,59	0
59	MG	AA	4112	1/1	0.70	0.38	-	89,89,89,89	0
59	MG	CA	2136	1/1	0.92	0.23	-	77,77,77,77	0
59	MG	AB	203	1/1	0.90	0.20	-	37,37,37,37	0
59	MG	AA	3755	1/1	0.92	0.08	-	63,63,63,63	0
59	MG	CA	1774	1/1	0.61	0.17	-	78,78,78,78	0
59	MG	AE	301	1/1	0.98	0.18	-	35,35,35,35	0
59	MG	AA	4093	1/1	0.79	0.56	-	114,114,114,114	0
59	MG	AA	3653	1/1	0.93	0.14	-	58,58,58,58	0
59	MG	BA	2175	1/1	0.93	0.17	-	81,81,81,81	0
59	MG	DA	4800	1/1	0.83	0.16	-	49,49,49,49	0
59	MG	CA	1971	1/1	0.91	0.16	-	54,54,54,54	0
59	MG	D5	101	1/1	0.92	0.21	-	31,31,31,31	0
59	MG	AA	3228	1/1	0.99	0.06	-	53,53,53,53	0
59	MG	DA	3180	1/1	0.82	0.12	-	77,77,77,77	0
59	MG	BA	2270	1/1	0.82	0.29	-	100,100,100,100	0
59	MG	BA	1623	1/1	0.91	0.09	-	53,53,53,53	0
59	MG	DA	4900	1/1	0.89	0.45	-	76,76,76,76	0
59	MG	DA	4755	1/1	0.94	0.25	-	80,80,80,80	0
59	MG	BD	121	1/1	0.91	0.27	-	79,79,79,79	0
59	MG	CA	1653	1/1	0.94	0.27	-	47,47,47,47	0
59	MG	CC	126	1/1	0.97	0.08	-	55,55,55,55	0
59	MG	BA	2208	1/1	0.83	0.34	-	105,105,105,105	0
59	MG	AA	3768	1/1	0.96	0.19	-	79,79,79,79	0
59	MG	DA	4832	1/1	0.92	0.17	-	86,86,86,86	0
59	MG	DA	4501	1/1	0.91	0.26	-	54,54,54,54	0
59	MG	DA	3247	1/1	0.82	0.23	-	72,72,72,72	0
59	MG	BA	1718	1/1	0.84	0.26	-	43,43,43,43	0
59	MG	DA	3024	1/1	0.99	0.20	-	9,9,9,9	0
59	MG	BH	204	1/1	0.84	0.17	-	72,72,72,72	0
59	MG	DA	3084	1/1	0.93	0.28	-	10,10,10,10	0
59	MG	DA	3194	1/1	0.94	0.21	-	57,57,57,57	0
59	MG	D1	202	1/1	0.80	0.24	-	57,57,57,57	0
59	MG	AA	3933	1/1	0.89	0.43	-	115,115,115,115	0
59	MG	AA	3927	1/1	0.79	0.18	-	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	1746	1/1	0.87	0.34	-	62,62,62,62	0
59	MG	CA	1846	1/1	0.85	0.13	-	90,90,90,90	0
59	MG	DA	3590	1/1	0.94	0.18	-	46,46,46,46	0
59	MG	CA	1877	1/1	0.91	0.13	-	100,100,100,100	0
59	MG	BA	2051	1/1	0.85	0.21	-	108,108,108,108	0
59	MG	DA	4819	1/1	0.92	0.26	-	64,64,64,64	0
59	MG	AA	3684	1/1	0.94	0.17	-	58,58,58,58	0
59	MG	AA	3313	1/1	0.91	0.18	-	83,83,83,83	0
59	MG	DA	3326	1/1	0.71	0.20	-	63,63,63,63	0
59	MG	BE	305	1/1	0.41	0.21	-	95,95,95,95	0
59	MG	CA	2038	1/1	0.93	0.09	-	74,74,74,74	0
59	MG	AA	4000	1/1	0.73	0.24	-	91,91,91,91	0
59	MG	DA	4655	1/1	0.90	0.13	-	79,79,79,79	0
59	MG	DB	232	1/1	0.95	0.38	-	54,54,54,54	0
59	MG	DA	3908	1/1	0.79	0.20	-	124,124,124,124	0
59	MG	DA	3564	1/1	0.87	0.41	-	83,83,83,83	0
59	MG	DA	3721	1/1	0.85	0.15	-	51,51,51,51	0
59	MG	CA	2148	1/1	0.90	0.13	-	69,69,69,69	0
59	MG	DA	4275	1/1	0.76	0.35	-	78,78,78,78	0
59	MG	DA	3271	1/1	0.97	0.24	-	33,33,33,33	0
59	MG	DA	4196	1/1	0.97	0.17	-	43,43,43,43	0
59	MG	BA	2099	1/1	0.54	0.13	-	67,67,67,67	0
59	MG	AA	3415	1/1	0.93	0.06	-	63,63,63,63	0
59	MG	BA	1987	1/1	0.80	0.18	-	83,83,83,83	0
59	MG	DA	4965	1/1	0.96	0.36	-	61,61,61,61	0
59	MG	BT	202	1/1	0.91	0.10	-	76,76,76,76	0
59	MG	AA	3152	1/1	0.96	0.08	-	28,28,28,28	0
59	MG	AA	3081	1/1	0.91	0.14	-	61,61,61,61	0
59	MG	DA	4615	1/1	0.90	0.29	-	123,123,123,123	0
59	MG	AA	3784	1/1	0.89	0.21	-	64,64,64,64	0
59	MG	BS	101	1/1	0.70	0.13	-	76,76,76,76	0
59	MG	AA	3856	1/1	0.90	0.32	-	86,86,86,86	0
59	MG	CA	2232	1/1	0.89	0.35	-	86,86,86,86	0
59	MG	DA	4018	1/1	0.94	0.18	-	75,75,75,75	0
59	MG	AA	4118	1/1	0.85	0.13	-	67,67,67,67	0
59	MG	C1	105	1/1	0.93	0.43	-	89,89,89,89	0
59	MG	AA	3636	1/1	0.88	0.09	-	48,48,48,48	0
59	MG	BA	1963	1/1	0.89	0.13	-	83,83,83,83	0
59	MG	CA	2301	1/1	0.93	0.14	-	55,55,55,55	0
59	MG	AA	3376	1/1	0.46	0.31	-	116,116,116,116	0
59	MG	AA	3863	1/1	0.87	0.18	-	72,72,72,72	0
59	MG	AA	3537	1/1	0.90	0.65	-	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4123	1/1	0.81	0.18	-	75,75,75,75	0
59	MG	AA	3879	1/1	0.84	0.12	-	91,91,91,91	0
59	MG	DA	3143	1/1	0.90	0.37	-	61,61,61,61	0
59	MG	CA	1660	1/1	0.91	0.27	-	79,79,79,79	0
59	MG	DA	3575	1/1	0.65	0.51	-	112,112,112,112	0
59	MG	DA	3607	1/1	0.88	0.17	-	79,79,79,79	0
59	MG	CA	2228	1/1	0.88	0.25	-	75,75,75,75	0
59	MG	AA	3374	1/1	0.84	0.15	-	46,46,46,46	0
59	MG	DA	4304	1/1	0.90	0.23	-	94,94,94,94	0
59	MG	AA	3103	1/1	0.90	0.17	-	45,45,45,45	0
59	MG	BA	2126	1/1	0.91	0.15	-	74,74,74,74	0
59	MG	DA	4984	1/1	0.88	0.28	-	90,90,90,90	0
59	MG	DA	4127	1/1	0.86	0.28	-	70,70,70,70	0
59	MG	DA	4416	1/1	0.96	0.25	-	74,74,74,74	0
59	MG	AA	3399	1/1	0.92	0.19	-	75,75,75,75	0
59	MG	CA	1741	1/1	0.92	0.13	-	66,66,66,66	0
59	MG	AA	3871	1/1	0.96	0.15	-	51,51,51,51	0
59	MG	DA	3486	1/1	0.93	0.20	-	58,58,58,58	0
59	MG	DA	3509	1/1	0.77	0.39	-	47,47,47,47	0
59	MG	CA	1866	1/1	0.93	0.20	-	109,109,109,109	0
59	MG	CA	2222	1/1	0.81	0.14	-	72,72,72,72	0
59	MG	AA	3453	1/1	0.93	0.09	-	123,123,123,123	0
59	MG	BA	2102	1/1	0.78	0.12	-	85,85,85,85	0
59	MG	DA	4097	1/1	0.94	0.19	-	64,64,64,64	0
59	MG	DA	4191	1/1	0.99	0.21	-	48,48,48,48	0
59	MG	BA	2203	1/1	0.91	0.19	-	118,118,118,118	0
59	MG	DA	3672	1/1	0.88	0.29	-	76,76,76,76	0
59	MG	DA	4807	1/1	0.94	0.29	-	68,68,68,68	0
59	MG	CA	2247	1/1	0.90	0.15	-	103,103,103,103	0
59	MG	CA	1822	1/1	0.92	0.09	-	56,56,56,56	0
59	MG	AA	3575	1/1	0.84	0.31	-	51,51,51,51	0
59	MG	AA	3030	1/1	0.95	0.19	-	45,45,45,45	0
59	MG	CD	126	1/1	0.51	0.20	-	88,88,88,88	0
59	MG	CA	1747	1/1	0.81	0.14	-	51,51,51,51	0
59	MG	DA	3399	1/1	0.95	0.22	-	52,52,52,52	0
59	MG	AA	4081	1/1	0.89	0.31	-	49,49,49,49	0
59	MG	DF	318	1/1	0.82	0.25	-	69,69,69,69	0
59	MG	AA	3822	1/1	0.82	0.34	-	77,77,77,77	0
59	MG	AA	3078	1/1	0.98	0.24	-	44,44,44,44	0
59	MG	DA	3190	1/1	0.82	0.27	-	60,60,60,60	0
59	MG	CA	2210	1/1	0.80	0.11	-	144,144,144,144	0
59	MG	DA	3499	1/1	0.97	0.13	-	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4937	1/1	0.81	0.28	-	78,78,78,78	0
59	MG	DA	3004	1/1	0.97	0.17	-	9,9,9,9	0
59	MG	DA	3036	1/1	0.96	0.31	-	14,14,14,14	0
59	MG	BA	1947	1/1	0.91	0.15	-	53,53,53,53	0
59	MG	DA	3104	1/1	0.94	0.10	-	42,42,42,42	0
59	MG	DA	3624	1/1	0.78	0.27	-	74,74,74,74	0
59	MG	BA	1709	1/1	0.92	0.29	-	53,53,53,53	0
59	MG	AA	3547	1/1	0.97	0.14	-	47,47,47,47	0
59	MG	AA	3968	1/1	0.90	0.12	-	77,77,77,77	0
59	MG	CA	1711	1/1	0.99	0.13	-	62,62,62,62	0
59	MG	BA	2255	1/1	0.84	0.14	-	61,61,61,61	0
59	MG	AA	3447	1/1	0.64	0.17	-	71,71,71,71	0
59	MG	CA	1806	1/1	0.94	0.13	-	98,98,98,98	0
59	MG	AA	3022	1/1	0.88	0.24	-	63,63,63,63	0
59	MG	CA	1650	1/1	0.89	0.23	-	36,36,36,36	0
59	MG	DF	314	1/1	0.92	0.22	-	58,58,58,58	0
59	MG	DA	4985	1/1	0.76	0.40	-	88,88,88,88	0
59	MG	DA	4058	1/1	0.99	0.13	-	81,81,81,81	0
59	MG	DA	3525	1/1	0.80	0.18	-	43,43,43,43	0
59	MG	BA	2233	1/1	0.89	0.14	-	100,100,100,100	0
59	MG	DA	3087	1/1	0.99	0.17	-	15,15,15,15	0
59	MG	BA	1856	1/1	0.92	0.11	-	60,60,60,60	0
59	MG	DA	3258	1/1	0.68	0.17	-	83,83,83,83	0
59	MG	DA	4328	1/1	0.83	0.32	-	59,59,59,59	0
59	MG	DA	3693	1/1	0.89	0.13	-	108,108,108,108	0
59	MG	AA	3569	1/1	0.84	0.19	-	75,75,75,75	0
59	MG	BA	1658	1/1	0.91	0.14	-	49,49,49,49	0
59	MG	BA	1754	1/1	0.90	0.21	-	68,68,68,68	0
59	MG	AA	3671	1/1	0.90	0.21	-	102,102,102,102	0
59	MG	CA	2217	1/1	0.73	0.32	-	93,93,93,93	0
59	MG	DA	4818	1/1	0.91	0.27	-	80,80,80,80	0
59	MG	D7	104	1/1	0.77	0.25	-	47,47,47,47	0
59	MG	BA	1606	1/1	0.79	0.15	-	93,93,93,93	0
59	MG	CA	1918	1/1	0.96	0.44	-	86,86,86,86	0
59	MG	AA	4127	1/1	0.94	0.20	-	52,52,52,52	0
59	MG	CA	2253	1/1	0.62	0.30	-	85,85,85,85	0
59	MG	DA	4834	1/1	0.78	0.26	-	78,78,78,78	0
59	MG	CD	103	1/1	0.80	0.41	-	75,75,75,75	0
59	MG	DA	4585	1/1	0.94	0.17	-	76,76,76,76	0
59	MG	BA	1857	1/1	0.18	0.27	-	122,122,122,122	0
59	MG	DA	3597	1/1	0.94	0.36	-	23,23,23,23	0
59	MG	AA	3117	1/1	0.89	0.27	-	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4562	1/1	0.81	0.23	-	46,46,46,46	0
59	MG	DA	3106	1/1	0.97	0.13	-	56,56,56,56	0
59	MG	DA	3911	1/1	0.92	0.12	-	115,115,115,115	0
59	MG	DA	4002	1/1	0.99	0.15	-	42,42,42,42	0
59	MG	CA	1995	1/1	0.89	0.13	-	48,48,48,48	0
59	MG	A1	205	1/1	0.91	0.26	-	79,79,79,79	0
59	MG	AA	3518	1/1	0.96	0.05	-	17,17,17,17	0
59	MG	DA	4382	1/1	0.93	0.13	-	67,67,67,67	0
59	MG	DA	4730	1/1	0.85	0.20	-	57,57,57,57	0
59	MG	DA	3909	1/1	0.93	0.25	-	69,69,69,69	0
59	MG	DA	3661	1/1	0.84	0.15	-	68,68,68,68	0
59	MG	BA	2071	1/1	0.96	0.30	-	93,93,93,93	0
59	MG	BA	1783	1/1	0.85	0.20	-	81,81,81,81	0
59	MG	BA	1969	1/1	0.78	0.11	-	71,71,71,71	0
59	MG	BA	2088	1/1	0.89	0.33	-	98,98,98,98	0
59	MG	AA	4166	1/1	0.91	0.16	-	142,142,142,142	0
59	MG	AA	3074	1/1	0.91	0.23	-	51,51,51,51	0
59	MG	AA	3443	1/1	0.94	0.21	-	77,77,77,77	0
59	MG	DA	3853	1/1	0.93	0.24	-	71,71,71,71	0
59	MG	DA	4481	1/1	0.78	0.24	-	62,62,62,62	0
59	MG	DA	3209	1/1	0.95	0.25	-	33,33,33,33	0
59	MG	DA	4309	1/1	0.92	0.09	-	36,36,36,36	0
59	MG	DA	4724	1/1	0.84	0.24	-	89,89,89,89	0
59	MG	DA	3220	1/1	0.94	0.16	-	37,37,37,37	0
59	MG	DA	4307	1/1	0.72	0.30	-	57,57,57,57	0
59	MG	DA	3750	1/1	0.92	0.44	-	101,101,101,101	0
59	MG	AA	3156	1/1	0.95	0.20	-	55,55,55,55	0
59	MG	AA	3403	1/1	0.63	0.23	-	60,60,60,60	0
59	MG	BA	2141	1/1	0.82	0.26	-	80,80,80,80	0
59	MG	A5	102	1/1	0.93	0.27	-	28,28,28,28	0
59	MG	AA	3987	1/1	0.93	0.16	-	54,54,54,54	0
59	MG	BA	1615	1/1	0.92	0.19	-	81,81,81,81	0
59	MG	DA	3802	1/1	0.94	0.11	-	88,88,88,88	0
59	MG	BA	1882	1/1	0.94	0.28	-	42,42,42,42	0
59	MG	DA	4154	1/1	0.76	0.35	-	74,74,74,74	0
59	MG	CD	115	1/1	0.92	0.50	-	85,85,85,85	0
59	MG	DA	3799	1/1	0.89	0.25	-	83,83,83,83	0
59	MG	DA	5009	1/1	0.98	0.25	-	66,66,66,66	0
59	MG	DF	311	1/1	0.88	0.28	-	57,57,57,57	0
59	MG	CG	305	1/1	0.97	0.10	-	80,80,80,80	0
59	MG	DB	255	1/1	0.88	0.17	-	63,63,63,63	0
59	MG	AA	3823	1/1	0.92	0.17	-	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	2094	1/1	0.81	0.25	-	87,87,87,87	0
59	MG	CA	1824	1/1	0.95	0.15	-	102,102,102,102	0
59	MG	AA	3223	1/1	0.99	0.15	-	14,14,14,14	0
59	MG	AA	3369	1/1	0.86	0.15	-	81,81,81,81	0
59	MG	BA	1811	1/1	0.94	0.04	-	65,65,65,65	0
59	MG	DA	4258	1/1	0.87	0.32	-	64,64,64,64	0
59	MG	DA	4885	1/1	0.70	0.37	-	92,92,92,92	0
59	MG	CA	2117	1/1	0.74	0.34	-	84,84,84,84	0
59	MG	DW	103	1/1	0.92	0.21	-	78,78,78,78	0
59	MG	DA	4126	1/1	0.94	0.25	-	57,57,57,57	0
59	MG	CA	1712	1/1	0.83	0.33	-	67,67,67,67	0
59	MG	DA	5044	1/1	0.84	0.49	-	93,93,93,93	0
59	MG	DA	4080	1/1	0.84	0.34	-	89,89,89,89	0
59	MG	DA	3757	1/1	0.41	0.89	-	128,128,128,128	0
59	MG	BA	1653	1/1	0.97	0.37	-	47,47,47,47	0
59	MG	DA	3232	1/1	0.92	0.26	-	61,61,61,61	0
59	MG	DA	4358	1/1	0.95	0.15	-	56,56,56,56	0
59	MG	DA	4414	1/1	0.88	0.16	-	59,59,59,59	0
59	MG	DT	105	1/1	0.90	0.32	-	84,84,84,84	0
59	MG	AA	3707	1/1	0.75	0.12	-	63,63,63,63	0
59	MG	DA	4160	1/1	0.97	0.33	-	53,53,53,53	0
59	MG	CC	113	1/1	0.75	0.38	-	85,85,85,85	0
59	MG	DA	3433	1/1	0.95	0.23	-	43,43,43,43	0
59	MG	DA	3019	1/1	0.92	0.34	-	20,20,20,20	0
59	MG	BA	1601	1/1	0.95	0.20	-	27,27,27,27	0
59	MG	CA	2025	1/1	0.96	0.21	-	95,95,95,95	0
59	MG	DA	3615	1/1	0.89	0.45	-	112,112,112,112	0
59	MG	DA	4599	1/1	0.89	0.17	-	50,50,50,50	0
59	MG	BA	1690	1/1	0.91	0.07	-	66,66,66,66	0
59	MG	AA	3212	1/1	0.80	0.36	-	78,78,78,78	0
59	MG	DA	3141	1/1	0.95	0.24	-	42,42,42,42	0
59	MG	DA	3881	1/1	0.88	0.51	-	86,86,86,86	0
59	MG	DA	4849	1/1	0.90	0.25	-	55,55,55,55	0
59	MG	CK	204	1/1	0.89	0.09	-	60,60,60,60	0
59	MG	BA	1603	1/1	0.89	0.39	-	58,58,58,58	0
59	MG	DA	4293	1/1	0.96	0.38	-	54,54,54,54	0
59	MG	DA	4477	1/1	0.85	0.19	-	61,61,61,61	0
59	MG	AA	4124	1/1	0.83	0.18	-	107,107,107,107	0
59	MG	CA	1775	1/1	0.97	0.32	-	51,51,51,51	0
59	MG	DA	3666	1/1	0.96	0.11	-	53,53,53,53	0
59	MG	DA	3086	1/1	0.99	0.19	-	17,17,17,17	0
59	MG	DA	4019	1/1	0.90	0.14	-	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4631	1/1	0.97	0.17	-	67,67,67,67	0
59	MG	DA	4547	1/1	0.90	0.23	-	46,46,46,46	0
59	MG	DX	101	1/1	0.94	0.15	-	59,59,59,59	0
59	MG	BA	1621	1/1	0.80	0.60	-	120,120,120,120	0
59	MG	AA	3986	1/1	0.80	0.13	-	88,88,88,88	0
59	MG	DA	4573	1/1	0.69	0.33	-	102,102,102,102	0
59	MG	AA	3136	1/1	0.97	0.24	-	38,38,38,38	0
59	MG	AA	3425	1/1	0.89	0.15	-	44,44,44,44	0
59	MG	AA	3211	1/1	0.90	0.32	-	56,56,56,56	0
59	MG	AA	3287	1/1	0.77	0.14	-	66,66,66,66	0
59	MG	CA	1798	1/1	0.91	0.19	-	139,139,139,139	0
59	MG	DA	4753	1/1	0.69	0.31	-	68,68,68,68	0
59	MG	BA	1903	1/1	0.85	0.04	-	71,71,71,71	0
59	MG	DA	4248	1/1	0.89	0.50	-	89,89,89,89	0
59	MG	DA	3539	1/1	0.91	0.24	-	93,93,93,93	0
59	MG	DA	3686	1/1	0.92	0.19	-	70,70,70,70	0
59	MG	BA	2235	1/1	0.91	0.09	-	69,69,69,69	0
59	MG	CA	2126	1/1	0.68	0.12	-	59,59,59,59	0
59	MG	AA	3975	1/1	0.66	0.21	-	76,76,76,76	0
59	MG	AA	3729	1/1	0.85	0.33	-	69,69,69,69	0
59	MG	CA	1683	1/1	0.86	0.20	-	47,47,47,47	0
59	MG	DA	4421	1/1	0.78	0.25	-	64,64,64,64	0
59	MG	DA	3602	1/1	0.98	0.36	-	61,61,61,61	0
59	MG	BA	2240	1/1	0.94	0.07	-	86,86,86,86	0
59	MG	CA	1836	1/1	0.92	0.52	-	131,131,131,131	0
59	MG	CA	2070	1/1	0.90	0.10	-	68,68,68,68	0
59	MG	AA	3395	1/1	0.95	0.29	-	88,88,88,88	0
59	MG	AA	3334	1/1	0.86	0.17	-	46,46,46,46	0
59	MG	CC	114	1/1	0.89	0.12	-	73,73,73,73	0
59	MG	BA	1833	1/1	0.92	0.22	-	71,71,71,71	0
59	MG	BK	206	1/1	0.91	0.21	-	108,108,108,108	0
59	MG	A5	101	1/1	0.96	0.13	-	23,23,23,23	0
59	MG	DA	4971	1/1	0.71	0.27	-	79,79,79,79	0
59	MG	AA	3392	1/1	0.93	0.14	-	63,63,63,63	0
59	MG	CB	103	1/1	0.79	0.15	-	53,53,53,53	0
59	MG	DA	4633	1/1	0.94	0.25	-	66,66,66,66	0
59	MG	DA	5039	1/1	0.91	0.28	-	75,75,75,75	0
59	MG	CA	2047	1/1	0.78	0.12	-	80,80,80,80	0
59	MG	BA	2029	1/1	0.65	0.16	-	76,76,76,76	0
59	MG	DA	4690	1/1	0.77	0.27	-	86,86,86,86	0
59	MG	AA	3494	1/1	0.95	0.10	-	69,69,69,69	0
59	MG	DA	3895	1/1	0.98	0.24	-	14,14,14,14	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3661	1/1	0.88	0.26	-	70,70,70,70	0
59	MG	DA	4704	1/1	0.95	0.25	-	62,62,62,62	0
59	MG	BA	1928	1/1	0.79	0.14	-	67,67,67,67	0
59	MG	AA	3058	1/1	0.97	0.12	-	25,25,25,25	0
59	MG	BA	2154	1/1	0.81	0.17	-	73,73,73,73	0
59	MG	DA	3185	1/1	0.98	0.25	-	54,54,54,54	0
59	MG	AA	3778	1/1	0.97	0.10	-	53,53,53,53	0
59	MG	BA	1858	1/1	0.53	0.34	-	141,141,141,141	0
59	MG	CA	1982	1/1	0.88	0.19	-	59,59,59,59	0
59	MG	DA	4876	1/1	0.89	0.30	-	61,61,61,61	0
59	MG	DT	107	1/1	0.93	0.21	-	73,73,73,73	0
59	MG	CA	1791	1/1	0.84	0.15	-	87,87,87,87	0
59	MG	CA	2311	1/1	0.81	0.30	-	81,81,81,81	0
59	MG	DA	4487	1/1	0.99	0.20	-	94,94,94,94	0
59	MG	DA	3108	1/1	0.76	0.27	-	76,76,76,76	0
59	MG	CA	1817	1/1	0.87	0.14	-	85,85,85,85	0
59	MG	AA	4152	1/1	0.91	0.20	-	77,77,77,77	0
59	MG	AA	3581	1/1	0.96	0.23	-	55,55,55,55	0
59	MG	BA	1744	1/1	0.86	0.20	-	54,54,54,54	0
59	MG	DA	4534	1/1	0.69	0.21	-	118,118,118,118	0
59	MG	DA	4557	1/1	0.92	0.09	-	56,56,56,56	0
59	MG	BA	1736	1/1	0.93	0.14	-	53,53,53,53	0
59	MG	BA	2250	1/1	0.68	0.21	-	90,90,90,90	0
59	MG	BB	111	1/1	0.60	0.09	-	90,90,90,90	0
59	MG	CA	2290	1/1	0.61	0.26	-	103,103,103,103	0
59	MG	CA	1845	1/1	0.87	0.08	-	108,108,108,108	0
59	MG	CA	1953	1/1	0.88	0.07	-	80,80,80,80	0
59	MG	BA	1925	1/1	0.92	0.13	-	55,55,55,55	0
59	MG	DA	3135	1/1	0.91	0.14	-	35,35,35,35	0
59	MG	DA	3269	1/1	0.94	0.09	-	36,36,36,36	0
59	MG	DD	312	1/1	0.95	0.16	-	37,37,37,37	0
59	MG	DA	4697	1/1	0.96	0.41	-	76,76,76,76	0
59	MG	DA	3521	1/1	0.91	0.31	-	61,61,61,61	0
59	MG	BB	108	1/1	0.76	0.25	-	94,94,94,94	0
59	MG	BA	1944	1/1	0.95	0.37	-	71,71,71,71	0
59	MG	AA	4162	1/1	0.91	0.29	-	94,94,94,94	0
59	MG	CA	1805	1/1	0.92	0.06	-	52,52,52,52	0
59	MG	DA	4686	1/1	0.96	0.38	-	59,59,59,59	0
59	MG	AA	3546	1/1	0.89	0.31	-	52,52,52,52	0
59	MG	AA	3024	1/1	0.96	0.10	-	61,61,61,61	0
59	MG	DA	3681	1/1	0.94	0.08	-	73,73,73,73	0
59	MG	CA	1890	1/1	0.73	0.09	-	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	5030	1/1	0.90	0.44	-	93,93,93,93	0
59	MG	AA	3530	1/1	0.88	0.15	-	50,50,50,50	0
59	MG	AD	312	1/1	0.84	0.22	-	79,79,79,79	0
59	MG	BA	1638	1/1	0.82	0.20	-	51,51,51,51	0
59	MG	DA	3623	1/1	0.87	0.33	-	89,89,89,89	0
59	MG	CA	1999	1/1	0.93	0.14	-	63,63,63,63	0
59	MG	DA	3676	1/1	0.77	0.51	-	70,70,70,70	0
59	MG	CA	1754	1/1	0.69	0.35	-	80,80,80,80	0
59	MG	DA	4972	1/1	0.96	0.20	-	80,80,80,80	0
59	MG	DA	4795	1/1	0.68	0.25	-	66,66,66,66	0
59	MG	BA	2269	1/1	0.79	0.19	-	80,80,80,80	0
59	MG	DA	4576	1/1	0.84	0.39	-	87,87,87,87	0
59	MG	CA	1689	1/1	0.95	0.14	-	58,58,58,58	0
59	MG	BD	119	1/1	0.93	0.40	-	84,84,84,84	0
59	MG	CA	2191	1/1	0.78	0.15	-	99,99,99,99	0
59	MG	AA	3616	1/1	0.98	0.08	-	42,42,42,42	0
59	MG	BD	124	1/1	0.78	0.11	-	104,104,104,104	0
59	MG	DA	3945	1/1	0.88	0.08	-	58,58,58,58	0
59	MG	BA	2231	1/1	0.93	0.30	-	89,89,89,89	0
59	MG	BW	204	1/1	0.89	0.19	-	90,90,90,90	0
59	MG	AA	3967	1/1	0.93	0.17	-	63,63,63,63	0
59	MG	DA	3128	1/1	0.93	0.17	-	31,31,31,31	0
59	MG	DA	3348	1/1	0.83	0.17	-	54,54,54,54	0
59	MG	AA	3712	1/1	0.84	0.31	-	57,57,57,57	0
59	MG	AA	3727	1/1	0.94	0.22	-	54,54,54,54	0
59	MG	AA	4087	1/1	0.74	0.22	-	89,89,89,89	0
59	MG	DA	4806	1/1	0.79	0.19	-	59,59,59,59	0
59	MG	DA	3610	1/1	0.84	0.12	-	45,45,45,45	0
59	MG	DA	3953	1/1	0.94	0.16	-	84,84,84,84	0
59	MG	AA	3390	1/1	0.97	0.23	-	46,46,46,46	0
59	MG	BA	1845	1/1	0.94	0.11	-	92,92,92,92	0
59	MG	AA	3102	1/1	0.84	0.15	-	65,65,65,65	0
59	MG	AA	3182	1/1	0.85	0.18	-	60,60,60,60	0
59	MG	DA	4825	1/1	0.87	0.21	-	63,63,63,63	0
59	MG	CA	1763	1/1	0.82	0.17	-	39,39,39,39	0
59	MG	DA	4928	1/1	0.69	0.17	-	78,78,78,78	0
59	MG	AA	4080	1/1	0.87	0.47	-	71,71,71,71	0
59	MG	AA	3051	1/1	0.92	0.23	-	62,62,62,62	0
59	MG	CA	2125	1/1	0.99	0.28	-	79,79,79,79	0
59	MG	DA	4898	1/1	0.89	0.25	-	58,58,58,58	0
59	MG	D5	108	1/1	0.91	0.34	-	63,63,63,63	0
59	MG	AA	3666	1/1	0.94	0.20	-	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3934	1/1	0.95	0.08	-	45,45,45,45	0
59	MG	AA	3325	1/1	0.69	0.22	-	50,50,50,50	0
59	MG	AA	3274	1/1	0.76	0.32	-	70,70,70,70	0
59	MG	DB	211	1/1	0.74	0.40	-	90,90,90,90	0
59	MG	DA	3434	1/1	0.91	0.23	-	41,41,41,41	0
59	MG	DA	4911	1/1	0.67	0.24	-	85,85,85,85	0
59	MG	BA	2147	1/1	0.95	0.06	-	107,107,107,107	0
59	MG	DA	4658	1/1	0.82	0.26	-	76,76,76,76	0
59	MG	AA	3036	1/1	0.87	0.07	-	36,36,36,36	0
59	MG	CG	310	1/1	0.76	0.13	-	96,96,96,96	0
59	MG	CA	2281	1/1	0.92	0.12	-	100,100,100,100	0
59	MG	BP	202	1/1	0.96	0.19	-	50,50,50,50	0
59	MG	CB	117	1/1	0.88	0.17	-	68,68,68,68	0
59	MG	CE	301	1/1	0.89	0.25	-	61,61,61,61	0
59	MG	AA	3040	1/1	0.95	0.21	-	37,37,37,37	0
59	MG	DA	4032	1/1	0.95	0.21	-	86,86,86,86	0
59	MG	BA	2079	1/1	0.92	0.17	-	99,99,99,99	0
59	MG	DA	4117	1/1	0.90	0.29	-	58,58,58,58	0
59	MG	DA	4954	1/1	0.86	0.11	-	73,73,73,73	0
59	MG	CA	1739	1/1	0.95	0.10	-	43,43,43,43	0
59	MG	DA	4090	1/1	0.98	0.06	-	52,52,52,52	0
59	MG	DA	4122	1/1	0.81	0.54	-	105,105,105,105	0
59	MG	CK	206	1/1	0.93	0.21	-	62,62,62,62	0
59	MG	DA	4955	1/1	0.86	0.31	-	82,82,82,82	0
59	MG	CA	2108	1/1	0.80	0.14	-	78,78,78,78	0
59	MG	BA	2025	1/1	0.99	0.17	-	90,90,90,90	0
59	MG	AA	3183	1/1	0.91	0.21	-	29,29,29,29	0
59	MG	CA	2184	1/1	0.76	0.37	-	83,83,83,83	0
59	MG	DA	3260	1/1	0.82	0.27	-	60,60,60,60	0
59	MG	AA	3699	1/1	0.96	0.32	-	59,59,59,59	0
59	MG	BA	1745	1/1	0.90	0.25	-	38,38,38,38	0
59	MG	AA	4028	1/1	0.91	0.23	-	81,81,81,81	0
59	MG	AA	3552	1/1	0.68	0.25	-	90,90,90,90	0
59	MG	AA	3409	1/1	0.90	0.21	-	56,56,56,56	0
59	MG	DZ	104	1/1	0.83	0.50	-	59,59,59,59	0
59	MG	DA	3114	1/1	0.96	0.33	-	47,47,47,47	0
59	MG	CA	1835	1/1	0.79	0.27	-	114,114,114,114	0
59	MG	DA	3761	1/1	0.84	0.15	-	90,90,90,90	0
59	MG	CA	1941	1/1	0.86	0.41	-	91,91,91,91	0
59	MG	DA	3519	1/1	0.91	0.16	-	36,36,36,36	0
59	MG	DA	3320	1/1	0.84	0.13	-	14,14,14,14	0
59	MG	AA	3574	1/1	0.90	0.20	-	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DB	201	1/1	0.98	0.35	-	25,25,25,25	0
59	MG	CA	2312	1/1	0.74	0.25	-	78,78,78,78	0
59	MG	AA	3267	1/1	0.99	0.09	-	49,49,49,49	0
59	MG	AA	3474	1/1	0.81	0.16	-	65,65,65,65	0
59	MG	DA	3183	1/1	0.72	0.51	-	97,97,97,97	0
59	MG	AA	4121	1/1	0.79	0.14	-	66,66,66,66	0
59	MG	DA	4635	1/1	0.91	0.22	-	71,71,71,71	0
59	MG	DA	4804	1/1	0.89	0.31	-	69,69,69,69	0
59	MG	CA	2074	1/1	0.91	0.07	-	61,61,61,61	0
59	MG	CB	113	1/1	0.82	0.18	-	72,72,72,72	0
59	MG	AA	3836	1/1	0.89	0.29	-	62,62,62,62	0
59	MG	DA	4412	1/1	0.93	0.13	-	82,82,82,82	0
59	MG	CA	1753	1/1	0.92	0.40	-	56,56,56,56	0
59	MG	A7	101	1/1	0.87	0.72	-	77,77,77,77	0
59	MG	BA	1818	1/1	0.95	0.32	-	57,57,57,57	0
59	MG	AA	3110	1/1	0.86	0.20	-	59,59,59,59	0
59	MG	DA	4300	1/1	0.91	0.15	-	45,45,45,45	0
59	MG	BA	1878	1/1	0.91	0.13	-	75,75,75,75	0
59	MG	DA	3116	1/1	0.95	0.22	-	63,63,63,63	0
59	MG	CA	2034	1/1	0.88	0.24	-	61,61,61,61	0
59	MG	DA	4649	1/1	0.88	0.20	-	41,41,41,41	0
59	MG	AA	3701	1/1	0.82	0.13	-	55,55,55,55	0
59	MG	AA	4049	1/1	0.76	0.28	-	115,115,115,115	0
59	MG	BA	1662	1/1	0.42	0.18	-	91,91,91,91	0
59	MG	DA	4880	1/1	0.90	0.20	-	110,110,110,110	0
59	MG	DA	4262	1/1	0.89	0.24	-	47,47,47,47	0
59	MG	CA	2188	1/1	0.88	0.08	-	79,79,79,79	0
59	MG	DA	3384	1/1	0.88	0.32	-	56,56,56,56	0
