



Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2016 – 12:28 PM EDT

PDB ID : 5FCI
Title : Structure of the vacant uL3 W255C mutant 80S yeast ribosome
Authors : Mailliot, J.; Garreau de Loubresse, N.; Yusupova, G.; Dinman, J.D.; Yusupov, M.
Deposited on : 2015-12-15
Resolution : 3.40 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 : 1.7.1 (RC1), CSD as537be (2016)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20027674
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) : rb-20027674

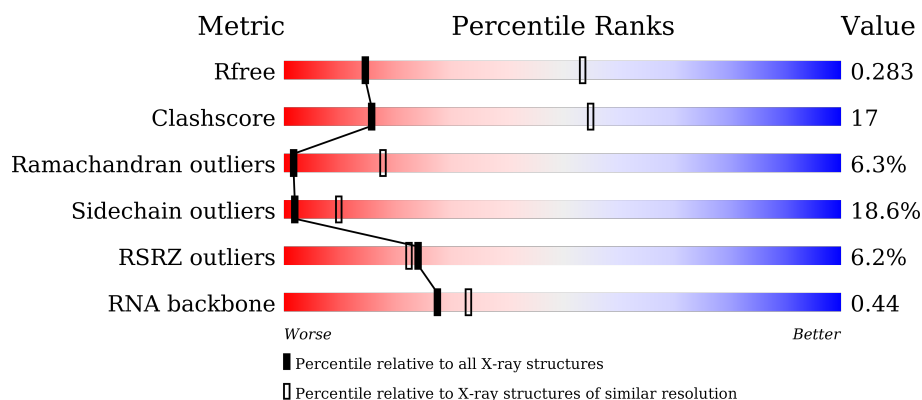
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.40 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.



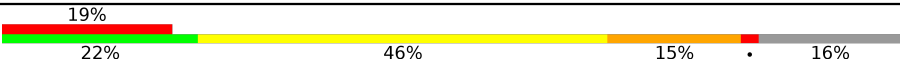

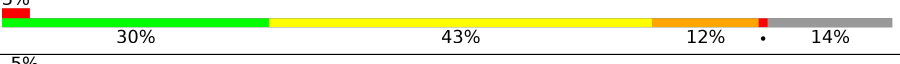
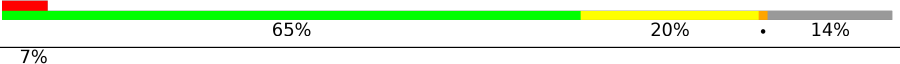
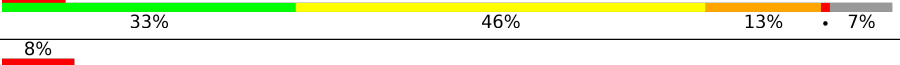
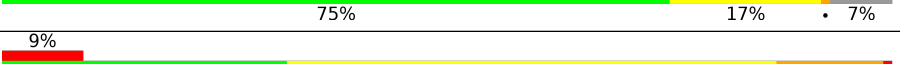
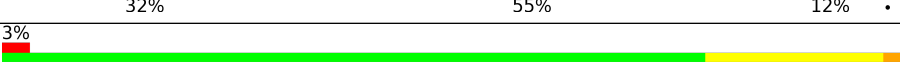
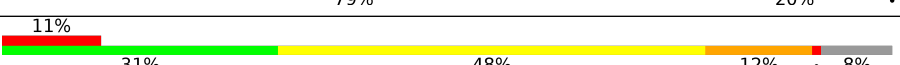
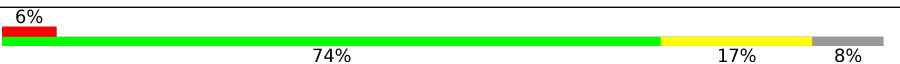

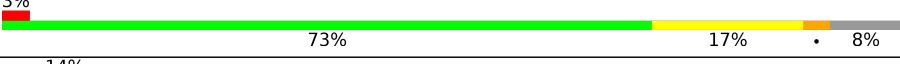
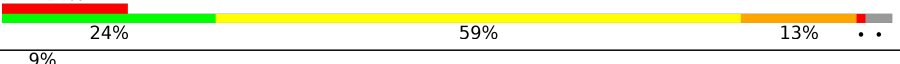



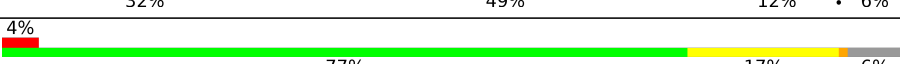
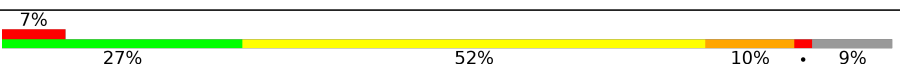
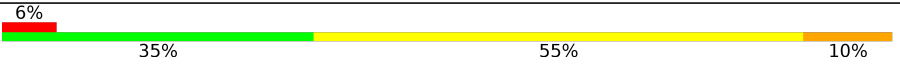

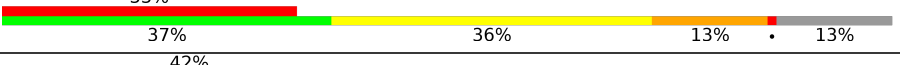
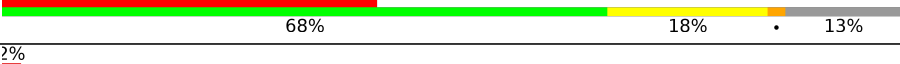

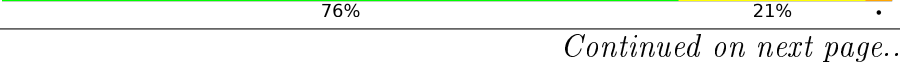


Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1476 (3.50-3.30)
Clashscore	102246	1611 (3.50-3.30)
Ramachandran outliers	100387	1571 (3.50-3.30)
Sidechain outliers	100360	1571 (3.50-3.30)
RSRZ outliers	91569	1485 (3.50-3.30)
RNA backbone	2183	1041 (4.00-2.80)

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

Mol	Chain	Length	Quality of chain
1	2	1800	<div> <div>9%</div> <div>31%</div> <div>48%</div> <div>18%</div> <div>..</div> </div>
1	6	1800	<div> <div>7%</div> <div>33%</div> <div>48%</div> <div>17%</div> <div>.</div> </div>
2	S0	251	<div> <div>11%</div> <div>23%</div> <div>46%</div> <div>11%</div> <div>.</div> <div>18%</div> </div>
2	s0	251	<div> <div>3%</div> <div>62%</div> <div>19%</div> <div>.</div> <div>18%</div> </div>

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Mol	Chain	Length	Quality of chain
3	S1	254	
3	s1	254	
4	S2	253	
4	s2	253	
5	S3	239	
5	s3	239	
6	S4	260	
6	s4	260	
7	S5	224	
7	s5	224	
8	S6	236	
8	s6	236	
9	S7	189	
9	s7	189	
10	S8	200	
10	s8	200	
11	S9	196	
11	s9	196	
12	C0	105	
13	C1	155	
13	c1	155	
14	C2	142	
14	c2	142	
15	C3	150	
15	c3	150	

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Mol	Chain	Length	Quality of chain
16	C4	136	
16	c4	136	
17	C5	141	
17	c5	141	
18	C6	142	
18	c6	142	
19	C7	136	
19	c7	136	
20	C8	145	
20	c8	145	
21	C9	143	
21	c9	143	
22	D0	120	
22	d0	120	
23	D1	87	
23	d1	87	
24	D2	129	
24	d2	129	
25	D3	144	
25	d3	144	
26	D4	134	
26	d4	134	
27	D5	107	
27	d5	107	
28	D6	97	

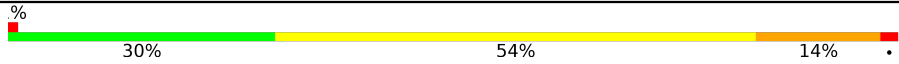

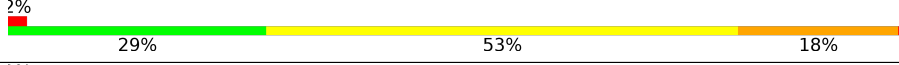

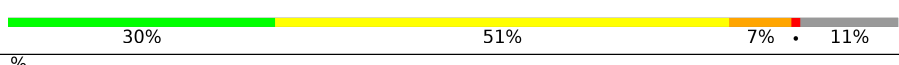
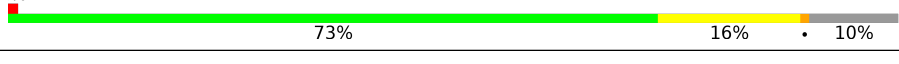
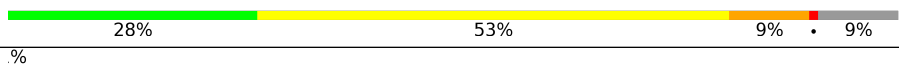

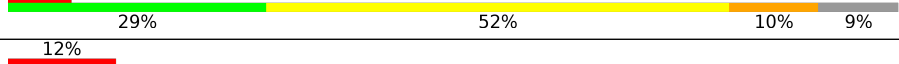

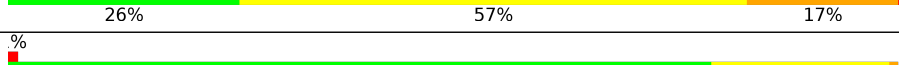
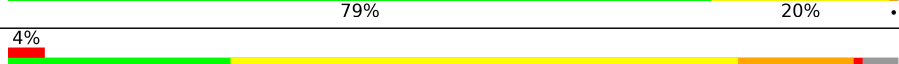

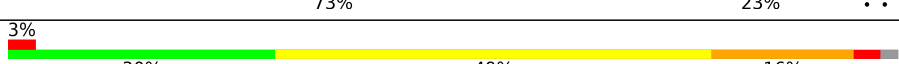
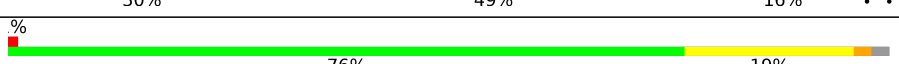
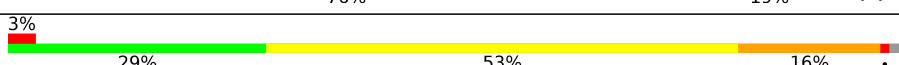
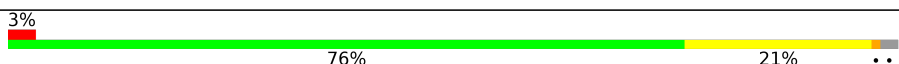
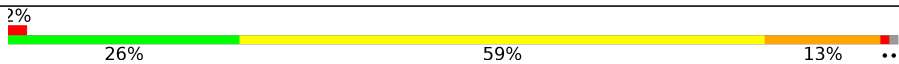
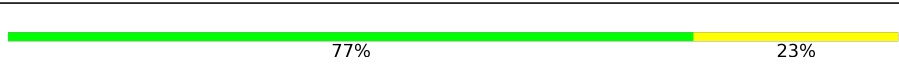