59	MG	BC	101	1/1	0.88	0.13	-	53,53,53,53	0
59	MG	DA	3262	1/1	0.72	0.47	-	72,72,72,72	0
59	MG	AA	4078	1/1	0.90	0.11	-	82,82,82,82	0
59	MG	AO	207	1/1	0.93	0.33	-	102,102,102,102	0
59	MG	DA	3160	1/1	0.78	0.31	-	48,48,48,48	0
59	MG	DA	4385	1/1	0.87	0.15	-	55,55,55,55	0
59	MG	DA	3459	1/1	0.94	0.08	-	63,63,63,63	0
59	MG	DA	4577	1/1	0.82	0.32	-	57,57,57,57	0
59	MG	AA	3174	1/1	0.64	0.26	-	63,63,63,63	0
59	MG	DA	3652	1/1	0.84	0.16	-	93,93,93,93	0
59	MG	DA	4541	1/1	0.91	0.30	-	58,58,58,58	0
59	MG	DA	3435	1/1	0.85	0.21	-	49,49,49,49	0
59	MG	D7	103	1/1	0.97	0.28	-	45,45,45,45	0
59	MG	AA	3718	1/1	0.75	0.32	-	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CD	111	1/1	0.81	0.40	-	69,69,69,69	0
59	MG	DA	4962	1/1	0.91	0.25	-	77,77,77,77	0
59	MG	AA	3788	1/1	0.90	0.21	-	87,87,87,87	0
59	MG	CA	2123	1/1	0.72	0.30	-	100,100,100,100	0
59	MG	CA	1954	1/1	0.80	0.48	-	90,90,90,90	0
59	MG	AA	3410	1/1	0.93	0.29	-	84,84,84,84	0
59	MG	CP	203	1/1	0.94	0.23	-	77,77,77,77	0
59	MG	BA	1799	1/1	0.91	0.12	-	55,55,55,55	0
59	MG	DA	4926	1/1	0.92	0.10	-	46,46,46,46	0
59	MG	AA	3965	1/1	0.87	0.09	-	111,111,111,111	0
59	MG	DP	203	1/1	0.90	0.39	-	92,92,92,92	0
59	MG	DA	3331	1/1	0.94	0.26	-	68,68,68,68	0
59	MG	AA	3813	1/1	0.86	0.13	-	99,99,99,99	0
59	MG	BA	1827	1/1	0.84	0.17	-	101,101,101,101	0
59	MG	DA	4636	1/1	0.89	0.19	-	64,64,64,64	0
59	MG	AA	3814	1/1	0.96	0.19	-	67,67,67,67	0
59	MG	DA	4424	1/1	0.91	0.13	-	46,46,46,46	0
59	MG	DA	3946	1/1	0.95	0.13	-	82,82,82,82	0
59	MG	AA	3125	1/1	0.92	0.22	-	51,51,51,51	0
59	MG	DA	3029	1/1	0.96	0.22	-	7,7,7,7	0
59	MG	BA	2209	1/1	0.80	0.11	-	56,56,56,56	0
59	MG	BA	1894	1/1	0.85	0.47	-	83,83,83,83	0
59	MG	DA	3179	1/1	0.95	0.26	-	52,52,52,52	0
59	MG	AA	3195	1/1	0.89	0.25	-	82,82,82,82	0
59	MG	AA	3719	1/1	0.68	0.49	-	97,97,97,97	0
59	MG	AA	3165	1/1	0.80	0.22	-	53,53,53,53	0
59	MG	AA	3220	1/1	0.89	0.17	-	70,70,70,70	0
59	MG	AA	3064	1/1	0.85	0.27	-	90,90,90,90	0
59	MG	CA	1635	1/1	0.91	0.30	-	21,21,21,21	0
59	MG	BA	2030	1/1	0.83	0.33	-	71,71,71,71	0
59	MG	AA	3439	1/1	0.88	0.14	-	71,71,71,71	0
59	MG	CA	2083	1/1	0.96	0.17	-	87,87,87,87	0
59	MG	DA	4905	1/1	0.56	0.27	-	90,90,90,90	0
59	MG	DA	3377	1/1	0.74	0.33	-	83,83,83,83	0
59	MG	CA	2044	1/1	0.95	0.11	-	65,65,65,65	0
59	MG	DA	3413	1/1	0.96	0.32	-	45,45,45,45	0
59	MG	BA	1913	1/1	0.69	0.16	-	73,73,73,73	0
59	MG	AA	3985	1/1	0.79	0.23	-	97,97,97,97	0
59	MG	AA	3980	1/1	0.97	0.38	-	65,65,65,65	0
59	MG	DA	4143	1/1	0.86	0.27	-	63,63,63,63	0
59	MG	AA	3992	1/1	0.95	0.14	-	75,75,75,75	0
59	MG	DA	4719	1/1	0.88	0.23	-	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CE	306	1/1	0.88	0.22	-	96,96,96,96	0
59	MG	CA	1721	1/1	0.95	0.14	-	39,39,39,39	0
59	MG	BA	2032	1/1	0.84	0.23	-	70,70,70,70	0
59	MG	CV	104	1/1	0.94	0.17	-	86,86,86,86	0
59	MG	DB	214	1/1	0.70	0.26	-	76,76,76,76	0
59	MG	DA	4543	1/1	0.85	0.13	-	60,60,60,60	0
59	MG	CA	1876	1/1	0.98	0.12	-	79,79,79,79	0
59	MG	BA	2178	1/1	0.87	0.28	-	141,141,141,141	0
59	MG	BA	1739	1/1	0.97	0.34	-	67,67,67,67	0
59	MG	CA	1996	1/1	0.86	0.25	-	94,94,94,94	0
59	MG	DB	238	1/1	0.88	0.44	-	100,100,100,100	0
59	MG	DA	4967	1/1	0.90	0.17	-	74,74,74,74	0
59	MG	AA	3129	1/1	0.99	0.14	-	31,31,31,31	0
59	MG	CA	1843	1/1	0.68	0.13	-	99,99,99,99	0
59	MG	DA	3788	1/1	0.97	0.10	-	50,50,50,50	0
59	MG	AA	3179	1/1	0.91	0.15	-	38,38,38,38	0
59	MG	CA	2143	1/1	0.94	0.20	-	57,57,57,57	0
59	MG	CH	205	1/1	0.93	0.18	-	87,87,87,87	0
59	MG	BA	2128	1/1	0.10	0.15	-	108,108,108,108	0
59	MG	DA	5068	1/1	0.95	0.16	-	64,64,64,64	0
59	MG	DA	4657	1/1	0.64	0.24	-	58,58,58,58	0
59	MG	AA	3898	1/1	0.61	0.45	-	112,112,112,112	0
59	MG	BA	1997	1/1	0.94	0.40	-	87,87,87,87	0
59	MG	DA	4009	1/1	0.83	0.17	-	98,98,98,98	0
59	MG	AA	3610	1/1	0.96	0.05	-	69,69,69,69	0
59	MG	BA	1816	1/1	0.72	0.20	-	71,71,71,71	0
59	MG	DB	271	1/1	0.82	0.68	-	72,72,72,72	0
59	MG	DA	3873	1/1	0.78	0.46	-	119,119,119,119	0
59	MG	DG	204	1/1	0.90	0.50	-	104,104,104,104	0
59	MG	AA	3034	1/1	0.98	0.12	-	41,41,41,41	0
59	MG	AA	3388	1/1	0.96	0.20	-	46,46,46,46	0
59	MG	DA	4754	1/1	0.89	0.29	-	71,71,71,71	0
59	MG	DA	4521	1/1	0.89	0.16	-	47,47,47,47	0
59	MG	CA	2298	1/1	0.89	0.09	-	68,68,68,68	0
59	MG	BA	2273	1/1	0.98	0.16	-	94,94,94,94	0
59	MG	BA	1630	1/1	0.94	0.21	-	78,78,78,78	0
59	MG	DA	4721	1/1	0.96	0.11	-	75,75,75,75	0
59	MG	DA	3219	1/1	0.77	0.22	-	48,48,48,48	0
59	MG	DA	3805	1/1	0.88	0.30	-	66,66,66,66	0
59	MG	DA	4810	1/1	0.68	0.26	-	62,62,62,62	0
59	MG	CA	1997	1/1	0.78	0.46	-	96,96,96,96	0
59	MG	DA	3889	1/1	0.77	0.14	-	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	2142	1/1	0.83	0.15	-	84,84,84,84	0
59	MG	DA	4265	1/1	0.79	0.31	-	95,95,95,95	0
59	MG	DA	4694	1/1	0.92	0.15	-	56,56,56,56	0
59	MG	DA	4413	1/1	0.74	0.23	-	65,65,65,65	0
59	MG	AA	3866	1/1	0.91	0.33	-	96,96,96,96	0
59	MG	DA	4452	1/1	0.86	0.21	-	50,50,50,50	0
59	MG	AA	3761	1/1	0.94	0.13	-	40,40,40,40	0
59	MG	BA	1868	1/1	0.94	0.07	-	65,65,65,65	0
59	MG	DA	3884	1/1	0.94	0.26	-	60,60,60,60	0
59	MG	CA	2008	1/1	0.92	0.13	-	56,56,56,56	0
59	MG	BA	1914	1/1	0.96	0.10	-	55,55,55,55	0
59	MG	DA	4360	1/1	0.82	0.12	-	57,57,57,57	0
59	MG	DA	3354	1/1	0.98	0.16	-	66,66,66,66	0
59	MG	DA	4267	1/1	0.92	0.47	-	72,72,72,72	0
59	MG	BA	1688	1/1	0.83	0.32	-	61,61,61,61	0
59	MG	AA	4035	1/1	0.84	0.19	-	75,75,75,75	0
59	MG	BA	2184	1/1	0.68	0.17	-	101,101,101,101	0
59	MG	AA	3083	1/1	0.88	0.15	-	33,33,33,33	0
59	MG	DA	5033	1/1	0.79	0.11	-	75,75,75,75	0
59	MG	DA	3502	1/1	0.96	0.57	-	74,74,74,74	0
59	MG	DB	268	1/1	0.85	0.25	-	81,81,81,81	0
59	MG	DA	4298	1/1	0.97	0.36	-	62,62,62,62	0
59	MG	CH	203	1/1	0.89	0.29	-	70,70,70,70	0
59	MG	AA	3068	1/1	0.89	0.10	-	40,40,40,40	0
59	MG	DB	229	1/1	0.88	0.17	-	83,83,83,83	0
59	MG	BS	104	1/1	0.88	0.16	-	76,76,76,76	0
59	MG	AS	202	1/1	0.91	0.11	-	63,63,63,63	0
59	MG	CA	1697	1/1	0.96	0.25	-	44,44,44,44	0
59	MG	BA	2193	1/1	0.92	0.41	-	76,76,76,76	0
59	MG	AA	3457	1/1	0.94	0.11	-	57,57,57,57	0
59	MG	DA	4398	1/1	0.84	0.23	-	46,46,46,46	0
59	MG	AA	3887	1/1	0.93	0.17	-	70,70,70,70	0
59	MG	DA	3052	1/1	0.98	0.14	-	19,19,19,19	0
59	MG	D2	207	1/1	0.92	0.11	-	68,68,68,68	0
59	MG	AA	4098	1/1	0.91	0.48	-	83,83,83,83	0
59	MG	DA	4296	1/1	0.83	0.62	-	105,105,105,105	0
59	MG	DB	239	1/1	0.94	0.43	-	81,81,81,81	0
59	MG	DA	3176	1/1	0.93	0.23	-	39,39,39,39	0
59	MG	AA	3343	1/1	0.95	0.28	-	48,48,48,48	0
59	MG	CA	1867	1/1	0.97	0.10	-	99,99,99,99	0
59	MG	DB	212	1/1	0.84	0.27	-	71,71,71,71	0
59	MG	DA	4770	1/1	0.84	0.29	-	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	2064	1/1	0.71	0.10	-	90,90,90,90	0
59	MG	DA	3236	1/1	0.97	0.20	-	20,20,20,20	0
59	MG	CA	1952	1/1	0.94	0.14	-	94,94,94,94	0
59	MG	CA	2056	1/1	0.87	0.64	-	120,120,120,120	0
59	MG	DA	4384	1/1	0.97	0.28	-	64,64,64,64	0
59	MG	DA	4215	1/1	0.81	0.23	-	53,53,53,53	0
59	MG	CA	1921	1/1	0.60	0.24	-	52,52,52,52	0
59	MG	CA	1656	1/1	0.96	0.39	-	43,43,43,43	0
59	MG	DA	4077	1/1	0.89	0.20	-	51,51,51,51	0
59	MG	DA	4453	1/1	0.95	0.24	-	49,49,49,49	0
59	MG	CA	1685	1/1	0.28	0.28	-	80,80,80,80	0
59	MG	DA	3668	1/1	0.86	0.13	-	80,80,80,80	0
59	MG	CA	2283	1/1	0.93	0.11	-	68,68,68,68	0
59	MG	AA	4054	1/1	0.71	0.13	-	74,74,74,74	0
59	MG	CA	1699	1/1	0.77	0.12	-	40,40,40,40	0
59	MG	DA	3558	1/1	0.92	0.34	-	64,64,64,64	0
59	MG	CA	2078	1/1	0.93	0.20	-	75,75,75,75	0
59	MG	BA	1773	1/1	0.88	0.19	-	80,80,80,80	0
59	MG	DB	226	1/1	0.71	0.20	-	40,40,40,40	0
59	MG	AA	4005	1/1	0.83	0.12	-	63,63,63,63	0
59	MG	DA	4432	1/1	0.93	0.16	-	58,58,58,58	0
59	MG	CA	1802	1/1	0.86	0.13	-	76,76,76,76	0
59	MG	DA	3136	1/1	0.88	0.27	-	63,63,63,63	0
59	MG	BD	123	1/1	0.77	0.20	-	82,82,82,82	0
59	MG	CD	125	1/1	0.59	0.31	-	88,88,88,88	0
59	MG	AA	4129	1/1	0.97	0.10	-	86,86,86,86	0
59	MG	BA	2163	1/1	0.77	0.14	-	105,105,105,105	0
59	MG	CA	2165	1/1	0.81	0.15	-	101,101,101,101	0
59	MG	DA	3951	1/1	0.93	0.25	-	136,136,136,136	0
59	MG	DA	3455	1/1	0.90	0.32	-	58,58,58,58	0
59	MG	DA	4320	1/1	0.93	0.17	-	50,50,50,50	0
59	MG	DA	4049	1/1	0.99	0.20	-	33,33,33,33	0
59	MG	DA	4095	1/1	0.88	0.26	-	115,115,115,115	0
59	MG	DA	5005	1/1	0.70	0.32	-	75,75,75,75	0
59	MG	AB	215	1/1	0.87	0.14	-	70,70,70,70	0
59	MG	BA	2049	1/1	0.91	0.24	-	55,55,55,55	0
59	MG	BA	1908	1/1	0.95	0.30	-	79,79,79,79	0
59	MG	BA	2182	1/1	0.74	0.17	-	110,110,110,110	0
59	MG	DA	4387	1/1	0.88	0.33	-	57,57,57,57	0
59	MG	D1	207	1/1	0.93	0.25	-	64,64,64,64	0
59	MG	D6	102	1/1	0.88	0.15	-	45,45,45,45	0
59	MG	BA	2247	1/1	0.60	0.23	-	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BB	109	1/1	0.77	0.18	-	119,119,119,119	0
59	MG	BA	1670	1/1	0.94	0.11	-	50,50,50,50	0
59	MG	AA	4149	1/1	0.79	0.23	-	125,125,125,125	0
59	MG	DA	4921	1/1	0.93	0.27	-	67,67,67,67	0
59	MG	DA	4203	1/1	0.98	0.14	-	50,50,50,50	0
59	MG	BA	2110	1/1	0.74	0.31	-	91,91,91,91	0
59	MG	AA	3536	1/1	0.88	0.24	-	46,46,46,46	0
59	MG	DA	5037	1/1	0.80	0.15	-	84,84,84,84	0
59	MG	AA	3538	1/1	0.90	0.15	-	45,45,45,45	0
59	MG	BA	1664	1/1	0.93	0.32	-	58,58,58,58	0
59	MG	AA	3049	1/1	0.79	0.21	-	48,48,48,48	0
59	MG	AA	3649	1/1	0.76	0.20	-	96,96,96,96	0
59	MG	CA	1651	1/1	0.92	0.18	-	33,33,33,33	0
59	MG	AA	3243	1/1	0.82	0.27	-	99,99,99,99	0
59	MG	AA	3815	1/1	0.96	0.11	-	61,61,61,61	0
59	MG	AA	3090	1/1	0.97	0.17	-	42,42,42,42	0
59	MG	CA	1934	1/1	0.36	0.15	-	110,110,110,110	0
59	MG	AA	3258	1/1	0.93	0.44	-	81,81,81,81	0
59	MG	BA	1732	1/1	0.96	0.44	-	62,62,62,62	0
59	MG	AA	3483	1/1	0.99	0.42	-	65,65,65,65	0
59	MG	DA	3386	1/1	0.95	0.40	-	69,69,69,69	0
59	MG	AA	3597	1/1	0.91	0.24	-	63,63,63,63	0
59	MG	BA	1730	1/1	0.94	0.12	-	37,37,37,37	0
59	MG	DA	3445	1/1	0.96	0.33	-	59,59,59,59	0
59	MG	BA	2205	1/1	0.72	0.17	-	109,109,109,109	0
59	MG	DA	3181	1/1	0.89	0.25	-	40,40,40,40	0
59	MG	BA	1879	1/1	0.95	0.42	-	46,46,46,46	0
59	MG	DA	4411	1/1	0.96	0.15	-	42,42,42,42	0
59	MG	AA	3631	1/1	0.80	0.13	-	58,58,58,58	0
59	MG	DA	3537	1/1	0.97	0.11	-	43,43,43,43	0
59	MG	DA	4524	1/1	0.86	0.41	-	50,50,50,50	0
59	MG	AA	3981	1/1	0.78	0.27	-	131,131,131,131	0
59	MG	CA	1729	1/1	0.87	0.27	-	46,46,46,46	0
59	MG	DA	3030	1/1	0.99	0.20	-	3,3,3,3	0
59	MG	AA	4037	1/1	0.91	0.11	-	43,43,43,43	0
59	MG	DA	4968	1/1	0.97	0.21	-	65,65,65,65	0
59	MG	DA	4440	1/1	0.82	0.35	-	54,54,54,54	0
59	MG	AA	3972	1/1	0.93	0.65	-	60,60,60,60	0
59	MG	DA	3604	1/1	0.89	0.13	-	57,57,57,57	0
59	MG	DA	4935	1/1	0.88	0.70	-	105,105,105,105	0
59	MG	DA	3858	1/1	0.92	0.13	-	49,49,49,49	0
59	MG	DA	4415	1/1	0.94	0.14	-	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	1836	1/1	0.98	0.07	-	57,57,57,57	0
59	MG	BC	105	1/1	0.95	0.07	-	75,75,75,75	0
59	MG	A3	101	1/1	0.97	0.28	-	40,40,40,40	0
59	MG	AB	224	1/1	0.80	0.15	-	85,85,85,85	0
59	MG	DA	3079	1/1	0.97	0.26	-	37,37,37,37	0
59	MG	DA	4372	1/1	0.98	0.15	-	53,53,53,53	0
59	MG	CS	101	1/1	0.94	0.09	-	61,61,61,61	0
59	MG	DA	4193	1/1	0.91	0.59	-	78,78,78,78	0
59	MG	DA	3578	1/1	0.95	0.09	-	62,62,62,62	0
59	MG	BA	2006	1/1	0.91	0.22	-	71,71,71,71	0
59	MG	CA	2212	1/1	0.97	0.15	-	69,69,69,69	0
59	MG	DA	4043	1/1	0.97	0.19	-	82,82,82,82	0
59	MG	DF	315	1/1	0.91	0.24	-	76,76,76,76	0
59	MG	BA	1711	1/1	0.94	0.22	-	68,68,68,68	0
59	MG	AA	3323	1/1	0.97	0.10	-	48,48,48,48	0
59	MG	AA	3344	1/1	0.79	0.16	-	76,76,76,76	0
59	MG	CA	2053	1/1	0.90	0.14	-	74,74,74,74	0
59	MG	DA	4975	1/1	0.90	0.19	-	78,78,78,78	0
59	MG	DA	3974	1/1	0.85	0.42	-	61,61,61,61	0
59	MG	DA	3573	1/1	0.45	0.16	-	84,84,84,84	0
59	MG	DA	3397	1/1	0.88	0.21	-	65,65,65,65	0
59	MG	DA	3063	1/1	0.98	0.38	-	23,23,23,23	0
59	MG	D0	209	1/1	0.68	0.27	-	91,91,91,91	0
59	MG	AA	3401	1/1	0.97	0.36	-	46,46,46,46	0
59	MG	DA	3637	1/1	0.92	0.28	-	63,63,63,63	0
59	MG	DA	3287	1/1	0.94	0.23	-	78,78,78,78	0
59	MG	DA	4672	1/1	0.61	0.36	-	95,95,95,95	0
59	MG	CA	2271	1/1	0.96	0.12	-	55,55,55,55	0
59	MG	DA	3825	1/1	0.86	0.16	-	77,77,77,77	0
59	MG	CA	2035	1/1	0.80	0.10	-	68,68,68,68	0
59	MG	DA	4333	1/1	0.98	0.12	-	52,52,52,52	0
59	MG	DA	3710	1/1	0.95	0.28	-	14,14,14,14	0
59	MG	AA	3065	1/1	0.84	0.17	-	60,60,60,60	0
59	MG	DA	4785	1/1	0.94	0.13	-	75,75,75,75	0
59	MG	DA	4263	1/1	0.81	0.18	-	66,66,66,66	0
59	MG	AA	3602	1/1	0.94	0.08	-	102,102,102,102	0
59	MG	AA	4040	1/1	0.76	0.23	-	67,67,67,67	0
59	MG	AA	3324	1/1	0.66	0.17	-	43,43,43,43	0
59	MG	DA	4525	1/1	0.90	0.21	-	108,108,108,108	0
59	MG	DA	4001	1/1	0.93	0.22	-	121,121,121,121	0
59	MG	DA	4274	1/1	0.93	0.17	-	41,41,41,41	0
59	MG	DA	3988	1/1	0.95	0.37	-	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3797	1/1	0.85	0.20	-	95,95,95,95	0
59	MG	CA	2303	1/1	0.69	0.26	-	102,102,102,102	0
59	MG	DA	3242	1/1	0.99	0.24	-	18,18,18,18	0
59	MG	AA	3296	1/1	0.81	0.23	-	55,55,55,55	0
59	MG	CM	203	1/1	0.81	0.67	-	89,89,89,89	0
59	MG	CD	122	1/1	0.88	0.38	-	84,84,84,84	0
59	MG	CA	2159	1/1	0.92	0.12	-	46,46,46,46	0
59	MG	CA	1759	1/1	0.81	0.27	-	75,75,75,75	0
59	MG	CA	1797	1/1	0.96	0.14	-	52,52,52,52	0
59	MG	BA	1657	1/1	0.86	0.29	-	63,63,63,63	0
59	MG	CA	2285	1/1	0.97	0.17	-	135,135,135,135	0
59	MG	CA	1962	1/1	0.73	0.19	-	76,76,76,76	0
59	MG	AQ	203	1/1	0.91	0.28	-	67,67,67,67	0
59	MG	CA	2201	1/1	0.87	0.09	-	80,80,80,80	0
59	MG	BA	1716	1/1	0.97	0.22	-	56,56,56,56	0
59	MG	DA	4758	1/1	0.92	0.32	-	71,71,71,71	0
59	MG	DA	3845	1/1	0.97	0.12	-	54,54,54,54	0
59	MG	AA	3284	1/1	0.77	0.13	-	78,78,78,78	0
59	MG	DA	3902	1/1	0.95	0.10	-	64,64,64,64	0
59	MG	DA	4155	1/1	0.88	0.34	-	89,89,89,89	0
59	MG	DA	3501	1/1	0.92	0.25	-	51,51,51,51	0
59	MG	BC	103	1/1	0.97	0.08	-	51,51,51,51	0
59	MG	BA	1792	1/1	0.78	0.32	-	79,79,79,79	0
59	MG	AA	3613	1/1	0.77	0.14	-	84,84,84,84	0
59	MG	AA	3336	1/1	0.96	0.10	-	122,122,122,122	0
59	MG	BA	1679	1/1	0.80	0.17	-	50,50,50,50	0
59	MG	CA	1676	1/1	0.60	0.22	-	89,89,89,89	0
59	MG	BA	1951	1/1	0.85	0.33	-	78,78,78,78	0
59	MG	DA	3835	1/1	0.86	0.16	-	61,61,61,61	0
59	MG	DA	4370	1/1	0.98	0.21	-	74,74,74,74	0
59	MG	BA	1958	1/1	0.90	0.08	-	80,80,80,80	0
59	MG	BC	115	1/1	0.87	0.13	-	106,106,106,106	0
59	MG	BA	1952	1/1	0.94	0.32	-	70,70,70,70	0
59	MG	BA	2107	1/1	0.46	0.18	-	83,83,83,83	0
59	MG	AA	4156	1/1	0.96	0.17	-	59,59,59,59	0
59	MG	DA	3985	1/1	0.97	0.24	-	81,81,81,81	0
59	MG	BA	2060	1/1	0.84	0.38	-	73,73,73,73	0
59	MG	BA	1614	1/1	0.94	0.33	-	73,73,73,73	0
59	MG	CA	2060	1/1	0.86	0.12	-	44,44,44,44	0
59	MG	AA	3286	1/1	0.83	0.18	-	67,67,67,67	0
59	MG	DA	3588	1/1	0.87	0.14	-	54,54,54,54	0
59	MG	CA	1816	1/1	0.94	0.14	-	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3833	1/1	0.92	0.14	-	65,65,65,65	0
59	MG	DA	4311	1/1	0.88	0.30	-	83,83,83,83	0
59	MG	AA	3726	1/1	0.77	0.16	-	60,60,60,60	0
59	MG	DA	4529	1/1	0.89	0.29	-	75,75,75,75	0
59	MG	DA	3727	1/1	0.81	0.31	-	49,49,49,49	0
59	MG	DA	3422	1/1	0.93	0.15	-	41,41,41,41	0
59	MG	DA	4570	1/1	0.82	0.23	-	59,59,59,59	0
59	MG	DS	205	1/1	0.91	0.16	-	58,58,58,58	0
59	MG	AB	206	1/1	0.85	0.16	-	76,76,76,76	0
59	MG	BA	1636	1/1	0.92	0.28	-	44,44,44,44	0
59	MG	DA	4908	1/1	0.91	0.15	-	64,64,64,64	0
59	MG	DA	4778	1/1	0.80	0.23	-	66,66,66,66	0
59	MG	DA	3215	1/1	0.88	0.19	-	84,84,84,84	0
59	MG	BA	1686	1/1	0.97	0.27	-	34,34,34,34	0
59	MG	CC	105	1/1	0.60	0.24	-	71,71,71,71	0
59	MG	AA	3913	1/1	0.90	0.14	-	38,38,38,38	0
59	MG	DA	4983	1/1	0.86	0.33	-	53,53,53,53	0
59	MG	AA	3448	1/1	0.83	0.28	-	93,93,93,93	0
59	MG	DA	4998	1/1	0.78	0.36	-	110,110,110,110	0
59	MG	DB	218	1/1	0.97	0.28	-	44,44,44,44	0
59	MG	DA	3256	1/1	0.87	0.23	-	50,50,50,50	0
59	MG	AA	3188	1/1	0.83	0.21	-	52,52,52,52	0
59	MG	DA	3777	1/1	0.94	0.29	-	107,107,107,107	0
59	MG	CA	1632	1/1	0.67	0.36	-	65,65,65,65	0
59	MG	BA	1632	1/1	0.65	0.33	-	68,68,68,68	0
59	MG	BA	1751	1/1	0.95	0.15	-	62,62,62,62	0
59	MG	AA	3998	1/1	0.61	0.23	-	86,86,86,86	0
59	MG	CA	2306	1/1	0.90	0.39	-	90,90,90,90	0
59	MG	CA	2198	1/1	0.86	0.11	-	81,81,81,81	0
59	MG	DA	3694	1/1	0.98	0.17	-	41,41,41,41	0
59	MG	DA	4934	1/1	0.81	0.30	-	61,61,61,61	0
59	MG	DA	4379	1/1	0.84	0.15	-	74,74,74,74	0
59	MG	CA	1761	1/1	0.79	0.27	-	65,65,65,65	0
59	MG	BA	1886	1/1	0.85	0.37	-	64,64,64,64	0
59	MG	BA	2245	1/1	0.91	0.28	-	71,71,71,71	0
59	MG	AB	213	1/1	0.92	0.12	-	60,60,60,60	0
59	MG	DA	3137	1/1	0.96	0.36	-	31,31,31,31	0
59	MG	D2	205	1/1	0.97	0.31	-	84,84,84,84	0
59	MG	CA	2316	1/1	0.84	0.26	-	75,75,75,75	0
59	MG	BA	2104	1/1	0.76	0.46	-	80,80,80,80	0
59	MG	DA	4322	1/1	0.93	0.33	-	65,65,65,65	0
59	MG	AA	3226	1/1	0.98	0.07	-	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4856	1/1	0.91	0.17	-	49,49,49,49	0
59	MG	CA	1814	1/1	0.93	0.07	-	42,42,42,42	0
59	MG	DA	3021	1/1	0.96	0.31	-	26,26,26,26	0
59	MG	B1	103	1/1	0.88	0.36	-	67,67,67,67	0
59	MG	DB	243	1/1	0.96	0.13	-	53,53,53,53	0
59	MG	DA	3341	1/1	0.91	0.39	-	49,49,49,49	0
59	MG	AA	3598	1/1	0.95	0.18	-	79,79,79,79	0
59	MG	DF	320	1/1	0.61	0.24	-	58,58,58,58	0
59	MG	BD	101	1/1	0.92	0.34	-	86,86,86,86	0
59	MG	BA	1876	1/1	0.92	0.07	-	62,62,62,62	0
59	MG	AA	3580	1/1	0.95	0.08	-	50,50,50,50	0
59	MG	AA	3293	1/1	0.92	0.11	-	45,45,45,45	0
59	MG	AA	3872	1/1	0.57	0.36	-	90,90,90,90	0
59	MG	DA	3214	1/1	0.85	0.35	-	57,57,57,57	0
59	MG	BA	1988	1/1	0.64	0.40	-	95,95,95,95	0
59	MG	DU	218	1/1	0.83	0.49	-	73,73,73,73	0
59	MG	CA	2277	1/1	0.88	0.13	-	103,103,103,103	0
59	MG	DA	4552	1/1	0.78	0.27	-	83,83,83,83	0
59	MG	DA	3852	1/1	0.97	0.38	-	55,55,55,55	0
59	MG	DA	4520	1/1	0.75	0.23	-	84,84,84,84	0
59	MG	BA	1965	1/1	0.96	0.31	-	110,110,110,110	0
59	MG	DA	4787	1/1	0.92	0.35	-	85,85,85,85	0
59	MG	DA	3112	1/1	0.95	0.31	-	49,49,49,49	0
59	MG	DA	3255	1/1	0.85	0.25	-	72,72,72,72	0
59	MG	CA	1968	1/1	0.77	0.23	-	90,90,90,90	0
59	MG	DA	4696	1/1	0.98	0.18	-	57,57,57,57	0
59	MG	AA	4065	1/1	0.94	0.18	-	68,68,68,68	0
59	MG	CA	2160	1/1	0.82	0.20	-	96,96,96,96	0
59	MG	AA	3930	1/1	0.94	0.66	-	46,46,46,46	0
59	MG	AA	3452	1/1	0.81	0.19	-	97,97,97,97	0
59	MG	DA	3308	1/1	0.95	0.50	-	75,75,75,75	0
59	MG	BA	1795	1/1	0.96	0.32	-	67,67,67,67	0
59	MG	BA	1843	1/1	0.93	0.07	-	63,63,63,63	0
59	MG	CA	2319	1/1	0.95	0.27	-	60,60,60,60	0
59	MG	AA	3882	1/1	0.81	0.18	-	77,77,77,77	0
59	MG	DA	3336	1/1	0.93	0.13	-	36,36,36,36	0
59	MG	DA	5027	1/1	0.81	0.41	-	85,85,85,85	0
59	MG	DA	3819	1/1	0.91	0.16	-	68,68,68,68	0
59	MG	CA	2180	1/1	0.76	0.18	-	66,66,66,66	0
59	MG	BG	305	1/1	0.90	0.23	-	70,70,70,70	0
59	MG	DA	4158	1/1	0.97	0.08	-	47,47,47,47	0
59	MG	BA	1628	1/1	0.97	0.23	-	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	2175	1/1	0.81	0.21	-	89,89,89,89	0
59	MG	AA	4138	1/1	0.92	0.33	-	57,57,57,57	0
59	MG	CK	210	1/1	0.89	0.19	-	71,71,71,71	0
59	MG	CR	101	1/1	0.72	0.19	-	89,89,89,89	0
59	MG	DB	261	1/1	0.66	0.35	-	91,91,91,91	0
59	MG	AB	218	1/1	0.74	0.18	-	81,81,81,81	0
59	MG	AA	3861	1/1	0.94	0.29	-	99,99,99,99	0
59	MG	AA	3594	1/1	0.96	0.10	-	78,78,78,78	0
59	MG	CI	201	1/1	0.82	0.14	-	56,56,56,56	0
59	MG	DA	4204	1/1	0.97	0.18	-	45,45,45,45	0
59	MG	AA	3091	1/1	0.97	0.38	-	59,59,59,59	0
59	MG	DA	3669	1/1	0.89	0.20	-	68,68,68,68	0
59	MG	DA	3375	1/1	0.60	0.37	-	64,64,64,64	0
59	MG	DA	4598	1/1	0.85	0.23	-	71,71,71,71	0
59	MG	BA	2134	1/1	0.91	0.09	-	62,62,62,62	0
59	MG	AA	4153	1/1	0.72	0.29	-	109,109,109,109	0
59	MG	AA	3830	1/1	0.87	0.08	-	83,83,83,83	0
59	MG	CA	1639	1/1	0.96	0.20	-	43,43,43,43	0
59	MG	DA	3436	1/1	0.96	0.16	-	48,48,48,48	0
59	MG	DE	307	1/1	0.96	0.18	-	62,62,62,62	0
59	MG	AA	3929	1/1	0.91	0.07	-	104,104,104,104	0
59	MG	CA	1978	1/1	0.93	0.07	-	93,93,93,93	0
59	MG	DA	4245	1/1	0.90	0.18	-	73,73,73,73	0
59	MG	AA	3954	1/1	0.92	0.23	-	71,71,71,71	0
59	MG	CA	1840	1/1	0.67	0.18	-	84,84,84,84	0
59	MG	CA	1803	1/1	0.96	0.12	-	36,36,36,36	0
59	MG	BA	2129	1/1	0.90	0.08	-	75,75,75,75	0
59	MG	DA	4029	1/1	0.87	0.16	-	65,65,65,65	0
59	MG	CA	1616	1/1	0.91	0.23	-	39,39,39,39	0
59	MG	BA	1924	1/1	0.90	0.45	-	78,78,78,78	0
59	MG	CA	1870	1/1	0.96	0.10	-	58,58,58,58	0
59	MG	DA	3571	1/1	0.94	0.29	-	93,93,93,93	0
59	MG	AA	4077	1/1	0.96	0.22	-	67,67,67,67	0
59	MG	DA	3381	1/1	0.97	0.24	-	66,66,66,66	0
59	MG	AA	4021	1/1	0.87	0.09	-	80,80,80,80	0
59	MG	BA	1757	1/1	0.72	0.27	-	39,39,39,39	0
59	MG	AK	203	1/1	0.71	0.16	-	86,86,86,86	0
59	MG	BA	2080	1/1	0.87	0.12	-	61,61,61,61	0
59	MG	DA	4650	1/1	0.77	0.30	-	83,83,83,83	0
59	MG	AA	3612	1/1	0.86	0.27	-	106,106,106,106	0
59	MG	CC	118	1/1	0.87	0.24	-	66,66,66,66	0
59	MG	DA	3692	1/1	0.89	0.08	-	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	2241	1/1	0.40	0.23	-	98,98,98,98	0
59	MG	DA	5015	1/1	0.49	0.58	-	102,102,102,102	0
59	MG	CA	1823	1/1	0.92	0.09	-	67,67,67,67	0
59	MG	DA	3598	1/1	0.58	0.47	-	116,116,116,116	0
59	MG	BA	1873	1/1	0.75	0.18	-	109,109,109,109	0