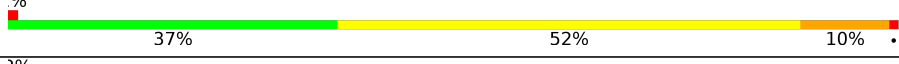
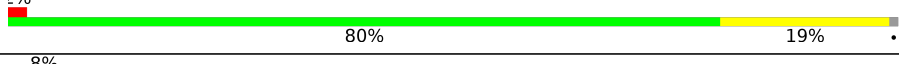
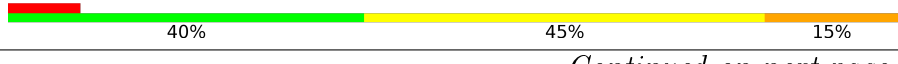

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Mol	Chain	Length	Quality of chain
28	d6	97	
29	D7	81	
29	d7	81	
30	D8	66	
30	d8	66	
31	D9	55	
31	d9	55	
32	E0	62	
32	e0	62	
33	E1	76	
33	e1	76	
34	SR	318	
34	sR	318	
35	SM	182	
35	sM	182	
36	1	3396	
36	5	3396	
37	3	121	
37	7	121	
38	4	158	
38	8	158	
39	L2	253	
39	l2	253	
40	L3	386	
40	l3	386	


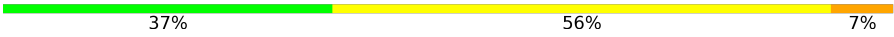

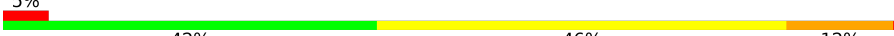

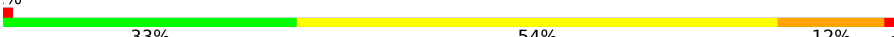
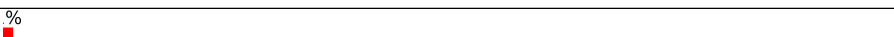

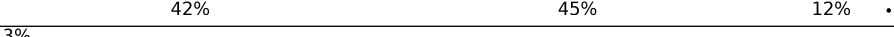

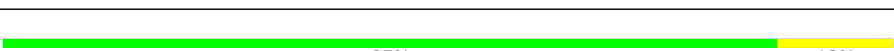


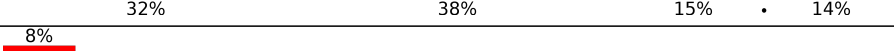




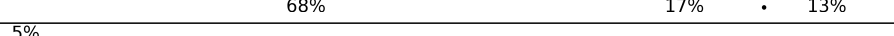
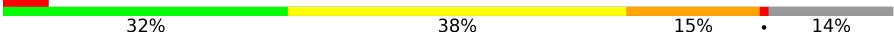

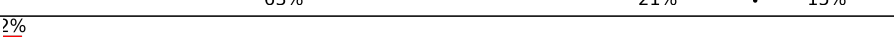


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Mol	Chain	Length	Quality of chain
41	L4	361	
41	l4	361	
42	L5	296	
42	l5	296	
43	L6	175	
43	l6	175	
44	L7	243	
44	l7	243	
45	L8	255	
45	l8	255	
46	L9	191	
46	l9	191	
47	M0	220	
47	m0	220	
48	M1	173	
48	m1	173	
49	M3	198	
49	m3	198	
50	M4	137	
50	m4	137	
51	M5	203	
51	m5	203	
52	M6	198	
52	m6	198	
53	M7	183	

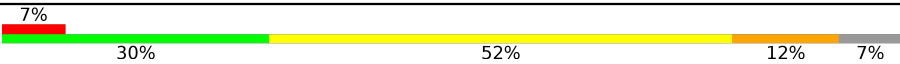


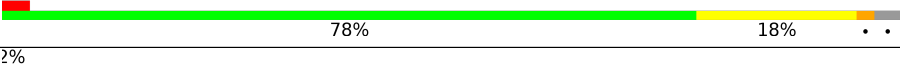
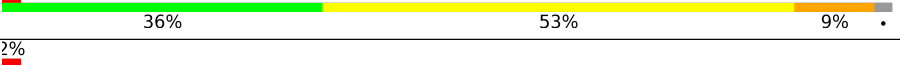
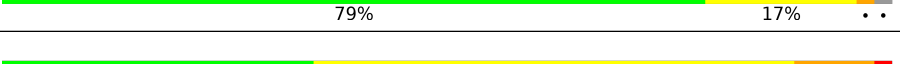
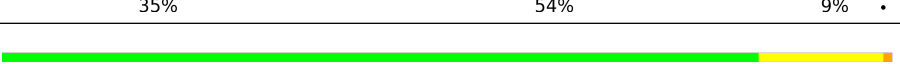
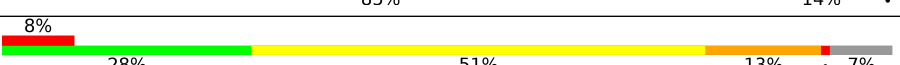
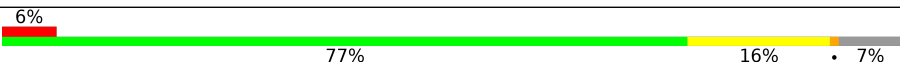

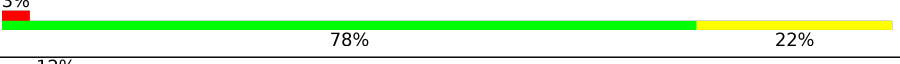
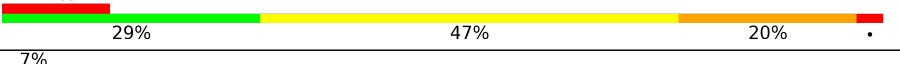



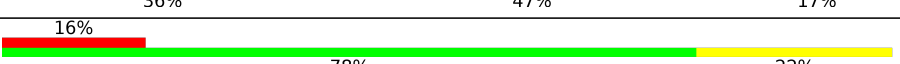
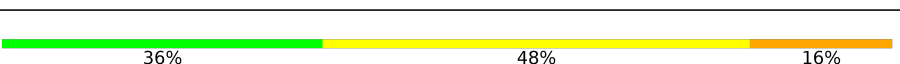
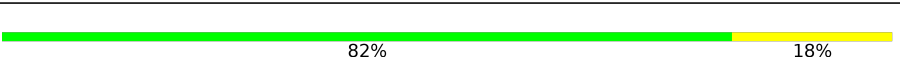
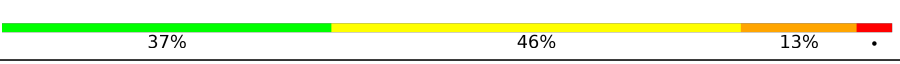






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Mol	Chain	Length	Quality of chain
53	m7	183	
54	M8	185	
54	m8	185	
55	M9	188	
55	m9	188	
56	N0	172	
56	n0	172	
57	N1	159	
57	n1	159	
58	N2	120	
58	n2	120	
59	N3	136	
59	n3	136	
60	N4	155	
60	n4	155	
61	N5	141	
61	n5	141	
62	N6	126	
62	n6	126	
63	N7	135	
63	n7	135	
64	N8	148	
64	n8	148	
65	N9	58	
65	n9	58	

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Mol	Chain	Length	Quality of chain
66	O0	104	
66	o0	104	
67	O1	112	
67	o1	112	
68	O2	129	
68	o2	129	
69	O3	106	
69	o3	106	
70	O4	120	
70	o4	120	
71	O5	119	
71	o5	119	
72	O6	99	
72	o6	99	
73	O7	87	
73	o7	87	
74	O8	77	
74	o8	77	
75	O9	50	
75	o9	50	
76	Q0	52	
76	q0	52	
77	Q1	25	
77	q1	25	
78	Q2	105	

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Mol	Chain	Length	Quality of chain
78	q2	105	
79	Q3	91	
79	q3	91	
80	c0	96	
81	m2	150	
82	p0	311	
83	p1	47	
84	p2	46	

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
85	OHX	1	3448	-	-	X	-
85	OHX	1	3475	-	-	X	-
85	OHX	1	3483	-	-	X	-
85	OHX	1	3490	-	-	-	X
85	OHX	1	3495	-	-	X	-
85	OHX	1	3497	-	-	X	-
85	OHX	1	3509	-	-	X	-
85	OHX	1	3510	-	-	-	X
85	OHX	1	3513	-	-	X	-
85	OHX	1	3515	-	-	-	X
85	OHX	1	3522	-	-	-	X
85	OHX	1	3527	-	-	-	X
85	OHX	1	3528	-	-	-	X
85	OHX	1	3537	-	-	-	X
85	OHX	1	3540	-	-	X	-
85	OHX	1	3542	-	-	-	X
85	OHX	1	3544	-	-	-	X
85	OHX	1	3556	-	-	X	-
85	OHX	1	3558	-	-	-	X
85	OHX	1	3564	-	-	-	X
85	OHX	1	3565	-	-	X	-
85	OHX	1	3569	-	-	X	-
85	OHX	1	3570	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	OHX	1	3582	-	-	X	-
85	OHX	1	3583	-	-	-	X
85	OHX	1	3584	-	-	-	X
85	OHX	1	3591	-	-	-	X
85	OHX	1	3592	-	-	X	-
85	OHX	1	3593	-	-	X	X
85	OHX	1	3594	-	-	X	X
85	OHX	1	3598	-	-	-	X
85	OHX	1	3603	-	-	-	X
85	OHX	1	3609	-	-	-	X
85	OHX	1	3611	-	-	-	X
85	OHX	1	3612	-	-	-	X
85	OHX	1	3616	-	-	X	X
85	OHX	1	3624	-	-	-	X
85	OHX	1	3625	-	-	-	X
85	OHX	1	3627	-	-	-	X
85	OHX	1	3630	-	-	-	X
85	OHX	1	3633	-	-	-	X
85	OHX	1	3634	-	-	-	X
85	OHX	1	3635	-	-	-	X
85	OHX	1	3645	-	-	-	X
85	OHX	1	3646	-	-	-	X
85	OHX	1	3647	-	-	-	X
85	OHX	1	3648	-	-	-	X
85	OHX	1	3649	-	-	-	X
85	OHX	1	3651	-	-	-	X
85	OHX	1	3652	-	-	-	X
85	OHX	1	3656	-	-	X	X
85	OHX	1	3657	-	-	-	X
85	OHX	1	3663	-	-	-	X
85	OHX	1	3666	-	-	-	X
85	OHX	1	3668	-	-	-	X
85	OHX	1	3670	-	-	-	X
85	OHX	1	3671	-	-	-	X
85	OHX	1	3672	-	-	-	X
85	OHX	1	3673	-	-	-	X
85	OHX	1	3676	-	-	-	X
85	OHX	1	3677	-	-	X	X
85	OHX	1	3680	-	-	-	X
85	OHX	1	3685	-	-	X	-
85	OHX	1	3687	-	-	-	X
85	OHX	1	3689	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	OHX	1	3691	-	-	-	X
85	OHX	1	3692	-	-	-	X
85	OHX	1	3694	-	-	X	-
85	OHX	1	3695	-	-	X	-
85	OHX	1	3697	-	-	-	X
85	OHX	1	3698	-	-	-	X
85	OHX	1	3702	-	-	X	-
85	OHX	1	3705	-	-	-	X
85	OHX	1	3707	-	-	-	X
85	OHX	1	3710	-	-	-	X
85	OHX	1	3711	-	-	X	-
85	OHX	1	3713	-	-	-	X
85	OHX	1	3714	-	-	-	X
85	OHX	1	3716	-	-	-	X
85	OHX	1	3719	-	-	-	X
85	OHX	1	3720	-	-	X	-
85	OHX	1	3721	-	-	-	X
85	OHX	1	3723	-	-	-	X
85	OHX	1	3724	-	-	-	X
85	OHX	1	3727	-	-	-	X
85	OHX	1	3731	-	-	-	X
85	OHX	1	3734	-	-	-	X
85	OHX	1	3736	-	-	-	X
85	OHX	1	3737	-	-	X	-
85	OHX	2	1909	-	-	X	-
85	OHX	2	1922	-	-	X	-
85	OHX	2	1942	-	-	-	X
85	OHX	2	1947	-	-	-	X
85	OHX	2	1953	-	-	X	X
85	OHX	2	1964	-	-	-	X
85	OHX	2	1968	-	-	X	-
85	OHX	2	1977	-	-	X	-
85	OHX	2	1981	-	-	-	X
85	OHX	2	1989	-	-	X	-
85	OHX	2	1991	-	-	-	X
85	OHX	2	1995	-	-	-	X
85	OHX	2	2004	-	-	-	X
85	OHX	2	2010	-	-	X	-
85	OHX	2	2013	-	-	-	X
85	OHX	2	2015	-	-	-	X
85	OHX	2	2022	-	-	-	X
85	OHX	2	2024	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	OHX	2	2025	-	-	X	-
85	OHX	2	2027	-	-	-	X
85	OHX	2	2034	-	-	-	X
85	OHX	2	2036	-	-	-	X
85	OHX	2	2039	-	-	-	X
85	OHX	2	2040	-	-	X	-
85	OHX	3	210	-	-	-	X
85	OHX	4	207	-	-	-	X
85	OHX	4	208	-	-	-	X
85	OHX	4	211	-	-	-	X
85	OHX	4	212	-	-	-	X
85	OHX	4	213	-	-	-	X
85	OHX	5	3444	-	-	X	-
85	OHX	5	3480	-	-	X	-
85	OHX	5	3496	-	-	-	X
85	OHX	5	3504	-	-	X	-
85	OHX	5	3505	-	-	X	X
85	OHX	5	3514	-	-	X	-
85	OHX	5	3524	-	-	X	-
85	OHX	5	3527	-	-	-	X
85	OHX	5	3530	-	-	-	X
85	OHX	5	3537	-	-	X	-
85	OHX	5	3539	-	-	X	-
85	OHX	5	3546	-	-	-	X
85	OHX	5	3553	-	-	-	X
85	OHX	5	3556	-	-	-	X
85	OHX	5	3558	-	-	-	X
85	OHX	5	3559	-	-	X	-
85	OHX	5	3570	-	-	X	-
85	OHX	5	3577	-	-	-	X
85	OHX	5	3583	-	-	-	X
85	OHX	5	3585	-	-	X	-
85	OHX	5	3590	-	-	-	X
85	OHX	5	3593	-	-	-	X
85	OHX	5	3594	-	-	X	-
85	OHX	5	3596	-	-	-	X
85	OHX	5	3604	-	-	-	X
85	OHX	5	3606	-	-	X	X
85	OHX	5	3609	-	-	-	X
85	OHX	5	3610	-	-	-	X
85	OHX	5	3611	-	-	-	X
85	OHX	5	3615	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	OHX	5	3616	-	-	-	X
85	OHX	5	3617	-	-	-	X
85	OHX	5	3622	-	-	-	X
85	OHX	5	3624	-	-	-	X
85	OHX	5	3625	-	-	-	X
85	OHX	5	3630	-	-	-	X
85	OHX	5	3631	-	-	-	X
85	OHX	5	3637	-	-	-	X
85	OHX	5	3639	-	-	-	X
85	OHX	5	3642	-	-	-	X
85	OHX	5	3644	-	-	-	X
85	OHX	5	3646	-	-	-	X
85	OHX	5	3647	-	-	X	-
85	OHX	5	3648	-	-	-	X
85	OHX	5	3650	-	-	-	X
85	OHX	5	3657	-	-	-	X
85	OHX	5	3658	-	-	-	X
85	OHX	5	3660	-	-	-	X
85	OHX	5	3663	-	-	-	X
85	OHX	5	3664	-	-	-	X
85	OHX	5	3665	-	-	-	X
85	OHX	5	3667	-	-	-	X
85	OHX	5	3668	-	-	-	X
85	OHX	5	3676	-	-	-	X
85	OHX	5	3678	-	-	-	X
85	OHX	5	3682	-	-	-	X
85	OHX	5	3688	-	-	-	X
85	OHX	5	3689	-	-	-	X
85	OHX	5	3690	-	-	-	X
85	OHX	5	3691	-	-	-	X
85	OHX	5	3693	-	-	X	X
85	OHX	5	3694	-	-	-	X
85	OHX	5	3695	-	-	-	X
85	OHX	5	3696	-	-	-	X
85	OHX	5	3697	-	-	-	X
85	OHX	5	3699	-	-	-	X
85	OHX	5	3700	-	-	-	X
85	OHX	5	3701	-	-	-	X
85	OHX	5	3702	-	-	-	X
85	OHX	5	3703	-	-	X	-
85	OHX	5	3704	-	-	X	-
85	OHX	5	3705	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	OHX	5	3706	-	-	X	-
85	OHX	5	3707	-	-	-	X
85	OHX	5	3709	-	-	-	X
85	OHX	5	3710	-	-	-	X
85	OHX	5	3715	-	-	-	X
85	OHX	5	3718	-	-	-	X
85	OHX	5	3720	-	-	-	X
85	OHX	5	3721	-	-	X	X
85	OHX	5	3728	-	-	-	X
85	OHX	5	3737	-	-	-	X
85	OHX	5	3738	-	-	-	X
85	OHX	5	3739	-	-	X	-
85	OHX	5	3740	-	-	-	X
85	OHX	5	3742	-	-	X	-
85	OHX	5	3743	-	-	X	-
85	OHX	6	1914	-	-	X	-
85	OHX	6	1964	-	-	-	X
85	OHX	6	1966	-	-	-	X
85	OHX	6	1967	-	-	-	X
85	OHX	6	1971	-	-	-	X
85	OHX	6	1975	-	-	X	-
85	OHX	6	1979	-	-	-	X
85	OHX	6	1980	-	-	-	X
85	OHX	6	1981	-	-	-	X
85	OHX	6	1987	-	-	-	X
85	OHX	6	1988	-	-	-	X
85	OHX	6	1990	-	-	-	X
85	OHX	6	1995	-	-	-	X
85	OHX	6	2001	-	-	X	X
85	OHX	6	2002	-	-	-	X
85	OHX	6	2005	-	-	-	X
85	OHX	6	2011	-	-	-	X
85	OHX	6	2015	-	-	-	X
85	OHX	6	2019	-	-	-	X
85	OHX	6	2022	-	-	-	X
85	OHX	6	2025	-	-	X	-
85	OHX	6	2028	-	-	-	X
85	OHX	6	2029	-	-	-	X
85	OHX	6	2030	-	-	-	X
85	OHX	6	2031	-	-	-	X
85	OHX	6	2032	-	-	-	X
85	OHX	6	2034	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	OHX	6	2038	-	-	-	X
85	OHX	6	2039	-	-	-	X
85	OHX	6	2043	-	-	-	X
85	OHX	6	2045	-	-	-	X
85	OHX	6	2049	-	-	-	X
85	OHX	7	203	-	-	X	-
85	OHX	7	209	-	-	X	X
85	OHX	7	211	-	-	X	X
85	OHX	7	212	-	-	-	X
85	OHX	8	203	-	-	X	-
85	OHX	8	208	-	-	-	X
85	OHX	8	211	-	-	X	-
85	OHX	8	212	-	-	-	X
85	OHX	8	213	-	-	-	X
85	OHX	8	215	-	-	-	X
85	OHX	D9	102	-	-	-	X
85	OHX	L4	401	-	-	X	-
85	OHX	M7	201	-	-	-	X
85	OHX	O4	201	-	-	-	X
85	OHX	Q2	502	-	-	X	-
85	OHX	S9	201	-	-	X	X
85	OHX	l3	402	-	-	-	X
85	OHX	m0	303	-	-	-	X
85	OHX	o4	201	-	-	-	X
85	OHX	o7	502	-	-	-	X
85	OHX	s9	201	-	-	-	X
86	MG	1	3738	-	-	-	X
86	MG	1	3740	-	-	-	X
86	MG	1	3743	-	-	-	X
86	MG	1	3744	-	-	-	X
86	MG	1	3746	-	-	-	X
86	MG	1	3750	-	-	-	X
86	MG	1	3752	-	-	-	X
86	MG	1	3753	-	-	-	X
86	MG	1	3758	-	-	-	X
86	MG	1	3768	-	-	-	X
86	MG	1	3782	-	-	-	X
86	MG	1	3786	-	-	-	X
86	MG	1	3787	-	-	-	X
86	MG	1	3795	-	-	-	X
86	MG	1	3796	-	-	-	X
86	MG	1	3801	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	MG	1	3808	-	-	-	X
86	MG	1	3812	-	-	-	X
86	MG	1	3813	-	-	-	X
86	MG	1	3814	-	-	-	X
86	MG	1	3815	-	-	-	X
86	MG	1	3818	-	-	-	X