59	MG	CA	1975	1/1	0.91	0.32	-	71,71,71,71	0
59	MG	DL	201	1/1	0.82	0.10	-	94,94,94,94	0
59	MG	CA	1644	1/1	0.96	0.16	-	24,24,24,24	0
59	MG	AA	3246	1/1	0.93	0.20	-	45,45,45,45	0
59	MG	BB	113	1/1	0.91	0.16	-	142,142,142,142	0
59	MG	DA	4268	1/1	0.91	0.18	-	58,58,58,58	0
59	MG	DA	3982	1/1	0.94	0.38	-	106,106,106,106	0
59	MG	CA	1654	1/1	0.92	0.21	-	48,48,48,48	0
59	MG	AA	4032	1/1	0.87	0.46	-	102,102,102,102	0
59	MG	D3	101	1/1	0.94	0.31	-	33,33,33,33	0
59	MG	AF	306	1/1	0.85	0.16	-	77,77,77,77	0
59	MG	DA	4152	1/1	0.95	0.24	-	54,54,54,54	0
59	MG	CA	1899	1/1	0.79	0.19	-	49,49,49,49	0
59	MG	AA	3164	1/1	0.93	0.27	-	79,79,79,79	0
59	MG	CA	2089	1/1	0.96	0.18	-	63,63,63,63	0
59	MG	CD	119	1/1	0.93	0.14	-	60,60,60,60	0
59	MG	AA	3291	1/1	0.92	0.16	-	34,34,34,34	0
59	MG	CA	1927	1/1	0.96	0.12	-	62,62,62,62	0
59	MG	AA	3522	1/1	0.99	0.04	-	14,14,14,14	0
59	MG	DA	4915	1/1	0.75	0.40	-	64,64,64,64	0
59	MG	BA	1646	1/1	0.86	0.15	-	82,82,82,82	0
59	MG	BD	110	1/1	0.88	0.10	-	81,81,81,81	0
59	MG	DA	4375	1/1	0.97	0.25	-	52,52,52,52	0
59	MG	DA	3831	1/1	0.82	0.12	-	61,61,61,61	0
59	MG	CA	2185	1/1	0.86	0.11	-	87,87,87,87	0
59	MG	DA	4082	1/1	0.63	0.56	-	75,75,75,75	0
59	MG	BA	2158	1/1	0.87	0.41	-	77,77,77,77	0
59	MG	DA	4390	1/1	0.96	0.24	-	53,53,53,53	0
59	MG	AA	4002	1/1	0.89	0.12	-	93,93,93,93	0
59	MG	AH	201	1/1	0.85	0.09	-	78,78,78,78	0
59	MG	DA	3468	1/1	0.91	0.19	-	49,49,49,49	0
59	MG	DA	4811	1/1	0.89	0.23	-	97,97,97,97	0
59	MG	CA	1750	1/1	0.54	0.20	-	82,82,82,82	0
59	MG	DA	3257	1/1	0.78	0.25	-	66,66,66,66	0
59	MG	DA	3812	1/1	0.93	0.10	-	73,73,73,73	0
59	MG	CA	2103	1/1	0.66	0.27	-	111,111,111,111	0
59	MG	CA	1703	1/1	0.46	0.19	-	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	A3	104	1/1	0.80	0.13	-	83,83,83,83	0
59	MG	CB	119	1/1	0.95	0.03	-	69,69,69,69	0
59	MG	CA	2027	1/1	0.81	0.43	-	110,110,110,110	0
59	MG	DA	4188	1/1	0.92	0.10	-	39,39,39,39	0
59	MG	CA	1603	1/1	0.85	0.42	-	80,80,80,80	0
59	MG	AA	4058	1/1	0.90	0.15	-	63,63,63,63	0
59	MG	DA	4218	1/1	0.87	0.10	-	51,51,51,51	0
59	MG	CA	2220	1/1	0.80	0.32	-	112,112,112,112	0
59	MG	AA	3867	1/1	0.88	0.10	-	41,41,41,41	0
59	MG	BA	1746	1/1	0.95	0.10	-	40,40,40,40	0
59	MG	CA	1859	1/1	0.86	0.28	-	106,106,106,106	0
59	MG	DA	4605	1/1	0.81	0.38	-	70,70,70,70	0
59	MG	AA	3312	1/1	0.97	0.13	-	40,40,40,40	0
59	MG	DA	3453	1/1	0.90	0.23	-	56,56,56,56	0
59	MG	AA	3435	1/1	0.67	0.14	-	69,69,69,69	0
59	MG	AA	3904	1/1	0.52	0.18	-	77,77,77,77	0
59	MG	DU	207	1/1	0.77	0.20	-	97,97,97,97	0
59	MG	DA	3593	1/1	0.94	0.28	-	29,29,29,29	0
59	MG	DA	3402	1/1	0.96	0.15	-	24,24,24,24	0
59	MG	DA	3979	1/1	0.82	0.31	-	82,82,82,82	0
59	MG	AA	3834	1/1	0.94	0.19	-	79,79,79,79	0
59	MG	CA	1818	1/1	0.78	0.21	-	101,101,101,101	0
59	MG	CA	1915	1/1	0.85	0.12	-	108,108,108,108	0
59	MG	AA	3642	1/1	0.90	0.24	-	56,56,56,56	0
59	MG	DA	3562	1/1	0.75	0.39	-	73,73,73,73	0
59	MG	DA	3828	1/1	0.87	0.19	-	70,70,70,70	0
59	MG	CA	2218	1/1	0.93	0.20	-	82,82,82,82	0
59	MG	CA	1751	1/1	0.96	0.22	-	34,34,34,34	0
59	MG	CA	1704	1/1	0.91	0.23	-	46,46,46,46	0
59	MG	CA	2139	1/1	0.82	0.09	-	96,96,96,96	0
59	MG	BA	1977	1/1	0.95	0.06	-	85,85,85,85	0
59	MG	AA	3506	1/1	0.96	0.23	-	27,27,27,27	0
59	MG	DE	311	1/1	0.81	0.24	-	42,42,42,42	0
59	MG	DA	3860	1/1	0.92	0.31	-	55,55,55,55	0
59	MG	DA	3670	1/1	0.98	0.22	-	78,78,78,78	0
59	MG	DA	4579	1/1	0.95	0.16	-	81,81,81,81	0
59	MG	AA	3227	1/1	0.99	0.14	-	30,30,30,30	0
59	MG	DA	3649	1/1	0.66	0.18	-	71,71,71,71	0
59	MG	DA	4727	1/1	0.81	0.15	-	69,69,69,69	0
59	MG	AA	3738	1/1	0.86	0.19	-	66,66,66,66	0
59	MG	AA	3846	1/1	0.92	0.39	-	88,88,88,88	0
59	MG	BD	106	1/1	0.87	0.40	-	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3939	1/1	0.95	0.18	-	54,54,54,54	0
59	MG	AA	3911	1/1	0.96	0.19	-	69,69,69,69	0
59	MG	DA	3577	1/1	0.73	0.33	-	101,101,101,101	0
59	MG	BA	1648	1/1	0.92	0.26	-	50,50,50,50	0
59	MG	DA	5036	1/1	0.99	0.22	-	52,52,52,52	0
59	MG	CF	302	1/1	0.81	0.22	-	79,79,79,79	0
59	MG	CA	1720	1/1	0.94	0.38	-	80,80,80,80	0
59	MG	DU	219	1/1	0.85	0.19	-	72,72,72,72	0
59	MG	DA	3689	1/1	0.87	0.20	-	67,67,67,67	0
59	MG	CR	103	1/1	0.82	0.20	-	70,70,70,70	0
59	MG	DA	4031	1/1	0.67	0.33	-	79,79,79,79	0
59	MG	CA	2280	1/1	0.92	0.07	-	84,84,84,84	0
59	MG	BA	1678	1/1	0.76	0.33	-	77,77,77,77	0
59	MG	DA	3068	1/1	0.98	0.18	-	15,15,15,15	0
59	MG	DA	4687	1/1	0.95	0.17	-	76,76,76,76	0
59	MG	DB	236	1/1	0.91	0.15	-	49,49,49,49	0
59	MG	AA	3917	1/1	0.88	0.30	-	98,98,98,98	0
59	MG	CA	1837	1/1	0.95	0.15	-	79,79,79,79	0
59	MG	DO	212	1/1	0.87	0.30	-	44,44,44,44	0
59	MG	DA	3874	1/1	0.86	0.51	-	69,69,69,69	0
59	MG	DA	5056	1/1	0.79	0.61	-	98,98,98,98	0
59	MG	CA	2018	1/1	0.89	0.33	-	106,106,106,106	0
59	MG	DA	3207	1/1	0.87	0.34	-	45,45,45,45	0
59	MG	DA	3032	1/1	0.98	0.25	-	6,6,6,6	0
59	MG	AA	3234	1/1	0.96	0.12	-	54,54,54,54	0
59	MG	DA	4762	1/1	0.93	0.23	-	77,77,77,77	0
59	MG	CA	2282	1/1	0.77	0.20	-	128,128,128,128	0
59	MG	DA	4749	1/1	0.94	0.22	-	78,78,78,78	0
59	MG	AK	201	1/1	0.90	0.21	-	64,64,64,64	0
59	MG	AA	3062	1/1	0.95	0.09	-	29,29,29,29	0
59	MG	DA	4281	1/1	0.87	0.21	-	51,51,51,51	0
59	MG	DA	4693	1/1	0.84	0.29	-	62,62,62,62	0
59	MG	BA	2059	1/1	0.96	0.19	-	67,67,67,67	0
59	MG	CA	2145	1/1	0.90	0.21	-	80,80,80,80	0
59	MG	CG	303	1/1	0.71	0.11	-	73,73,73,73	0
59	MG	DA	3302	1/1	0.85	0.34	-	50,50,50,50	0
59	MG	AA	4017	1/1	0.85	0.14	-	96,96,96,96	0
59	MG	AA	3797	1/1	0.85	0.28	-	96,96,96,96	0
59	MG	AA	3449	1/1	0.96	0.20	-	82,82,82,82	0
59	MG	BO	201	1/1	0.96	0.10	-	72,72,72,72	0
59	MG	DA	3274	1/1	0.72	0.41	-	67,67,67,67	0
59	MG	AA	4111	1/1	0.75	0.15	-	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	4091	1/1	0.93	0.13	-	107,107,107,107	0
59	MG	CA	2045	1/1	0.83	0.18	-	66,66,66,66	0
59	MG	DA	3303	1/1	0.92	0.41	-	46,46,46,46	0
59	MG	DA	3010	1/1	0.95	0.15	-	10,10,10,10	0
59	MG	DA	3587	1/1	0.97	0.23	-	21,21,21,21	0
59	MG	BA	1772	1/1	0.63	0.40	-	75,75,75,75	0
59	MG	DA	3784	1/1	0.97	0.16	-	52,52,52,52	0
59	MG	AA	3688	1/1	0.95	0.31	-	59,59,59,59	0
59	MG	DA	4388	1/1	0.82	0.27	-	80,80,80,80	0
59	MG	CA	2055	1/1	0.95	0.29	-	60,60,60,60	0
59	MG	DA	3959	1/1	0.97	0.20	-	59,59,59,59	0
59	MG	AA	3854	1/1	0.93	0.25	-	71,71,71,71	0
59	MG	CA	2322	1/1	0.92	0.21	-	88,88,88,88	0
59	MG	AA	3838	1/1	0.95	0.10	-	102,102,102,102	0
59	MG	DA	4189	1/1	0.96	0.08	-	60,60,60,60	0
59	MG	BA	2258	1/1	0.58	0.16	-	77,77,77,77	0
59	MG	BA	1900	1/1	0.96	0.10	-	83,83,83,83	0
59	MG	AA	4006	1/1	0.87	0.11	-	65,65,65,65	0
59	MG	CA	2202	1/1	0.95	0.28	-	47,47,47,47	0
59	MG	DA	4282	1/1	0.89	0.14	-	60,60,60,60	0
59	MG	DA	4449	1/1	0.89	0.20	-	64,64,64,64	0
59	MG	DE	302	1/1	0.97	0.22	-	8,8,8,8	0
59	MG	DA	3239	1/1	0.99	0.35	-	37,37,37,37	0
59	MG	AA	3806	1/1	0.82	0.11	-	79,79,79,79	0
59	MG	CA	1992	1/1	0.90	0.11	-	77,77,77,77	0
59	MG	DW	102	1/1	0.95	0.19	-	37,37,37,37	0
59	MG	DA	3554	1/1	0.95	0.32	-	51,51,51,51	0
59	MG	DA	3781	1/1	0.89	0.13	-	73,73,73,73	0
59	MG	DA	3164	1/1	0.94	0.27	-	53,53,53,53	0
59	MG	AA	3317	1/1	0.85	0.17	-	57,57,57,57	0
59	MG	DA	4846	1/1	0.92	0.18	-	73,73,73,73	0
59	MG	AA	3682	1/1	0.91	0.13	-	75,75,75,75	0
59	MG	AA	4141	1/1	0.78	0.11	-	88,88,88,88	0
59	MG	DA	3346	1/1	0.96	0.42	-	49,49,49,49	0
59	MG	BA	2218	1/1	0.88	0.17	-	80,80,80,80	0
59	MG	DA	4503	1/1	0.90	0.28	-	96,96,96,96	0
59	MG	AA	4044	1/1	0.65	0.42	-	93,93,93,93	0
59	MG	AA	3470	1/1	0.90	0.20	-	76,76,76,76	0
59	MG	DA	4871	1/1	0.51	0.32	-	86,86,86,86	0
59	MG	DA	4225	1/1	0.97	0.11	-	83,83,83,83	0
59	MG	BA	1652	1/1	0.82	0.32	-	40,40,40,40	0
59	MG	DA	4980	1/1	0.73	0.48	-	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3826	1/1	0.96	0.23	-	33,33,33,33	0
59	MG	CA	1860	1/1	0.83	0.26	-	107,107,107,107	0
59	MG	DA	4548	1/1	0.95	0.12	-	53,53,53,53	0
59	MG	DA	3992	1/1	0.77	0.25	-	61,61,61,61	0
59	MG	AA	3437	1/1	0.89	0.13	-	51,51,51,51	0
59	MG	DA	3633	1/1	0.77	0.29	-	48,48,48,48	0
59	MG	CA	1714	1/1	0.74	0.31	-	66,66,66,66	0
59	MG	BA	2199	1/1	0.91	0.17	-	107,107,107,107	0
59	MG	BA	1755	1/1	0.81	0.15	-	56,56,56,56	0
59	MG	CA	1789	1/1	0.87	0.05	-	99,99,99,99	0
59	MG	AA	3908	1/1	0.65	0.66	-	68,68,68,68	0
59	MG	BA	1706	1/1	0.89	0.29	-	52,52,52,52	0
59	MG	DA	3379	1/1	0.98	0.16	-	36,36,36,36	0
59	MG	CA	1854	1/1	0.75	0.18	-	67,67,67,67	0
59	MG	DB	233	1/1	0.78	0.14	-	45,45,45,45	0
59	MG	AA	3215	1/1	0.89	0.16	-	72,72,72,72	0
59	MG	AA	3148	1/1	0.83	0.13	-	53,53,53,53	0
59	MG	DA	4314	1/1	0.91	0.26	-	67,67,67,67	0
59	MG	CV	102	1/1	0.88	0.15	-	63,63,63,63	0
59	MG	DA	3855	1/1	0.94	0.11	-	85,85,85,85	0
59	MG	AA	3249	1/1	0.91	0.22	-	41,41,41,41	0
59	MG	DA	4159	1/1	0.87	0.18	-	62,62,62,62	0
59	MG	CA	2146	1/1	0.91	0.22	-	85,85,85,85	0
59	MG	CG	302	1/1	0.71	0.14	-	67,67,67,67	0
59	MG	CA	1772	1/1	0.78	0.21	-	62,62,62,62	0
59	MG	AA	3098	1/1	0.96	0.21	-	45,45,45,45	0
59	MG	C1	101	1/1	0.91	0.43	-	156,156,156,156	0
59	MG	DB	252	1/1	0.67	0.29	-	101,101,101,101	0
59	MG	DA	3535	1/1	0.61	0.24	-	69,69,69,69	0
59	MG	DA	4217	1/1	0.90	0.24	-	57,57,57,57	0
59	MG	DA	3596	1/1	0.79	0.19	-	76,76,76,76	0
59	MG	AA	3026	1/1	0.97	0.38	-	38,38,38,38	0
59	MG	DO	218	1/1	0.80	0.19	-	74,74,74,74	0
59	MG	DA	3221	1/1	0.90	0.32	-	43,43,43,43	0
59	MG	AA	3155	1/1	0.94	0.16	-	46,46,46,46	0
59	MG	DA	3155	1/1	0.98	0.18	-	32,32,32,32	0
59	MG	AA	3386	1/1	0.90	0.11	-	51,51,51,51	0
59	MG	DA	4717	1/1	0.78	0.33	-	80,80,80,80	0
59	MG	BA	1740	1/1	0.96	0.09	-	42,42,42,42	0
59	MG	CA	1667	1/1	0.95	0.25	-	50,50,50,50	0
59	MG	DA	4851	1/1	0.81	0.20	-	139,139,139,139	0
59	MG	DA	4863	1/1	0.80	0.22	-	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BD	112	1/1	0.92	0.21	-	78,78,78,78	0
59	MG	AA	3762	1/1	0.93	0.18	-	63,63,63,63	0
59	MG	DA	4183	1/1	0.93	0.10	-	53,53,53,53	0
59	MG	DA	5022	1/1	0.93	0.09	-	82,82,82,82	0
59	MG	AA	3107	1/1	0.97	0.27	-	32,32,32,32	0
59	MG	AA	4086	1/1	0.88	0.23	-	76,76,76,76	0
59	MG	DA	4738	1/1	0.91	0.10	-	55,55,55,55	0
59	MG	BA	1778	1/1	0.90	0.36	-	49,49,49,49	0
59	MG	AA	4014	1/1	0.74	0.17	-	84,84,84,84	0
59	MG	CA	2213	1/1	0.76	0.11	-	84,84,84,84	0
59	MG	DA	4523	1/1	0.94	0.16	-	51,51,51,51	0
59	MG	CA	2307	1/1	0.73	0.15	-	76,76,76,76	0
59	MG	DA	3962	1/1	0.92	0.15	-	81,81,81,81	0
59	MG	AA	3079	1/1	0.95	0.09	-	40,40,40,40	0
59	MG	AA	3181	1/1	0.88	0.20	-	51,51,51,51	0
59	MG	DA	3416	1/1	0.95	0.17	-	62,62,62,62	0
59	MG	DA	4731	1/1	0.77	0.19	-	63,63,63,63	0
59	MG	BA	2148	1/1	0.83	0.14	-	110,110,110,110	0
59	MG	DA	4292	1/1	0.85	0.26	-	62,62,62,62	0
59	MG	DA	4776	1/1	0.84	0.07	-	72,72,72,72	0
59	MG	AA	3773	1/1	0.85	0.21	-	76,76,76,76	0
59	MG	DA	4706	1/1	0.93	0.35	-	89,89,89,89	0
59	MG	BA	1867	1/1	0.72	0.32	-	121,121,121,121	0
59	MG	CD	130	1/1	0.47	0.23	-	84,84,84,84	0
59	MG	DA	4047	1/1	0.96	0.10	-	44,44,44,44	0
59	MG	AA	3256	1/1	0.94	0.21	-	62,62,62,62	0
59	MG	DA	4994	1/1	0.85	0.19	-	98,98,98,98	0
59	MG	DA	3145	1/1	0.98	0.25	-	39,39,39,39	0
59	MG	DA	4709	1/1	0.92	0.25	-	81,81,81,81	0
59	MG	DA	3418	1/1	0.53	0.23	-	60,60,60,60	0
59	MG	BA	2268	1/1	0.87	0.17	-	87,87,87,87	0
59	MG	DA	3347	1/1	0.88	0.27	-	29,29,29,29	0
59	MG	AA	3400	1/1	0.94	0.21	-	58,58,58,58	0
59	MG	DA	3204	1/1	0.93	0.15	-	50,50,50,50	0
59	MG	DA	3916	1/1	0.95	0.34	-	36,36,36,36	0
59	MG	BA	2168	1/1	0.91	0.08	-	73,73,73,73	0
59	MG	BA	2236	1/1	0.93	0.26	-	82,82,82,82	0
59	MG	AA	3319	1/1	0.95	0.14	-	85,85,85,85	0
59	MG	DA	3756	1/1	0.94	0.29	-	126,126,126,126	0
59	MG	DA	3949	1/1	0.84	0.15	-	132,132,132,132	0
59	MG	DA	4613	1/1	0.96	0.32	-	64,64,64,64	0
59	MG	BA	1874	1/1	0.91	0.10	-	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4383	1/1	0.93	0.44	-	85,85,85,85	0
59	MG	D8	104	1/1	0.88	0.55	-	50,50,50,50	0
59	MG	AA	4066	1/1	0.84	0.17	-	82,82,82,82	0
59	MG	DA	3786	1/1	0.96	0.18	-	68,68,68,68	0
59	MG	CA	2111	1/1	0.91	0.06	-	75,75,75,75	0
59	MG	DA	3201	1/1	0.95	0.21	-	45,45,45,45	0
59	MG	AA	3271	1/1	0.84	0.31	-	83,83,83,83	0
59	MG	AA	3149	1/1	0.92	0.26	-	61,61,61,61	0
59	MG	CA	2267	1/1	0.91	0.25	-	80,80,80,80	0
59	MG	AA	3789	1/1	0.84	0.18	-	55,55,55,55	0
59	MG	AA	3663	1/1	0.91	0.24	-	61,61,61,61	0
59	MG	BA	1604	1/1	0.97	0.22	-	47,47,47,47	0
59	MG	AA	4142	1/1	0.84	0.39	-	104,104,104,104	0
59	MG	AA	3735	1/1	0.94	0.07	-	50,50,50,50	0
59	MG	DA	4284	1/1	0.83	0.22	-	52,52,52,52	0
59	MG	DA	3600	1/1	0.88	0.20	-	59,59,59,59	0
59	MG	AA	3272	1/1	0.90	0.31	-	54,54,54,54	0
59	MG	CA	2240	1/1	0.97	0.25	-	70,70,70,70	0
59	MG	DQ	201	1/1	0.90	0.18	-	51,51,51,51	0
59	MG	DA	3121	1/1	0.82	0.30	-	51,51,51,51	0
59	MG	CA	1769	1/1	0.95	0.16	-	42,42,42,42	0
59	MG	DA	3151	1/1	0.94	0.25	-	49,49,49,49	0
59	MG	CA	1657	1/1	0.93	0.18	-	35,35,35,35	0
59	MG	AA	3665	1/1	0.79	0.40	-	80,80,80,80	0
59	MG	DA	3636	1/1	0.93	0.10	-	46,46,46,46	0
59	MG	BA	2019	1/1	0.85	0.36	-	80,80,80,80	0
59	MG	CA	1976	1/1	0.93	0.21	-	88,88,88,88	0
59	MG	AA	4073	1/1	0.68	0.11	-	84,84,84,84	0
59	MG	DA	5045	1/1	0.96	0.24	-	72,72,72,72	0
59	MG	CA	1647	1/1	0.98	0.20	-	13,13,13,13	0
59	MG	DA	3611	1/1	0.27	0.58	-	115,115,115,115	0
59	MG	DA	3749	1/1	0.99	0.05	-	92,92,92,92	0
59	MG	DA	4528	1/1	0.93	0.15	-	65,65,65,65	0
59	MG	BA	1620	1/1	0.70	0.25	-	50,50,50,50	0
59	MG	BA	1748	1/1	0.87	0.30	-	66,66,66,66	0
59	MG	AA	3455	1/1	0.95	0.09	-	22,22,22,22	0
59	MG	BA	2057	1/1	0.88	0.10	-	103,103,103,103	0
59	MG	DA	4988	1/1	0.94	0.13	-	64,64,64,64	0
59	MG	DA	3556	1/1	0.79	0.35	-	107,107,107,107	0
59	MG	DA	4071	1/1	0.94	0.25	-	55,55,55,55	0
59	MG	CB	112	1/1	0.75	0.13	-	77,77,77,77	0
59	MG	DA	4642	1/1	0.92	0.25	-	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CS	104	1/1	0.79	0.17	-	125,125,125,125	0
59	MG	DA	3153	1/1	0.98	0.26	-	26,26,26,26	0
59	MG	DA	3057	1/1	0.98	0.22	-	6,6,6,6	0
59	MG	AA	3596	1/1	0.86	0.14	-	65,65,65,65	0
59	MG	CA	2009	1/1	0.92	0.13	-	61,61,61,61	0
59	MG	CA	2234	1/1	0.76	0.21	-	81,81,81,81	0
59	MG	BA	2204	1/1	0.94	0.19	-	70,70,70,70	0
59	MG	BA	1948	1/1	0.93	0.34	-	75,75,75,75	0
59	MG	DA	4678	1/1	0.93	0.13	-	68,68,68,68	0
59	MG	CA	2011	1/1	0.89	0.16	-	62,62,62,62	0
59	MG	DA	4355	1/1	0.91	0.50	-	79,79,79,79	0
59	MG	DA	4628	1/1	0.95	0.16	-	94,94,94,94	0
59	MG	AA	3298	1/1	0.79	0.13	-	38,38,38,38	0
59	MG	DA	3657	1/1	0.80	0.15	-	74,74,74,74	0
59	MG	AA	3199	1/1	0.92	0.34	-	75,75,75,75	0
59	MG	DA	4916	1/1	0.71	0.16	-	88,88,88,88	0
59	MG	BA	1950	1/1	0.90	0.23	-	62,62,62,62	0
59	MG	CA	2293	1/1	0.88	0.13	-	80,80,80,80	0
59	MG	DA	3278	1/1	0.74	0.31	-	62,62,62,62	0
59	MG	DA	3701	1/1	0.97	0.32	-	10,10,10,10	0
59	MG	DA	4219	1/1	0.98	0.21	-	60,60,60,60	0
59	MG	CA	2315	1/1	0.94	0.25	-	94,94,94,94	0
59	MG	AA	3723	1/1	0.90	0.37	-	79,79,79,79	0
59	MG	DA	3008	1/1	0.93	0.26	-	10,10,10,10	0
59	MG	DA	4115	1/1	0.52	0.35	-	81,81,81,81	0
59	MG	BA	1607	1/1	0.91	0.25	-	74,74,74,74	0
59	MG	DA	4614	1/1	0.82	0.37	-	78,78,78,78	0
59	MG	AA	3541	1/1	0.84	0.18	-	49,49,49,49	0
59	MG	CA	2321	1/1	0.84	0.19	-	90,90,90,90	0
59	MG	D7	101	1/1	0.87	0.32	-	52,52,52,52	0
59	MG	CA	1947	1/1	0.94	0.12	-	82,82,82,82	0
59	MG	DA	4659	1/1	0.94	0.18	-	68,68,68,68	0
59	MG	BA	1823	1/1	0.92	0.08	-	84,84,84,84	0
59	MG	CA	1627	1/1	0.87	0.24	-	49,49,49,49	0
59	MG	BA	1779	1/1	0.97	0.27	-	45,45,45,45	0
59	MG	AT	103	1/1	0.86	0.21	-	85,85,85,85	0
59	MG	BA	1930	1/1	0.80	0.24	-	62,62,62,62	0
59	MG	AA	3704	1/1	0.94	0.13	-	59,59,59,59	0
59	MG	BA	1825	1/1	0.93	0.10	-	121,121,121,121	0
59	MG	DA	4377	1/1	0.91	0.17	-	46,46,46,46	0
59	MG	AA	4131	1/1	0.72	0.18	-	99,99,99,99	0
59	MG	CA	2196	1/1	0.94	0.12	-	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	1826	1/1	0.98	0.08	-	75,75,75,75	0
59	MG	DA	4345	1/1	0.87	0.12	-	58,58,58,58	0
59	MG	CA	2114	1/1	0.61	0.34	-	111,111,111,111	0
59	MG	DB	217	1/1	0.92	0.25	-	46,46,46,46	0
59	MG	DA	3896	1/1	0.91	0.14	-	69,69,69,69	0
59	MG	DA	4682	1/1	0.92	0.31	-	63,63,63,63	0
59	MG	CA	2033	1/1	0.71	0.14	-	73,73,73,73	0
59	MG	AA	3606	1/1	0.82	0.20	-	97,97,97,97	0
59	MG	DA	4087	1/1	0.95	0.18	-	45,45,45,45	0
59	MG	CB	109	1/1	0.84	0.10	-	60,60,60,60	0
59	MG	DA	5034	1/1	0.94	0.33	-	76,76,76,76	0
59	MG	BA	1995	1/1	0.68	0.17	-	84,84,84,84	0
59	MG	AA	3240	1/1	0.98	0.22	-	34,34,34,34	0
59	MG	DA	4769	1/1	0.72	0.24	-	68,68,68,68	0
59	MG	AU	201	1/1	0.90	0.20	-	51,51,51,51	0
59	MG	AA	3231	1/1	0.97	0.09	-	43,43,43,43	0
59	MG	DA	3431	1/1	0.88	0.36	-	61,61,61,61	0
59	MG	DA	3124	1/1	0.93	0.20	-	36,36,36,36	0
59	MG	AA	3833	1/1	0.72	0.19	-	80,80,80,80	0
59	MG	DA	5071	1/1	0.91	0.30	-	101,101,101,101	0
59	MG	BA	1625	1/1	0.94	0.28	-	74,74,74,74	0
59	MG	DA	4153	1/1	0.94	0.23	-	48,48,48,48	0
59	MG	BA	2211	1/1	0.91	0.24	-	78,78,78,78	0
59	MG	DA	5054	1/1	0.61	0.71	-	67,67,67,67	0
59	MG	DA	3544	1/1	0.92	0.17	-	51,51,51,51	0
59	MG	BA	1666	1/1	0.95	0.12	-	43,43,43,43	0
59	MG	AA	3402	1/1	0.30	0.17	-	66,66,66,66	0
59	MG	DA	3290	1/1	0.90	0.22	-	33,33,33,33	0
59	MG	AA	3961	1/1	0.92	0.29	-	54,54,54,54	0
59	MG	DA	4059	1/1	0.91	0.16	-	103,103,103,103	0
59	MG	BC	116	1/1	0.52	0.20	-	107,107,107,107	0
59	MG	BA	1759	1/1	0.97	0.18	-	77,77,77,77	0
59	MG	BW	203	1/1	0.83	0.29	-	125,125,125,125	0
59	MG	AA	3756	1/1	0.75	0.19	-	65,65,65,65	0
59	MG	AA	3004	1/1	0.96	0.18	-	7,7,7,7	0
59	MG	AA	3716	1/1	0.93	0.12	-	74,74,74,74	0
59	MG	AA	3418	1/1	0.79	0.48	-	91,91,91,91	0
59	MG	DA	4462	1/1	0.70	0.20	-	74,74,74,74	0
59	MG	AA	3353	1/1	0.77	0.33	-	83,83,83,83	0
59	MG	AA	3956	1/1	0.93	0.43	-	93,93,93,93	0
59	MG	AA	3564	1/1	0.72	0.24	-	67,67,67,67	0
59	MG	DA	3225	1/1	0.97	0.10	-	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3432	1/1	0.85	0.30	-	83,83,83,83	0
59	MG	DA	3140	1/1	0.95	0.29	-	26,26,26,26	0
59	MG	BA	1796	1/1	0.80	0.42	-	77,77,77,77	0
59	MG	DA	4708	1/1	0.96	0.14	-	46,46,46,46	0
59	MG	DA	4517	1/1	0.98	0.23	-	97,97,97,97	0
59	MG	DA	4799	1/1	0.96	0.46	-	98,98,98,98	0
59	MG	AU	204	1/1	0.67	0.29	-	87,87,87,87	0
59	MG	DA	4187	1/1	0.89	0.12	-	46,46,46,46	0
59	MG	DA	4866	1/1	0.93	0.23	-	53,53,53,53	0
59	MG	DA	3865	1/1	0.98	0.14	-	87,87,87,87	0
59	MG	DA	5052	1/1	0.75	0.23	-	49,49,49,49	0
59	MG	DS	204	1/1	0.88	0.43	-	75,75,75,75	0
59	MG	DA	5055	1/1	0.91	0.27	-	69,69,69,69	0
59	MG	DA	4873	1/1	0.99	0.17	-	49,49,49,49	0
59	MG	CA	1610	1/1	0.89	0.26	-	48,48,48,48	0
59	MG	CN	202	1/1	0.92	0.20	-	64,64,64,64	0
59	MG	CA	2192	1/1	0.75	0.13	-	60,60,60,60	0
59	MG	DA	3717	1/1	0.94	0.10	-	1,1,1,1	0
59	MG	CA	2004	1/1	0.88	0.13	-	61,61,61,61	0
59	MG	BA	1834	1/1	0.78	0.14	-	70,70,70,70	0
59	MG	DA	3387	1/1	0.90	0.13	-	47,47,47,47	0
59	MG	DA	3677	1/1	0.97	0.25	-	78,78,78,78	0
59	MG	AA	3584	1/1	0.85	0.55	-	85,85,85,85	0
59	MG	DV	304	1/1	0.88	0.27	-	77,77,77,77	0
59	MG	AA	3362	1/1	0.88	0.11	-	62,62,62,62	0
59	MG	AA	3039	1/1	0.98	0.23	-	30,30,30,30	0
59	MG	CV	101	1/1	0.89	0.09	-	53,53,53,53	0
59	MG	DA	4085	1/1	0.94	0.21	-	60,60,60,60	0
59	MG	DA	3517	1/1	0.89	0.10	-	29,29,29,29	0
59	MG	CA	1731	1/1	0.92	0.14	-	56,56,56,56	0
59	MG	DA	4997	1/1	0.80	0.18	-	50,50,50,50	0
59	MG	DA	4065	1/1	0.92	0.11	-	58,58,58,58	0
59	MG	DA	3056	1/1	0.99	0.21	-	12,12,12,12	0
59	MG	DA	4733	1/1	0.37	0.30	-	84,84,84,84	0
59	MG	DA	4624	1/1	0.93	0.12	-	68,68,68,68	0
59	MG	DA	3980	1/1	0.93	0.59	-	65,65,65,65	0
59	MG	CA	2221	1/1	0.83	0.13	-	72,72,72,72	0
59	MG	CA	2204	1/1	0.85	0.28	-	87,87,87,87	0
59	MG	AA	3942	1/1	0.50	0.25	-	85,85,85,85	0
59	MG	CA	1942	1/1	0.79	0.51	-	105,105,105,105	0
59	MG	DA	4000	1/1	0.96	0.11	-	50,50,50,50	0
59	MG	DA	3723	1/1	0.93	0.21	-	19,19,19,19	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3493	1/1	0.95	0.07	-	76,76,76,76	0
59	MG	DA	3319	1/1	0.97	0.15	-	46,46,46,46	0
59	MG	AA	3421	1/1	0.84	0.12	-	43,43,43,43	0
59	MG	BA	2011	1/1	0.94	0.19	-	64,64,64,64	0
59	MG	DA	3051	1/1	0.99	0.23	-	17,17,17,17	0
59	MG	DA	3432	1/1	0.98	0.23	-	46,46,46,46	0
59	MG	DA	3244	1/1	0.98	0.15	-	97,97,97,97	0
59	MG	CC	101	1/1	0.93	0.22	-	41,41,41,41	0
59	MG	AA	3290	1/1	0.66	0.19	-	78,78,78,78	0
59	MG	AA	4020	1/1	0.80	0.26	-	85,85,85,85	0
59	MG	DA	4441	1/1	0.98	0.17	-	62,62,62,62	0
59	MG	DA	3894	1/1	0.76	0.17	-	101,101,101,101	0
59	MG	DA	3735	1/1	0.90	0.26	-	76,76,76,76	0
59	MG	CA	2166	1/1	0.74	0.31	-	91,91,91,91	0
59	MG	DO	202	1/1	0.95	0.22	-	35,35,35,35	0
59	MG	AA	3265	1/1	0.73	0.40	-	71,71,71,71	0
59	MG	DA	3987	1/1	0.92	0.20	-	53,53,53,53	0
59	MG	DA	3846	1/1	0.96	0.13	-	64,64,64,64	0
59	MG	DA	5064	1/1	0.98	0.12	-	61,61,61,61	0
59	MG	DA	3039	1/1	0.96	0.19	-	10,10,10,10	0
59	MG	CD	101	1/1	0.71	0.20	-	85,85,85,85	0
59	MG	CA	1984	1/1	0.87	0.28	-	49,49,49,49	0
59	MG	DA	4974	1/1	0.92	0.19	-	57,57,57,57	0
59	MG	DA	4925	1/1	0.84	0.28	-	73,73,73,73	0
59	MG	DA	3879	1/1	0.82	0.14	-	83,83,83,83	0