86	MG	1	3819	-	-	-	X
86	MG	1	3825	-	-	-	X
86	MG	1	3826	-	-	-	X
86	MG	1	3827	-	-	-	X
86	MG	1	3830	-	-	-	X
86	MG	1	3834	-	-	-	X
86	MG	1	3835	-	-	-	X
86	MG	1	3836	-	-	-	X
86	MG	1	3839	-	-	-	X
86	MG	1	3843	-	-	-	X
86	MG	1	3844	-	-	-	X
86	MG	1	3845	-	-	-	X
86	MG	1	3851	-	-	-	X
86	MG	1	3855	-	-	-	X
86	MG	1	3857	-	-	-	X
86	MG	1	3858	-	-	-	X
86	MG	1	3864	-	-	-	X
86	MG	1	3865	-	-	-	X
86	MG	1	3866	-	-	-	X
86	MG	1	3870	-	-	-	X
86	MG	1	3871	-	-	-	X
86	MG	1	3872	-	-	-	X
86	MG	1	3878	-	-	-	X
86	MG	1	3881	-	-	-	X
86	MG	1	3882	-	-	-	X
86	MG	1	3885	-	-	-	X
86	MG	1	3886	-	-	-	X
86	MG	1	3887	-	-	-	X
86	MG	1	3888	-	-	-	X
86	MG	1	3890	-	-	-	X
86	MG	1	3896	-	-	-	X
86	MG	1	3897	-	-	-	X
86	MG	1	3898	-	-	-	X
86	MG	1	3901	-	-	-	X
86	MG	1	3902	-	-	-	X
86	MG	1	3905	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	MG	1	3907	-	-	-	X
86	MG	1	3908	-	-	-	X
86	MG	1	3910	-	-	-	X
86	MG	1	3912	-	-	-	X
86	MG	1	3913	-	-	-	X
86	MG	1	3914	-	-	-	X
86	MG	1	3920	-	-	-	X
86	MG	1	3921	-	-	-	X
86	MG	1	3929	-	-	-	X
86	MG	1	3942	-	-	-	X
86	MG	1	3946	-	-	-	X
86	MG	1	3954	-	-	-	X
86	MG	1	3961	-	-	-	X
86	MG	1	3973	-	-	-	X
86	MG	1	3977	-	-	-	X
86	MG	1	3981	-	-	-	X
86	MG	1	3983	-	-	-	X
86	MG	1	3990	-	-	-	X
86	MG	1	3993	-	-	-	X
86	MG	1	3995	-	-	-	X
86	MG	1	4003	-	-	-	X
86	MG	1	4013	-	-	-	X
86	MG	1	4014	-	-	-	X
86	MG	1	4030	-	-	-	X
86	MG	1	4031	-	-	-	X
86	MG	1	4033	-	-	-	X
86	MG	1	4037	-	-	-	X
86	MG	1	4040	-	-	-	X
86	MG	1	4041	-	-	-	X
86	MG	1	4049	-	-	-	X
86	MG	1	4053	-	-	-	X
86	MG	1	4057	-	-	-	X
86	MG	1	4060	-	-	-	X
86	MG	1	4061	-	-	-	X
86	MG	1	4062	-	-	-	X
86	MG	1	4063	-	-	-	X
86	MG	1	4066	-	-	-	X
86	MG	1	4068	-	-	-	X
86	MG	1	4084	-	-	-	X
86	MG	1	4094	-	-	-	X
86	MG	1	4104	-	-	-	X
86	MG	1	4105	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	MG	1	4109	-	-	-	X
86	MG	1	4114	-	-	-	X
86	MG	1	4118	-	-	-	X
86	MG	1	4130	-	-	-	X
86	MG	1	4131	-	-	-	X
86	MG	1	4132	-	-	-	X
86	MG	2	2047	-	-	-	X
86	MG	2	2051	-	-	-	X
86	MG	2	2053	-	-	-	X
86	MG	2	2054	-	-	-	X
86	MG	2	2055	-	-	-	X
86	MG	2	2060	-	-	-	X
86	MG	2	2064	-	-	-	X
86	MG	2	2071	-	-	-	X
86	MG	2	2074	-	-	-	X
86	MG	2	2075	-	-	-	X
86	MG	2	2076	-	-	-	X
86	MG	2	2078	-	-	-	X
86	MG	2	2081	-	-	-	X
86	MG	2	2083	-	-	-	X
86	MG	2	2085	-	-	-	X
86	MG	2	2089	-	-	-	X
86	MG	2	2091	-	-	-	X
86	MG	2	2093	-	-	-	X
86	MG	2	2095	-	-	-	X
86	MG	2	2097	-	-	-	X
86	MG	2	2100	-	-	-	X
86	MG	2	2104	-	-	-	X
86	MG	2	2109	-	-	-	X
86	MG	2	2110	-	-	-	X
86	MG	2	2112	-	-	-	X
86	MG	4	219	-	-	-	X
86	MG	4	223	-	-	-	X
86	MG	5	3749	-	-	-	X
86	MG	5	3751	-	-	-	X
86	MG	5	3756	-	-	-	X
86	MG	5	3757	-	-	-	X
86	MG	5	3760	-	-	-	X
86	MG	5	3763	-	-	-	X
86	MG	5	3764	-	-	-	X
86	MG	5	3768	-	-	-	X
86	MG	5	3769	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	MG	5	3772	-	-	-	X
86	MG	5	3774	-	-	-	X
86	MG	5	3782	-	-	-	X
86	MG	5	3788	-	-	-	X
86	MG	5	3792	-	-	-	X
86	MG	5	3800	-	-	-	X
86	MG	5	3803	-	-	-	X
86	MG	5	3804	-	-	-	X
86	MG	5	3810	-	-	-	X
86	MG	5	3814	-	-	-	X
86	MG	5	3815	-	-	-	X
86	MG	5	3830	-	-	-	X
86	MG	5	3832	-	-	-	X
86	MG	5	3833	-	-	-	X
86	MG	5	3835	-	-	-	X
86	MG	5	3837	-	-	-	X
86	MG	5	3839	-	-	-	X
86	MG	5	3844	-	-	-	X
86	MG	5	3845	-	-	-	X
86	MG	5	3846	-	-	-	X
86	MG	5	3847	-	-	-	X
86	MG	5	3850	-	-	-	X
86	MG	5	3851	-	-	-	X
86	MG	5	3852	-	-	-	X
86	MG	5	3858	-	-	-	X
86	MG	5	3861	-	-	-	X
86	MG	5	3862	-	-	-	X
86	MG	5	3866	-	-	-	X
86	MG	5	3869	-	-	-	X
86	MG	5	3876	-	-	-	X
86	MG	5	3878	-	-	-	X
86	MG	5	3880	-	-	-	X
86	MG	5	3883	-	-	-	X
86	MG	5	3884	-	-	-	X
86	MG	5	3885	-	-	-	X
86	MG	5	3887	-	-	-	X
86	MG	5	3889	-	-	-	X
86	MG	5	3892	-	-	-	X
86	MG	5	3894	-	-	-	X
86	MG	5	3895	-	-	-	X
86	MG	5	3899	-	-	-	X
86	MG	5	3900	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	MG	5	3902	-	-	-	X
86	MG	5	3903	-	-	-	X
86	MG	5	3904	-	-	-	X
86	MG	5	3906	-	-	-	X
86	MG	5	3907	-	-	-	X
86	MG	5	3908	-	-	-	X
86	MG	5	3915	-	-	-	X
86	MG	5	3918	-	-	-	X
86	MG	5	3919	-	-	-	X
86	MG	5	3920	-	-	-	X
86	MG	5	3922	-	-	-	X
86	MG	5	3925	-	-	-	X
86	MG	5	3926	-	-	-	X
86	MG	5	3927	-	-	-	X
86	MG	5	3928	-	-	-	X
86	MG	5	3929	-	-	-	X
86	MG	5	3930	-	-	-	X
86	MG	5	3941	-	-	-	X
86	MG	5	3947	-	-	-	X
86	MG	5	3948	-	-	-	X
86	MG	5	3950	-	-	-	X
86	MG	5	3958	-	-	-	X
86	MG	5	3966	-	-	-	X
86	MG	5	3968	-	-	-	X
86	MG	5	3969	-	-	-	X
86	MG	5	3972	-	-	-	X
86	MG	5	3979	-	-	-	X
86	MG	5	3983	-	-	-	X
86	MG	5	3986	-	-	-	X
86	MG	5	3993	-	-	-	X
86	MG	5	3999	-	-	-	X
86	MG	5	4010	-	-	-	X
86	MG	5	4038	-	-	-	X
86	MG	5	4050	-	-	-	X
86	MG	5	4051	-	-	-	X
86	MG	5	4055	-	-	-	X
86	MG	5	4062	-	-	-	X
86	MG	5	4063	-	-	-	X
86	MG	5	4066	-	-	-	X
86	MG	5	4067	-	-	-	X
86	MG	5	4069	-	-	-	X
86	MG	5	4075	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	MG	5	4076	-	-	-	X
86	MG	5	4087	-	-	-	X
86	MG	5	4089	-	-	-	X
86	MG	5	4090	-	-	-	X
86	MG	5	4091	-	-	-	X
86	MG	5	4104	-	-	-	X
86	MG	5	4107	-	-	-	X
86	MG	5	4108	-	-	-	X
86	MG	5	4110	-	-	-	X
86	MG	5	4113	-	-	-	X
86	MG	5	4115	-	-	-	X
86	MG	5	4119	-	-	-	X
86	MG	5	4124	-	-	-	X
86	MG	5	4125	-	-	-	X
86	MG	5	4135	-	-	-	X
86	MG	5	4137	-	-	-	X
86	MG	5	4140	-	-	-	X
86	MG	5	4146	-	-	-	X
86	MG	5	4154	-	-	-	X
86	MG	5	4163	-	-	-	X
86	MG	5	4165	-	-	-	X
86	MG	5	4166	-	-	-	X
86	MG	5	4170	-	-	-	X
86	MG	6	2051	-	-	-	X
86	MG	6	2053	-	-	-	X
86	MG	6	2054	-	-	-	X
86	MG	6	2056	-	-	-	X
86	MG	6	2058	-	-	-	X
86	MG	6	2059	-	-	-	X
86	MG	6	2060	-	-	-	X
86	MG	6	2061	-	-	-	X
86	MG	6	2064	-	-	-	X
86	MG	6	2067	-	-	-	X
86	MG	6	2070	-	-	-	X
86	MG	6	2072	-	-	-	X
86	MG	6	2073	-	-	-	X
86	MG	6	2076	-	-	-	X
86	MG	6	2081	-	-	-	X
86	MG	6	2085	-	-	-	X
86	MG	6	2086	-	-	-	X
86	MG	6	2091	-	-	-	X
86	MG	6	2092	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	MG	6	2094	-	-	-	X
86	MG	6	2099	-	-	-	X
86	MG	6	2101	-	-	-	X
86	MG	6	2109	-	-	-	X
86	MG	6	2114	-	-	-	X
86	MG	6	2119	-	-	-	X
86	MG	6	2128	-	-	-	X
86	MG	6	2130	-	-	-	X
86	MG	6	2132	-	-	-	X
86	MG	6	2145	-	-	-	X
86	MG	6	2147	-	-	-	X
86	MG	6	2164	-	-	-	X
86	MG	6	2170	-	-	-	X
86	MG	6	2181	-	-	-	X
86	MG	8	219	-	-	-	X
86	MG	8	222	-	-	-	X
86	MG	C2	201	-	-	-	X
86	MG	C9	201	-	-	-	X
86	MG	L3	404	-	-	-	X
86	MG	L4	403	-	-	-	X
86	MG	M1	201	-	-	-	X
86	MG	M8	201	-	-	-	X
86	MG	MG	2224	-	-	-	X
86	MG	N0	201	-	-	-	X
86	MG	N3	201	-	-	-	X
86	MG	O1	201	-	-	-	X
86	MG	O2	201	-	-	-	X
86	MG	S4	301	-	-	-	X
86	MG	c1	202	-	-	-	X
86	MG	l3	403	-	-	-	X
86	MG	l3	404	-	-	-	X
86	MG	l3	406	-	-	-	X
86	MG	l7	301	-	-	-	X
86	MG	m0	305	-	-	-	X
86	MG	m6	203	-	-	-	X
86	MG	m7	201	-	-	-	X
86	MG	n0	202	-	-	-	X
86	MG	n0	203	-	-	-	X
86	MG	n0	204	-	-	-	X
86	MG	n3	202	-	-	-	X
86	MG	n6	201	-	-	-	X
86	MG	n6	202	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	MG	n8	201	-	-	-	X
86	MG	n9	103	-	-	-	X
86	MG	o1	201	-	-	-	X
86	MG	s1	301	-	-	-	X
86	MG	s4	302	-	-	-	X
86	MG	sM	402	-	-	-	X
87	ZN	d7	101	-	-	-	X

2 Entry composition

There are 87 unique types of molecules in this entry. The entry contains 411776 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	2	1781	Total	C	N	O	P	0	1	0
			37970	16975	6720	12493	1782			
1	6	1795	Total	C	N	O	P	0	1	0
			38260	17105	6763	12596	1796			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	S0	206	Total	C	N	O	S	0	0	0
			1612	1034	285	291	2			
2	s0	206	Total	C	N	O	S	0	0	0
			1612	1034	285	291	2			

- Molecule 3 is a protein called 40S ribosomal protein S1-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	S1	214	Total	C	N	O	S	0	0	0
			1709	1084	310	311	4			
3	s1	216	Total	C	N	O	S	0	0	0
			1722	1091	312	315	4			

- Molecule 4 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	S2	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			
4	s2	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			

- Molecule 5 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	S3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			
5	s3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			

- Molecule 6 is a protein called 40S ribosomal protein S4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	S4	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			
6	s4	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			

- Molecule 7 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	S5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			
7	s5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			

- Molecule 8 is a protein called 40S ribosomal protein S6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	S6	226	Total	C	N	O	S	0	0	0
			1820	1142	350	325	3			
8	s6	218	Total	C	N	O	S	0	0	0
			1755	1102	337	313	3			

- Molecule 9 is a protein called 40S ribosomal protein S7-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	S7	184	Total	C	N	O	0	0	0
			1481	951	265	265			
9	s7	186	Total	C	N	O	0	0	0
			1492	957	267	268			

- Molecule 10 is a protein called 40S ribosomal protein S8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	S8	188	Total	C	N	O	S	0	0	0
			1489	925	298	264	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	s8	188	Total	C	N	O	S	0	0	0
			1489	925	298	264	2			

- Molecule 11 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	S9	185	Total	C	N	O	S	0	0	0
			1494	943	289	261	1			
11	s9	185	Total	C	N	O	S	0	0	0
			1494	943	289	261	1			

- Molecule 12 is a protein called 40S ribosomal protein S10-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	C0	96	Total	C	N	O	S	0	0	0
			772	499	126	145	2			

- Molecule 13 is a protein called 40S ribosomal protein S11-A,40S ribosomal protein S11-A (uS17).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	C1	155	Total	C	N	O	S	0	0	0
			1213	774	230	206	3			
13	c1	146	Total	C	N	O	S	0	0	0
			1168	747	221	197	3			

- Molecule 14 is a protein called 40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	C2	124	Total	C	N	O	S	0	0	0
			892	562	156	172	2			
14	c2	124	Total	C	N	O	S	0	0	0
			892	562	156	172	2			

- Molecule 15 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	C3	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			
15	c3	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			

- Molecule 16 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	C4	127	Total	C	N	O	S	0	0	0
			891	545	182	163	1			
16	c4	128	Total	C	N	O	S	0	0	0
			949	582	188	176	3			

- Molecule 17 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	C5	124	Total	C	N	O	S	0	0	0
			977	622	182	166	7			
17	c5	135	Total	C	N	O	S	0	0	0
			1039	658	196	178	7			

- Molecule 18 is a protein called 40S ribosomal protein S16-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	C6	141	Total	C	N	O		0	0	0
			1105	708	203	194				
18	c6	142	Total	C	N	O		0	0	0
			1111	711	204	196				

- Molecule 19 is a protein called 40S ribosomal protein S17-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	C7	120	Total	C	N	O	S	0	0	0
			965	603	183	177	2			
19	c7	117	Total	C	N	O	S	0	0	0
			944	591	179	172	2			

- Molecule 20 is a protein called 40S ribosomal protein S18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	C8	145	Total	C	N	O	S	0	0	0
			1192	743	237	210	2			
20	c8	145	Total	C	N	O	S	0	0	0
			1192	743	237	210	2			

- Molecule 21 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	C9	143	Total	C	N	O	S	0	0	0
			1112	694	208	208	2			
21	c9	143	Total	C	N	O	S	0	0	0
			1112	694	208	208	2			

- Molecule 22 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	D0	107	Total	C	N	O	S	0	0	0
			855	539	156	159	1			
22	d0	110	Total	C	N	O	S	0	0	0
			882	554	161	166	1			

- Molecule 23 is a protein called 40S ribosomal protein S21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	D1	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			
23	d1	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			

- Molecule 24 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	D2	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			
24	d2	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			

- Molecule 25 is a protein called 40S ribosomal protein S23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	D3	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			
25	d3	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			

- Molecule 26 is a protein called 40S ribosomal protein S24-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	D4	134	Total	C	N	O	0	0	0
			1073	676	208	189			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	d4	134	Total	C	N	O	0	0	0
			1073	676	208	189			

- Molecule 27 is a protein called 40S ribosomal protein S25-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
27	D5	70	Total	C	N	O	0	0	0
			563	360	104	99			
27	d5	69	Total	C	N	O	0	0	0
			558	357	103	98			

- Molecule 28 is a protein called 40S ribosomal protein S26-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	D6	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			
28	d6	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			

- Molecule 29 is a protein called 40S ribosomal protein S27-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	D7	81	Total	C	N	O	S	0	0	0
			610	382	110	113	5			
29	d7	81	Total	C	N	O	S	0	0	0
			610	382	110	113	5			

- Molecule 30 is a protein called 40S ribosomal protein S28-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	D8	63	Total	C	N	O	S	0	0	0
			497	306	99	91	1			
30	d8	63	Total	C	N	O	S	0	0	0
			497	306	99	91	1			

- Molecule 31 is a protein called 40S ribosomal protein S29-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D9	53	Total	C	N	O	S	0	0	0
			443	275	92	72	4			
31	d9	53	Total	C	N	O	S	0	0	0
			443	275	92	72	4			

- Molecule 32 is a protein called 40S ribosomal protein S30-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	E0	60	Total	C	N	O	S	0	0	0
			475	299	98	77	1			
32	e0	62	Total	C	N	O	S	0	0	0
			491	309	101	80	1			

- Molecule 33 is a protein called 40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	E1	71	Total	C	N	O	S	0	0	0
			566	362	106	94	4			
33	e1	76	Total	C	N	O	S	0	0	0
			608	388	117	99	4			

- Molecule 34 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	SR	318	Total	C	N	O	S	0	0	0
			2441	1543	418	472	8			
34	sR	318	Total	C	N	O	S	0	0	0
			2445	1546	419	472	8			

- Molecule 35 is a protein called Suppressor protein STM1,Suppressor protein STM1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	SM	159	Total	C	N	O		0	0	0
			1104	652	221	231				
35	sM	104	Total	C	N	O		0	0	0
			680	403	140	137				

- Molecule 36 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1	3149	Total	C	N	O	P	0	0	0
			67355	30086	12142	21978	3149			
36	5	3150	Total	C	N	O	P	0	0	0
			67377	30095	12145	21987	3150			

- Molecule 37 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	3	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
37	7	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

- Molecule 38 is a RNA chain called 5.8S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	4	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			
38	8	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

- Molecule 39 is a protein called 60S ribosomal protein L2-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	L2	252	Total	C	N	O	S	0	0	0
			1918	1193	389	335	1			
39	l2	252	Total	C	N	O	S	0	0	0
			1918	1193	389	335	1			

- Molecule 40 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	L3	386	Total	C	N	O	S	0	0	0
			3073	1948	583	533	9			
40	l3	386	Total	C	N	O	S	0	0	0
			3073	1948	583	533	9			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L3	255	CYS	TRP	engineered mutation	UNP P14126
l3	255	CYS	TRP	engineered mutation	UNP P14126

- Molecule 41 is a protein called 60S ribosomal protein L4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	L4	361	Total	C	N	O	S	0	0	0
			2749	1730	522	494	3			
41	l4	361	Total	C	N	O	S	0	0	0
			2749	1730	522	494	3			

- Molecule 42 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	L5	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			
42	15	294	Total	C	N	O	S	0	0	0
			2359	1489	412	456	2			