59	MG	AA	3456	1/1	0.97	0.13	-	20,20,20,20	0
59	MG	BA	1763	1/1	0.95	0.25	-	57,57,57,57	0
59	MG	BA	1781	1/1	0.95	0.15	-	69,69,69,69	0
59	MG	BA	1869	1/1	0.80	0.12	-	73,73,73,73	0
59	MG	DA	3963	1/1	0.98	0.15	-	59,59,59,59	0
59	MG	DA	4739	1/1	0.76	0.36	-	77,77,77,77	0
59	MG	DA	3483	1/1	0.86	0.25	-	61,61,61,61	0
59	MG	DU	204	1/1	0.95	0.09	-	62,62,62,62	0
59	MG	CA	1813	1/1	0.85	0.33	-	116,116,116,116	0
59	MG	DB	223	1/1	0.97	0.07	-	58,58,58,58	0
59	MG	CA	2032	1/1	0.94	0.24	-	69,69,69,69	0
59	MG	AA	3757	1/1	0.76	0.21	-	56,56,56,56	0
59	MG	AA	3852	1/1	0.52	0.42	-	67,67,67,67	0
59	MG	BA	2251	1/1	0.87	0.42	-	89,89,89,89	0
59	MG	DA	3493	1/1	0.88	0.13	-	50,50,50,50	0
59	MG	CA	2119	1/1	0.94	0.25	-	76,76,76,76	0
59	MG	BA	1877	1/1	0.91	0.15	-	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3585	1/1	0.95	0.15	-	45,45,45,45	0
59	MG	DA	4789	1/1	0.93	0.21	-	46,46,46,46	0
59	MG	AA	3984	1/1	0.75	0.18	-	98,98,98,98	0
59	MG	D2	202	1/1	0.98	0.20	-	52,52,52,52	0
59	MG	AA	3120	1/1	0.92	0.40	-	59,59,59,59	0
59	MG	DA	3070	1/1	0.98	0.24	-	24,24,24,24	0
59	MG	CH	204	1/1	0.95	0.27	-	93,93,93,93	0
59	MG	DA	4334	1/1	0.94	0.46	-	70,70,70,70	0
59	MG	DA	3523	1/1	0.85	0.41	-	82,82,82,82	0
59	MG	AA	3595	1/1	0.62	0.36	-	103,103,103,103	0
59	MG	DA	3722	1/1	0.86	0.20	-	83,83,83,83	0
59	MG	CA	1827	1/1	0.81	0.25	-	101,101,101,101	0
59	MG	BA	1962	1/1	0.94	0.13	-	73,73,73,73	0
59	MG	DA	4165	1/1	0.96	0.11	-	35,35,35,35	0
59	MG	CA	2010	1/1	0.73	0.54	-	104,104,104,104	0
59	MG	DA	3715	1/1	0.87	0.21	-	75,75,75,75	0
59	MG	DA	4255	1/1	0.93	0.30	-	54,54,54,54	0
59	MG	DA	3798	1/1	0.98	0.18	-	30,30,30,30	0
59	MG	DA	4923	1/1	0.92	0.10	-	74,74,74,74	0
59	MG	DA	4482	1/1	0.90	0.41	-	80,80,80,80	0
59	MG	CA	2105	1/1	0.68	0.43	-	94,94,94,94	0
59	MG	CE	305	1/1	0.63	0.27	-	95,95,95,95	0
59	MG	AA	3394	1/1	0.91	0.16	-	45,45,45,45	0
59	MG	BD	102	1/1	0.61	0.24	-	84,84,84,84	0
59	MG	AA	3851	1/1	0.96	0.11	-	60,60,60,60	0
59	MG	DA	4839	1/1	0.67	0.28	-	75,75,75,75	0
59	MG	BA	2242	1/1	0.86	0.18	-	57,57,57,57	0
59	MG	BA	2159	1/1	0.94	0.18	-	89,89,89,89	0
59	MG	DA	3740	1/1	0.96	0.12	-	49,49,49,49	0
59	MG	DA	4458	1/1	0.85	0.16	-	51,51,51,51	0
59	MG	AA	3918	1/1	0.90	0.12	-	90,90,90,90	0
59	MG	DA	3651	1/1	0.90	0.18	-	40,40,40,40	0
59	MG	DA	3547	1/1	0.86	0.41	-	68,68,68,68	0
59	MG	AA	3583	1/1	0.87	0.43	-	72,72,72,72	0
59	MG	DA	4881	1/1	0.84	0.27	-	85,85,85,85	0
59	MG	AA	3659	1/1	0.97	0.17	-	67,67,67,67	0
59	MG	CA	1694	1/1	0.59	0.17	-	56,56,56,56	0
59	MG	DA	4276	1/1	0.83	1.07	-	75,75,75,75	0
59	MG	AA	3791	1/1	0.89	0.25	-	65,65,65,65	0
59	MG	DA	3100	1/1	0.93	0.18	-	36,36,36,36	0
59	MG	DA	4473	1/1	0.79	0.34	-	60,60,60,60	0
59	MG	BA	1896	1/1	0.87	0.07	-	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4182	1/1	0.93	0.40	-	82,82,82,82	0
59	MG	DA	4902	1/1	0.97	0.19	-	82,82,82,82	0
59	MG	BK	205	1/1	0.79	0.36	-	86,86,86,86	0
59	MG	AO	203	1/1	0.92	0.11	-	47,47,47,47	0
59	MG	AA	3832	1/1	0.94	0.14	-	63,63,63,63	0
59	MG	CA	1852	1/1	0.37	0.29	-	143,143,143,143	0
59	MG	DA	4368	1/1	0.93	0.15	-	51,51,51,51	0
59	MG	DA	4313	1/1	0.88	0.23	-	56,56,56,56	0
59	MG	DA	3134	1/1	0.95	0.43	-	44,44,44,44	0
59	MG	AA	3844	1/1	0.91	0.33	-	94,94,94,94	0
59	MG	DA	4842	1/1	0.59	0.29	-	65,65,65,65	0
59	MG	AA	3604	1/1	0.90	0.09	-	74,74,74,74	0
59	MG	AA	3964	1/1	0.74	0.37	-	111,111,111,111	0
59	MG	BK	203	1/1	0.84	0.09	-	69,69,69,69	0
59	MG	DA	3719	1/1	0.95	0.25	-	29,29,29,29	0
59	MG	DA	4920	1/1	0.88	0.16	-	61,61,61,61	0
59	MG	AA	3069	1/1	0.98	0.12	-	29,29,29,29	0
59	MG	CA	1809	1/1	0.98	0.24	-	82,82,82,82	0
59	MG	DA	3794	1/1	0.96	0.30	-	38,38,38,38	0
59	MG	DA	3910	1/1	0.97	0.10	-	143,143,143,143	0
59	MG	BD	109	1/1	0.47	0.39	-	139,139,139,139	0
59	MG	CA	1698	1/1	0.85	0.35	-	101,101,101,101	0
59	MG	BA	2220	1/1	0.74	0.38	-	86,86,86,86	0
59	MG	AA	3469	1/1	0.95	0.22	-	42,42,42,42	0
59	MG	DA	3656	1/1	0.87	0.24	-	81,81,81,81	0
59	MG	BA	2249	1/1	0.91	0.18	-	66,66,66,66	0
59	MG	DA	4813	1/1	0.89	0.38	-	78,78,78,78	0
59	MG	DA	4662	1/1	0.91	0.33	-	101,101,101,101	0
59	MG	DB	245	1/1	0.78	0.15	-	59,59,59,59	0
59	MG	BA	1938	1/1	0.97	0.18	-	69,69,69,69	0
59	MG	DA	3371	1/1	0.81	0.25	-	73,73,73,73	0
59	MG	DA	4919	1/1	0.93	0.31	-	58,58,58,58	0
59	MG	CA	2151	1/1	0.91	0.14	-	60,60,60,60	0
59	MG	CA	2288	1/1	0.93	0.25	-	74,74,74,74	0
59	MG	AA	3321	1/1	0.78	0.17	-	69,69,69,69	0
59	MG	DA	3374	1/1	0.90	0.17	-	84,84,84,84	0
59	MG	AA	4107	1/1	0.61	0.49	-	98,98,98,98	0
59	MG	BA	2151	1/1	0.83	0.20	-	81,81,81,81	0
59	MG	DA	3991	1/1	0.99	0.07	-	96,96,96,96	0
59	MG	DO	205	1/1	0.94	0.30	-	52,52,52,52	0
59	MG	DA	4718	1/1	0.97	0.07	-	69,69,69,69	0
59	MG	CA	1722	1/1	0.91	0.18	-	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3624	1/1	0.92	0.29	-	38,38,38,38	0
59	MG	DA	3632	1/1	0.98	0.10	-	52,52,52,52	0
59	MG	DA	4597	1/1	0.84	0.15	-	59,59,59,59	0
59	MG	DB	247	1/1	0.98	0.09	-	61,61,61,61	0
59	MG	CA	1881	1/1	0.96	0.30	-	48,48,48,48	0
59	MG	DA	3863	1/1	0.88	0.23	-	69,69,69,69	0
59	MG	BA	1902	1/1	0.93	0.33	-	71,71,71,71	0
59	MG	AA	3170	1/1	0.96	0.20	-	32,32,32,32	0
59	MG	BA	2201	1/1	0.86	0.29	-	85,85,85,85	0
59	MG	DA	4209	1/1	0.96	0.18	-	83,83,83,83	0
59	MG	DA	4632	1/1	0.95	0.15	-	71,71,71,71	0
59	MG	CA	2269	1/1	0.54	0.17	-	71,71,71,71	0
59	MG	DA	3767	1/1	0.90	0.45	-	88,88,88,88	0
59	MG	D1	210	1/1	0.87	0.35	-	66,66,66,66	0
59	MG	CB	110	1/1	0.93	0.10	-	39,39,39,39	0
59	MG	AA	4151	1/1	0.73	0.12	-	108,108,108,108	0
59	MG	DA	4622	1/1	0.89	0.37	-	54,54,54,54	0
59	MG	AA	3795	1/1	0.87	0.13	-	106,106,106,106	0
59	MG	BS	102	1/1	0.93	0.06	-	69,69,69,69	0
59	MG	DA	3259	1/1	0.89	0.34	-	60,60,60,60	0
59	MG	DW	106	1/1	0.94	0.19	-	61,61,61,61	0
59	MG	BA	2252	1/1	0.95	0.08	-	70,70,70,70	0
59	MG	DA	4336	1/1	0.86	0.28	-	73,73,73,73	0
59	MG	BA	2005	1/1	0.92	0.04	-	75,75,75,75	0
59	MG	BA	1724	1/1	0.34	0.34	-	100,100,100,100	0
59	MG	DQ	202	1/1	0.95	0.14	-	42,42,42,42	0
59	MG	AA	3679	1/1	0.90	0.41	-	70,70,70,70	0
59	MG	CA	1885	1/1	0.85	0.29	-	49,49,49,49	0
59	MG	AA	3348	1/1	0.98	0.13	-	26,26,26,26	0
59	MG	AA	3868	1/1	0.56	0.19	-	80,80,80,80	0
59	MG	CA	1959	1/1	0.87	0.17	-	56,56,56,56	0
59	MG	AA	4041	1/1	0.61	0.28	-	101,101,101,101	0
59	MG	AA	3486	1/1	0.94	0.19	-	60,60,60,60	0
59	MG	CA	2124	1/1	0.80	0.41	-	94,94,94,94	0
59	MG	CB	118	1/1	0.90	0.09	-	73,73,73,73	0
59	MG	DA	5035	1/1	0.92	0.24	-	51,51,51,51	0
59	MG	DA	4076	1/1	0.98	0.11	-	27,27,27,27	0
59	MG	DA	3482	1/1	0.98	0.12	-	39,39,39,39	0
59	MG	DA	3882	1/1	0.84	0.36	-	43,43,43,43	0
59	MG	DA	4793	1/1	0.75	0.27	-	86,86,86,86	0
59	MG	AA	3478	1/1	0.88	0.15	-	59,59,59,59	0
59	MG	AA	3754	1/1	0.94	0.13	-	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	2098	1/1	0.94	0.29	-	73,73,73,73	0
59	MG	BA	2179	1/1	0.88	0.14	-	101,101,101,101	0
59	MG	AA	4092	1/1	0.94	0.16	-	90,90,90,90	0
59	MG	DA	4330	1/1	0.91	0.14	-	56,56,56,56	0
59	MG	DA	3540	1/1	0.95	0.22	-	74,74,74,74	0
59	MG	DA	3736	1/1	0.84	0.17	-	100,100,100,100	0
59	MG	DA	4033	1/1	0.95	0.22	-	103,103,103,103	0
59	MG	DV	305	1/1	0.65	0.35	-	86,86,86,86	0
59	MG	CA	2295	1/1	0.52	0.19	-	110,110,110,110	0
59	MG	AA	3307	1/1	0.93	0.19	-	50,50,50,50	0
59	MG	AA	3907	1/1	0.94	1.04	-	57,57,57,57	0
59	MG	AA	3114	1/1	0.81	0.33	-	97,97,97,97	0
59	MG	DA	4510	1/1	0.90	0.38	-	78,78,78,78	0
59	MG	DA	3871	1/1	0.97	0.45	-	49,49,49,49	0
59	MG	AA	3792	1/1	0.85	0.53	-	82,82,82,82	0
59	MG	BA	2072	1/1	0.93	0.14	-	72,72,72,72	0
59	MG	DA	4927	1/1	0.52	0.21	-	160,160,160,160	0
59	MG	DA	3817	1/1	0.96	0.17	-	46,46,46,46	0
59	MG	BA	1780	1/1	0.84	0.47	-	85,85,85,85	0
59	MG	DA	4243	1/1	0.93	0.17	-	59,59,59,59	0
59	MG	CA	2245	1/1	0.93	0.41	-	133,133,133,133	0
59	MG	BA	1801	1/1	0.92	0.23	-	40,40,40,40	0
59	MG	CA	2284	1/1	0.58	0.15	-	85,85,85,85	0
59	MG	AA	3161	1/1	0.71	0.18	-	63,63,63,63	0
59	MG	AA	3609	1/1	0.97	0.14	-	72,72,72,72	0
59	MG	AA	3233	1/1	0.92	0.20	-	55,55,55,55	0
59	MG	DS	207	1/1	0.66	0.35	-	109,109,109,109	0
59	MG	DA	4722	1/1	0.95	0.15	-	109,109,109,109	0
59	MG	AA	3269	1/1	0.94	0.26	-	61,61,61,61	0
59	MG	DA	3844	1/1	0.80	0.20	-	109,109,109,109	0
59	MG	DA	4073	1/1	0.93	0.32	-	106,106,106,106	0
59	MG	AD	309	1/1	0.95	0.35	-	48,48,48,48	0
59	MG	DA	3139	1/1	0.94	0.28	-	45,45,45,45	0
59	MG	CC	125	1/1	0.87	0.14	-	52,52,52,52	0
59	MG	AA	3365	1/1	0.97	0.25	-	39,39,39,39	0
59	MG	DA	3342	1/1	0.90	0.30	-	55,55,55,55	0
59	MG	DA	4016	1/1	0.96	0.07	-	40,40,40,40	0
59	MG	BA	1821	1/1	0.15	0.19	-	93,93,93,93	0
59	MG	DA	4519	1/1	0.93	0.13	-	118,118,118,118	0
59	MG	DA	4105	1/1	0.89	0.17	-	62,62,62,62	0
59	MG	BA	2094	1/1	0.92	0.13	-	50,50,50,50	0
59	MG	DA	4428	1/1	0.94	0.16	-	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	1669	1/1	0.96	0.25	-	32,32,32,32	0
59	MG	CM	201	1/1	0.91	0.22	-	74,74,74,74	0
59	MG	DB	264	1/1	0.93	0.13	-	44,44,44,44	0
59	MG	DA	4422	1/1	0.87	0.31	-	71,71,71,71	0
59	MG	BA	1897	1/1	0.91	0.21	-	65,65,65,65	0
59	MG	AA	3566	1/1	0.82	0.19	-	65,65,65,65	0
59	MG	CA	2258	1/1	0.83	0.18	-	75,75,75,75	0
59	MG	CD	108	1/1	0.74	0.42	-	97,97,97,97	0
59	MG	DA	4711	1/1	0.99	0.15	-	94,94,94,94	0
59	MG	AA	3810	1/1	0.86	0.28	-	85,85,85,85	0
59	MG	AB	228	1/1	0.96	0.10	-	64,64,64,64	0
59	MG	DA	3213	1/1	0.92	0.39	-	53,53,53,53	0
59	MG	AA	3713	1/1	0.88	0.20	-	83,83,83,83	0
59	MG	CA	2263	1/1	0.62	0.39	-	98,98,98,98	0
59	MG	BA	2223	1/1	0.93	0.30	-	71,71,71,71	0
59	MG	A7	103	1/1	0.87	0.30	-	45,45,45,45	0
59	MG	DB	235	1/1	0.88	0.22	-	65,65,65,65	0
59	MG	DA	3444	1/1	0.98	0.36	-	56,56,56,56	0
59	MG	DA	4280	1/1	0.87	0.08	-	91,91,91,91	0
59	MG	DA	4865	1/1	0.78	0.26	-	67,67,67,67	0
59	MG	BA	1760	1/1	0.96	0.23	-	85,85,85,85	0
59	MG	CC	123	1/1	0.81	0.17	-	74,74,74,74	0
59	MG	AA	3876	1/1	0.89	0.16	-	67,67,67,67	0
59	MG	CC	116	1/1	0.90	0.10	-	66,66,66,66	0
59	MG	AA	3071	1/1	0.76	0.31	-	16,16,16,16	0
59	MG	DF	313	1/1	0.91	0.16	-	68,68,68,68	0
59	MG	CA	2216	1/1	0.83	0.16	-	89,89,89,89	0
59	MG	AA	3634	1/1	0.96	0.28	-	52,52,52,52	0
59	MG	DA	5065	1/1	0.70	0.38	-	89,89,89,89	0
59	MG	BA	1809	1/1	0.92	0.14	-	114,114,114,114	0
59	MG	AA	3997	1/1	0.81	0.16	-	78,78,78,78	0
59	MG	BA	2243	1/1	0.63	0.55	-	114,114,114,114	0
59	MG	DA	4492	1/1	0.65	0.34	-	66,66,66,66	0
59	MG	CA	2256	1/1	0.90	0.24	-	110,110,110,110	0
59	MG	DD	313	1/1	0.83	0.15	-	64,64,64,64	0
59	MG	DA	3235	1/1	0.96	0.13	-	25,25,25,25	0
59	MG	AA	3741	1/1	0.98	0.22	-	63,63,63,63	0
59	MG	DA	3516	1/1	0.91	0.21	-	53,53,53,53	0
59	MG	AA	3318	1/1	0.94	0.28	-	65,65,65,65	0
59	MG	CA	2079	1/1	0.92	0.24	-	83,83,83,83	0
59	MG	AA	3959	1/1	0.84	0.33	-	96,96,96,96	0
59	MG	CA	2305	1/1	0.85	0.25	-	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3296	1/1	0.96	0.19	-	19,19,19,19	0
59	MG	DA	4989	1/1	0.89	0.25	-	66,66,66,66	0
59	MG	DA	3277	1/1	0.82	0.43	-	67,67,67,67	0
59	MG	BA	1634	1/1	0.97	0.27	-	37,37,37,37	0
59	MG	CA	2063	1/1	0.74	0.17	-	78,78,78,78	0
59	MG	BA	1910	1/1	0.91	0.09	-	59,59,59,59	0
59	MG	CD	123	1/1	0.73	0.25	-	120,120,120,120	0
59	MG	DA	4403	1/1	0.84	0.28	-	83,83,83,83	0
59	MG	DA	3015	1/1	0.96	0.25	-	30,30,30,30	0
59	MG	DA	3822	1/1	0.89	0.30	-	55,55,55,55	0
59	MG	CA	2203	1/1	0.94	0.11	-	84,84,84,84	0
59	MG	D6	101	1/1	0.94	0.27	-	63,63,63,63	0
59	MG	AA	3070	1/1	0.97	0.14	-	35,35,35,35	0
59	MG	AA	3189	1/1	0.83	0.13	-	52,52,52,52	0
59	MG	CA	1925	1/1	0.47	0.51	-	115,115,115,115	0
59	MG	AA	3121	1/1	0.95	0.30	-	85,85,85,85	0
59	MG	CA	2273	1/1	0.80	0.14	-	65,65,65,65	0
59	MG	DA	3986	1/1	0.91	0.19	-	51,51,51,51	0
59	MG	DB	219	1/1	0.74	0.30	-	70,70,70,70	0
59	MG	AA	3894	1/1	0.57	0.31	-	86,86,86,86	0
59	MG	DA	3546	1/1	0.98	0.28	-	29,29,29,29	0
59	MG	DA	3969	1/1	0.95	0.12	-	48,48,48,48	0
59	MG	BX	101	1/1	0.73	0.25	-	74,74,74,74	0
59	MG	AA	3843	1/1	0.95	0.18	-	81,81,81,81	0
59	MG	DA	4460	1/1	0.98	0.14	-	61,61,61,61	0
59	MG	DA	4815	1/1	0.69	0.25	-	53,53,53,53	0
59	MG	AA	3878	1/1	0.64	0.21	-	84,84,84,84	0
59	MG	CA	1811	1/1	0.97	0.06	-	46,46,46,46	0
59	MG	CA	1681	1/1	0.95	0.18	-	24,24,24,24	0
59	MG	CB	114	1/1	0.34	0.16	-	71,71,71,71	0
59	MG	DA	4906	1/1	0.89	0.26	-	96,96,96,96	0
59	MG	AA	4067	1/1	0.91	0.19	-	86,86,86,86	0
59	MG	DA	4568	1/1	0.90	0.28	-	55,55,55,55	0
59	MG	D5	103	1/1	0.95	0.19	-	32,32,32,32	0
59	MG	AA	3163	1/1	0.85	0.22	-	65,65,65,65	0
59	MG	CA	2262	1/1	0.92	0.09	-	61,61,61,61	0
59	MG	DA	3762	1/1	0.94	0.18	-	89,89,89,89	0
59	MG	DA	4354	1/1	0.90	0.30	-	65,65,65,65	0
59	MG	CA	1675	1/1	0.87	0.32	-	53,53,53,53	0
59	MG	DA	5049	1/1	0.91	0.29	-	80,80,80,80	0
59	MG	DA	3659	1/1	0.84	0.23	-	61,61,61,61	0
59	MG	DA	4779	1/1	0.60	0.52	-	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	4160	1/1	0.80	0.26	-	74,74,74,74	0
59	MG	CA	1726	1/1	0.90	0.18	-	48,48,48,48	0
59	MG	CA	1787	1/1	0.83	0.08	-	59,59,59,59	0
59	MG	DA	4426	1/1	0.91	0.49	-	75,75,75,75	0
59	MG	DA	3861	1/1	0.94	0.19	-	77,77,77,77	0
59	MG	AA	3969	1/1	0.91	0.15	-	60,60,60,60	0
59	MG	DA	4620	1/1	0.76	0.24	-	84,84,84,84	0
59	MG	DA	4761	1/1	0.82	0.30	-	78,78,78,78	0
59	MG	AA	3027	1/1	0.90	0.17	-	60,60,60,60	0
59	MG	D7	105	1/1	0.85	0.17	-	52,52,52,52	0
59	MG	AB	223	1/1	0.71	0.17	-	112,112,112,112	0
59	MG	DA	3350	1/1	0.95	0.14	-	50,50,50,50	0
59	MG	DA	3395	1/1	0.94	0.37	-	42,42,42,42	0
59	MG	DA	3993	1/1	0.92	0.21	-	51,51,51,51	0
59	MG	AA	3775	1/1	0.78	0.48	-	91,91,91,91	0
59	MG	DA	4550	1/1	0.97	0.20	-	61,61,61,61	0
59	MG	DA	3849	1/1	0.94	0.12	-	63,63,63,63	0
59	MG	DA	3148	1/1	0.91	0.46	-	67,67,67,67	0
59	MG	AA	3695	1/1	0.92	0.15	-	49,49,49,49	0
59	MG	AA	3973	1/1	0.79	0.16	-	86,86,86,86	0
59	MG	AA	3941	1/1	0.92	0.16	-	57,57,57,57	0
59	MG	AA	3593	1/1	0.72	0.20	-	80,80,80,80	0
59	MG	AA	3347	1/1	0.89	0.21	-	66,66,66,66	0
59	MG	DA	3943	1/1	0.93	0.08	-	47,47,47,47	0
59	MG	DA	4342	1/1	0.87	0.28	-	93,93,93,93	0
59	MG	DA	4660	1/1	0.78	0.24	-	73,73,73,73	0
59	MG	CA	1884	1/1	0.94	0.14	-	64,64,64,64	0
59	MG	DA	4264	1/1	0.88	0.17	-	58,58,58,58	0
59	MG	DA	4845	1/1	0.94	0.60	-	43,43,43,43	0
59	MG	DA	3738	1/1	0.96	0.14	-	45,45,45,45	0
59	MG	AA	3764	1/1	0.97	0.17	-	53,53,53,53	0
59	MG	CA	2135	1/1	0.89	0.07	-	92,92,92,92	0
59	MG	DA	4829	1/1	0.65	0.29	-	106,106,106,106	0
59	MG	BA	1956	1/1	0.57	0.59	-	111,111,111,111	0
59	MG	DA	3570	1/1	0.88	0.38	-	71,71,71,71	0
59	MG	DA	4587	1/1	0.77	0.20	-	71,71,71,71	0
59	MG	DA	4869	1/1	0.88	0.24	-	44,44,44,44	0
59	MG	BA	2075	1/1	0.85	0.53	-	101,101,101,101	0
59	MG	BD	125	1/1	0.71	0.30	-	105,105,105,105	0
59	MG	AA	3414	1/1	0.88	0.28	-	56,56,56,56	0
59	MG	CA	1948	1/1	0.86	0.11	-	97,97,97,97	0
59	MG	AA	3346	1/1	0.71	0.27	-	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	2018	1/1	0.69	0.24	-	84,84,84,84	0
59	MG	BA	2081	1/1	0.73	0.28	-	69,69,69,69	0
59	MG	AA	3115	1/1	0.92	0.36	-	76,76,76,76	0
59	MG	DA	4494	1/1	0.76	0.34	-	84,84,84,84	0
59	MG	DA	3150	1/1	0.94	0.29	-	39,39,39,39	0
59	MG	CA	2150	1/1	0.82	0.17	-	85,85,85,85	0
59	MG	DA	4167	1/1	0.99	0.28	-	44,44,44,44	0
59	MG	AA	3654	1/1	0.94	0.18	-	59,59,59,59	0
59	MG	BA	1806	1/1	0.87	0.16	-	78,78,78,78	0
59	MG	CA	1932	1/1	0.94	0.22	-	51,51,51,51	0
59	MG	BC	108	1/1	0.93	0.13	-	81,81,81,81	0
59	MG	BA	1846	1/1	0.93	0.13	-	63,63,63,63	0
59	MG	AA	3697	1/1	0.84	0.28	-	78,78,78,78	0
59	MG	CA	1858	1/1	0.73	0.13	-	73,73,73,73	0
59	MG	DA	4783	1/1	0.51	0.38	-	93,93,93,93	0
59	MG	DA	4493	1/1	0.86	0.30	-	107,107,107,107	0
59	MG	DA	3691	1/1	0.92	0.16	-	69,69,69,69	0
59	MG	CA	1713	1/1	0.98	0.42	-	57,57,57,57	0
59	MG	AA	3495	1/1	0.94	0.27	-	56,56,56,56	0
59	MG	DA	3766	1/1	0.78	0.24	-	77,77,77,77	0
59	MG	BA	1728	1/1	0.93	0.14	-	47,47,47,47	0
59	MG	DA	3206	1/1	0.72	0.30	-	76,76,76,76	0
59	MG	DA	3912	1/1	0.76	0.23	-	89,89,89,89	0
59	MG	CA	1770	1/1	0.86	0.16	-	56,56,56,56	0
59	MG	CA	2147	1/1	0.89	0.16	-	69,69,69,69	0
59	MG	DA	4987	1/1	0.98	0.32	-	37,37,37,37	0
59	MG	DA	3764	1/1	0.95	0.19	-	98,98,98,98	0
59	MG	BA	1923	1/1	0.78	0.34	-	81,81,81,81	0
59	MG	BA	1633	1/1	0.90	0.20	-	45,45,45,45	0
59	MG	DA	4084	1/1	0.77	0.27	-	79,79,79,79	0
59	MG	AA	4150	1/1	0.64	0.22	-	82,82,82,82	0
59	MG	DA	3851	1/1	0.90	0.23	-	72,72,72,72	0
59	MG	AA	3299	1/1	0.96	0.12	-	82,82,82,82	0
59	MG	AA	3732	1/1	0.77	0.12	-	76,76,76,76	0
59	MG	BA	2026	1/1	0.88	0.11	-	128,128,128,128	0
59	MG	CA	2170	1/1	0.86	0.11	-	70,70,70,70	0
59	MG	AA	3674	1/1	0.91	0.24	-	61,61,61,61	0
59	MG	CA	2236	1/1	0.52	0.29	-	104,104,104,104	0
59	MG	CA	2098	1/1	0.93	0.09	-	64,64,64,64	0
59	MG	DA	5004	1/1	0.89	0.25	-	80,80,80,80	0
59	MG	AA	3218	1/1	0.63	0.24	-	65,65,65,65	0
59	MG	CA	2289	1/1	0.89	0.18	-	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	1636	1/1	0.97	0.16	-	16,16,16,16	0
59	MG	DA	4796	1/1	0.97	0.26	-	45,45,45,45	0
59	MG	DA	4538	1/1	0.93	0.27	-	92,92,92,92	0
59	MG	AA	3053	1/1	0.99	0.15	-	30,30,30,30	0
59	MG	AA	3892	1/1	0.89	0.29	-	84,84,84,84	0
59	MG	CA	2129	1/1	0.75	0.19	-	75,75,75,75	0
59	MG	BM	202	1/1	0.90	0.32	-	81,81,81,81	0
59	MG	DA	3923	1/1	0.96	0.17	-	70,70,70,70	0
59	MG	BA	1815	1/1	0.75	0.22	-	119,119,119,119	0
59	MG	AA	3367	1/1	0.85	0.28	-	49,49,49,49	0
59	MG	AU	205	1/1	0.90	0.18	-	69,69,69,69	0
59	MG	DA	3178	1/1	0.94	0.27	-	49,49,49,49	0
59	MG	BA	1835	1/1	0.90	0.25	-	72,72,72,72	0
59	MG	DA	3647	1/1	-0.04	0.80	-	108,108,108,108	0
59	MG	AA	4022	1/1	0.84	0.17	-	62,62,62,62	0
59	MG	AA	3204	1/1	0.96	0.09	-	68,68,68,68	0
59	MG	CA	2189	1/1	0.96	0.09	-	77,77,77,77	0
59	MG	DA	4805	1/1	0.88	0.33	-	74,74,74,74	0
59	MG	AB	214	1/1	0.77	0.31	-	105,105,105,105	0
59	MG	AA	3485	1/1	0.81	0.36	-	91,91,91,91	0
59	MG	DA	4533	1/1	0.83	0.53	-	88,88,88,88	0
59	MG	DA	3430	1/1	0.94	0.19	-	60,60,60,60	0
59	MG	DA	3157	1/1	0.92	0.40	-	58,58,58,58	0
59	MG	CA	1828	1/1	0.72	0.35	-	100,100,100,100	0
59	MG	DA	4474	1/1	0.74	0.62	-	54,54,54,54	0
59	MG	C1	103	1/1	0.92	0.13	-	64,64,64,64	0
59	MG	BA	2266	1/1	0.90	0.14	-	91,91,91,91	0
59	MG	DA	4844	1/1	0.97	0.12	-	58,58,58,58	0
59	MG	DA	4392	1/1	0.93	0.14	-	52,52,52,52	0
59	MG	DA	3728	1/1	0.86	0.27	-	42,42,42,42	0
59	MG	DA	3107	1/1	0.92	0.17	-	43,43,43,43	0
59	MG	DA	3733	1/1	0.96	0.10	-	40,40,40,40	0
59	MG	CA	1799	1/1	0.64	0.19	-	85,85,85,85	0
59	MG	BA	1968	1/1	0.71	0.50	-	96,96,96,96	0
59	MG	BA	1960	1/1	0.88	0.14	-	68,68,68,68	0
59	MG	CA	2007	1/1	0.85	0.31	-	78,78,78,78	0
59	MG	CA	1602	1/1	0.93	0.16	-	89,89,89,89	0
59	MG	CA	2127	1/1	0.86	0.43	-	88,88,88,88	0
59	MG	CA	2163	1/1	0.95	0.19	-	61,61,61,61	0
59	MG	BE	304	1/1	0.85	0.37	-	85,85,85,85	0
59	MG	DA	4996	1/1	0.88	0.18	-	85,85,85,85	0
59	MG	DA	3081	1/1	0.94	0.34	-	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	2268	1/1	0.86	0.27	-	86,86,86,86	0
59	MG	AA	3739	1/1	0.79	0.21	-	86,86,86,86	0
59	MG	DA	3803	1/1	0.94	0.14	-	54,54,54,54	0
59	MG	AA	3990	1/1	0.72	0.56	-	134,134,134,134	0
59	MG	CA	2309	1/1	0.87	0.31	-	92,92,92,92	0
59	MG	BA	2125	1/1	0.88	0.11	-	65,65,65,65	0
59	MG	DA	4291	1/1	0.98	0.13	-	58,58,58,58	0
59	MG	DA	3763	1/1	0.96	0.21	-	8,8,8,8	0
59	MG	AA	3831	1/1	0.84	0.13	-	77,77,77,77	0
59	MG	DA	4397	1/1	0.85	0.13	-	56,56,56,56	0
59	MG	BA	2271	1/1	0.95	0.30	-	106,106,106,106	0
59	MG	CA	1724	1/1	0.99	0.20	-	45,45,45,45	0
59	MG	BA	2261	1/1	0.88	0.07	-	81,81,81,81	0
59	MG	BA	1820	1/1	0.87	0.13	-	84,84,84,84	0
59	MG	AA	3345	1/1	0.91	0.23	-	55,55,55,55	0
59	MG	DA	4828	1/1	0.84	0.29	-	103,103,103,103	0
59	MG	BA	2227	1/1	0.88	0.32	-	72,72,72,72	0
59	MG	DA	4798	1/1	0.84	0.11	-	72,72,72,72	0
59	MG	DA	3465	1/1	0.86	0.38	-	56,56,56,56	0
59	MG	CA	1991	1/1	0.95	0.12	-	76,76,76,76	0
59	MG	DA	4848	1/1	0.91	0.21	-	67,67,67,67	0
59	MG	AA	3605	1/1	0.77	0.12	-	66,66,66,66	0
59	MG	DA	4759	1/1	0.90	0.32	-	91,91,91,91	0
59	MG	AA	3372	1/1	0.94	0.14	-	52,52,52,52	0
59	MG	CA	2062	1/1	0.31	0.28	-	85,85,85,85	0
59	MG	DA	3913	1/1	0.79	0.32	-	120,120,120,120	0
59	MG	DA	4174	1/1	0.91	0.20	-	49,49,49,49	0
59	MG	AA	3900	1/1	0.93	0.32	-	105,105,105,105	0
59	MG	AA	3073	1/1	0.30	0.34	-	71,71,71,71	0
59	MG	DA	4742	1/1	0.76	0.17	-	128,128,128,128	0
59	MG	AA	4148	1/1	0.94	0.28	-	87,87,87,87	0
59	MG	DA	3954	1/1	0.89	0.44	-	52,52,52,52	0
59	MG	DA	3467	1/1	0.95	0.45	-	75,75,75,75	0
59	MG	AA	3572	1/1	0.89	0.14	-	64,64,64,64	0
59	MG	CP	202	1/1	0.90	0.16	-	63,63,63,63	0
59	MG	DA	3779	1/1	0.95	0.35	-	155,155,155,155	0
59	MG	DA	3619	1/1	0.82	0.17	-	59,59,59,59	0
59	MG	CA	2249	1/1	0.93	0.09	-	68,68,68,68	0
59	MG	DA	3031	1/1	0.98	0.23	-	3,3,3,3	0
59	MG	AA	4027	1/1	0.90	0.22	-	72,72,72,72	0
59	MG	BA	1980	1/1	0.90	0.09	-	102,102,102,102	0
59	MG	AA	3590	1/1	0.87	0.10	-	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	2089	1/1	0.86	0.09	-	56,56,56,56	0
59	MG	BA	2272	1/1	0.87	0.23	-	75,75,75,75	0