- Molecule 43 is a protein called 60S ribosomal protein L6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	L6	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			
43	16	157	Total	C	N	O	S	0	0	0
			1248	806	224	217	1			

- Molecule 44 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	L7	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			
44	17	223	Total	C	N	O	S	0	0	0
			1791	1155	325	310	1			

- Molecule 45 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	L8	233	Total	C	N	O	S	0	0	0
			1817	1159	326	329	3			
45	18	231	Total	C	N	O	S	0	0	0
			1763	1130	316	314	3			

- Molecule 46 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	L9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			
46	19	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			

- Molecule 47 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	M0	211	Total	C	N	O	S	0	0	0
			1717	1089	325	297	6			
47	m0	213	Total	C	N	O	S	0	0	0
			1733	1101	327	299	6			

- Molecule 48 is a protein called 60S ribosomal protein L11-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	M1	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			
48	m1	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			

- Molecule 49 is a protein called 60S ribosomal protein L13-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	M3	193	Total	C	N	O		0	0	0
			1543	962	315	266				
49	m3	194	Total	C	N	O		0	0	0
			1548	965	316	267				

- Molecule 50 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	M4	136	Total	C	N	O	S	0	0	0
			1053	675	199	177	2			
50	m4	137	Total	C	N	O	S	0	0	0
			1059	678	200	179	2			

- Molecule 51 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	M5	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			
51	m5	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			

- Molecule 52 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	M6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	m6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			

- Molecule 53 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	M7	183	Total	C	N	O		0	0	0
			1442	896	287	259				
53	m7	155	Total	C	N	O		0	0	0
			1227	764	238	225				

- Molecule 54 is a protein called 60S ribosomal protein L18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	M8	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			
54	m8	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			

- Molecule 55 is a protein called 60S ribosomal protein L19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	M9	188	Total	C	N	O		0	0	0
			1521	935	326	260				
55	m9	188	Total	C	N	O		0	0	0
			1521	935	326	260				

- Molecule 56 is a protein called 60S ribosomal protein L20-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	N0	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			
56	n0	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			

- Molecule 57 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	N1	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			
57	n1	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			

- Molecule 58 is a protein called 60S ribosomal protein L22-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
58	N2	100	Total	C	N	O	0	0	0
			796	516	131	149			
58	n2	98	Total	C	N	O	0	0	0
			778	505	127	146			

- Molecule 59 is a protein called 60S ribosomal protein L23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	N3	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			
59	n3	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	N4	98	Total	C	N	O	S	0	0	0
			800	508	159	132	1			
60	n4	135	Total	C	N	O	S	0	0	0
			1089	682	219	187	1			

- Molecule 61 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	N5	121	Total	C	N	O	S	0	0	0
			968	623	170	173	2			
61	n5	120	Total	C	N	O	S	0	0	0
			959	617	168	172	2			

- Molecule 62 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
62	N6	126	Total	C	N	O	0	0	0
			993	625	192	176			
62	n6	126	Total	C	N	O	0	0	0
			993	625	192	176			

- Molecule 63 is a protein called 60S ribosomal protein L27-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
63	N7	135	Total	C	N	O	0	0	0
			1092	710	202	180			
63	n7	135	Total	C	N	O	0	0	0
			1092	710	202	180			

- Molecule 64 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
64	N8	148	Total	C	N	O	S	0	0	0
			1173	749	231	190	3			
64	n8	148	Total	C	N	O	S	0	0	0
			1173	749	231	190	3			

- Molecule 65 is a protein called 60S ribosomal protein L29.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
65	N9	58	Total	C	N	O	0	0	0
			462	289	100	73			
65	n9	58	Total	C	N	O	0	0	0
			462	289	100	73			

- Molecule 66 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
66	O0	97	Total	C	N	O	S	0	0	0
			743	479	124	139	1			
66	o0	100	Total	C	N	O	S	0	0	0
			767	492	128	146	1			

- Molecule 67 is a protein called 60S ribosomal protein L31-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
67	O1	109	Total	C	N	O	S	0	0	0
			890	565	168	156	1			
67	o1	109	Total	C	N	O	S	0	0	0
			890	565	168	156	1			

- Molecule 68 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
68	O2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
68	o2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			

- Molecule 69 is a protein called 60S ribosomal protein L33-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
69	O3	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			
69	o3	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			

- Molecule 70 is a protein called 60S ribosomal protein L34-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
70	O4	112	Total	C	N	O	S	0	0	0
			881	546	179	152	4			
70	o4	112	Total	C	N	O	S	0	0	0
			881	546	179	152	4			

- Molecule 71 is a protein called 60S ribosomal protein L35-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
71	O5	119	Total	C	N	O	S	0	0	0
			969	615	186	167	1			
71	o5	119	Total	C	N	O	S	0	0	0
			969	615	186	167	1			

- Molecule 72 is a protein called 60S ribosomal protein L36-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
72	O6	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			
72	o6	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			

- Molecule 73 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
73	O7	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			
73	o7	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			

- Molecule 74 is a protein called 60S ribosomal protein L38.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
74	O8	77	Total	C	N	O	0	0	0
			612	391	115	106			
74	o8	77	Total	C	N	O	0	0	0
			612	391	115	106			

- Molecule 75 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
75	O9	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			
75	o9	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			

- Molecule 76 is a protein called Ubiquitin-60S ribosomal protein L40.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
76	Q0	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			
76	q0	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			

- Molecule 77 is a protein called 60S ribosomal protein L41-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	Q1	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			
77	q1	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			

- Molecule 78 is a protein called 60S ribosomal protein L42-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
78	Q2	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			
78	q2	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			

- Molecule 79 is a protein called 60S ribosomal protein L43-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	Q3	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			
79	q3	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			

- Molecule 80 is a protein called 40S ribosomal protein S10-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	c0	96	Total	C	N	O	S	0	0	0
			762	491	125	144	2			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
c0	87	UNK	-	expression tag	UNP Q08745
c0	88	UNK	-	expression tag	UNP Q08745
c0	89	UNK	-	expression tag	UNP Q08745
c0	90	UNK	-	expression tag	UNP Q08745
c0	91	UNK	-	expression tag	UNP Q08745
c0	92	UNK	-	expression tag	UNP Q08745
c0	93	UNK	-	expression tag	UNP Q08745
c0	94	UNK	-	expression tag	UNP Q08745
c0	95	UNK	-	expression tag	UNP Q08745
c0	96	UNK	-	expression tag	UNP Q08745
c0	97	UNK	-	expression tag	UNP Q08745
c0	98	UNK	-	expression tag	UNP Q08745

- Molecule 81 is a protein called 60S ribosomal protein L12-A (uL11).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
81	m2	150	Total	C	N	O	0	0	0
			750	450	150	150			

- Molecule 82 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
82	p0	143	Total	C	N	O	S	0	0	0
			1077	687	192	195	3			

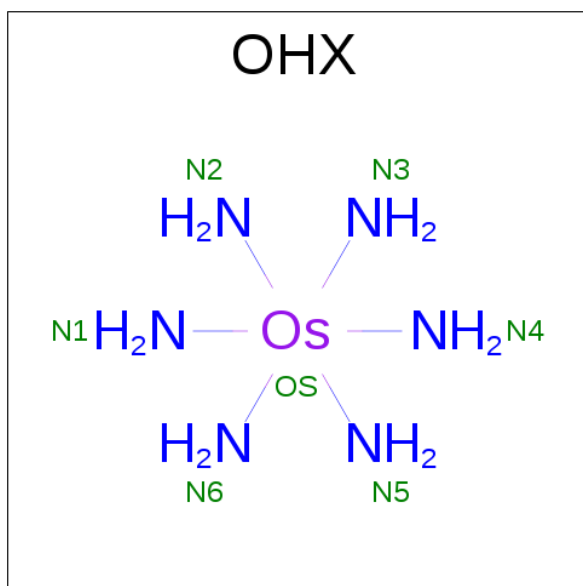
- Molecule 83 is a protein called 60S ribosomal protein P1 alpha.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
83	p1	47	Total	C	N	O	0	0	0
			235	141	47	47			

- Molecule 84 is a protein called 60S ribosomal protein P2 beta.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
84	p2	46	Total	C	N	O	0	0	0
			230	138	46	46			

- Molecule 85 is osmium (III) hexammine (three-letter code: OHX) (formula: $\text{H}_{12}\text{N}_6\text{Os}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	S6	1	Total 7	N 6	Os 1	0	0
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85	1	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	3	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	L4	1	Total	N	Os	0	0
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85	M0	1	Total	N	Os	0	0
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85	M5	1	Total	N	Os	0	0
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85	M5	1	Total	N	Os	0	0
			7	6	1		
85	M7	1	Total	N	Os	0	0
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85	M7	1	Total	N	Os	0	0
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85	M9	1	Total	N	Os	0	0
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85	N1	1	Total	N	Os	0	0
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85	N9	1	Total	N	Os	0	0
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85	O3	1	Total	N	Os	0	0
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85	O4	1	Total	N	Os	0	0
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85	O7	1	Total	N	Os	0	0
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85	O7	1	Total	N	Os	0	0
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85	Q2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	s1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	s8	1	Total	N	Os	0	0
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85	s9	1	Total	N	Os	0	0
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85	c1	1	Total	N	Os	0	0
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85	c3	1	Total	N	Os	0	0
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85	c5	1	Total	N	Os	0	0
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85	c8	1	Total	N	Os	0	0
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85	d4	1	Total	N	Os	0	0
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85	d9	1	Total	N	Os	0	0
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85	sR	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	8	1	Total 7	N 6	Os 1	0	0
85	8	1	Total 7	N 6	Os 1	0	0
85	8	1	Total 7	N 6	Os 1	0	0
85	8	1	Total 7	N 6	Os 1	0	0
85	8	1	Total 7	N 6	Os 1	0	0
85	8	1	Total 7	N 6	Os 1	0	0
85	8	1	Total 7	N 6	Os 1	0	0
85	8	1	Total 7	N 6	Os 1	0	0
85	13	1	Total 7	N 6	Os 1	0	0
85	13	1	Total 7	N 6	Os 1	0	0
85	14	1	Total 7	N 6	Os 1	0	0
85	14	1	Total 7	N 6	Os 1	0	0
85	15	1	Total 7	N 6	Os 1	0	0
85	15	1	Total 7	N 6	Os 1	0	0
85	15	1	Total 7	N 6	Os 1	0	0
85	15	1	Total 7	N 6	Os 1	0	0
85	19	1	Total 7	N 6	Os 1	0	0
85	m0	1	Total 7	N 6	Os 1	0	0
85	m0	1	Total 7	N 6	Os 1	0	0
85	m0	1	Total 7	N 6	Os 1	0	0
85	m1	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	m4	1	Total	N	Os	0	0
			7	6	1		
85	m5	1	Total	N	Os	0	0
			7	6	1		
85	n3	1	Total	N	Os	0	0
			7	6	1		
85	n5	1	Total	N	Os	0	0
			7	6	1		
85	n9	1	Total	N	Os	0	0
			7	6	1		
85	o2	1	Total	N	Os	0	0
			7	6	1		
85	o3	1	Total	N	Os	0	0
			7	6	1		
85	o4	1	Total	N	Os	0	0
			7	6	1		
85	o7	1	Total	N	Os	0	0
			7	6	1		
85	q2	1	Total	N	Os	0	0
			7	6	1		

- Molecule 86 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	L7	1	Total	Mg	0	0
			1	1		
86	N9	1	Total	Mg	0	0
			1	1		
86	n8	1	Total	Mg	0	0
			1	1		
86	MG	6	Total	Mg	0	0
			6	6		
86	o1	1	Total	Mg	0	0
			1	1		
86	p0	1	Total	Mg	0	0
			1	1		
86	6	136	Total	Mg	0	0
			136	136		
86	sM	2	Total	Mg	0	0
			2	2		
86	q1	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	l3	5	Total 5	Mg 5	0	0
86	M1	1	Total 1	Mg 1	0	0
86	n0	4	Total 4	Mg 4	0	0
86	l4	1	Total 1	Mg 1	0	0
86	2	92	Total 92	Mg 92	0	0
86	N4	1	Total 1	Mg 1	0	0
86	L4	2	Total 2	Mg 2	0	0
86	l7	1	Total 1	Mg 1	0	0
86	M5	1	Total 1	Mg 1	0	0
86	m3	1	Total 1	Mg 1	0	0
86	N6	1	Total 1	Mg 1	0	0
86	D3	1	Total 1	Mg 1	0	0
86	8	10	Total 10	Mg 10	0	0
86	M9	1	Total 1	Mg 1	0	0
86	q0	1	Total 1	Mg 1	0	0
86	SM	1	Total 1	Mg 1	0	0
86	c8	1	Total 1	Mg 1	0	0
86	M0	1	Total 1	Mg 1	0	0
86	c1	1	Total 1	Mg 1	0	0
86	5	428	Total 428	Mg 428	0	0
86	L5	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	O7	2	Total 2	Mg 2	0	0
86	s6	1	Total 1	Mg 1	0	0
86	Q2	2	Total 2	Mg 2	0	0
86	M4	1	Total 1	Mg 1	0	0
86	n9	2	Total 2	Mg 2	0	0
86	1	395	Total 395	Mg 395	0	0
86	L9	1	Total 1	Mg 1	0	0
86	O2	1	Total 1	Mg 1	0	0
86	S8	1	Total 1	Mg 1	0	0
86	m1	1	Total 1	Mg 1	0	0
86	M8	1	Total 1	Mg 1	0	0
86	D9	2	Total 2	Mg 2	0	0
86	o3	1	Total 1	Mg 1	0	0
86	M3	1	Total 1	Mg 1	0	0
86	N3	2	Total 2	Mg 2	0	0
86	4	16	Total 16	Mg 16	0	0
86	n6	2	Total 2	Mg 2	0	0
86	S4	1	Total 1	Mg 1	0	0
86	L2	2	Total 2	Mg 2	0	0
86	m6	4	Total 4	Mg 4	0	0
86	m7	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	M7	6	Total 6	Mg 6	0	0
86	m4	1	Total 1	Mg 1	0	0
86	o4	1	Total 1	Mg 1	0	0
86	N8	1	Total 1	Mg 1	0	0
86	s1	1	Total 1	Mg 1	0	0
86	D1	1	Total 1	Mg 1	0	0
86	O1	1	Total 1	Mg 1	0	0
86	o2	1	Total 1	Mg 1	0	0
86	C9	1	Total 1	Mg 1	0	0
86	7	11	Total 11	Mg 11	0	0
86	n3	1	Total 1	Mg 1	0	0
86	Q1	1	Total 1	Mg 1	0	0
86	L3	2	Total 2	Mg 2	0	0
86	O5	1	Total 1	Mg 1	0	0
86	s4	1	Total 1	Mg 1	0	0
86	C2	7	Total 7	Mg 7	0	0
86	l9	1	Total 1	Mg 1	0	0
86	M6	2	Total 2	Mg 2	0	0
86	N0	1	Total 1	Mg 1	0	0
86	m0	2	Total 2	Mg 2	0	0
86	3	8	Total 8	Mg 8	0	0

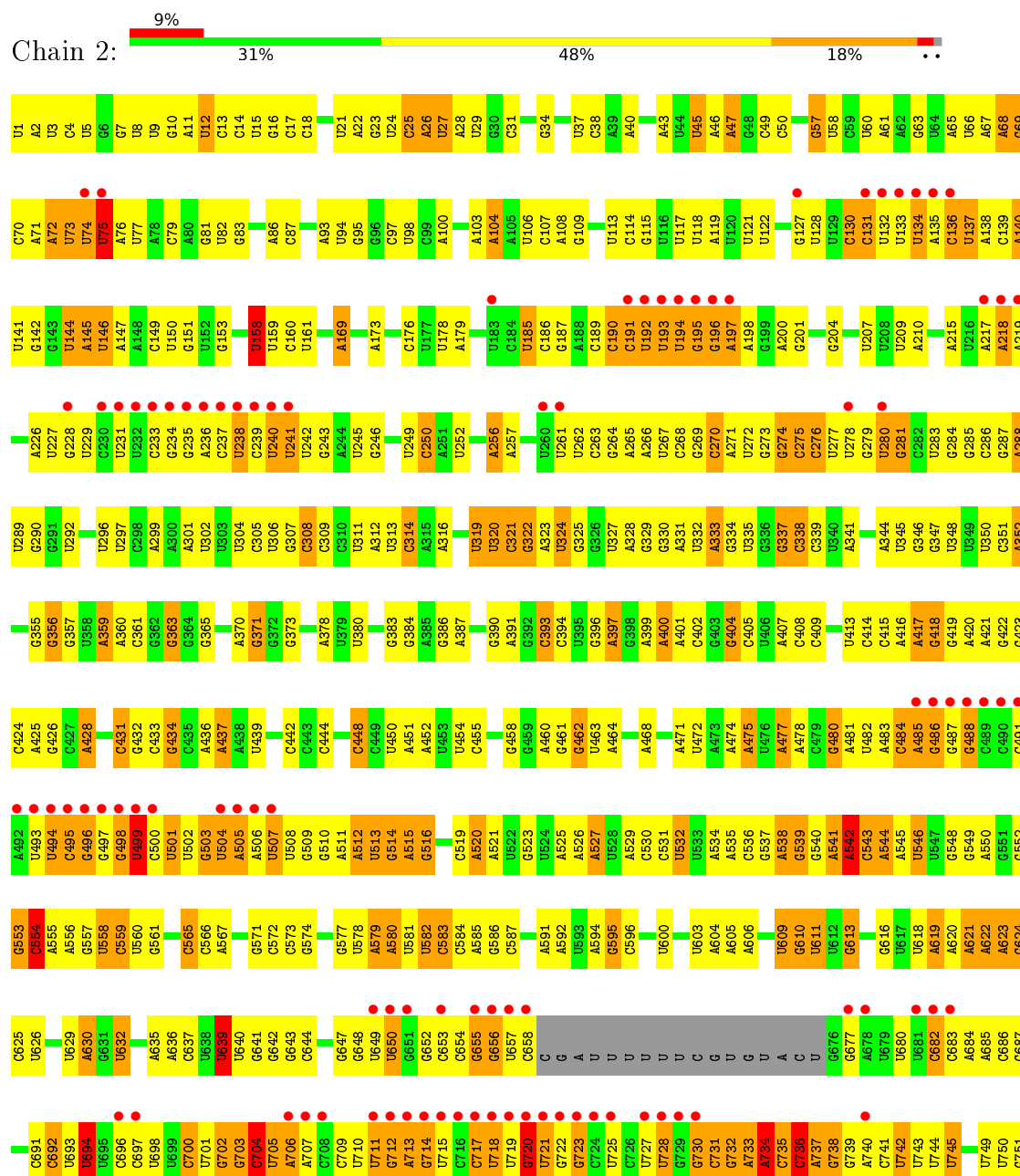
- Molecule 87 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	q0	1	Total 1	Zn 1	0	0
87	D6	1	Total 1	Zn 1	0	0
87	Q2	1	Total 1	Zn 1	0	0
87	e1	1	Total 1	Zn 1	0	0
87	Q3	1	Total 1	Zn 1	0	0
87	D9	1	Total 1	Zn 1	0	0
87	E1	1	Total 1	Zn 1	0	0
87	Q0	1	Total 1	Zn 1	0	0
87	d7	1	Total 1	Zn 1	0	0
87	q3	1	Total 1	Zn 1	0	0
87	d9	1	Total 1	Zn 1	0	0
87	D7	1	Total 1	Zn 1	0	0
87	d6	1	Total 1	Zn 1	0	0
87	o7	1	Total 1	Zn 1	0	0
87	O7	1	Total 1	Zn 1	0	0
87	q2	1	Total 1	Zn 1	0	0