59	MG	AA	4122	1/1	0.94	0.07	-	83,83,83,83	0
59	MG	DA	3113	1/1	0.71	0.28	-	73,73,73,73	0
59	MG	DA	4684	1/1	0.95	0.11	-	36,36,36,36	0
59	MG	CA	2254	1/1	0.97	0.18	-	56,56,56,56	0
59	MG	BA	2188	1/1	0.79	0.37	-	102,102,102,102	0
59	MG	CA	1920	1/1	0.70	0.32	-	85,85,85,85	0
59	MG	BA	2028	1/1	0.78	0.26	-	77,77,77,77	0
59	MG	DA	3965	1/1	0.98	0.07	-	78,78,78,78	0
59	MG	DA	4038	1/1	0.90	0.54	-	103,103,103,103	0
59	MG	DO	216	1/1	0.81	0.35	-	58,58,58,58	0
59	MG	BA	2260	1/1	0.95	0.18	-	77,77,77,77	0
59	MG	DA	4816	1/1	0.92	0.22	-	66,66,66,66	0
59	MG	DA	4784	1/1	0.72	0.17	-	74,74,74,74	0
59	MG	BA	2185	1/1	0.94	0.41	-	81,81,81,81	0
59	MG	DA	3755	1/1	0.91	0.09	-	70,70,70,70	0
59	MG	DA	3292	1/1	0.99	0.11	-	48,48,48,48	0
59	MG	DA	3188	1/1	0.88	0.26	-	60,60,60,60	0
59	MG	BA	2108	1/1	0.93	0.22	-	154,154,154,154	0
59	MG	DA	4254	1/1	0.91	0.46	-	83,83,83,83	0
59	MG	AB	233	1/1	0.62	0.22	-	86,86,86,86	0
59	MG	AA	3428	1/1	0.76	0.42	-	101,101,101,101	0
59	MG	AA	3031	1/1	0.95	0.06	-	34,34,34,34	0
59	MG	AA	3587	1/1	0.96	0.12	-	55,55,55,55	0
59	MG	AA	4089	1/1	0.78	0.16	-	107,107,107,107	0
59	MG	DB	272	1/1	0.92	0.13	-	81,81,81,81	0
59	MG	BA	1830	1/1	0.76	0.30	-	90,90,90,90	0
59	MG	DA	3999	1/1	0.97	0.26	-	83,83,83,83	0
59	MG	CA	1764	1/1	0.91	0.08	-	48,48,48,48	0
59	MG	CA	2300	1/1	0.92	0.16	-	119,119,119,119	0
59	MG	BA	2149	1/1	0.51	0.17	-	82,82,82,82	0
59	MG	DA	4788	1/1	0.87	0.10	-	97,97,97,97	0
59	MG	DA	3553	1/1	0.93	0.39	-	89,89,89,89	0
59	MG	DA	3159	1/1	0.95	0.15	-	47,47,47,47	0
59	MG	AA	3332	1/1	0.84	0.10	-	83,83,83,83	0
59	MG	DA	4290	1/1	0.91	0.45	-	74,74,74,74	0
59	MG	BA	1817	1/1	0.61	0.15	-	63,63,63,63	0
59	MG	AA	3145	1/1	0.90	0.25	-	61,61,61,61	0
59	MG	BA	1974	1/1	0.89	0.28	-	109,109,109,109	0
59	MG	D0	208	1/1	0.83	0.24	-	72,72,72,72	0
59	MG	BA	1872	1/1	0.88	0.27	-	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	1954	1/1	0.95	0.19	-	104,104,104,104	0
59	MG	DA	3360	1/1	0.96	0.28	-	36,36,36,36	0
59	MG	CC	104	1/1	0.93	0.08	-	23,23,23,23	0
59	MG	DA	4859	1/1	0.82	0.22	-	91,91,91,91	0
59	MG	DF	306	1/1	0.95	0.31	-	46,46,46,46	0
59	MG	CA	2069	1/1	0.90	0.09	-	74,74,74,74	0
59	MG	DA	3520	1/1	0.86	0.22	-	95,95,95,95	0
59	MG	CA	1878	1/1	0.87	0.15	-	26,26,26,26	0
59	MG	BA	1875	1/1	0.93	0.08	-	125,125,125,125	0
59	MG	BA	1769	1/1	0.70	0.29	-	87,87,87,87	0
59	MG	DA	4395	1/1	0.98	0.18	-	46,46,46,46	0
59	MG	BA	1737	1/1	0.89	0.27	-	59,59,59,59	0
59	MG	BA	1704	1/1	0.84	0.17	-	67,67,67,67	0
59	MG	D3	104	1/1	0.94	0.19	-	32,32,32,32	0
59	MG	BA	2043	1/1	0.53	0.17	-	109,109,109,109	0
59	MG	BA	2087	1/1	0.83	0.20	-	81,81,81,81	0
59	MG	CA	2090	1/1	0.96	0.12	-	69,69,69,69	0
59	MG	DA	4725	1/1	0.99	0.21	-	56,56,56,56	0
59	MG	DA	4683	1/1	0.90	0.32	-	100,100,100,100	0
59	MG	DA	4879	1/1	0.74	0.53	-	62,62,62,62	0
59	MG	DA	4201	1/1	0.66	0.14	-	57,57,57,57	0
59	MG	AA	3205	1/1	0.88	0.30	-	71,71,71,71	0
59	MG	DA	3613	1/1	0.77	0.31	-	68,68,68,68	0
59	MG	DA	4838	1/1	0.71	0.34	-	67,67,67,67	0
59	MG	DA	4790	1/1	0.96	0.12	-	53,53,53,53	0
59	MG	CA	1672	1/1	0.90	0.27	-	57,57,57,57	0
59	MG	BA	1851	1/1	0.77	0.28	-	142,142,142,142	0
59	MG	CA	1865	1/1	0.87	0.19	-	67,67,67,67	0
59	MG	AA	3471	1/1	0.91	0.17	-	77,77,77,77	0
59	MG	AA	3008	1/1	0.90	0.24	-	31,31,31,31	0
59	MG	AA	3819	1/1	0.55	0.26	-	94,94,94,94	0
59	MG	AA	3029	1/1	0.93	0.20	-	46,46,46,46	0
59	MG	DA	4803	1/1	0.61	0.29	-	82,82,82,82	0
59	MG	DA	5072	1/1	0.91	0.15	-	58,58,58,58	0
59	MG	DA	4455	1/1	0.86	0.21	-	45,45,45,45	0
59	MG	DA	3924	1/1	0.93	0.16	-	48,48,48,48	0
59	MG	DN	202	1/1	0.90	0.12	-	65,65,65,65	0
59	MG	DA	4269	1/1	0.80	0.53	-	72,72,72,72	0
59	MG	BA	1768	1/1	0.86	0.19	-	75,75,75,75	0
59	MG	CA	1732	1/1	0.86	0.17	-	48,48,48,48	0
59	MG	DA	4061	1/1	0.97	0.09	-	54,54,54,54	0
59	MG	DA	3739	1/1	0.83	0.17	-	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	1848	1/1	0.93	0.10	-	56,56,56,56	0
59	MG	DA	3270	1/1	0.90	0.24	-	90,90,90,90	0
59	MG	BA	1895	1/1	0.96	0.26	-	54,54,54,54	0
59	MG	BA	1762	1/1	0.81	0.29	-	78,78,78,78	0
59	MG	DA	4046	1/1	0.92	0.10	-	52,52,52,52	0
59	MG	DA	5029	1/1	0.97	0.28	-	39,39,39,39	0
59	MG	DA	4559	1/1	0.86	0.26	-	52,52,52,52	0
59	MG	DA	3210	1/1	0.95	0.21	-	32,32,32,32	0
59	MG	AA	3621	1/1	0.96	0.04	-	46,46,46,46	0
59	MG	DA	4352	1/1	0.86	0.30	-	69,69,69,69	0
59	MG	DY	202	1/1	0.69	0.18	-	91,91,91,91	0
59	MG	DA	4540	1/1	0.78	0.24	-	88,88,88,88	0
59	MG	DA	3765	1/1	0.84	0.28	-	61,61,61,61	0
59	MG	DA	3311	1/1	0.86	0.19	-	65,65,65,65	0
59	MG	DA	3315	1/1	0.93	0.26	-	28,28,28,28	0
59	MG	AA	3248	1/1	0.91	0.33	-	78,78,78,78	0
59	MG	DA	4074	1/1	0.96	0.19	-	54,54,54,54	0
59	MG	AA	3853	1/1	0.80	0.15	-	55,55,55,55	0
59	MG	DA	3990	1/1	0.87	0.13	-	31,31,31,31	0
59	MG	DA	5032	1/1	0.73	0.27	-	82,82,82,82	0
59	MG	BA	1966	1/1	0.88	0.16	-	82,82,82,82	0
59	MG	CA	2197	1/1	0.86	0.13	-	107,107,107,107	0
59	MG	CA	1626	1/1	0.93	0.19	-	38,38,38,38	0
59	MG	DA	4553	1/1	0.97	0.20	-	69,69,69,69	0
59	MG	DA	4888	1/1	0.91	0.43	-	76,76,76,76	0
59	MG	DA	4623	1/1	0.92	0.17	-	47,47,47,47	0
59	MG	BA	2084	1/1	0.85	0.29	-	90,90,90,90	0
59	MG	DA	3759	1/1	0.94	0.13	-	84,84,84,84	0
59	MG	AA	3441	1/1	0.69	0.17	-	102,102,102,102	0
59	MG	DA	4445	1/1	0.96	0.18	-	21,21,21,21	0
59	MG	DA	3102	1/1	0.88	0.32	-	61,61,61,61	0
59	MG	DA	4289	1/1	0.94	0.31	-	53,53,53,53	0
59	MG	DA	4565	1/1	0.97	0.24	-	119,119,119,119	0
59	MG	DA	4820	1/1	0.88	0.22	-	56,56,56,56	0
59	MG	AA	4117	1/1	0.97	0.06	-	96,96,96,96	0
59	MG	BA	2116	1/1	0.90	0.06	-	54,54,54,54	0
59	MG	CA	1857	1/1	0.90	0.27	-	105,105,105,105	0
59	MG	AA	4008	1/1	0.96	0.25	-	78,78,78,78	0
59	MG	AA	3061	1/1	0.93	0.21	-	35,35,35,35	0
59	MG	AA	3517	1/1	0.83	0.27	-	69,69,69,69	0
59	MG	AA	3270	1/1	0.88	0.25	-	72,72,72,72	0
59	MG	AA	3895	1/1	0.81	0.09	-	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	1656	1/1	0.82	0.18	-	57,57,57,57	0
59	MG	DA	3203	1/1	0.93	0.44	-	59,59,59,59	0
59	MG	CA	1692	1/1	0.88	0.11	-	51,51,51,51	0
59	MG	DA	4930	1/1	0.93	0.25	-	73,73,73,73	0
59	MG	AA	3849	1/1	0.93	0.39	-	59,59,59,59	0
59	MG	DA	4835	1/1	0.98	0.11	-	65,65,65,65	0
59	MG	AA	3920	1/1	0.71	0.17	-	85,85,85,85	0
59	MG	CA	1633	1/1	0.86	0.52	-	105,105,105,105	0
59	MG	BA	1701	1/1	0.92	0.13	-	59,59,59,59	0
59	MG	AA	3037	1/1	0.75	0.36	-	107,107,107,107	0
59	MG	DA	4373	1/1	0.93	0.20	-	62,62,62,62	0
59	MG	BA	1729	1/1	0.81	0.38	-	69,69,69,69	0
59	MG	AA	4085	1/1	0.95	0.07	-	60,60,60,60	0
59	MG	DA	4216	1/1	0.97	0.24	-	52,52,52,52	0
59	MG	CA	1926	1/1	0.88	0.12	-	88,88,88,88	0
59	MG	AR	204	1/1	0.84	0.08	-	76,76,76,76	0
59	MG	DA	3125	1/1	0.98	0.49	-	37,37,37,37	0
59	MG	CA	2275	1/1	0.93	0.23	-	42,42,42,42	0
59	MG	BA	2176	1/1	0.76	0.15	-	99,99,99,99	0
59	MG	AA	3944	1/1	0.86	0.14	-	71,71,71,71	0
59	MG	DA	3323	1/1	0.99	0.21	-	41,41,41,41	0
59	MG	DA	5048	1/1	0.96	0.18	-	64,64,64,64	0
59	MG	DA	3665	1/1	0.77	0.19	-	110,110,110,110	0
59	MG	CK	203	1/1	0.86	0.46	-	68,68,68,68	0
59	MG	DA	3955	1/1	0.59	0.37	-	120,120,120,120	0
59	MG	AA	3777	1/1	0.91	0.11	-	58,58,58,58	0
59	MG	AA	3330	1/1	0.78	0.20	-	111,111,111,111	0
59	MG	DA	4883	1/1	0.72	0.35	-	96,96,96,96	0
59	MG	BA	1893	1/1	0.90	0.07	-	54,54,54,54	0
59	MG	CA	1911	1/1	0.89	0.12	-	56,56,56,56	0
59	MG	AA	3848	1/1	0.46	0.23	-	90,90,90,90	0
59	MG	BA	2063	1/1	0.84	0.11	-	65,65,65,65	0
59	MG	BA	2040	1/1	0.67	0.34	-	93,93,93,93	0
59	MG	BA	1884	1/1	0.95	0.46	-	67,67,67,67	0
59	MG	BD	107	1/1	0.74	0.13	-	71,71,71,71	0
59	MG	DA	3888	1/1	0.96	0.09	-	55,55,55,55	0
59	MG	BA	1605	1/1	0.80	0.10	-	56,56,56,56	0
59	MG	DA	4854	1/1	0.89	0.23	-	66,66,66,66	0
59	MG	BA	2097	1/1	0.55	0.31	-	94,94,94,94	0
59	MG	BA	1865	1/1	0.81	0.12	-	75,75,75,75	0
59	MG	BA	1714	1/1	0.88	0.23	-	69,69,69,69	0
59	MG	DA	4272	1/1	0.97	0.28	-	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3668	1/1	0.66	0.23	-	71,71,71,71	0
59	MG	DA	3266	1/1	0.83	0.34	-	57,57,57,57	0
59	MG	AA	3340	1/1	0.64	0.15	-	90,90,90,90	0
59	MG	AA	3899	1/1	0.95	0.20	-	46,46,46,46	0
59	MG	DA	3007	1/1	0.99	0.33	-	10,10,10,10	0
59	MG	DA	3580	1/1	0.91	0.31	-	58,58,58,58	0
59	MG	DA	3892	1/1	0.88	0.51	-	46,46,46,46	0
59	MG	AA	3646	1/1	0.95	0.11	-	62,62,62,62	0
59	MG	AA	3535	1/1	0.95	0.56	-	58,58,58,58	0
59	MG	BA	2254	1/1	0.98	0.08	-	53,53,53,53	0
59	MG	DA	4751	1/1	0.91	0.20	-	121,121,121,121	0
59	MG	CA	2233	1/1	0.81	0.23	-	60,60,60,60	0
59	MG	DA	4389	1/1	0.95	0.35	-	60,60,60,60	0
59	MG	AB	212	1/1	0.69	0.11	-	83,83,83,83	0
59	MG	DA	3005	1/1	0.96	0.26	-	17,17,17,17	0
59	MG	DA	3013	1/1	0.77	0.22	-	50,50,50,50	0
59	MG	BA	2244	1/1	0.70	0.41	-	113,113,113,113	0
59	MG	DA	3142	1/1	0.87	0.28	-	73,73,73,73	0
59	MG	AA	3639	1/1	0.91	0.29	-	55,55,55,55	0
59	MG	DA	4067	1/1	0.94	0.09	-	39,39,39,39	0
59	MG	DA	3768	1/1	0.92	0.15	-	77,77,77,77	0
59	MG	A3	103	1/1	0.92	0.12	-	55,55,55,55	0
59	MG	CA	2067	1/1	0.97	0.16	-	89,89,89,89	0
59	MG	DA	4348	1/1	0.95	0.33	-	62,62,62,62	0
59	MG	DA	3824	1/1	0.80	0.37	-	73,73,73,73	0
59	MG	CA	1855	1/1	0.74	0.10	-	79,79,79,79	0
59	MG	DA	4560	1/1	0.93	0.15	-	61,61,61,61	0
59	MG	DA	4634	1/1	0.89	0.44	-	82,82,82,82	0
59	MG	DA	4464	1/1	0.96	0.18	-	51,51,51,51	0
59	MG	CG	312	1/1	0.66	0.29	-	104,104,104,104	0
59	MG	AA	3419	1/1	0.71	0.38	-	82,82,82,82	0
59	MG	AA	3476	1/1	0.87	0.16	-	47,47,47,47	0
59	MG	DA	3617	1/1	0.86	0.31	-	82,82,82,82	0
59	MG	AA	3201	1/1	0.93	0.10	-	71,71,71,71	0
59	MG	AA	3563	1/1	0.74	0.23	-	67,67,67,67	0
59	MG	BA	1694	1/1	0.96	0.25	-	47,47,47,47	0
59	MG	DA	4544	1/1	0.84	0.30	-	76,76,76,76	0
59	MG	BA	2222	1/1	0.91	0.08	-	102,102,102,102	0
59	MG	DA	3248	1/1	0.92	0.46	-	70,70,70,70	0
59	MG	CA	2061	1/1	0.89	0.21	-	50,50,50,50	0
59	MG	AA	3641	1/1	0.96	0.13	-	46,46,46,46	0
59	MG	CA	2227	1/1	0.91	0.45	-	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BB	104	1/1	0.93	0.14	-	71,71,71,71	0
59	MG	DA	4735	1/1	0.66	0.37	-	88,88,88,88	0
59	MG	DZ	101	1/1	0.85	0.21	-	87,87,87,87	0
59	MG	CA	1938	1/1	0.86	0.18	-	87,87,87,87	0
59	MG	DA	4433	1/1	0.41	0.17	-	90,90,90,90	0
59	MG	BA	1705	1/1	0.93	0.41	-	52,52,52,52	0
59	MG	DA	4575	1/1	0.77	0.29	-	68,68,68,68	0
59	MG	AA	3490	1/1	0.75	0.15	-	102,102,102,102	0
59	MG	DA	4442	1/1	0.77	0.19	-	49,49,49,49	0
59	MG	AA	3475	1/1	0.90	0.30	-	85,85,85,85	0
59	MG	AA	3825	1/1	0.74	0.29	-	81,81,81,81	0
59	MG	BA	1720	1/1	0.82	0.49	-	95,95,95,95	0
59	MG	DA	4146	1/1	0.96	0.34	-	72,72,72,72	0
59	MG	DA	3285	1/1	0.94	0.40	-	56,56,56,56	0
59	MG	CA	2195	1/1	0.95	0.13	-	76,76,76,76	0
59	MG	AA	3157	1/1	0.93	0.31	-	73,73,73,73	0
59	MG	DA	4586	1/1	0.94	0.24	-	78,78,78,78	0
59	MG	DA	5076	1/1	0.78	0.33	-	85,85,85,85	0
59	MG	DA	3401	1/1	0.90	0.33	-	45,45,45,45	0
59	MG	AA	3589	1/1	0.97	0.28	-	139,139,139,139	0
59	MG	AA	3801	1/1	0.91	0.09	-	90,90,90,90	0
59	MG	DA	4241	1/1	0.88	0.21	-	55,55,55,55	0
59	MG	DB	269	1/1	0.56	0.43	-	91,91,91,91	0
59	MG	BA	1647	1/1	0.82	0.21	-	78,78,78,78	0
59	MG	DA	4194	1/1	0.98	0.14	-	37,37,37,37	0
59	MG	AA	4115	1/1	0.89	0.28	-	73,73,73,73	0
59	MG	AA	3429	1/1	0.94	0.14	-	60,60,60,60	0
59	MG	DA	4942	1/1	0.90	0.09	-	82,82,82,82	0
59	MG	DA	3599	1/1	0.97	0.17	-	6,6,6,6	0
59	MG	AA	3092	1/1	0.97	0.18	-	16,16,16,16	0
59	MG	CA	1693	1/1	0.86	0.21	-	60,60,60,60	0
59	MG	CB	105	1/1	0.72	0.31	-	76,76,76,76	0
59	MG	DA	4664	1/1	0.95	0.14	-	66,66,66,66	0
59	MG	DA	3658	1/1	0.71	0.26	-	60,60,60,60	0
59	MG	AA	3935	1/1	0.85	0.14	-	55,55,55,55	0
59	MG	DA	3080	1/1	0.98	0.37	-	31,31,31,31	0
59	MG	AA	3524	1/1	0.86	0.14	-	50,50,50,50	0
59	MG	DA	3479	1/1	0.93	0.29	-	74,74,74,74	0
59	MG	DA	4214	1/1	0.92	0.18	-	50,50,50,50	0
59	MG	CA	2261	1/1	0.94	0.13	-	66,66,66,66	0
59	MG	CA	1994	1/1	0.61	0.30	-	94,94,94,94	0
59	MG	AA	4147	1/1	0.88	0.22	-	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3592	1/1	0.92	0.16	-	63,63,63,63	0
59	MG	AA	3203	1/1	0.98	0.12	-	40,40,40,40	0
59	MG	DA	3456	1/1	0.89	0.24	-	60,60,60,60	0
59	MG	BA	1659	1/1	0.75	0.11	-	71,71,71,71	0
59	MG	DA	4208	1/1	0.81	0.35	-	74,74,74,74	0
59	MG	DA	3345	1/1	0.81	0.42	-	80,80,80,80	0
59	MG	AA	3915	1/1	0.73	0.32	-	105,105,105,105	0
59	MG	DA	4252	1/1	0.84	0.20	-	60,60,60,60	0
59	MG	AA	4069	1/1	0.90	0.21	-	80,80,80,80	0
59	MG	AA	3837	1/1	0.78	0.28	-	116,116,116,116	0
59	MG	DA	3390	1/1	0.90	0.17	-	83,83,83,83	0
59	MG	DA	3286	1/1	0.95	0.42	-	54,54,54,54	0
59	MG	DA	3383	1/1	0.96	0.11	-	49,49,49,49	0
59	MG	BA	1610	1/1	0.96	0.10	-	25,25,25,25	0
59	MG	DA	3770	1/1	0.80	0.41	-	88,88,88,88	0
59	MG	AA	3886	1/1	0.84	0.38	-	103,103,103,103	0
59	MG	CA	1974	1/1	0.90	0.08	-	55,55,55,55	0
59	MG	CA	2294	1/1	0.94	0.14	-	80,80,80,80	0
59	MG	AA	3104	1/1	0.95	0.29	-	54,54,54,54	0
59	MG	CA	1671	1/1	0.99	0.32	-	24,24,24,24	0
59	MG	CA	1780	1/1	0.84	0.28	-	56,56,56,56	0
59	MG	AA	3172	1/1	0.90	0.21	-	67,67,67,67	0
59	MG	CA	1611	1/1	0.89	0.12	-	39,39,39,39	0
59	MG	AA	3790	1/1	0.97	0.55	-	60,60,60,60	0
59	MG	DA	3370	1/1	0.70	0.28	-	73,73,73,73	0
59	MG	DA	4691	1/1	0.82	0.14	-	114,114,114,114	0
59	MG	DA	4221	1/1	0.91	0.19	-	49,49,49,49	0
59	MG	AA	4056	1/1	0.82	0.10	-	74,74,74,74	0
59	MG	CA	1936	1/1	0.96	0.11	-	55,55,55,55	0
59	MG	BE	302	1/1	0.98	0.09	-	59,59,59,59	0
59	MG	BA	1862	1/1	0.84	0.12	-	77,77,77,77	0
59	MG	DA	3631	1/1	0.77	0.21	-	60,60,60,60	0
59	MG	AA	3450	1/1	0.97	0.18	-	59,59,59,59	0
59	MG	BA	2013	1/1	0.88	0.10	-	67,67,67,67	0
59	MG	BA	1687	1/1	0.95	0.06	-	41,41,41,41	0
59	MG	CA	1842	1/1	0.90	0.13	-	78,78,78,78	0
59	MG	CA	1893	1/1	0.72	0.12	-	54,54,54,54	0
59	MG	DA	3126	1/1	0.96	0.28	-	63,63,63,63	0
59	MG	DA	3127	1/1	0.96	0.15	-	32,32,32,32	0
59	MG	DA	4246	1/1	0.86	0.19	-	64,64,64,64	0
59	MG	CA	1945	1/1	0.95	0.14	-	78,78,78,78	0
59	MG	AA	4088	1/1	0.88	0.13	-	97,97,97,97	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4306	1/1	0.95	0.23	-	45,45,45,45	0
59	MG	DA	4959	1/1	0.99	0.15	-	45,45,45,45	0
59	MG	DA	3161	1/1	0.86	0.31	-	55,55,55,55	0
59	MG	CA	1987	1/1	0.84	0.23	-	73,73,73,73	0
59	MG	BS	108	1/1	0.96	0.10	-	91,91,91,91	0
59	MG	DA	4894	1/1	0.91	0.21	-	63,63,63,63	0
59	MG	DA	3038	1/1	0.97	0.14	-	13,13,13,13	0
59	MG	DA	3218	1/1	0.89	0.33	-	47,47,47,47	0
59	MG	DA	3071	1/1	0.98	0.21	-	13,13,13,13	0
59	MG	DA	4277	1/1	0.73	0.34	-	66,66,66,66	0
59	MG	BA	1622	1/1	0.93	0.08	-	64,64,64,64	0
59	MG	AA	3446	1/1	0.90	0.36	-	90,90,90,90	0
59	MG	DA	3318	1/1	0.93	0.14	-	72,72,72,72	0
59	MG	DA	3901	1/1	0.86	0.22	-	30,30,30,30	0
59	MG	BA	1978	1/1	0.87	0.31	-	73,73,73,73	0
59	MG	D1	209	1/1	0.94	0.27	-	65,65,65,65	0
59	MG	AA	3991	1/1	0.91	0.22	-	73,73,73,73	0
59	MG	DA	3854	1/1	0.72	0.14	-	72,72,72,72	0
59	MG	CA	1931	1/1	0.94	0.23	-	64,64,64,64	0
59	MG	CA	2029	1/1	0.96	0.22	-	115,115,115,115	0
59	MG	DA	3787	1/1	0.92	0.13	-	114,114,114,114	0
59	MG	AA	3632	1/1	0.86	0.22	-	43,43,43,43	0
59	MG	AA	3305	1/1	0.59	0.18	-	47,47,47,47	0
59	MG	AA	3489	1/1	0.99	0.30	-	63,63,63,63	0
59	MG	AA	3279	1/1	0.94	0.17	-	45,45,45,45	0
59	MG	AA	3818	1/1	0.88	0.34	-	80,80,80,80	0
59	MG	BA	1883	1/1	0.95	0.42	-	64,64,64,64	0
59	MG	CA	1998	1/1	0.97	0.11	-	90,90,90,90	0
59	MG	DA	4476	1/1	0.93	0.11	-	64,64,64,64	0
59	MG	DA	3463	1/1	0.91	0.38	-	61,61,61,61	0
59	MG	DA	3420	1/1	0.99	0.32	-	51,51,51,51	0
59	MG	AA	3936	1/1	0.83	0.24	-	83,83,83,83	0
59	MG	DA	4836	1/1	0.92	0.13	-	41,41,41,41	0
59	MG	CA	2019	1/1	0.48	0.24	-	68,68,68,68	0
59	MG	CC	103	1/1	0.88	0.12	-	39,39,39,39	0
59	MG	DA	4914	1/1	0.91	0.21	-	44,44,44,44	0
59	MG	DA	3175	1/1	0.95	0.20	-	21,21,21,21	0
59	MG	CA	1634	1/1	0.74	0.23	-	91,91,91,91	0
59	MG	AB	221	1/1	0.83	0.17	-	61,61,61,61	0
59	MG	CA	1652	1/1	0.92	0.29	-	39,39,39,39	0
59	MG	CA	2209	1/1	0.82	0.17	-	68,68,68,68	0
59	MG	DA	4822	1/1	0.96	0.09	-	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3099	1/1	0.95	0.28	-	48,48,48,48	0
59	MG	DA	3500	1/1	0.92	0.11	-	57,57,57,57	0
59	MG	DA	3635	1/1	0.94	0.19	-	33,33,33,33	0
59	MG	AA	3229	1/1	0.88	0.19	-	56,56,56,56	0
59	MG	BA	2213	1/1	0.54	0.47	-	114,114,114,114	0
59	MG	DA	3025	1/1	0.89	0.18	-	44,44,44,44	0
59	MG	DA	3494	1/1	0.78	0.27	-	59,59,59,59	0
59	MG	DA	5017	1/1	0.90	0.19	-	55,55,55,55	0
59	MG	DA	4113	1/1	0.96	0.07	-	45,45,45,45	0
59	MG	DA	3608	1/1	0.94	0.27	-	60,60,60,60	0
59	MG	AA	3433	1/1	0.68	0.24	-	64,64,64,64	0
59	MG	BA	1747	1/1	0.99	0.18	-	50,50,50,50	0
59	MG	CA	1873	1/1	0.89	0.08	-	51,51,51,51	0
59	MG	DA	5073	1/1	0.93	0.47	-	127,127,127,127	0
59	MG	AA	3196	1/1	0.96	0.15	-	29,29,29,29	0
59	MG	BP	201	1/1	0.94	0.12	-	61,61,61,61	0
59	MG	CA	2250	1/1	0.59	0.27	-	88,88,88,88	0
59	MG	CT	201	1/1	0.64	0.23	-	99,99,99,99	0
59	MG	DA	3609	1/1	0.96	0.13	-	76,76,76,76	0
59	MG	DA	3205	1/1	0.70	0.30	-	65,65,65,65	0
59	MG	AA	3570	1/1	0.61	0.22	-	78,78,78,78	0
59	MG	CA	2178	1/1	0.79	0.13	-	92,92,92,92	0
59	MG	DA	3935	1/1	0.96	0.21	-	75,75,75,75	0
59	MG	DA	3751	1/1	0.86	0.17	-	97,97,97,97	0
59	MG	CA	1778	1/1	0.89	0.39	-	69,69,69,69	0
59	MG	DA	4973	1/1	0.54	0.51	-	115,115,115,115	0
59	MG	AA	3275	1/1	0.97	0.21	-	58,58,58,58	0
59	MG	DA	3890	1/1	0.88	0.47	-	86,86,86,86	0
59	MG	BA	2216	1/1	0.80	0.36	-	91,91,91,91	0
59	MG	CA	2110	1/1	0.96	0.10	-	62,62,62,62	0
59	MG	DA	3187	1/1	0.91	0.23	-	45,45,45,45	0
59	MG	CD	127	1/1	0.84	0.55	-	101,101,101,101	0
59	MG	BD	118	1/1	0.90	0.24	-	107,107,107,107	0
59	MG	DA	4714	1/1	0.98	0.17	-	87,87,87,87	0
59	MG	DA	4213	1/1	0.98	0.24	-	49,49,49,49	0
59	MG	DA	3818	1/1	0.94	0.11	-	71,71,71,71	0
59	MG	CA	2130	1/1	0.92	0.23	-	117,117,117,117	0
59	MG	BA	2135	1/1	0.92	0.23	-	77,77,77,77	0
59	MG	DA	4870	1/1	0.90	0.16	-	82,82,82,82	0
59	MG	AA	3007	1/1	0.97	0.22	-	24,24,24,24	0
59	MG	AA	3116	1/1	0.71	0.44	-	85,85,85,85	0
59	MG	AA	3023	1/1	0.93	0.21	-	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4230	1/1	0.72	0.31	-	41,41,41,41	0
59	MG	DA	3294	1/1	0.90	0.16	-	28,28,28,28	0
59	MG	DA	3152	1/1	0.89	0.24	-	52,52,52,52	0
59	MG	AA	3628	1/1	0.86	0.35	-	62,62,62,62	0
59	MG	BB	102	1/1	0.92	0.08	-	55,55,55,55	0
59	MG	DA	3505	1/1	0.98	0.35	-	51,51,51,51	0
59	MG	AA	3309	1/1	0.83	0.14	-	54,54,54,54	0
59	MG	DA	4430	1/1	0.84	0.18	-	83,83,83,83	0
59	MG	CA	1965	1/1	0.91	0.05	-	81,81,81,81	0
59	MG	AA	4010	1/1	0.97	0.11	-	74,74,74,74	0
59	MG	DA	4030	1/1	0.96	0.26	-	84,84,84,84	0
59	MG	BA	1643	1/1	0.94	0.37	-	53,53,53,53	0
59	MG	BA	1639	1/1	0.69	0.27	-	72,72,72,72	0
59	MG	BA	1881	1/1	0.95	0.24	-	46,46,46,46	0
59	MG	BA	1798	1/1	0.42	0.34	-	93,93,93,93	0
59	MG	DA	3090	1/1	0.94	0.15	-	13,13,13,13	0
59	MG	BA	1899	1/1	0.58	0.14	-	57,57,57,57	0
59	MG	DA	4874	1/1	0.79	0.45	-	84,84,84,84	0
59	MG	AA	3426	1/1	0.86	0.10	-	64,64,64,64	0
59	MG	DA	4222	1/1	0.84	0.29	-	54,54,54,54	0
59	MG	CD	118	1/1	0.63	0.50	-	97,97,97,97	0
59	MG	BA	1915	1/1	0.70	0.33	-	69,69,69,69	0
59	MG	AA	3926	1/1	0.99	0.11	-	52,52,52,52	0
59	MG	DA	3234	1/1	0.94	0.24	-	17,17,17,17	0
59	MG	CA	2187	1/1	0.85	0.42	-	80,80,80,80	0
59	MG	DA	3313	1/1	0.94	0.26	-	48,48,48,48	0
59	MG	DA	4732	1/1	0.89	0.11	-	71,71,71,71	0
59	MG	DA	4956	1/1	0.76	0.43	-	118,118,118,118	0
59	MG	DA	3685	1/1	0.91	0.22	-	59,59,59,59	0
59	MG	DA	3680	1/1	0.92	0.23	-	76,76,76,76	0
59	MG	DA	4086	1/1	0.94	0.23	-	98,98,98,98	0
59	MG	CA	1786	1/1	0.94	0.21	-	93,93,93,93	0
59	MG	AA	3303	1/1	0.55	0.24	-	94,94,94,94	0
59	MG	CA	1745	1/1	0.86	0.25	-	56,56,56,56	0
59	MG	DA	4637	1/1	0.89	0.24	-	80,80,80,80	0
59	MG	DA	3393	1/1	0.90	0.45	-	88,88,88,88	0
59	MG	AA	3870	1/1	0.76	0.11	-	69,69,69,69	0
59	MG	DA	3412	1/1	0.81	0.29	-	68,68,68,68	0
59	MG	DA	4054	1/1	0.88	0.62	-	108,108,108,108	0
59	MG	AA	3809	1/1	0.92	0.15	-	84,84,84,84	0
59	MG	AA	3520	1/1	0.97	0.15	-	75,75,75,75	0
59	MG	DA	4356	1/1	0.94	0.44	-	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CA	2190	1/1	0.86	0.13	-	62,62,62,62	0
59	MG	BG	302	1/1	0.74	0.13	-	63,63,63,63	0
59	MG	DA	3091	1/1	0.96	0.18	-	31,31,31,31	0
59	MG	AA	3808	1/1	0.89	0.17	-	75,75,75,75	0
59	MG	CA	1727	1/1	0.92	0.23	-	56,56,56,56	0
59	MG	BK	201	1/1	0.79	0.34	-	96,96,96,96	0
59	MG	BA	2055	1/1	0.92	0.08	-	89,89,89,89	0
59	MG	DB	203	1/1	0.92	0.33	-	46,46,46,46	0
59	MG	DA	3227	1/1	0.94	0.44	-	52,52,52,52	0
59	MG	BA	2054	1/1	0.93	0.19	-	68,68,68,68	0
59	MG	DA	4467	1/1	0.95	0.19	-	50,50,50,50	0
59	MG	BA	2207	1/1	0.87	0.42	-	103,103,103,103	0
59	MG	DA	3461	1/1	0.96	0.11	-	34,34,34,34	0
59	MG	AA	3190	1/1	0.99	0.21	-	26,26,26,26	0
59	MG	DA	4933	1/1	0.66	0.32	-	64,64,64,64	0
59	MG	AF	305	1/1	0.86	0.27	-	89,89,89,89	0
59	MG	AA	3497	1/1	0.80	0.26	-	80,80,80,80	0
59	MG	DA	4136	1/1	0.59	0.29	-	47,47,47,47	0
59	MG	AA	3338	1/1	0.71	0.16	-	72,72,72,72	0
59	MG	BA	1767	1/1	0.88	0.16	-	50,50,50,50	0
59	MG	AA	3280	1/1	0.92	0.26	-	56,56,56,56	0
59	MG	CA	2037	1/1	0.89	0.32	-	75,75,75,75	0
59	MG	DA	4763	1/1	0.93	0.45	-	51,51,51,51	0
59	MG	DA	3996	1/1	0.96	0.10	-	63,63,63,63	0
59	MG	DA	3964	1/1	0.97	0.11	-	68,68,68,68	0
59	MG	BA	2012	1/1	0.90	0.41	-	72,72,72,72	0
59	MG	AA	3993	1/1	0.82	0.14	-	91,91,91,91	0
59	MG	CA	2122	1/1	0.45	0.26	-	123,123,123,123	0
59	MG	BA	1912	1/1	0.78	0.30	-	82,82,82,82	0
59	MG	DA	4128	1/1	0.68	0.34	-	85,85,85,85	0
59	MG	DA	3464	1/1	0.91	0.28	-	53,53,53,53	0
59	MG	CA	2318	1/1	0.65	0.18	-	112,112,112,112	0
59	MG	DA	4367	1/1	0.82	0.19	-	65,65,65,65	0
59	MG	CA	1658	1/1	0.68	0.21	-	48,48,48,48	0
59	MG	DA	4461	1/1	0.69	0.36	-	88,88,88,88	0
59	MG	DH	205	1/1	0.80	0.16	-	77,77,77,77	0
59	MG	DA	4864	1/1	0.84	0.27	-	93,93,93,93	0
59	MG	AA	3805	1/1	0.80	0.33	-	94,94,94,94	0
59	MG	CA	2291	1/1	0.74	0.16	-	80,80,80,80	0
59	MG	DA	4872	1/1	0.73	0.58	-	106,106,106,106	0
59	MG	CS	102	1/1	0.94	0.15	-	65,65,65,65	0
59	MG	BA	2166	1/1	0.86	0.12	-	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4893	1/1	0.91	0.21	-	99,99,99,99	0
59	MG	DA	3017	1/1	0.98	0.22	-	7,7,7,7	0
59	MG	DA	4932	1/1	0.95	0.21	-	69,69,69,69	0
59	MG	DB	234	1/1	0.85	0.20	-	64,64,64,64	0
59	MG	BC	112	1/1	0.75	0.16	-	57,57,57,57	0
59	MG	BA	1661	1/1	0.87	0.13	-	83,83,83,83	0
59	MG	B1	102	1/1	0.82	0.10	-	72,72,72,72	0
59	MG	DA	4338	1/1	0.64	0.46	-	80,80,80,80	0
59	MG	DA	4308	1/1	0.96	0.17	-	71,71,71,71	0
59	MG	CD	114	1/1	0.96	0.28	-	79,79,79,79	0
59	MG	DA	5002	1/1	0.86	0.17	-	89,89,89,89	0
59	MG	BD	120	1/1	0.89	0.46	-	90,90,90,90	0
59	MG	AA	3020	1/1	0.97	0.19	-	27,27,27,27	0
59	MG	DA	4324	1/1	0.95	0.13	-	49,49,49,49	0
59	MG	DA	4952	1/1	0.57	0.39	-	86,86,86,86	0
59	MG	DA	3811	1/1	0.91	0.15	-	101,101,101,101	0
59	MG	BA	1937	1/1	0.77	0.38	-	71,71,71,71	0
59	MG	DA	4513	1/1	0.86	0.16	-	75,75,75,75	0
59	MG	CA	2128	1/1	0.92	0.39	-	101,101,101,101	0
59	MG	AA	3423	1/1	0.45	0.48	-	99,99,99,99	0
59	MG	BA	2191	1/1	0.79	0.13	-	73,73,73,73	0
59	MG	DA	4118	1/1	0.92	0.14	-	96,96,96,96	0
59	MG	CA	2174	1/1	0.95	0.14	-	100,100,100,100	0
59	MG	AA	3603	1/1	0.91	0.08	-	80,80,80,80	0
59	MG	DA	4081	1/1	0.90	0.15	-	67,67,67,67	0
59	MG	AA	4099	1/1	0.66	0.30	-	96,96,96,96	0
59	MG	DA	3391	1/1	0.93	0.42	-	84,84,84,84	0
59	MG	BA	2256	1/1	0.86	0.27	-	76,76,76,76	0
59	MG	DA	4211	1/1	0.89	0.20	-	47,47,47,47	0
59	MG	DR	203	1/1	0.95	0.20	-	84,84,84,84	0
59	MG	AB	222	1/1	0.92	0.12	-	85,85,85,85	0
59	MG	DA	3192	1/1	0.93	0.26	-	95,95,95,95	0
59	MG	DA	3506	1/1	0.96	0.15	-	46,46,46,46	0
59	MG	DE	314	1/1	0.88	0.69	-	67,67,67,67	0
59	MG	DA	4896	1/1	0.82	0.20	-	74,74,74,74	0
59	MG	BA	2156	1/1	0.93	0.11	-	90,90,90,90	0
59	MG	DA	4096	1/1	0.94	0.38	-	73,73,73,73	0
59	MG	DA	4611	1/1	0.85	0.20	-	82,82,82,82	0
59	MG	DA	4070	1/1	0.93	0.22	-	45,45,45,45	0
59	MG	DA	3638	1/1	0.96	0.16	-	78,78,78,78	0
59	MG	DA	4941	1/1	0.94	0.51	-	88,88,88,88	0
59	MG	DA	4651	1/1	0.97	0.09	-	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4895	1/1	0.90	0.21	-	77,77,77,77	0
59	MG	DA	4129	1/1	0.40	0.09	-	109,109,109,109	0
59	MG	DA	4554	1/1	0.92	0.33	-	81,81,81,81	0
59	MG	DA	4168	1/1	0.87	0.14	-	33,33,33,33	0
59	MG	AA	3373	1/1	0.94	0.15	-	48,48,48,48	0
59	MG	DB	275	1/1	0.91	0.15	-	50,50,50,50	0
59	MG	CA	2086	1/1	0.89	0.22	-	83,83,83,83	0
59	MG	AA	3310	1/1	0.95	0.19	-	47,47,47,47	0
59	MG	DA	3622	1/1	0.70	0.28	-	69,69,69,69	0
59	MG	DA	4297	1/1	0.75	0.37	-	100,100,100,100	0
59	MG	AA	3627	1/1	0.94	0.28	-	37,37,37,37	0
59	MG	BA	2103	1/1	0.94	0.13	-	80,80,80,80	0
59	MG	AA	3406	1/1	0.89	0.24	-	32,32,32,32	0
59	MG	AA	3370	1/1	0.97	0.29	-	64,64,64,64	0
59	MG	DA	3392	1/1	0.76	0.26	-	76,76,76,76	0
59	MG	DA	4713	1/1	0.82	0.32	-	75,75,75,75	0
59	MG	DB	262	1/1	0.98	0.45	-	89,89,89,89	0
59	MG	DB	222	1/1	0.89	0.30	-	43,43,43,43	0
59	MG	DA	4378	1/1	0.88	0.18	-	48,48,48,48	0
59	MG	AA	3690	1/1	0.87	0.20	-	64,64,64,64	0
59	MG	AA	3903	1/1	0.50	0.19	-	95,95,95,95	0
59	MG	BA	2143	1/1	0.91	0.12	-	138,138,138,138	0
59	MG	DZ	102	1/1	0.96	0.24	-	49,49,49,49	0
59	MG	DA	3216	1/1	0.95	0.37	-	54,54,54,54	0
59	MG	DA	3173	1/1	0.90	0.18	-	36,36,36,36	0
59	MG	AA	3705	1/1	0.71	0.28	-	87,87,87,87	0
59	MG	AA	3928	1/1	0.81	0.14	-	71,71,71,71	0
59	MG	DA	3322	1/1	0.86	0.14	-	36,36,36,36	0
59	MG	BA	2014	1/1	0.75	0.14	-	64,64,64,64	0
59	MG	AA	3532	1/1	0.91	0.31	-	87,87,87,87	0
59	MG	AA	3696	1/1	0.99	0.15	-	47,47,47,47	0
59	MG	CA	1871	1/1	0.95	0.14	-	98,98,98,98	0
59	MG	BA	1828	1/1	0.41	0.46	-	114,114,114,114	0
59	MG	DA	3452	1/1	0.82	0.29	-	68,68,68,68	0
59	MG	DA	4674	1/1	0.95	0.30	-	93,93,93,93	0
59	MG	AA	3943	1/1	0.78	0.20	-	65,65,65,65	0
59	MG	DA	4228	1/1	0.96	0.15	-	50,50,50,50	0
59	MG	CA	2259	1/1	0.81	0.20	-	67,67,67,67	0
59	MG	AA	4140	1/1	0.76	0.19	-	74,74,74,74	0
59	MG	DA	4794	1/1	0.87	0.35	-	86,86,86,86	0
59	MG	DA	3309	1/1	0.82	0.28	-	56,56,56,56	0
59	MG	DA	3870	1/1	0.79	0.33	-	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3747	1/1	0.82	0.12	-	75,75,75,75	0
59	MG	BA	1850	1/1	0.94	0.13	-	90,90,90,90	0
59	MG	DA	4616	1/1	0.91	0.37	-	72,72,72,72	0
59	MG	DA	4532	1/1	0.87	0.44	-	45,45,45,45	0
59	MG	DA	3064	1/1	0.92	0.15	-	35,35,35,35	0
59	MG	DB	256	1/1	0.93	0.15	-	65,65,65,65	0
59	MG	CA	2172	1/1	0.86	0.29	-	95,95,95,95	0
59	MG	DA	3837	1/1	0.95	0.28	-	61,61,61,61	0
59	MG	CA	2153	1/1	0.93	0.12	-	76,76,76,76	0
59	MG	DA	4777	1/1	0.92	0.24	-	96,96,96,96	0
59	MG	AA	4011	1/1	0.83	0.30	-	122,122,122,122	0
59	MG	AA	3799	1/1	0.79	0.37	-	93,93,93,93	0
59	MG	CA	1792	1/1	0.76	0.07	-	58,58,58,58	0
59	MG	CA	1977	1/1	0.92	0.14	-	64,64,64,64	0
59	MG	CB	108	1/1	0.61	0.19	-	87,87,87,87	0
59	MG	BA	2238	1/1	0.81	0.14	-	95,95,95,95	0
59	MG	DA	3820	1/1	0.83	0.11	-	97,97,97,97	0
59	MG	DA	4121	1/1	0.76	0.15	-	77,77,77,77	0
59	MG	CA	1940	1/1	0.84	0.26	-	67,67,67,67	0
59	MG	AA	3304	1/1	0.95	0.14	-	36,36,36,36	0
59	MG	DA	4259	1/1	0.94	0.18	-	54,54,54,54	0
59	MG	BA	1943	1/1	0.84	0.14	-	72,72,72,72	0
59	MG	AA	3192	1/1	0.93	0.11	-	39,39,39,39	0
59	MG	DA	5014	1/1	0.81	0.29	-	64,64,64,64	0
59	MG	DA	4612	1/1	0.80	0.45	-	79,79,79,79	0
59	MG	AA	3657	1/1	0.52	0.36	-	89,89,89,89	0
59	MG	DA	3327	1/1	0.92	0.16	-	48,48,48,48	0
59	MG	DA	4609	1/1	0.96	0.14	-	48,48,48,48	0
59	MG	DU	208	1/1	0.86	0.21	-	52,52,52,52	0
59	MG	DA	4008	1/1	0.92	0.17	-	49,49,49,49	0
59	MG	BA	1911	1/1	0.91	0.41	-	76,76,76,76	0
59	MG	DA	4644	1/1	0.89	0.12	-	64,64,64,64	0
59	MG	DA	3569	1/1	0.93	0.20	-	21,21,21,21	0
59	MG	DA	4602	1/1	0.94	0.34	-	71,71,71,71	0
59	MG	DA	4362	1/1	0.86	0.44	-	74,74,74,74	0
59	MG	DA	3344	1/1	0.78	0.62	-	90,90,90,90	0
59	MG	DA	4109	1/1	0.97	0.24	-	61,61,61,61	0
59	MG	BC	110	1/1	0.93	0.14	-	56,56,56,56	0
59	MG	CA	2225	1/1	0.94	0.12	-	70,70,70,70	0
59	MG	AA	3770	1/1	0.88	0.11	-	70,70,70,70	0
59	MG	AA	3278	1/1	0.90	0.28	-	59,59,59,59	0
59	MG	CA	1808	1/1	0.92	0.19	-	148,148,148,148	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3550	1/1	0.92	0.22	-	82,82,82,82	0
59	MG	AA	3607	1/1	0.94	0.09	-	94,94,94,94	0
59	MG	AA	3548	1/1	0.79	0.29	-	59,59,59,59	0
59	MG	DA	3813	1/1	0.74	0.14	-	96,96,96,96	0
59	MG	CA	1821	1/1	0.90	0.07	-	51,51,51,51	0
59	MG	AA	4052	1/1	0.86	0.11	-	73,73,73,73	0
59	MG	AA	3294	1/1	0.87	0.13	-	64,64,64,64	0
59	MG	CA	2242	1/1	0.89	0.16	-	84,84,84,84	0
59	MG	BA	1934	1/1	0.87	0.54	-	84,84,84,84	0
59	MG	AA	3758	1/1	0.91	0.20	-	65,65,65,65	0
59	MG	AA	3187	1/1	0.76	0.25	-	68,68,68,68	0
59	MG	DA	4629	1/1	0.83	0.26	-	107,107,107,107	0
59	MG	CA	2299	1/1	0.96	0.19	-	111,111,111,111	0
59	MG	AA	3266	1/1	0.86	0.19	-	73,73,73,73	0
59	MG	DA	3673	1/1	0.89	0.12	-	61,61,61,61	0
59	MG	AA	3720	1/1	0.98	0.54	-	52,52,52,52	0
59	MG	DA	4760	1/1	0.88	0.23	-	55,55,55,55	0
59	MG	AA	3752	1/1	0.85	0.22	-	71,71,71,71	0
59	MG	DA	3646	1/1	0.84	0.27	-	53,53,53,53	0
59	MG	A3	102	1/1	0.92	0.18	-	83,83,83,83	0
59	MG	BA	1842	1/1	0.98	0.06	-	92,92,92,92	0
59	MG	DA	3193	1/1	0.87	0.15	-	71,71,71,71	0
59	MG	BA	1864	1/1	0.88	0.09	-	95,95,95,95	0
59	MG	BG	304	1/1	0.90	0.40	-	79,79,79,79	0
59	MG	AA	3119	1/1	0.92	0.12	-	46,46,46,46	0
59	MG	AA	3750	1/1	0.86	0.10	-	66,66,66,66	0
59	MG	BA	1832	1/1	0.68	0.21	-	89,89,89,89	0
59	MG	CA	2023	1/1	0.79	0.36	-	79,79,79,79	0
59	MG	CQ	104	1/1	0.88	0.08	-	56,56,56,56	0
59	MG	CA	1705	1/1	0.93	0.30	-	54,54,54,54	0
59	MG	BA	1672	1/1	0.95	0.29	-	39,39,39,39	0
59	MG	DA	4922	1/1	0.91	0.32	-	99,99,99,99	0
59	MG	DA	4976	1/1	0.80	0.68	-	98,98,98,98	0
59	MG	AA	3166	1/1	0.94	0.11	-	65,65,65,65	0
59	MG	DA	4244	1/1	0.79	0.13	-	44,44,44,44	0
59	MG	AA	3996	1/1	0.96	0.13	-	49,49,49,49	0
59	MG	CA	1972	1/1	0.88	0.30	-	68,68,68,68	0
59	MG	BB	107	1/1	0.87	0.20	-	83,83,83,83	0
59	MG	AA	3198	1/1	0.85	0.20	-	34,34,34,34	0
59	MG	DA	3473	1/1	0.80	0.19	-	44,44,44,44	0
59	MG	AA	3050	1/1	0.91	0.20	-	59,59,59,59	0
59	MG	DA	3790	1/1	0.77	0.27	-	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3811	1/1	0.94	0.11	-	58,58,58,58	0
59	MG	DA	3758	1/1	0.88	0.24	-	100,100,100,100	0
59	MG	DA	3314	1/1	0.71	0.13	-	83,83,83,83	0
59	MG	BA	1822	1/1	0.82	0.09	-	97,97,97,97	0
59	MG	DA	3199	1/1	0.94	0.31	-	29,29,29,29	0
59	MG	AA	3254	1/1	0.66	0.13	-	76,76,76,76	0
59	MG	AA	3086	1/1	0.95	0.23	-	35,35,35,35	0
59	MG	CA	1612	1/1	0.89	0.17	-	57,57,57,57	0
59	MG	DA	3850	1/1	0.91	0.26	-	51,51,51,51	0
59	MG	DU	215	1/1	0.72	0.44	-	76,76,76,76	0
59	MG	DA	4417	1/1	0.70	0.30	-	64,64,64,64	0
59	MG	AA	3568	1/1	0.92	0.20	-	41,41,41,41	0
59	MG	DA	4768	1/1	0.98	0.13	-	64,64,64,64	0
59	MG	CA	2116	1/1	0.88	0.14	-	79,79,79,79	0
59	MG	DA	3829	1/1	0.83	0.12	-	66,66,66,66	0
59	MG	DB	241	1/1	0.94	0.17	-	66,66,66,66	0
59	MG	DA	3948	1/1	0.83	0.16	-	127,127,127,127	0
59	MG	DA	5070	1/1	0.89	0.16	-	51,51,51,51	0
59	MG	AA	3859	1/1	0.98	0.18	-	80,80,80,80	0
59	MG	DA	3752	1/1	0.95	0.11	-	103,103,103,103	0
59	MG	DA	5001	1/1	0.90	0.21	-	75,75,75,75	0
59	MG	AA	3276	1/1	0.82	0.18	-	46,46,46,46	0
59	MG	DA	4953	1/1	0.95	0.12	-	63,63,63,63	0
59	MG	DA	4892	1/1	0.73	1.12	-	133,133,133,133	0
59	MG	BD	111	1/1	0.38	0.15	-	74,74,74,74	0
59	MG	CA	1794	1/1	0.83	0.19	-	124,124,124,124	0
59	MG	BA	2090	1/1	0.92	0.13	-	119,119,119,119	0
59	MG	DA	3541	1/1	0.97	0.11	-	19,19,19,19	0
59	MG	CA	2088	1/1	0.96	0.20	-	65,65,65,65	0
59	MG	DA	4812	1/1	0.92	0.18	-	87,87,87,87	0
59	MG	AA	3888	1/1	0.56	0.17	-	79,79,79,79	0
59	MG	DA	4361	1/1	0.95	0.37	-	47,47,47,47	0
59	MG	DA	4889	1/1	0.91	0.38	-	75,75,75,75	0
59	MG	AA	4063	1/1	0.89	0.16	-	75,75,75,75	0
59	MG	DA	4630	1/1	0.82	0.35	-	89,89,89,89	0
59	MG	AA	4059	1/1	0.72	0.17	-	54,54,54,54	0
59	MG	DA	4833	1/1	0.81	0.33	-	76,76,76,76	0
59	MG	DB	210	1/1	0.69	0.23	-	89,89,89,89	0
59	MG	BA	1753	1/1	0.89	0.14	-	69,69,69,69	0
59	MG	CA	2324	1/1	0.87	0.30	-	89,89,89,89	0
59	MG	AA	3966	1/1	0.74	0.40	-	75,75,75,75	0
59	MG	DA	3306	1/1	0.82	0.17	-	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AZ	103	1/1	0.90	0.13	-	75,75,75,75	0
59	MG	DA	5016	1/1	0.93	0.19	-	106,106,106,106	0
59	MG	DA	3129	1/1	0.99	0.22	-	14,14,14,14	0
59	MG	AA	3292	1/1	0.76	0.34	-	79,79,79,79	0
59	MG	DA	3582	1/1	0.69	0.25	-	63,63,63,63	0
59	MG	AB	202	1/1	0.91	0.25	-	51,51,51,51	0
59	MG	DA	4580	1/1	0.86	0.18	-	69,69,69,69	0
59	MG	DA	3606	1/1	0.83	0.39	-	88,88,88,88	0
59	MG	DF	324	1/1	0.95	0.25	-	76,76,76,76	0
59	MG	DA	4017	1/1	0.97	0.19	-	69,69,69,69	0
59	MG	BA	1981	1/1	0.86	0.11	-	68,68,68,68	0
59	MG	DA	3267	1/1	0.82	0.30	-	72,72,72,72	0
59	MG	DA	4993	1/1	0.79	0.21	-	139,139,139,139	0
59	MG	AA	3382	1/1	0.74	0.21	-	83,83,83,83	0
59	MG	AA	3905	1/1	0.78	0.10	-	86,86,86,86	0
59	MG	DA	4729	1/1	0.99	0.36	-	39,39,39,39	0
59	MG	BA	1786	1/1	0.88	0.38	-	57,57,57,57	0
59	MG	DA	4024	1/1	0.98	0.07	-	47,47,47,47	0
59	MG	DA	4890	1/1	0.81	0.39	-	96,96,96,96	0
59	MG	BA	1655	1/1	0.96	0.31	-	58,58,58,58	0
59	MG	AA	3938	1/1	0.86	0.24	-	76,76,76,76	0
59	MG	BA	2050	1/1	0.87	0.26	-	85,85,85,85	0
59	MG	BA	1788	1/1	0.55	0.18	-	53,53,53,53	0
59	MG	AA	3173	1/1	0.96	0.12	-	14,14,14,14	0
59	MG	BA	2109	1/1	0.90	0.43	-	93,93,93,93	0
59	MG	DA	4234	1/1	0.87	0.28	-	37,37,37,37	0
59	MG	DA	4060	1/1	0.83	0.09	-	52,52,52,52	0
59	MG	AA	3411	1/1	0.92	0.17	-	73,73,73,73	0
59	MG	DA	4702	1/1	0.97	0.25	-	48,48,48,48	0
59	MG	DA	4341	1/1	0.88	0.12	-	59,59,59,59	0
59	MG	DA	3534	1/1	0.92	0.37	-	49,49,49,49	0
59	MG	D5	102	1/1	0.91	0.15	-	24,24,24,24	0
59	MG	BA	1955	1/1	0.90	0.29	-	74,74,74,74	0
59	MG	CA	2320	1/1	0.80	0.11	-	81,81,81,81	0
59	MG	AA	3807	1/1	0.59	0.17	-	87,87,87,87	0
59	MG	AA	3884	1/1	0.86	0.15	-	94,94,94,94	0
59	MG	BA	2111	1/1	0.79	0.28	-	79,79,79,79	0
59	MG	DA	3711	1/1	0.91	0.25	-	85,85,85,85	0
59	MG	BA	2212	1/1	0.63	0.21	-	91,91,91,91	0
59	MG	DA	3195	1/1	0.78	0.28	-	50,50,50,50	0
59	MG	CA	2064	1/1	0.89	0.25	-	66,66,66,66	0
59	MG	BA	1916	1/1	0.88	0.16	-	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4773	1/1	0.72	0.30	-	81,81,81,81	0
59	MG	DA	4343	1/1	0.87	0.30	-	58,58,58,58	0
59	MG	AW	101	1/1	0.18	0.65	-	97,97,97,97	0
59	MG	DA	3120	1/1	0.71	0.23	-	57,57,57,57	0
59	MG	AA	3087	1/1	0.97	0.17	-	20,20,20,20	0
59	MG	CA	1715	1/1	0.85	0.12	-	62,62,62,62	0
59	MG	AA	3722	1/1	0.91	0.12	-	50,50,50,50	0
59	MG	CA	1970	1/1	0.40	0.21	-	100,100,100,100	0
59	MG	DA	4205	1/1	0.98	0.16	-	37,37,37,37	0
59	MG	AB	217	1/1	0.86	0.37	-	87,87,87,87	0
59	MG	DA	4943	1/1	0.80	0.41	-	81,81,81,81	0
59	MG	AA	4048	1/1	0.91	0.14	-	93,93,93,93	0
59	MG	AA	3728	1/1	0.76	0.19	-	70,70,70,70	0
59	MG	BA	1890	1/1	0.79	0.36	-	72,72,72,72	0
59	MG	DA	3574	1/1	0.83	0.08	-	71,71,71,71	0
59	MG	DA	3918	1/1	0.91	0.31	-	50,50,50,50	0
59	MG	BA	2001	1/1	0.83	0.33	-	96,96,96,96	0
59	MG	DA	3403	1/1	0.70	0.37	-	89,89,89,89	0
59	MG	BF	302	1/1	0.70	0.24	-	105,105,105,105	0
59	MG	DA	4104	1/1	0.93	0.36	-	76,76,76,76	0
59	MG	AA	3673	1/1	0.93	0.27	-	56,56,56,56	0
59	MG	DA	5019	1/1	0.85	0.21	-	62,62,62,62	0
59	MG	BA	1870	1/1	0.98	0.10	-	119,119,119,119	0
59	MG	DA	3332	1/1	0.77	0.42	-	82,82,82,82	0
59	MG	DA	4961	1/1	0.86	0.20	-	68,68,68,68	0
59	MG	AA	3257	1/1	0.96	0.14	-	36,36,36,36	0
59	MG	DA	3249	1/1	0.97	0.14	-	13,13,13,13	0
59	MG	BA	1813	1/1	0.90	0.10	-	94,94,94,94	0
59	MG	AA	3620	1/1	0.96	0.10	-	55,55,55,55	0
59	MG	AA	3297	1/1	0.96	0.20	-	58,58,58,58	0
59	MG	CA	2246	1/1	0.77	0.18	-	91,91,91,91	0
59	MG	BA	2190	1/1	0.96	0.11	-	62,62,62,62	0
59	MG	DA	3334	1/1	0.95	0.30	-	40,40,40,40	0
59	MG	BA	1853	1/1	0.87	0.23	-	103,103,103,103	0
59	MG	BA	1758	1/1	0.87	0.21	-	54,54,54,54	0
59	MG	DA	4656	1/1	0.69	0.28	-	71,71,71,71	0
59	MG	BA	2037	1/1	0.62	0.12	-	132,132,132,132	0
59	MG	DA	4331	1/1	0.80	0.27	-	63,63,63,63	0
59	MG	DA	3333	1/1	0.87	0.19	-	78,78,78,78	0
59	MG	DA	3443	1/1	0.97	0.08	-	54,54,54,54	0
59	MG	DA	3446	1/1	0.89	0.23	-	66,66,66,66	0
59	MG	DP	204	1/1	0.83	0.23	-	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3197	1/1	0.93	0.11	-	50,50,50,50	0
59	MG	AA	3828	1/1	0.55	0.34	-	113,113,113,113	0
59	MG	DA	4638	1/1	0.77	0.26	-	56,56,56,56	0
59	MG	DA	3713	1/1	0.88	0.36	-	70,70,70,70	0
59	MG	DA	3349	1/1	0.94	0.31	-	56,56,56,56	0
59	MG	CA	1756	1/1	0.88	0.15	-	53,53,53,53	0
59	MG	CA	1810	1/1	0.97	0.11	-	61,61,61,61	0
59	MG	CA	1844	1/1	0.85	0.13	-	57,57,57,57	0
59	MG	BA	1693	1/1	0.95	0.31	-	46,46,46,46	0
59	MG	CA	1875	1/1	0.92	0.12	-	71,71,71,71	0
59	MG	BA	1635	1/1	0.72	0.34	-	102,102,102,102	0
59	MG	DA	4092	1/1	0.91	0.20	-	99,99,99,99	0
59	MG	AA	4068	1/1	0.79	0.16	-	58,58,58,58	0
59	MG	CA	2016	1/1	0.84	0.45	-	80,80,80,80	0
59	MG	CA	1608	1/1	0.93	0.30	-	48,48,48,48	0
59	MG	DA	4253	1/1	0.92	0.28	-	62,62,62,62	0
59	MG	DA	4124	1/1	0.93	0.08	-	58,58,58,58	0
59	MG	DA	4056	1/1	0.95	0.43	-	62,62,62,62	0
59	MG	DA	3130	1/1	0.77	0.26	-	73,73,73,73	0
59	MG	BC	106	1/1	0.88	0.14	-	58,58,58,58	0
59	MG	AA	3796	1/1	0.83	0.19	-	94,94,94,94	0
59	MG	DB	244	1/1	0.69	0.34	-	68,68,68,68	0
59	MG	DA	4240	1/1	0.83	0.43	-	70,70,70,70	0
59	MG	BA	2267	1/1	0.70	0.25	-	91,91,91,91	0
59	MG	AA	3301	1/1	0.94	0.17	-	50,50,50,50	0
59	MG	DA	4051	1/1	0.87	0.22	-	94,94,94,94	0
59	MG	BA	1976	1/1	0.92	0.15	-	147,147,147,147	0
59	MG	DA	3642	1/1	0.85	0.19	-	42,42,42,42	0
59	MG	BA	2165	1/1	0.93	0.10	-	61,61,61,61	0
59	MG	DB	276	1/1	0.62	0.21	-	66,66,66,66	0
59	MG	DA	3109	1/1	0.98	0.20	-	18,18,18,18	0
59	MG	CA	2137	1/1	0.75	0.19	-	88,88,88,88	0
59	MG	CA	2022	1/1	0.87	0.32	-	88,88,88,88	0
59	MG	DB	251	1/1	0.97	0.14	-	49,49,49,49	0
59	MG	DA	4821	1/1	0.87	0.14	-	54,54,54,54	0
59	MG	CA	1909	1/1	0.91	0.33	-	69,69,69,69	0
59	MG	DA	4766	1/1	0.91	0.21	-	67,67,67,67	0
59	MG	DA	3489	1/1	0.93	0.11	-	41,41,41,41	0
59	MG	DA	4250	1/1	0.89	0.30	-	49,49,49,49	0
59	MG	DA	4177	1/1	0.81	0.29	-	52,52,52,52	0
59	MG	CA	1924	1/1	0.91	0.16	-	88,88,88,88	0
59	MG	AA	4157	1/1	0.94	0.10	-	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3041	1/1	0.88	0.10	-	81,81,81,81	0
59	MG	DA	3438	1/1	0.95	0.18	-	32,32,32,32	0
59	MG	AA	3128	1/1	0.97	0.23	-	32,32,32,32	0
59	MG	DA	4169	1/1	0.98	0.29	-	71,71,71,71	0
59	MG	DA	4502	1/1	0.82	0.35	-	62,62,62,62	0
59	MG	DA	5023	1/1	0.93	0.21	-	62,62,62,62	0
59	MG	DA	4102	1/1	0.85	0.19	-	70,70,70,70	0
59	MG	DA	3695	1/1	0.76	0.23	-	131,131,131,131	0
59	MG	BM	203	1/1	0.78	0.24	-	91,91,91,91	0
59	MG	CA	1989	1/1	0.94	0.22	-	60,60,60,60	0
59	MG	DA	4066	1/1	0.84	0.11	-	59,59,59,59	0
59	MG	AA	3242	1/1	0.93	0.25	-	56,56,56,56	0
59	MG	AA	3360	1/1	0.81	0.19	-	95,95,95,95	0
59	MG	DA	4048	1/1	0.88	0.10	-	75,75,75,75	0
59	MG	AA	3146	1/1	0.84	0.24	-	78,78,78,78	0
59	MG	CA	1758	1/1	0.99	0.12	-	52,52,52,52	0
59	MG	DA	4991	1/1	0.93	0.21	-	123,123,123,123	0
59	MG	DA	4699	1/1	0.86	0.28	-	92,92,92,92	0
59	MG	AA	3835	1/1	0.87	0.15	-	56,56,56,56	0
59	MG	DY	203	1/1	0.94	0.18	-	75,75,75,75	0
59	MG	AA	3865	1/1	0.92	0.19	-	62,62,62,62	0
59	MG	BA	1983	1/1	0.92	0.05	-	80,80,80,80	0
59	MG	BA	1803	1/1	0.77	0.38	-	90,90,90,90	0
59	MG	BA	2152	1/1	0.86	0.20	-	83,83,83,83	0
59	MG	CA	2107	1/1	0.89	0.23	-	73,73,73,73	0
59	MG	DA	3997	1/1	0.87	0.16	-	57,57,57,57	0
59	MG	AA	3656	1/1	0.94	0.17	-	37,37,37,37	0
59	MG	AA	3131	1/1	0.95	0.15	-	34,34,34,34	0
59	MG	DA	3425	1/1	0.79	0.30	-	63,63,63,63	0
59	MG	DA	4667	1/1	0.92	0.20	-	46,46,46,46	0
59	MG	CA	1793	1/1	0.91	0.15	-	74,74,74,74	0
59	MG	AA	3480	1/1	0.71	0.25	-	70,70,70,70	0
59	MG	CA	2099	1/1	0.71	0.11	-	94,94,94,94	0
59	MG	CA	1815	1/1	0.94	0.09	-	66,66,66,66	0
59	MG	DA	4918	1/1	0.89	0.13	-	48,48,48,48	0
59	MG	DA	3352	1/1	0.89	0.44	-	80,80,80,80	0
59	MG	DA	4391	1/1	0.74	0.19	-	52,52,52,52	0
59	MG	DA	3282	1/1	0.95	0.08	-	12,12,12,12	0
59	MG	AA	3259	1/1	0.95	0.44	-	57,57,57,57	0
59	MG	DA	4007	1/1	0.52	0.14	-	110,110,110,110	0
59	MG	DZ	103	1/1	0.90	0.14	-	87,87,87,87	0
59	MG	AA	3491	1/1	0.68	0.19	-	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3827	1/1	0.90	0.14	-	97,97,97,97	0
59	MG	BA	1649	1/1	0.94	0.24	-	63,63,63,63	0
59	MG	DF	310	1/1	0.93	0.12	-	49,49,49,49	0
59	MG	BA	2122	1/1	0.69	0.19	-	107,107,107,107	0
59	MG	AA	3130	1/1	0.97	0.28	-	24,24,24,24	0
59	MG	DA	3634	1/1	0.88	0.24	-	54,54,54,54	0
59	MG	DA	4814	1/1	0.75	0.36	-	114,114,114,114	0
59	MG	CD	102	1/1	0.84	0.20	-	64,64,64,64	0
59	MG	DB	265	1/1	0.93	0.21	-	81,81,81,81	0
59	MG	BA	2086	1/1	0.90	0.21	-	83,83,83,83	0
59	MG	DA	3518	1/1	0.86	0.20	-	65,65,65,65	0
59	MG	AA	3588	1/1	0.92	0.17	-	82,82,82,82	0
59	MG	DA	3529	1/1	0.99	0.30	-	84,84,84,84	0
59	MG	AA	3151	1/1	0.97	0.19	-	60,60,60,60	0
59	MG	AA	3431	1/1	0.91	0.14	-	53,53,53,53	0
59	MG	B1	101	1/1	0.81	0.25	-	60,60,60,60	0
59	MG	DA	3981	1/1	0.85	0.51	-	87,87,87,87	0
59	MG	DA	4013	1/1	0.96	0.39	-	42,42,42,42	0
59	MG	AA	3826	1/1	0.92	0.19	-	92,92,92,92	0
59	MG	CA	2292	1/1	0.89	0.11	-	67,67,67,67	0
59	MG	DA	4607	1/1	0.95	0.16	-	64,64,64,64	0
59	MG	DA	4103	1/1	0.89	0.46	-	85,85,85,85	0
59	MG	AA	3648	1/1	0.95	0.15	-	43,43,43,43	0
59	MG	DA	3867	1/1	0.93	0.25	-	100,100,100,100	0
59	MG	AA	3708	1/1	0.94	0.15	-	49,49,49,49	0
59	MG	DA	4571	1/1	0.87	0.15	-	61,61,61,61	0
59	MG	DA	4617	1/1	0.83	0.20	-	54,54,54,54	0
59	MG	AA	3507	1/1	0.98	0.21	-	30,30,30,30	0
59	MG	DA	4495	1/1	0.81	0.48	-	111,111,111,111	0
59	MG	DA	3567	1/1	0.86	0.17	-	47,47,47,47	0
59	MG	DB	249	1/1	0.94	0.24	-	84,84,84,84	0
59	MG	DB	253	1/1	0.88	0.15	-	74,74,74,74	0
59	MG	AA	4110	1/1	0.82	0.09	-	102,102,102,102	0
59	MG	CB	104	1/1	0.94	0.13	-	51,51,51,51	0
59	MG	AA	3577	1/1	0.99	0.08	-	80,80,80,80	0
59	MG	DA	4781	1/1	0.81	0.46	-	105,105,105,105	0
59	MG	DA	3103	1/1	0.94	0.38	-	49,49,49,49	0
59	MG	CA	2169	1/1	0.83	0.36	-	95,95,95,95	0
59	MG	BA	1919	1/1	0.89	0.30	-	59,59,59,59	0
59	MG	DA	4692	1/1	0.90	0.32	-	74,74,74,74	0
59	MG	CA	2154	1/1	0.85	0.16	-	75,75,75,75	0
59	MG	DA	4824	1/1	0.92	0.24	-	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	CT	203	1/1	0.92	0.14	-	54,54,54,54	0
59	MG	BA	1738	1/1	0.90	0.28	-	59,59,59,59	0
59	MG	DA	4569	1/1	0.92	0.17	-	37,37,37,37	0
59	MG	DA	4176	1/1	0.92	0.14	-	53,53,53,53	0
59	MG	DA	3796	1/1	0.95	0.17	-	26,26,26,26	0
59	MG	DA	3147	1/1	0.90	0.14	-	45,45,45,45	0
59	MG	DA	3196	1/1	0.93	0.29	-	43,43,43,43	0
59	MG	BA	2045	1/1	0.97	0.05	-	66,66,66,66	0
59	MG	DA	3748	1/1	0.82	0.26	-	66,66,66,66	0
59	MG	BD	114	1/1	0.77	0.14	-	93,93,93,93	0
59	MG	CA	1666	1/1	0.89	0.36	-	60,60,60,60	0
59	MG	AA	3979	1/1	0.87	0.34	-	94,94,94,94	0
59	MG	CD	105	1/1	0.95	0.41	-	62,62,62,62	0
59	MG	DA	5077	1/1	0.56	0.47	-	102,102,102,102	0
59	MG	AA	4024	1/1	0.80	0.30	-	95,95,95,95	0
59	MG	AA	3100	1/1	0.93	0.10	-	34,34,34,34	0
59	MG	DA	4359	1/1	0.89	0.26	-	47,47,47,47	0
59	MG	DA	4817	1/1	0.79	0.26	-	78,78,78,78	0
59	MG	BA	1810	1/1	0.94	0.11	-	93,93,93,93	0
59	MG	DA	4990	1/1	0.82	0.27	-	70,70,70,70	0
59	MG	DA	4260	1/1	0.93	0.18	-	56,56,56,56	0
59	MG	AA	3771	1/1	0.89	0.37	-	79,79,79,79	0
59	MG	DA	3823	1/1	0.92	0.10	-	81,81,81,81	0
59	MG	BA	1631	1/1	0.92	0.25	-	48,48,48,48	0
59	MG	AA	4095	1/1	0.84	0.15	-	58,58,58,58	0
59	MG	AA	4003	1/1	0.76	0.07	-	109,109,109,109	0
59	MG	AA	3416	1/1	0.79	0.35	-	78,78,78,78	0
59	MG	DA	3041	1/1	0.96	0.26	-	20,20,20,20	0
59	MG	AA	4030	1/1	0.96	0.17	-	66,66,66,66	0
59	MG	DA	3887	1/1	0.77	0.35	-	68,68,68,68	0
59	MG	BA	1676	1/1	0.84	0.16	-	84,84,84,84	0
59	MG	AA	4116	1/1	0.73	0.26	-	98,98,98,98	0
59	MG	DA	3734	1/1	0.97	0.06	-	55,55,55,55	0
59	MG	AA	3042	1/1	0.96	0.16	-	35,35,35,35	0
59	MG	BA	2115	1/1	0.61	0.27	-	118,118,118,118	0
59	MG	BA	1849	1/1	0.91	0.14	-	74,74,74,74	0
59	MG	AA	3937	1/1	0.96	0.19	-	67,67,67,67	0
59	MG	BA	1959	1/1	0.87	0.21	-	64,64,64,64	0
59	MG	DA	3532	1/1	0.95	0.33	-	49,49,49,49	0
59	MG	AA	3285	1/1	0.82	0.12	-	62,62,62,62	0
59	MG	DA	3872	1/1	0.79	0.15	-	75,75,75,75	0
59	MG	DA	4475	1/1	0.95	0.17	-	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4596	1/1	0.93	0.33	-	63,63,63,63	0
59	MG	BA	1789	1/1	0.73	0.33	-	105,105,105,105	0
59	MG	CA	2003	1/1	0.95	0.23	-	77,77,77,77	0
59	MG	DA	3716	1/1	0.96	0.23	-	13,13,13,13	0
59	MG	CA	1615	1/1	0.92	0.19	-	60,60,60,60	0
59	MG	AA	3781	1/1	0.48	0.15	-	104,104,104,104	0
59	MG	BS	106	1/1	0.69	0.33	-	100,100,100,100	0
59	MG	DA	4439	1/1	0.98	0.10	-	58,58,58,58	0
59	MG	DA	4665	1/1	0.81	0.20	-	76,76,76,76	0
59	MG	AA	3481	1/1	0.92	0.17	-	61,61,61,61	0
59	MG	BA	1939	1/1	0.82	0.34	-	81,81,81,81	0
59	MG	DA	4982	1/1	0.84	0.60	-	53,53,53,53	0
59	MG	AA	4144	1/1	0.95	0.11	-	100,100,100,100	0
59	MG	AA	3427	1/1	0.91	0.07	-	47,47,47,47	0
59	MG	AA	3099	1/1	0.94	0.11	-	33,33,33,33	0
59	MG	AA	3133	1/1	0.99	0.10	-	25,25,25,25	0
59	MG	DA	3760	1/1	0.91	0.25	-	78,78,78,78	0
59	MG	CA	2095	1/1	0.96	0.13	-	64,64,64,64	0
59	MG	BA	1766	1/1	0.81	0.11	-	74,74,74,74	0
59	MG	CA	1716	1/1	0.91	0.31	-	66,66,66,66	0
59	MG	BA	2171	1/1	0.87	0.34	-	132,132,132,132	0
59	MG	BG	306	1/1	0.70	0.22	-	108,108,108,108	0
59	MG	DA	3834	1/1	0.97	0.20	-	57,57,57,57	0
59	MG	BA	1771	1/1	0.80	0.41	-	74,74,74,74	0
59	MG	AA	3693	1/1	0.85	0.16	-	52,52,52,52	0
59	MG	DA	4618	1/1	0.94	0.17	-	61,61,61,61	0
59	MG	DA	4420	1/1	0.96	0.12	-	40,40,40,40	0
59	MG	DA	3815	1/1	0.87	0.21	-	83,83,83,83	0
59	MG	CA	1864	1/1	0.82	0.28	-	82,82,82,82	0
59	MG	CA	1645	1/1	0.94	0.21	-	74,74,74,74	0
59	MG	DA	3928	1/1	0.95	0.07	-	49,49,49,49	0
59	MG	DA	4886	1/1	0.79	0.41	-	60,60,60,60	0
59	MG	CA	2097	1/1	0.72	0.15	-	82,82,82,82	0
59	MG	CA	1848	1/1	0.58	0.28	-	100,100,100,100	0
59	MG	DA	3230	1/1	0.85	0.23	-	43,43,43,43	0
59	MG	BA	2186	1/1	0.82	0.16	-	79,79,79,79	0
59	MG	DA	4904	1/1	0.73	0.31	-	71,71,71,71	0
59	MG	BA	1685	1/1	0.94	0.13	-	45,45,45,45	0
59	MG	BA	2130	1/1	0.79	0.13	-	86,86,86,86	0
59	MG	DA	3563	1/1	0.99	0.14	-	44,44,44,44	0
59	MG	DA	3807	1/1	0.96	0.12	-	59,59,59,59	0
59	MG	BA	1756	1/1	0.59	0.16	-	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3436	1/1	0.90	0.24	-	127,127,127,127	0
59	MG	DA	3338	1/1	0.94	0.10	-	49,49,49,49	0
59	MG	DA	5020	1/1	0.89	0.16	-	63,63,63,63	0
59	MG	BA	1790	1/1	0.94	0.09	-	56,56,56,56	0
59	MG	AA	3314	1/1	0.92	0.12	-	74,74,74,74	0
59	MG	CA	1960	1/1	0.66	0.11	-	91,91,91,91	0
59	MG	AA	4119	1/1	0.83	0.36	-	112,112,112,112	0
59	MG	DA	4140	1/1	0.97	0.23	-	47,47,47,47	0
59	MG	CA	1966	1/1	0.81	0.19	-	69,69,69,69	0
59	MG	BA	1831	1/1	0.86	0.11	-	81,81,81,81	0
59	MG	BA	1726	1/1	0.91	0.25	-	62,62,62,62	0
59	MG	DA	4340	1/1	0.92	0.26	-	60,60,60,60	0
59	MG	CD	107	1/1	0.88	0.16	-	57,57,57,57	0
59	MG	DA	3065	1/1	0.97	0.11	-	6,6,6,6	0
59	MG	DA	3919	1/1	0.76	0.32	-	76,76,76,76	0
59	MG	BA	1932	1/1	0.81	0.13	-	107,107,107,107	0
59	MG	DA	4516	1/1	0.81	0.25	-	53,53,53,53	0
59	MG	AA	3562	1/1	0.92	0.11	-	55,55,55,55	0
59	MG	CA	2266	1/1	0.83	0.23	-	73,73,73,73	0
59	MG	DA	4468	1/1	0.92	0.27	-	60,60,60,60	0
59	MG	DA	4786	1/1	0.93	0.14	-	81,81,81,81	0
59	MG	DA	4663	1/1	0.84	0.21	-	69,69,69,69	0
59	MG	CA	1850	1/1	0.83	0.20	-	100,100,100,100	0
59	MG	CD	109	1/1	0.79	0.12	-	70,70,70,70	0
59	MG	CA	2200	1/1	0.81	0.12	-	73,73,73,73	0
59	MG	BH	202	1/1	0.92	0.10	-	61,61,61,61	0
59	MG	DA	4125	1/1	0.84	0.32	-	76,76,76,76	0
59	MG	DA	4809	1/1	0.64	0.47	-	59,59,59,59	0
59	MG	DA	4868	1/1	0.93	0.13	-	70,70,70,70	0
59	MG	AA	3012	1/1	0.97	0.27	-	21,21,21,21	0
59	MG	DA	3926	1/1	0.94	0.35	-	49,49,49,49	0
59	MG	DA	3704	1/1	0.96	0.22	-	33,33,33,33	0
59	MG	CA	2031	1/1	0.91	0.22	-	77,77,77,77	0
59	MG	DA	3466	1/1	0.91	0.20	-	79,79,79,79	0
59	MG	AA	3124	1/1	0.68	0.35	-	71,71,71,71	0
59	MG	AA	3202	1/1	0.95	0.20	-	31,31,31,31	0
59	MG	AA	3744	1/1	0.69	0.20	-	64,64,64,64	0
59	MG	DA	5038	1/1	0.86	0.21	-	84,84,84,84	0
59	MG	DA	4979	1/1	0.93	0.26	-	47,47,47,47	0
59	MG	DA	3111	1/1	0.91	0.38	-	64,64,64,64	0
59	MG	AA	3482	1/1	0.81	0.21	-	58,58,58,58	0
59	MG	BA	1645	1/1	0.90	0.30	-	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3118	1/1	0.84	0.30	-	69,69,69,69	0
59	MG	DA	4765	1/1	0.82	0.09	-	120,120,120,120	0
59	MG	DA	4186	1/1	0.84	0.24	-	45,45,45,45	0
59	MG	AA	3404	1/1	0.92	0.42	-	77,77,77,77	0
59	MG	DA	4907	1/1	0.96	0.56	-	57,57,57,57	0
59	MG	DS	206	1/1	0.77	0.24	-	60,60,60,60	0
59	MG	BA	1941	1/1	0.94	0.11	-	58,58,58,58	0
59	MG	CA	1686	1/1	0.96	0.28	-	35,35,35,35	0
59	MG	DA	4707	1/1	0.93	0.31	-	86,86,86,86	0
59	MG	DA	3012	1/1	0.96	0.32	-	19,19,19,19	0
59	MG	AA	3230	1/1	0.98	0.17	-	51,51,51,51	0
59	MG	AA	3510	1/1	0.91	0.12	-	26,26,26,26	0
59	MG	BA	1667	1/1	0.88	0.22	-	62,62,62,62	0
59	MG	AA	3288	1/1	0.86	0.08	-	51,51,51,51	0
59	MG	DA	4625	1/1	0.79	0.29	-	67,67,67,67	0
59	MG	AA	3341	1/1	0.81	0.16	-	57,57,57,57	0
59	MG	DA	3047	1/1	0.99	0.18	-	1,1,1,1	0
59	MG	DA	4339	1/1	0.95	0.27	-	71,71,71,71	0
59	MG	DA	3655	1/1	0.86	0.45	-	86,86,86,86	0
59	MG	BW	206	1/1	0.93	0.07	-	56,56,56,56	0
59	MG	AD	304	1/1	0.95	0.08	-	65,65,65,65	0
59	MG	AA	3860	1/1	0.94	0.09	-	83,83,83,83	0
59	MG	BA	1936	1/1	0.74	0.25	-	80,80,80,80	0
59	MG	DA	4026	1/1	0.89	0.21	-	55,55,55,55	0
59	MG	DB	254	1/1	0.86	0.27	-	66,66,66,66	0
59	MG	DA	4429	1/1	0.94	0.15	-	55,55,55,55	0
59	MG	DA	5025	1/1	0.90	0.22	-	100,100,100,100	0
59	MG	CA	1853	1/1	0.88	0.15	-	61,61,61,61	0
59	MG	CA	1985	1/1	0.96	0.18	-	61,61,61,61	0
59	MG	AA	3316	1/1	0.98	0.10	-	47,47,47,47	0
59	MG	AA	3599	1/1	0.96	0.14	-	110,110,110,110	0
59	MG	DA	3481	1/1	0.78	0.31	-	93,93,93,93	0
59	MG	AA	3193	1/1	0.89	0.17	-	99,99,99,99	0
59	MG	AA	3737	1/1	0.93	0.13	-	55,55,55,55	0
59	MG	DA	3557	1/1	0.97	0.13	-	55,55,55,55	0
59	MG	DA	3088	1/1	0.94	0.26	-	12,12,12,12	0
59	MG	CD	124	1/1	0.96	0.45	-	73,73,73,73	0
59	MG	DA	3641	1/1	0.83	0.23	-	60,60,60,60	0
59	MG	DA	3620	1/1	0.90	0.19	-	58,58,58,58	0
59	MG	DA	4700	1/1	0.63	0.25	-	75,75,75,75	0
59	MG	DA	4271	1/1	0.92	0.74	-	53,53,53,53	0
59	MG	CA	2118	1/1	0.87	0.18	-	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3836	1/1	0.82	0.45	-	85,85,85,85	0
59	MG	CA	1882	1/1	0.91	0.27	-	55,55,55,55	0
59	MG	AA	4103	1/1	0.83	0.25	-	54,54,54,54	0
59	MG	AA	4012	1/1	0.76	0.24	-	85,85,85,85	0
59	MG	CA	2059	1/1	0.84	0.14	-	95,95,95,95	0
59	MG	CA	1946	1/1	0.46	0.45	-	112,112,112,112	0
59	MG	DA	3094	1/1	0.91	0.29	-	23,23,23,23	0
59	MG	DA	4483	1/1	0.75	0.22	-	64,64,64,64	0
59	MG	DA	3250	1/1	0.94	0.19	-	13,13,13,13	0
59	MG	DA	3972	1/1	0.98	0.16	-	41,41,41,41	0
59	MG	DA	4156	1/1	0.89	0.18	-	47,47,47,47	0
59	MG	DB	267	1/1	0.82	0.17	-	73,73,73,73	0
59	MG	AA	3869	1/1	0.57	0.27	-	68,68,68,68	0
59	MG	BA	2196	1/1	0.91	0.20	-	65,65,65,65	0
59	MG	BA	1931	1/1	0.60	0.22	-	68,68,68,68	0
59	MG	AA	3857	1/1	0.91	0.42	-	65,65,65,65	0
59	MG	BA	2058	1/1	0.91	0.15	-	104,104,104,104	0
59	MG	AA	3451	1/1	0.94	0.11	-	89,89,89,89	0
59	MG	DK	202	1/1	0.92	0.13	-	66,66,66,66	0
59	MG	CA	2287	1/1	0.49	0.28	-	119,119,119,119	0
59	MG	CA	1986	1/1	0.93	0.13	-	95,95,95,95	0
59	MG	CA	1767	1/1	0.76	0.18	-	80,80,80,80	0
59	MG	CA	2085	1/1	0.98	0.16	-	58,58,58,58	0
59	MG	CA	2050	1/1	0.80	0.28	-	80,80,80,80	0
59	MG	CA	2260	1/1	0.83	0.13	-	67,67,67,67	0
59	MG	D0	202	1/1	0.87	0.21	-	62,62,62,62	0
59	MG	DB	270	1/1	0.92	0.26	-	61,61,61,61	0
59	MG	BA	2123	1/1	0.97	0.10	-	90,90,90,90	0
59	MG	DA	4791	1/1	0.88	0.34	-	69,69,69,69	0
59	MG	AA	4009	1/1	0.58	0.17	-	99,99,99,99	0
59	MG	DA	3772	1/1	0.94	0.16	-	65,65,65,65	0
59	MG	DO	215	1/1	0.99	0.09	-	41,41,41,41	0
59	MG	BA	1837	1/1	0.99	0.10	-	88,88,88,88	0
59	MG	DA	4875	1/1	0.97	0.07	-	88,88,88,88	0
59	MG	AA	3391	1/1	0.96	0.16	-	39,39,39,39	0
59	MG	AB	201	1/1	0.90	0.14	-	42,42,42,42	0
59	MG	AA	4031	1/1	0.95	0.10	-	84,84,84,84	0
59	MG	DB	228	1/1	0.80	0.64	-	91,91,91,91	0
59	MG	AA	3502	1/1	0.88	0.20	-	55,55,55,55	0
59	MG	AA	3141	1/1	0.89	0.35	-	66,66,66,66	0
59	MG	BA	1742	1/1	0.92	0.25	-	46,46,46,46	0
59	MG	AA	3731	1/1	0.98	0.08	-	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DM	203	1/1	0.91	0.14	-	59,59,59,59	0
59	MG	DA	4841	1/1	0.96	0.27	-	80,80,80,80	0
59	MG	CA	1825	1/1	0.67	0.14	-	90,90,90,90	0
59	MG	CA	2193	1/1	0.77	0.33	-	86,86,86,86	0
59	MG	DA	3146	1/1	0.95	0.21	-	55,55,55,55	0
59	MG	CA	2115	1/1	0.92	0.29	-	78,78,78,78	0
59	MG	DA	4404	1/1	0.80	0.18	-	68,68,68,68	0
59	MG	DA	3289	1/1	0.93	0.19	-	27,27,27,27	0
59	MG	BA	1682	1/1	0.97	0.28	-	51,51,51,51	0
59	MG	DA	3487	1/1	0.75	0.21	-	62,62,62,62	0
59	MG	DB	209	1/1	0.51	0.57	-	77,77,77,77	0
59	MG	CA	2020	1/1	0.90	0.17	-	67,67,67,67	0
59	MG	AA	3660	1/1	0.89	0.29	-	68,68,68,68	0
59	MG	AN	201	1/1	0.89	0.34	-	118,118,118,118	0
59	MG	DA	3594	1/1	0.90	0.09	-	49,49,49,49	0
59	MG	DA	3404	1/1	0.81	0.29	-	65,65,65,65	0
59	MG	BA	2082	1/1	0.90	0.16	-	96,96,96,96	0
59	MG	DB	231	1/1	0.77	0.48	-	83,83,83,83	0
59	MG	AA	3244	1/1	0.96	0.28	-	55,55,55,55	0
59	MG	AA	3159	1/1	0.89	0.19	-	61,61,61,61	0
59	MG	DA	3531	1/1	0.90	0.23	-	53,53,53,53	0
59	MG	DA	4855	1/1	0.96	0.12	-	74,74,74,74	0
59	MG	DA	4237	1/1	0.89	0.26	-	78,78,78,78	0
59	MG	DA	4316	1/1	0.78	0.24	-	67,67,67,67	0
59	MG	DA	4648	1/1	0.73	0.26	-	61,61,61,61	0
59	MG	CA	1696	1/1	0.95	0.18	-	33,33,33,33	0
59	MG	AA	4075	1/1	0.47	0.61	-	132,132,132,132	0
59	MG	CA	2058	1/1	0.88	0.19	-	73,73,73,73	0
59	MG	AA	3787	1/1	0.93	0.12	-	70,70,70,70	0
59	MG	DA	4909	1/1	0.87	0.26	-	70,70,70,70	0
59	MG	AA	3084	1/1	0.91	0.11	-	55,55,55,55	0
59	MG	DA	4206	1/1	0.94	0.16	-	45,45,45,45	0
59	MG	DA	3840	1/1	0.87	0.13	-	58,58,58,58	0
59	MG	BA	2200	1/1	0.96	0.14	-	102,102,102,102	0
59	MG	C1	104	1/1	0.87	0.24	-	71,71,71,71	0
59	MG	DA	3952	1/1	0.95	0.12	-	46,46,46,46	0
59	MG	DA	4374	1/1	0.90	0.49	-	77,77,77,77	0
59	MG	BA	1946	1/1	0.93	0.15	-	70,70,70,70	0
59	MG	CA	1795	1/1	0.85	0.19	-	109,109,109,109	0
59	MG	AA	3914	1/1	0.81	0.21	-	78,78,78,78	0
59	MG	AA	4104	1/1	0.93	0.37	-	71,71,71,71	0
59	MG	DA	5058	1/1	0.53	0.43	-	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4887	1/1	0.98	0.15	-	87,87,87,87	0
59	MG	DV	303	1/1	0.85	0.18	-	67,67,67,67	0
59	MG	AA	3909	1/1	0.95	0.41	-	90,90,90,90	0
59	MG	DA	4110	1/1	0.87	0.24	-	51,51,51,51	0
59	MG	CA	1892	1/1	0.73	0.24	-	68,68,68,68	0
59	MG	BA	2027	1/1	0.89	0.24	-	107,107,107,107	0
59	MG	DA	3357	1/1	0.95	0.15	-	59,59,59,59	0
59	MG	AA	4106	1/1	0.69	0.28	-	88,88,88,88	0
59	MG	CA	1674	1/1	0.94	0.37	-	60,60,60,60	0
59	MG	DA	3931	1/1	0.83	0.16	-	83,83,83,83	0
59	MG	DA	3929	1/1	0.95	0.07	-	73,73,73,73	0
59	MG	DA	4317	1/1	0.68	0.21	-	61,61,61,61	0
59	MG	CA	1740	1/1	0.94	0.27	-	48,48,48,48	0
59	MG	DA	4068	1/1	0.97	0.12	-	50,50,50,50	0
59	MG	DA	5050	1/1	0.67	0.33	-	83,83,83,83	0
59	MG	CA	2134	1/1	0.90	0.22	-	89,89,89,89	0
59	MG	BA	1797	1/1	0.96	0.24	-	63,63,63,63	0
59	MG	DA	4088	1/1	0.91	0.33	-	83,83,83,83	0
59	MG	DG	205	1/1	0.86	0.29	-	64,64,64,64	0
59	MG	DB	257	1/1	0.90	0.24	-	57,57,57,57	0
59	MG	DA	3406	1/1	0.81	0.31	-	59,59,59,59	0
59	MG	BA	1637	1/1	0.96	0.25	-	57,57,57,57	0
59	MG	AA	3960	1/1	0.87	0.17	-	101,101,101,101	0
59	MG	DA	3170	1/1	0.97	0.27	-	16,16,16,16	0
59	MG	DA	4305	1/1	0.93	0.19	-	46,46,46,46	0
59	MG	CA	2075	1/1	0.82	0.21	-	84,84,84,84	0
59	MG	DA	3907	1/1	0.86	0.15	-	83,83,83,83	0
59	MG	DA	4256	1/1	0.97	0.41	-	115,115,115,115	0
59	MG	DA	3014	1/1	0.99	0.37	-	7,7,7,7	0
59	MG	AA	3608	1/1	0.80	0.17	-	86,86,86,86	0
59	MG	BU	1601	1/1	0.94	0.09	-	56,56,56,56	0
59	MG	BA	2121	1/1	0.93	0.32	-	84,84,84,84	0
59	MG	DA	3460	1/1	0.95	0.25	-	46,46,46,46	0
59	MG	AA	3685	1/1	0.63	0.28	-	65,65,65,65	0
59	MG	DA	3513	1/1	0.88	0.32	-	50,50,50,50	0
59	MG	AA	3180	1/1	0.87	0.14	-	62,62,62,62	0
59	MG	DA	3272	1/1	0.93	0.25	-	29,29,29,29	0
59	MG	BA	2226	1/1	0.89	0.39	-	101,101,101,101	0
59	MG	CA	1768	1/1	0.94	0.14	-	48,48,48,48	0
59	MG	AA	3578	1/1	0.90	0.15	-	33,33,33,33	0
59	MG	CA	1868	1/1	0.97	0.07	-	29,29,29,29	0
59	MG	DA	4350	1/1	0.96	0.21	-	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3889	1/1	0.96	0.10	-	73,73,73,73	0
59	MG	DE	313	1/1	0.90	0.20	-	73,73,73,73	0
59	MG	DB	266	1/1	0.87	0.18	-	51,51,51,51	0
59	MG	AA	3232	1/1	0.98	0.08	-	25,25,25,25	0
59	MG	DB	263	1/1	0.69	0.24	-	80,80,80,80	0
59	MG	CA	2179	1/1	0.85	0.22	-	80,80,80,80	0
59	MG	CA	2006	1/1	0.91	0.14	-	67,67,67,67	0
59	MG	BA	2046	1/1	0.85	0.17	-	95,95,95,95	0
59	MG	DA	4670	1/1	0.97	0.25	-	61,61,61,61	0
59	MG	BA	2038	1/1	0.92	0.24	-	80,80,80,80	0
59	MG	AA	3408	1/1	0.57	0.29	-	61,61,61,61	0
59	MG	DA	3417	1/1	0.89	0.20	-	62,62,62,62	0
59	MG	AA	3950	1/1	0.90	0.06	-	63,63,63,63	0
59	MG	CA	2080	1/1	0.82	0.29	-	83,83,83,83	0
59	MG	DA	4780	1/1	0.64	0.17	-	62,62,62,62	0
59	MG	AA	3645	1/1	0.80	0.26	-	46,46,46,46	0
59	MG	BA	1998	1/1	0.92	0.13	-	76,76,76,76	0
59	MG	DA	4728	1/1	0.59	0.47	-	86,86,86,86	0
59	MG	DA	3457	1/1	0.93	0.28	-	76,76,76,76	0
59	MG	DA	3200	1/1	0.88	0.20	-	67,67,67,67	0
59	MG	BA	1861	1/1	0.92	0.11	-	78,78,78,78	0
59	MG	DA	4004	1/1	0.84	0.62	-	90,90,90,90	0
59	MG	DA	4675	1/1	0.91	0.28	-	73,73,73,73	0
59	MG	CA	1961	1/1	0.87	0.29	-	70,70,70,70	0
59	MG	DA	5012	1/1	0.80	0.25	-	100,100,100,100	0
59	MG	AA	3060	1/1	0.75	0.12	-	76,76,76,76	0
59	MG	CA	2302	1/1	0.78	0.13	-	77,77,77,77	0
59	MG	DA	3821	1/1	0.91	0.20	-	81,81,81,81	0
59	MG	AA	4046	1/1	0.42	0.18	-	111,111,111,111	0
59	MG	DA	4457	1/1	0.96	0.13	-	75,75,75,75	0
59	MG	CD	104	1/1	0.56	0.41	-	74,74,74,74	0
59	MG	DA	4180	1/1	0.83	0.23	-	66,66,66,66	0
59	MG	AA	3877	1/1	0.92	0.28	-	109,109,109,109	0
59	MG	CA	1788	1/1	0.93	0.07	-	79,79,79,79	0
59	MG	DA	4716	1/1	0.56	0.10	-	77,77,77,77	0
59	MG	CB	107	1/1	0.62	0.23	-	106,106,106,106	0
59	MG	DA	5053	1/1	0.78	0.51	-	101,101,101,101	0
59	MG	AA	3931	1/1	0.85	0.20	-	86,86,86,86	0
59	MG	A0	201	1/1	0.80	0.17	-	61,61,61,61	0
59	MG	BA	1860	1/1	0.94	0.07	-	60,60,60,60	0
59	MG	DA	4673	1/1	0.95	0.45	-	91,91,91,91	0
59	MG	AA	3168	1/1	0.94	0.25	-	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4448	1/1	0.67	0.23	-	95,95,95,95	0
59	MG	AF	307	1/1	0.93	0.24	-	63,63,63,63	0
59	MG	BA	2197	1/1	0.87	0.25	-	136,136,136,136	0
59	MG	DA	4037	1/1	0.78	0.22	-	81,81,81,81	0
59	MG	DA	3165	1/1	0.92	0.31	-	46,46,46,46	0
59	MG	CA	2149	1/1	0.81	0.39	-	103,103,103,103	0
59	MG	AA	3912	1/1	0.85	0.37	-	91,91,91,91	0
59	MG	BD	122	1/1	0.74	0.38	-	100,100,100,100	0
59	MG	DA	4023	1/1	0.99	0.09	-	41,41,41,41	0
59	MG	CA	2057	1/1	0.64	0.15	-	111,111,111,111	0
59	MG	DA	3527	1/1	0.94	0.12	-	46,46,46,46	0
59	MG	CA	2048	1/1	0.86	0.15	-	77,77,77,77	0
59	MG	DA	4951	1/1	0.48	0.33	-	102,102,102,102	0
59	MG	BA	1992	1/1	0.92	0.17	-	95,95,95,95	0
59	MG	BA	1906	1/1	0.66	0.22	-	107,107,107,107	0
59	MG	DA	4509	1/1	0.90	0.29	-	64,64,64,64	0
59	MG	CC	122	1/1	0.94	0.23	-	69,69,69,69	0
59	MG	DA	3864	1/1	0.86	0.15	-	69,69,69,69	0
59	MG	DA	5057	1/1	0.90	0.57	-	97,97,97,97	0
59	MG	CA	1777	1/1	0.88	0.32	-	49,49,49,49	0
59	MG	DA	3288	1/1	0.94	0.13	-	52,52,52,52	0
59	MG	DA	3898	1/1	0.85	0.10	-	130,130,130,130	0
59	MG	DA	5026	1/1	0.86	1.09	-	42,42,42,42	0
59	MG	AS	201	1/1	0.91	0.54	-	67,67,67,67	0
59	MG	BD	113	1/1	0.77	0.13	-	78,78,78,78	0
59	MG	DA	3321	1/1	0.94	0.29	-	34,34,34,34	0
59	MG	DA	4535	1/1	0.47	0.37	-	89,89,89,89	0
59	MG	DA	4295	1/1	0.83	0.17	-	48,48,48,48	0
59	MG	AQ	205	1/1	0.48	0.48	-	94,94,94,94	0
59	MG	AA	3350	1/1	0.84	0.12	-	36,36,36,36	0
59	MG	BD	117	1/1	0.81	0.27	-	115,115,115,115	0
59	MG	AA	3794	1/1	0.90	0.17	-	70,70,70,70	0
59	MG	AA	3113	1/1	0.53	0.21	-	85,85,85,85	0
59	MG	AA	3335	1/1	0.83	0.18	-	83,83,83,83	0
59	MG	DA	3372	1/1	0.90	0.18	-	54,54,54,54	0
59	MG	DA	4563	1/1	0.95	0.31	-	77,77,77,77	0
59	MG	BA	1907	1/1	0.92	0.15	-	56,56,56,56	0
59	MG	DA	3678	1/1	0.51	0.49	-	123,123,123,123	0
59	MG	AA	3154	1/1	0.75	0.19	-	59,59,59,59	0
59	MG	CA	1668	1/1	0.92	0.21	-	88,88,88,88	0
59	MG	DA	4286	1/1	0.95	0.24	-	49,49,49,49	0
59	MG	CA	1625	1/1	0.89	0.36	-	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	4062	1/1	0.93	0.14	-	81,81,81,81	0
59	MG	BA	1967	1/1	0.81	0.36	-	77,77,77,77	0
59	MG	AA	3135	1/1	0.90	0.20	-	19,19,19,19	0
59	MG	CA	2186	1/1	0.81	0.18	-	121,121,121,121	0
59	MG	BA	1909	1/1	0.90	0.34	-	66,66,66,66	0
59	MG	DA	3243	1/1	0.97	0.29	-	48,48,48,48	0
59	MG	CA	2265	1/1	0.90	0.10	-	64,64,64,64	0
59	MG	CA	2252	1/1	0.86	0.13	-	85,85,85,85	0
59	MG	AA	3499	1/1	0.87	0.29	-	101,101,101,101	0
59	MG	CA	1917	1/1	0.96	0.15	-	64,64,64,64	0
59	MG	BB	105	1/1	0.88	0.10	-	85,85,85,85	0
59	MG	BA	2228	1/1	0.91	0.21	-	98,98,98,98	0
59	MG	AA	3922	1/1	0.61	0.46	-	65,65,65,65	0
59	MG	DO	213	1/1	0.96	0.29	-	96,96,96,96	0
59	MG	AA	3127	1/1	0.93	0.09	-	46,46,46,46	0
59	MG	CA	1742	1/1	0.93	0.13	-	40,40,40,40	0
59	MG	BA	2048	1/1	0.95	0.28	-	95,95,95,95	0
59	MG	AA	4109	1/1	0.83	0.13	-	81,81,81,81	0
59	MG	BC	102	1/1	0.92	0.10	-	78,78,78,78	0
59	MG	DA	4772	1/1	0.99	0.11	-	46,46,46,46	0
59	MG	DA	4511	1/1	0.92	0.15	-	90,90,90,90	0
59	MG	BA	1689	1/1	0.88	0.07	-	64,64,64,64	0
59	MG	DA	4882	1/1	0.98	0.16	-	74,74,74,74	0
59	MG	DA	3389	1/1	0.96	0.20	-	48,48,48,48	0
59	MG	DA	3696	1/1	0.97	0.15	-	19,19,19,19	0
59	MG	DA	3940	1/1	0.90	0.24	-	64,64,64,64	0
59	MG	AA	3962	1/1	0.92	0.31	-	57,57,57,57	0
59	MG	DA	3462	1/1	0.85	0.28	-	56,56,56,56	0
59	MG	DA	3869	1/1	0.92	0.25	-	83,83,83,83	0
59	MG	CA	2068	1/1	0.96	0.12	-	89,89,89,89	0
59	MG	DA	3380	1/1	0.99	0.13	-	55,55,55,55	0
59	MG	AA	4074	1/1	0.86	0.22	-	94,94,94,94	0
59	MG	AA	3126	1/1	0.97	0.22	-	58,58,58,58	0
59	MG	DA	5007	1/1	0.92	0.45	-	82,82,82,82	0
59	MG	BA	2068	1/1	0.76	0.47	-	90,90,90,90	0
59	MG	CA	2100	1/1	0.94	0.17	-	40,40,40,40	0
59	MG	AB	219	1/1	0.73	0.15	-	75,75,75,75	0
59	MG	AA	3946	1/1	0.74	0.07	-	98,98,98,98	0
59	MG	DA	4132	1/1	0.93	0.31	-	40,40,40,40	0
59	MG	DA	3424	1/1	0.87	0.12	-	47,47,47,47	0
59	MG	DA	3773	1/1	0.63	0.23	-	70,70,70,70	0
59	MG	BA	1765	1/1	0.83	0.17	-	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3329	1/1	0.87	0.12	-	66,66,66,66	0
59	MG	DT	103	1/1	0.98	0.21	-	40,40,40,40	0
59	MG	BA	1859	1/1	0.70	0.50	-	146,146,146,146	0
59	MG	AA	3140	1/1	0.98	0.21	-	57,57,57,57	0
59	MG	BA	1863	1/1	0.91	0.05	-	81,81,81,81	0
59	MG	CA	1630	1/1	0.96	0.14	-	52,52,52,52	0
59	MG	DA	4860	1/1	0.86	0.26	-	64,64,64,64	0
59	MG	AA	4047	1/1	0.93	0.10	-	59,59,59,59	0
59	MG	DA	3355	1/1	0.93	0.30	-	64,64,64,64	0
59	MG	DA	3498	1/1	0.82	0.22	-	44,44,44,44	0
59	MG	DA	4720	1/1	0.87	0.13	-	88,88,88,88	0
59	MG	DA	4111	1/1	0.99	0.09	-	54,54,54,54	0
59	MG	DA	3138	1/1	0.94	0.21	-	44,44,44,44	0
59	MG	CA	1670	1/1	0.97	0.36	-	46,46,46,46	0
59	MG	CC	115	1/1	0.76	0.33	-	69,69,69,69	0
59	MG	AA	4019	1/1	0.56	0.38	-	99,99,99,99	0
59	MG	DA	4396	1/1	0.90	0.47	-	85,85,85,85	0
59	MG	CA	2219	1/1	0.84	0.22	-	57,57,57,57	0
59	MG	DA	4323	1/1	0.95	0.21	-	56,56,56,56	0
59	MG	DA	3785	1/1	0.95	0.17	-	88,88,88,88	0
59	MG	DA	4202	1/1	0.93	0.42	-	69,69,69,69	0
59	MG	DA	4647	1/1	0.96	0.31	-	84,84,84,84	0
59	MG	DA	4512	1/1	0.74	0.67	-	100,100,100,100	0
59	MG	DA	4641	1/1	0.25	0.68	-	134,134,134,134	0
59	MG	AA	3160	1/1	0.64	0.21	-	64,64,64,64	0
59	MG	DA	3906	1/1	0.75	0.16	-	90,90,90,90	0
59	MG	CA	1807	1/1	0.91	0.18	-	63,63,63,63	0
59	MG	DA	3801	1/1	0.93	0.63	-	96,96,96,96	0
59	MG	CA	1923	1/1	0.97	0.13	-	48,48,48,48	0
59	MG	BA	1921	1/1	0.95	0.09	-	85,85,85,85	0
59	MG	DA	4604	1/1	0.87	0.17	-	111,111,111,111	0
59	MG	D0	201	1/1	0.94	0.30	-	37,37,37,37	0
59	MG	DA	4479	1/1	0.98	0.07	-	50,50,50,50	0
59	MG	DA	3804	1/1	0.97	0.27	-	36,36,36,36	0
59	MG	CA	2131	1/1	0.95	0.20	-	61,61,61,61	0
59	MG	DA	3514	1/1	0.83	0.32	-	94,94,94,94	0
59	MG	BA	2224	1/1	0.80	0.20	-	83,83,83,83	0
59	MG	BA	2074	1/1	0.96	0.45	-	77,77,77,77	0
59	MG	AA	3561	1/1	0.80	0.15	-	45,45,45,45	0
59	MG	DA	4710	1/1	0.94	0.22	-	102,102,102,102	0
59	MG	DA	4992	1/1	0.92	0.26	-	88,88,88,88	0
59	MG	D8	109	1/1	0.94	0.15	-	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3166	1/1	0.91	0.29	-	56,56,56,56	0
59	MG	DA	4757	1/1	0.77	0.17	-	46,46,46,46	0
59	MG	DA	3644	1/1	0.87	0.35	-	84,84,84,84	0
59	MG	DA	4947	1/1	0.86	0.33	-	87,87,87,87	0
59	MG	AA	3122	1/1	0.69	0.18	-	73,73,73,73	0
59	MG	DA	3745	1/1	0.79	0.31	-	49,49,49,49	0
59	MG	A8	102	1/1	0.74	0.20	-	68,68,68,68	0
59	MG	AA	3669	1/1	0.96	0.13	-	44,44,44,44	0
59	MG	BA	2206	1/1	0.74	0.16	-	106,106,106,106	0
59	MG	DA	3859	1/1	0.74	0.31	-	92,92,92,92	0
59	MG	DA	3995	1/1	0.91	0.29	-	71,71,71,71	0
59	MG	AA	3827	1/1	0.84	0.21	-	62,62,62,62	0
59	MG	DA	3862	1/1	0.89	0.16	-	71,71,71,71	0
59	MG	AA	3753	1/1	0.65	0.17	-	91,91,91,91	0
59	MG	AA	3715	1/1	0.93	0.08	-	47,47,47,47	0
59	MG	DA	3806	1/1	0.95	0.25	-	55,55,55,55	0
59	MG	DA	5031	1/1	0.88	0.35	-	68,68,68,68	0
59	MG	BA	2162	1/1	0.82	0.12	-	115,115,115,115	0
59	MG	AA	4165	1/1	0.97	0.10	-	64,64,64,64	0
59	MG	DA	3746	1/1	0.92	0.18	-	36,36,36,36	0
59	MG	DA	3510	1/1	0.93	0.43	-	56,56,56,56	0
59	MG	CA	2036	1/1	0.96	0.05	-	83,83,83,83	0
59	MG	CB	102	1/1	0.94	0.10	-	65,65,65,65	0
59	MG	DA	4999	1/1	0.94	0.24	-	74,74,74,74	0
59	MG	DA	3932	1/1	0.94	0.20	-	53,53,53,53	0
59	MG	CA	2182	1/1	0.85	0.24	-	78,78,78,78	0
59	MG	AB	225	1/1	0.65	0.16	-	125,125,125,125	0
59	MG	DA	3688	1/1	0.97	0.23	-	42,42,42,42	0
59	MG	BC	107	1/1	0.92	0.31	-	65,65,65,65	0
59	MG	BA	1808	1/1	0.89	0.17	-	70,70,70,70	0
59	MG	AA	3422	1/1	0.79	0.14	-	73,73,73,73	0
59	MG	BA	1681	1/1	0.93	0.17	-	43,43,43,43	0
59	MG	DA	4969	1/1	0.96	0.10	-	75,75,75,75	0
59	MG	DA	3538	1/1	0.85	0.20	-	79,79,79,79	0
59	MG	BA	1674	1/1	0.92	0.11	-	45,45,45,45	0
59	MG	DA	4689	1/1	0.93	0.12	-	67,67,67,67	0
59	MG	BA	1715	1/1	0.89	0.28	-	75,75,75,75	0
59	MG	BA	1644	1/1	0.55	0.39	-	102,102,102,102	0
59	MG	DA	4901	1/1	0.88	0.33	-	84,84,84,84	0
59	MG	BA	2016	1/1	0.95	0.10	-	78,78,78,78	0
59	MG	DA	3328	1/1	0.94	0.12	-	56,56,56,56	0
59	MG	DA	3045	1/1	0.97	0.28	-	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4041	1/1	0.85	0.32	-	101,101,101,101	0
59	MG	BC	104	1/1	0.97	0.15	-	45,45,45,45	0
59	MG	AG	203	1/1	0.79	0.16	-	97,97,97,97	0
59	MG	DA	4144	1/1	0.99	0.30	-	45,45,45,45	0
59	MG	CA	1916	1/1	0.81	0.11	-	61,61,61,61	0
59	MG	CB	111	1/1	0.93	0.15	-	54,54,54,54	0
59	MG	AA	3910	1/1	0.83	0.12	-	76,76,76,76	0
59	MG	CA	2001	1/1	0.98	0.22	-	75,75,75,75	0
59	MG	AA	3492	1/1	0.98	0.06	-	48,48,48,48	0
59	MG	DA	4099	1/1	0.89	0.10	-	55,55,55,55	0
59	MG	DA	4506	1/1	0.88	0.30	-	65,65,65,65	0
59	MG	AA	3812	1/1	0.78	0.21	-	83,83,83,83	0
59	MG	BD	105	1/1	0.75	0.31	-	87,87,87,87	0
59	MG	DU	203	1/1	0.96	0.17	-	45,45,45,45	0
59	MG	DA	3275	1/1	0.89	0.42	-	64,64,64,64	0
59	MG	AA	3709	1/1	0.97	0.20	-	66,66,66,66	0
59	MG	CA	1849	1/1	0.85	0.20	-	75,75,75,75	0
59	MG	DA	5047	1/1	0.85	0.32	-	79,79,79,79	0
59	MG	DA	3939	1/1	0.94	0.12	-	47,47,47,47	0
59	MG	CA	2317	1/1	0.76	0.20	-	104,104,104,104	0
59	MG	AD	305	1/1	0.95	0.25	-	53,53,53,53	0
59	MG	BA	2145	1/1	0.93	0.20	-	96,96,96,96	0
59	MG	DA	4376	1/1	0.82	0.20	-	60,60,60,60	0
59	MG	CA	1718	1/1	0.91	0.30	-	60,60,60,60	0
59	MG	AA	4083	1/1	0.79	0.16	-	74,74,74,74	0
59	MG	DA	4950	1/1	0.95	0.28	-	125,125,125,125	0
59	MG	DA	3429	1/1	0.94	0.30	-	30,30,30,30	0
59	MG	DA	4858	1/1	0.97	0.27	-	69,69,69,69	0
59	MG	BA	1885	1/1	0.96	0.25	-	44,44,44,44	0
59	MG	AA	3137	1/1	0.92	0.23	-	25,25,25,25	0
59	MG	DA	3628	1/1	0.48	0.35	-	92,92,92,92	0
59	MG	DW	105	1/1	0.78	0.21	-	81,81,81,81	0
59	MG	AA	3214	1/1	0.94	0.12	-	56,56,56,56	0
59	MG	DA	4705	1/1	0.81	0.58	-	93,93,93,93	0
59	MG	AA	3692	1/1	0.72	0.26	-	85,85,85,85	0
59	MG	DA	4149	1/1	0.73	0.30	-	70,70,70,70	0
59	MG	DA	5046	1/1	0.71	0.20	-	77,77,77,77	0
59	MG	DA	3533	1/1	0.96	0.14	-	47,47,47,47	0
59	MG	BA	1854	1/1	0.80	0.39	-	84,84,84,84	0
59	MG	AA	3582	1/1	0.96	0.28	-	54,54,54,54	0
59	MG	DS	201	1/1	0.70	0.32	-	88,88,88,88	0
59	MG	DA	4195	1/1	0.94	0.39	-	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4326	1/1	0.90	0.27	-	56,56,56,56	0
59	MG	BA	1613	1/1	0.95	0.44	-	84,84,84,84	0
59	MG	DA	3385	1/1	0.78	0.27	-	85,85,85,85	0
59	MG	BA	2056	1/1	0.93	0.27	-	69,69,69,69	0
59	MG	AA	3840	1/1	0.94	0.11	-	77,77,77,77	0
59	MG	AA	3555	1/1	0.96	0.15	-	60,60,60,60	0
59	MG	DA	4227	1/1	0.88	0.08	-	51,51,51,51	0
59	MG	CA	2012	1/1	0.93	0.25	-	69,69,69,69	0
59	MG	DA	4005	1/1	0.91	0.37	-	84,84,84,84	0
59	MG	DA	4162	1/1	0.99	0.28	-	59,59,59,59	0
59	MG	DA	3674	1/1	0.76	0.16	-	62,62,62,62	0
59	MG	DA	4797	1/1	0.96	0.28	-	88,88,88,88	0
59	MG	AA	3644	1/1	0.91	0.10	-	56,56,56,56	0
59	MG	DA	4166	1/1	0.92	0.32	-	41,41,41,41	0
59	MG	AA	3361	1/1	0.54	0.19	-	93,93,93,93	0
59	MG	AA	3759	1/1	0.97	0.09	-	59,59,59,59	0
59	MG	CK	202	1/1	0.87	0.24	-	79,79,79,79	0
59	MG	DA	3291	1/1	0.91	0.34	-	59,59,59,59	0
59	MG	DA	4120	1/1	0.94	0.10	-	48,48,48,48	0
59	MG	DA	3933	1/1	0.88	0.36	-	113,113,113,113	0
59	MG	DA	4746	1/1	0.65	0.18	-	98,98,98,98	0
59	MG	BA	2198	1/1	0.53	0.76	-	139,139,139,139	0
59	MG	CA	1943	1/1	0.91	0.34	-	73,73,73,73	0
59	MG	CA	1963	1/1	0.81	0.11	-	71,71,71,71	0
59	MG	CG	306	1/1	0.87	0.11	-	124,124,124,124	0
59	MG	DA	4514	1/1	0.92	0.27	-	80,80,80,80	0
59	MG	DA	3576	1/1	0.79	0.43	-	102,102,102,102	0
59	MG	AA	4090	1/1	0.87	0.11	-	78,78,78,78	0
59	MG	DA	5060	1/1	0.85	0.20	-	64,64,64,64	0
59	MG	DA	5075	1/1	0.97	0.28	-	50,50,50,50	0
59	MG	DD	302	1/1	0.91	0.35	-	58,58,58,58	0
59	MG	AB	205	1/1	0.98	0.07	-	54,54,54,54	0
59	MG	AA	3260	1/1	0.96	0.19	-	44,44,44,44	0
59	MG	AA	3845	1/1	0.93	0.11	-	54,54,54,54	0
59	MG	CA	1851	1/1	0.84	0.10	-	100,100,100,100	0
59	MG	DA	4966	1/1	0.93	0.14	-	64,64,64,64	0
59	MG	DA	4175	1/1	0.94	0.29	-	59,59,59,59	0
59	MG	DA	4223	1/1	0.81	0.20	-	60,60,60,60	0
59	MG	CA	1908	1/1	0.95	0.26	-	61,61,61,61	0
59	MG	CA	2030	1/1	0.75	0.22	-	72,72,72,72	0
59	MG	CF	301	1/1	0.80	0.24	-	75,75,75,75	0
59	MG	DA	4551	1/1	0.83	0.32	-	118,118,118,118	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4897	1/1	0.91	0.22	-	76,76,76,76	0
59	MG	AA	3375	1/1	0.95	0.32	-	61,61,61,61	0
59	MG	CA	2183	1/1	0.96	0.07	-	62,62,62,62	0
59	MG	AA	3488	1/1	0.95	0.15	-	68,68,68,68	0
59	MG	DA	4079	1/1	0.86	0.25	-	66,66,66,66	0
59	MG	DA	4346	1/1	0.97	0.21	-	44,44,44,44	0
59	MG	DA	5061	1/1	0.89	0.32	-	71,71,71,71	0
59	MG	BA	1984	1/1	0.81	0.09	-	84,84,84,84	0
59	MG	CA	2208	1/1	0.78	0.15	-	81,81,81,81	0
59	MG	DA	3816	1/1	0.89	0.47	-	89,89,89,89	0
59	MG	DO	204	1/1	0.96	0.30	-	44,44,44,44	0
59	MG	CK	207	1/1	0.63	0.30	-	80,80,80,80	0
59	MG	CA	2224	1/1	0.73	0.17	-	83,83,83,83	0
59	MG	DA	3984	1/1	0.59	0.41	-	117,117,117,117	0
59	MG	DA	3583	1/1	0.99	0.21	-	3,3,3,3	0
59	MG	AA	3225	1/1	0.89	0.11	-	18,18,18,18	0
59	MG	CA	2264	1/1	0.90	0.27	-	77,77,77,77	0
59	MG	DA	4530	1/1	0.91	0.18	-	72,72,72,72	0
59	MG	CD	129	1/1	0.56	0.25	-	95,95,95,95	0
59	MG	DA	4229	1/1	0.89	0.22	-	48,48,48,48	0
59	MG	DD	310	1/1	0.92	0.45	-	64,64,64,64	0
59	MG	CD	117	1/1	0.92	0.18	-	58,58,58,58	0
59	MG	DA	3415	1/1	0.94	0.45	-	49,49,49,49	0
59	MG	AB	227	1/1	0.77	0.28	-	82,82,82,82	0
59	MG	AA	3800	1/1	0.89	0.10	-	55,55,55,55	0
59	MG	BA	1970	1/1	0.96	0.16	-	141,141,141,141	0
59	MG	BG	301	1/1	0.79	0.08	-	67,67,67,67	0
59	MG	DA	3359	1/1	0.93	0.29	-	43,43,43,43	0
59	MG	BA	2239	1/1	0.97	0.13	-	63,63,63,63	0
59	MG	DA	4178	1/1	0.94	0.40	-	61,61,61,61	0
59	MG	AA	3802	1/1	0.91	0.26	-	78,78,78,78	0
59	MG	DA	3440	1/1	0.97	0.13	-	57,57,57,57	0
59	MG	AA	3921	1/1	0.92	0.09	-	44,44,44,44	0
59	MG	BA	2276	1/1	0.74	0.41	-	128,128,128,128	0
59	MG	BD	103	1/1	0.82	0.17	-	58,58,58,58	0
59	MG	DA	4555	1/1	0.96	0.10	-	43,43,43,43	0
59	MG	DU	205	1/1	0.84	0.34	-	75,75,75,75	0
59	MG	BA	1855	1/1	0.98	0.23	-	76,76,76,76	0
59	MG	AA	3687	1/1	0.94	0.17	-	43,43,43,43	0
59	MG	BC	111	1/1	0.90	0.08	-	63,63,63,63	0
59	MG	DA	5028	1/1	0.88	0.18	-	66,66,66,66	0
59	MG	DA	3339	1/1	0.96	0.12	-	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	2180	1/1	0.91	0.33	-	88,88,88,88	0
59	MG	BA	1866	1/1	0.35	0.31	-	111,111,111,111	0
59	MG	AA	3772	1/1	0.87	0.15	-	103,103,103,103	0
59	MG	BA	1986	1/1	0.89	0.09	-	78,78,78,78	0
59	MG	CB	106	1/1	0.80	0.35	-	97,97,97,97	0
59	MG	BA	1957	1/1	0.85	0.41	-	80,80,80,80	0
59	MG	DA	4486	1/1	0.82	0.14	-	63,63,63,63	0
59	MG	BA	1717	1/1	0.94	0.17	-	55,55,55,55	0
59	MG	BA	1917	1/1	0.43	0.17	-	64,64,64,64	0
59	MG	BS	103	1/1	0.73	0.20	-	83,83,83,83	0
59	MG	AA	3804	1/1	0.82	0.15	-	94,94,94,94	0
59	MG	AA	3355	1/1	0.94	0.34	-	48,48,48,48	0
59	MG	DA	3343	1/1	0.84	0.36	-	58,58,58,58	0
59	MG	DA	3743	1/1	0.90	0.40	-	65,65,65,65	0
59	MG	DA	4734	1/1	0.84	0.39	-	71,71,71,71	0
59	MG	CA	2138	1/1	0.87	0.42	-	91,91,91,91	0
59	MG	DA	3312	1/1	0.94	0.34	-	49,49,49,49	0
59	MG	DA	3555	1/1	0.96	0.14	-	49,49,49,49	0
59	MG	DA	4435	1/1	0.97	0.14	-	53,53,53,53	0
59	MG	DA	4366	1/1	0.73	0.22	-	62,62,62,62	0
59	MG	AA	3963	1/1	0.88	0.20	-	62,62,62,62	0
59	MG	AA	3625	1/1	0.91	0.20	-	64,64,64,64	0
59	MG	AA	3158	1/1	0.96	0.21	-	55,55,55,55	0
59	MG	DA	4944	1/1	0.93	0.22	-	56,56,56,56	0
59	MG	BA	2183	1/1	0.71	0.20	-	107,107,107,107	0
59	MG	CA	1755	1/1	0.81	0.22	-	75,75,75,75	0
59	MG	DA	5021	1/1	0.96	0.15	-	112,112,112,112	0
59	MG	BA	2124	1/1	0.66	0.18	-	72,72,72,72	0
59	MG	CA	2304	1/1	0.44	0.57	-	124,124,124,124	0
59	MG	CA	1617	1/1	0.86	0.18	-	33,33,33,33	0
59	MG	AA	3767	1/1	0.69	0.24	-	78,78,78,78	0
59	MG	BW	208	1/1	0.82	0.19	-	62,62,62,62	0
59	MG	DA	4363	1/1	0.92	0.13	-	42,42,42,42	0
59	MG	DA	4945	1/1	0.89	0.25	-	78,78,78,78	0
59	MG	AA	3934	1/1	0.80	0.19	-	93,93,93,93	0
59	MG	DA	3490	1/1	0.66	0.36	-	64,64,64,64	0
59	MG	AA	3995	1/1	0.72	0.33	-	103,103,103,103	0
59	MG	CC	112	1/1	0.84	0.13	-	63,63,63,63	0
59	MG	DA	4112	1/1	0.97	0.08	-	45,45,45,45	0
59	MG	BA	1710	1/1	0.56	0.34	-	90,90,90,90	0
59	MG	DA	4593	1/1	0.54	0.28	-	65,65,65,65	0
59	MG	AA	4050	1/1	0.85	0.09	-	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	1844	1/1	0.95	0.17	-	118,118,118,118	0
59	MG	AA	4004	1/1	0.66	0.28	-	78,78,78,78	0
59	MG	CA	1735	1/1	0.96	0.12	-	42,42,42,42	0
59	MG	DA	3667	1/1	0.96	0.27	-	74,74,74,74	0
59	MG	AA	3782	1/1	0.93	0.43	-	101,101,101,101	0
59	MG	DA	3335	1/1	0.95	0.15	-	32,32,32,32	0
59	MG	AA	4096	1/1	0.86	0.39	-	114,114,114,114	0
59	MG	DA	4645	1/1	0.89	0.21	-	59,59,59,59	0
59	MG	BA	2120	1/1	0.82	0.10	-	67,67,67,67	0
59	MG	BA	2093	1/1	0.81	0.36	-	106,106,106,106	0
59	MG	DA	4436	1/1	0.93	0.06	-	76,76,76,76	0
59	MG	DB	213	1/1	0.87	0.27	-	64,64,64,64	0
59	MG	AA	3320	1/1	0.85	0.20	-	69,69,69,69	0
59	MG	AA	3363	1/1	0.79	0.27	-	74,74,74,74	0
59	MG	BA	2017	1/1	0.87	0.47	-	85,85,85,85	0
59	MG	DA	4837	1/1	0.85	0.18	-	55,55,55,55	0
59	MG	DA	3944	1/1	0.96	0.10	-	72,72,72,72	0
59	MG	CC	109	1/1	0.77	0.19	-	49,49,49,49	0
59	MG	AA	3505	1/1	0.92	0.16	-	55,55,55,55	0
59	MG	DA	4771	1/1	0.77	0.60	-	92,92,92,92	0
59	MG	CA	1983	1/1	0.93	0.33	-	43,43,43,43	0
59	MG	AA	4045	1/1	0.93	0.10	-	57,57,57,57	0
59	MG	DF	317	1/1	0.94	0.09	-	64,64,64,64	0
59	MG	AA	3262	1/1	0.91	0.20	-	76,76,76,76	0
59	MG	AA	4136	1/1	0.91	0.27	-	71,71,71,71	0
59	MG	AA	3702	1/1	0.94	0.17	-	62,62,62,62	0
59	MG	DA	3885	1/1	0.92	0.11	-	57,57,57,57	0
59	MG	CA	1680	1/1	0.84	0.23	-	40,40,40,40	0
59	MG	CA	2229	1/1	0.96	0.10	-	109,109,109,109	0
59	MG	DA	4347	1/1	0.85	0.23	-	58,58,58,58	0
59	MG	DA	4427	1/1	0.91	0.15	-	53,53,53,53	0
59	MG	DA	4891	1/1	0.95	0.32	-	86,86,86,86	0
59	MG	AA	3300	1/1	0.97	0.28	-	38,38,38,38	0
59	MG	BA	1920	1/1	0.77	0.26	-	86,86,86,86	0
59	MG	CH	202	1/1	0.80	0.12	-	62,62,62,62	0
59	MG	CA	2101	1/1	0.88	0.15	-	68,68,68,68	0
59	MG	BA	2139	1/1	0.71	0.11	-	82,82,82,82	0
59	MG	AA	3730	1/1	0.95	0.09	-	58,58,58,58	0
59	MG	DA	3265	1/1	0.95	0.34	-	47,47,47,47	0
59	MG	DA	3581	1/1	0.66	0.32	-	91,91,91,91	0
59	MG	BA	1663	1/1	0.61	0.16	-	94,94,94,94	0
59	MG	BA	2061	1/1	0.95	0.32	-	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	AA	3252	1/1	0.89	0.19	-	38,38,38,38	0
59	MG	DA	4723	1/1	0.71	0.17	-	71,71,71,71	0
59	MG	AA	4079	1/1	0.74	0.21	-	92,92,92,92	0
59	MG	CA	1785	1/1	0.92	0.29	-	63,63,63,63	0
59	MG	AA	3487	1/1	0.97	0.14	-	72,72,72,72	0
59	MG	AA	3085	1/1	0.96	0.07	-	29,29,29,29	0
59	MG	CA	1723	1/1	0.94	0.19	-	61,61,61,61	0
59	MG	DA	4695	1/1	0.92	0.14	-	52,52,52,52	0
59	MG	BA	2137	1/1	0.60	0.12	-	119,119,119,119	0
59	MG	DB	230	1/1	0.92	0.56	-	87,87,87,87	0
59	MG	DA	3662	1/1	0.90	0.25	-	73,73,73,73	0
59	MG	AA	3208	1/1	0.91	0.17	-	30,30,30,30	0
59	MG	DA	3973	1/1	0.99	0.13	-	60,60,60,60	0
59	MG	DA	3724	1/1	0.96	0.29	-	45,45,45,45	0
59	MG	AA	3724	1/1	0.82	0.23	-	65,65,65,65	0
59	MG	DA	3782	1/1	0.98	0.10	-	38,38,38,38	0
59	MG	DA	4643	1/1	0.96	0.21	-	59,59,59,59	0
59	MG	DA	3268	1/1	0.82	0.26	-	50,50,50,50	0
59	MG	AA	3542	1/1	0.72	0.19	-	54,54,54,54	0
59	MG	CA	1637	1/1	0.90	0.26	-	45,45,45,45	0
59	MG	DA	4050	1/1	0.85	0.21	-	66,66,66,66	0
59	MG	CA	1669	1/1	0.94	0.21	-	40,40,40,40	0
59	MG	BA	1933	1/1	0.85	0.29	-	63,63,63,63	0
59	MG	DA	3062	1/1	0.97	0.21	-	19,19,19,19	0
59	MG	DA	3878	1/1	0.93	0.26	-	60,60,60,60	0
59	MG	BB	103	1/1	0.93	0.11	-	77,77,77,77	0
59	MG	DA	3612	1/1	0.97	0.15	-	64,64,64,64	0
59	MG	AA	4100	1/1	0.81	0.07	-	103,103,103,103	0
59	MG	DA	4171	1/1	0.94	0.14	-	45,45,45,45	0
59	MG	CA	1771	1/1	0.90	0.21	-	44,44,44,44	0
59	MG	DA	4418	1/1	0.80	0.30	-	96,96,96,96	0
59	MG	DA	5013	1/1	0.78	0.15	-	54,54,54,54	0
59	MG	DA	4924	1/1	0.79	0.18	-	75,75,75,75	0
59	MG	CM	202	1/1	0.92	0.23	-	86,86,86,86	0
59	MG	CA	1728	1/1	0.88	0.32	-	76,76,76,76	0
59	MG	AA	4023	1/1	0.77	0.12	-	73,73,73,73	0
59	MG	A8	103	1/1	0.90	0.13	-	62,62,62,62	0
59	MG	DA	4463	1/1	0.97	0.22	-	62,62,62,62	0
59	MG	AB	235	1/1	0.92	0.08	-	81,81,81,81	0
59	MG	BA	1898	1/1	0.87	0.15	-	49,49,49,49	0
59	MG	DA	4601	1/1	0.93	0.20	-	88,88,88,88	0
59	MG	DA	4478	1/1	0.83	0.23	-	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	BA	1927	1/1	0.77	0.20	-	51,51,51,51	0
59	MG	BA	1775	1/1	0.90	0.38	-	93,93,93,93	0
59	MG	DA	3504	1/1	0.97	0.26	-	30,30,30,30	0
59	MG	DA	4114	1/1	0.96	0.21	-	61,61,61,61	0
59	MG	DS	202	1/1	0.82	0.24	-	71,71,71,71	0
59	MG	DA	4764	1/1	0.90	0.49	-	85,85,85,85	0
59	MG	BA	1641	1/1	0.97	0.14	-	53,53,53,53	0
59	MG	CA	1812	1/1	0.88	0.13	-	45,45,45,45	0
59	MG	DA	3925	1/1	0.99	0.06	-	25,25,25,25	0
59	MG	AA	3743	1/1	0.77	0.43	-	71,71,71,71	0
59	MG	DU	202	1/1	0.96	0.13	-	17,17,17,17	0
59	MG	DA	4826	1/1	0.46	0.34	-	71,71,71,71	0
59	MG	DA	4964	1/1	0.90	0.19	-	73,73,73,73	0
59	MG	DA	4055	1/1	0.73	0.20	-	68,68,68,68	0
59	MG	DA	4505	1/1	0.84	0.27	-	97,97,97,97	0
59	MG	DA	3117	1/1	0.93	0.17	-	58,58,58,58	0
59	MG	CA	2308	1/1	0.69	0.36	-	107,107,107,107	0
59	MG	DA	3410	1/1	0.97	0.09	-	64,64,64,64	0
59	MG	CA	2039	1/1	0.99	0.11	-	66,66,66,66	0
59	MG	DH	203	1/1	0.84	0.18	-	78,78,78,78	0
59	MG	DA	4057	1/1	0.88	0.32	-	87,87,87,87	0
59	MG	DU	217	1/1	0.80	0.26	-	110,110,110,110	0
59	MG	DA	4480	1/1	0.89	0.28	-	77,77,77,77	0
59	MG	DA	3876	1/1	0.98	0.42	-	52,52,52,52	0
59	MG	CH	201	1/1	0.97	0.30	-	55,55,55,55	0
59	MG	AA	4053	1/1	0.94	0.17	-	63,63,63,63	0
59	MG	DA	4294	1/1	0.89	0.11	-	83,83,83,83	0
59	MG	CA	1839	1/1	0.97	0.13	-	55,55,55,55	0
59	MG	DA	5067	1/1	0.54	0.32	-	119,119,119,119	0
59	MG	DA	3900	1/1	0.85	0.09	-	143,143,143,143	0
59	MG	CA	2231	1/1	0.95	0.18	-	95,95,95,95	0
59	MG	AA	4134	1/1	0.29	0.11	-	117,117,117,117	0
59	MG	DA	4394	1/1	0.89	0.43	-	69,69,69,69	0
59	MG	CA	1847	1/1	0.97	0.13	-	95,95,95,95	0
59	MG	BA	2118	1/1	0.82	0.26	-	83,83,83,83	0
59	MG	DA	4349	1/1	0.87	0.31	-	77,77,77,77	0
59	MG	DA	4163	1/1	0.90	0.14	-	55,55,55,55	0
59	MG	CA	1781	1/1	0.95	0.16	-	45,45,45,45	0
59	MG	AA	3776	1/1	0.91	0.14	-	84,84,84,84	0
59	MG	DA	4744	1/1	0.78	0.30	-	70,70,70,70	0
59	MG	DV	302	1/1	0.75	0.15	-	87,87,87,87	0
59	MG	BA	2265	1/1	0.69	0.33	-	111,111,111,111	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	4257	1/1	0.95	0.20	-	59,59,59,59	0
59	MG	D5	105	1/1	0.91	0.13	-	63,63,63,63	0
59	MG	AA	3902	1/1	0.81	0.11	-	111,111,111,111	0
59	MG	CA	1841	1/1	0.71	0.11	-	85,85,85,85	0
59	MG	BA	2229	1/1	0.92	0.11	-	67,67,67,67	0
59	MG	DA	4680	1/1	0.91	0.08	-	71,71,71,71	0
59	MG	BA	1824	1/1	0.93	0.11	-	107,107,107,107	0
59	MG	AA	3974	1/1	0.88	0.12	-	65,65,65,65	0
59	MG	DA	4498	1/1	0.85	0.08	-	82,82,82,82	0
59	MG	CA	2076	1/1	0.57	0.26	-	113,113,113,113	0
59	MG	DA	3552	1/1	0.91	0.19	-	45,45,45,45	0
59	MG	DA	3977	1/1	0.95	0.09	-	71,71,71,71	0
59	MG	DA	4899	1/1	0.85	0.19	-	65,65,65,65	0
59	MG	AA	4126	1/1	0.80	0.31	-	87,87,87,87	0
59	MG	DA	4089	1/1	0.91	0.12	-	63,63,63,63	0
59	MG	DA	4329	1/1	0.83	0.21	-	63,63,63,63	0
59	MG	DF	305	1/1	0.89	0.10	-	54,54,54,54	0
59	MG	DA	5059	1/1	0.91	0.19	-	66,66,66,66	0
59	MG	DA	4285	1/1	0.84	0.36	-	70,70,70,70	0
59	MG	DN	201	1/1	0.91	0.26	-	50,50,50,50	0
59	MG	BA	1814	1/1	0.78	0.12	-	115,115,115,115	0
59	MG	AA	3932	1/1	0.97	0.09	-	56,56,56,56	0
59	MG	AA	3890	1/1	0.89	0.15	-	103,103,103,103	0
59	MG	DA	3586	1/1	0.78	0.39	-	83,83,83,83	0
59	MG	D2	209	1/1	0.84	0.31	-	74,74,74,74	0
59	MG	BA	1698	1/1	0.69	0.58	-	104,104,104,104	0
59	MG	DA	3792	1/1	0.92	0.40	-	92,92,92,92	0
59	MG	DA	3920	1/1	0.86	0.21	-	50,50,50,50	0
59	MG	DA	3675	1/1	0.96	0.15	-	44,44,44,44	0
59	MG	BA	2085	1/1	0.88	0.46	-	102,102,102,102	0
59	MG	BA	2194	1/1	0.97	0.18	-	40,40,40,40	0
59	MG	AA	4036	1/1	0.73	0.10	-	68,68,68,68	0
59	MG	DA	4949	1/1	0.60	0.15	-	71,71,71,71	0
59	MG	C1	106	1/1	0.88	0.35	-	89,89,89,89	0
59	MG	AB	210	1/1	0.77	0.22	-	81,81,81,81	0
59	MG	AA	4057	1/1	0.94	0.20	-	74,74,74,74	0
59	MG	DA	3122	1/1	0.79	0.31	-	75,75,75,75	0
59	MG	DA	4386	1/1	0.85	0.18	-	49,49,49,49	0
59	MG	DA	4592	1/1	0.84	0.28	-	77,77,77,77	0
59	MG	DA	4668	1/1	0.67	0.56	-	72,72,72,72	0
59	MG	DA	3310	1/1	0.97	0.13	-	30,30,30,30	0
59	MG	DA	3442	1/1	0.96	0.14	-	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	MG	DA	3936	1/1	0.98	0.07	-	61,61,61,61	0
59	MG	CC	121	1/1	0.97	0.15	-	49,49,49,49	0
59	MG	CA	1834	1/1	0.75	0.09	-	67,67,67,67	0
59	MG	AA	3897	1/1	0.75	0.20	-	103,103,103,103	0
59	MG	CA	1733	1/1	0.96	0.28	-	55,55,55,55	0
59	MG	DA	4536	1/1	0.74	0.31	-	64,64,64,64	0
59	MG	DA	4419	1/1	0.98	0.14	-	57,57,57,57	0
59	MG	CA	2237	1/1	0.83	0.17	-	62,62,62,62	0
59	MG	DA	4877	1/1	0.96	0.15	-	77,77,77,77	0
59	MG	AA	3445	1/1	0.84	0.13	-	63,63,63,63	0
59	MG	BA	2112	1/1	0.59	0.25	-	101,101,101,101	0
59	MG	AA	4120	1/1	0.91	0.24	-	87,87,87,87	0
59	MG	DA	3528	1/1	0.82	0.14	-	45,45,45,45	0
59	MG	CA	1631	1/1	0.96	0.18	-	42,42,42,42	0
59	MG	DV	301	1/1	0.41	0.38	-	108,108,108,108	0
59	MG	DA	4036	1/1	0.91	0.19	-	55,55,55,55	0
59	MG	DA	4027	1/1	0.97	0.28	-	59,59,59,59	0
59	MG	CA	1897	1/1	0.85	0.40	-	71,71,71,71	0
59	MG	AE	303	1/1	0.98	0.23	-	39,39,39,39	0
59	MG	AA	3356	1/1	0.88	0.12	-	62,62,62,62	0
59	MG	AA	3371	1/1	0.79	0.08	-	63,63,63,63	0
59	MG	BA	2172	1/1	0.67	0.32	-	75,75,75,75	0
59	MG	BA	2167	1/1	0.59	0.18	-	101,101,101,101	0
59	MG	BA	1782	1/1	0.60	0.54	-	100,100,100,100	0
59	MG	AA	4055	1/1	0.89	0.35	-	110,110,110,110	0
59	MG	CA	1904	1/1	0.92	0.37	-	74,74,74,74	0
59	MG	DA	4852	1/1	0.80	0.28	-	142,142,142,142	0
59	MG	DA	3378	1/1	0.93	0.36	-	55,55,55,55	0
59	MG	DA	3492	1/1	0.88	0.25	-	53,53,53,53	0
59	MG	DA	4364	1/1	0.73	0.12	-	90,90,90,90	0
59	MG	BA	2173	1/1	0.88	0.13	-	98,98,98,98	0
59	MG	DA	3398	1/1	0.98	0.18	-	75,75,75,75	0
59	MG	AA	3513	1/1	0.98	0.29	-	28,28,28,28	0
59	MG	AA	3839	1/1	0.88	0.20	-	63,63,63,63	0
59	MG	AA	3366	1/1	0.87	0.09	-	53,53,53,53	0

6.5 Other polymers

There are no such residues in this entry.