3 Residue-property plots

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

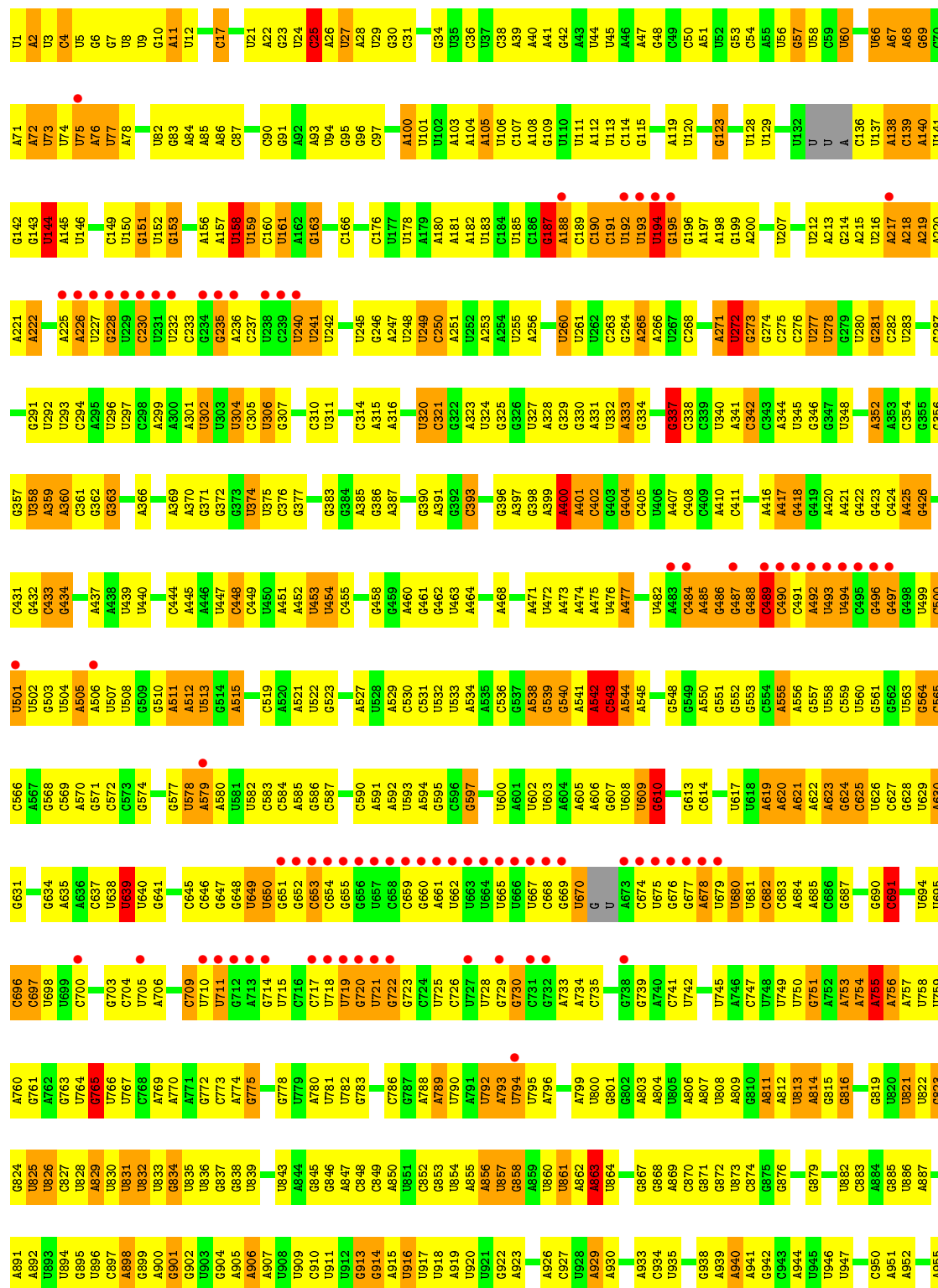
• Molecule 1: 18S ribosomal RNA

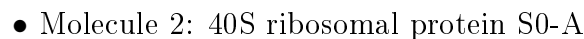


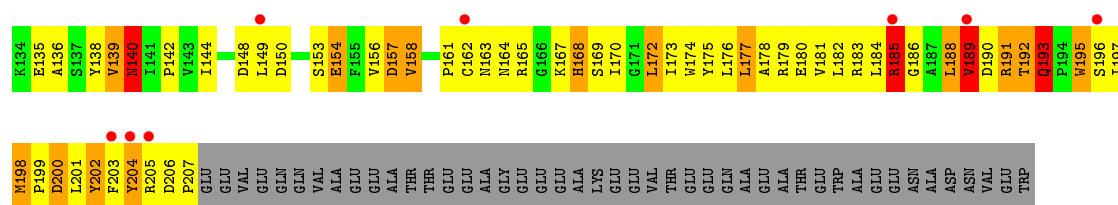




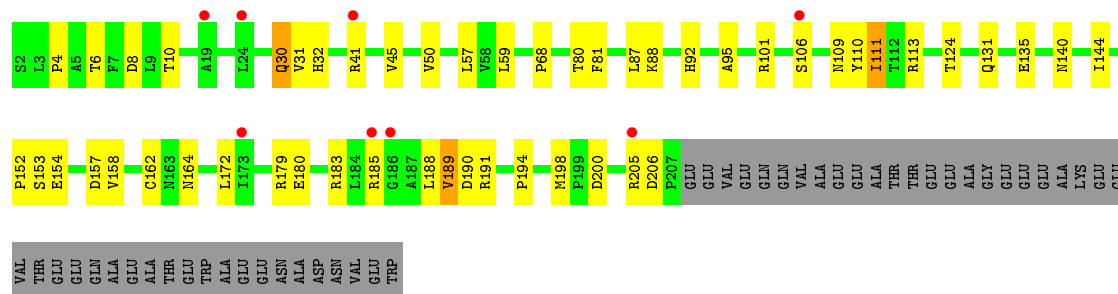
• Molecule 1: 18S ribosomal RNA



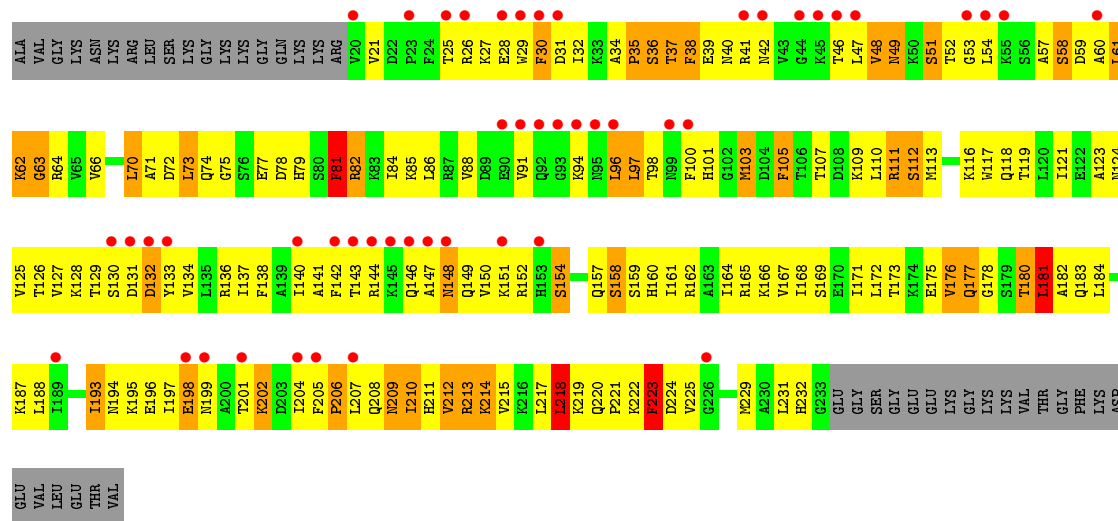
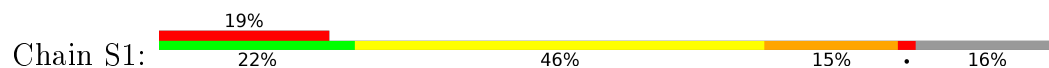




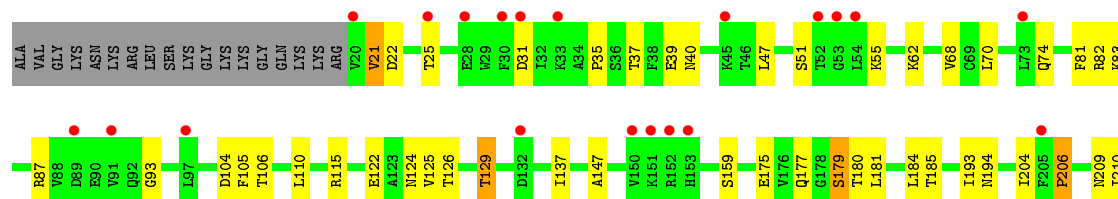
• Molecule 2: 40S ribosomal protein S0-A

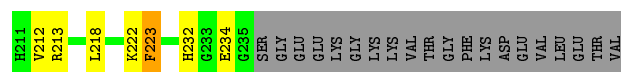


• Molecule 3: 40S ribosomal protein S1-A

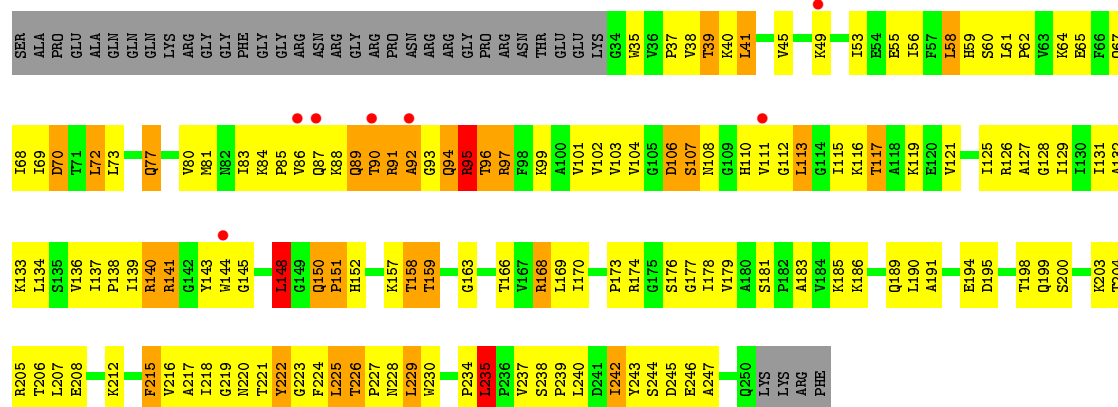


• Molecule 3: 40S ribosomal protein S1-A

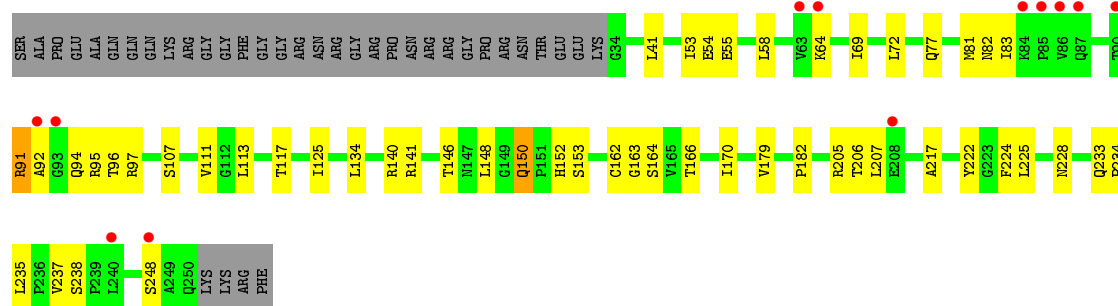




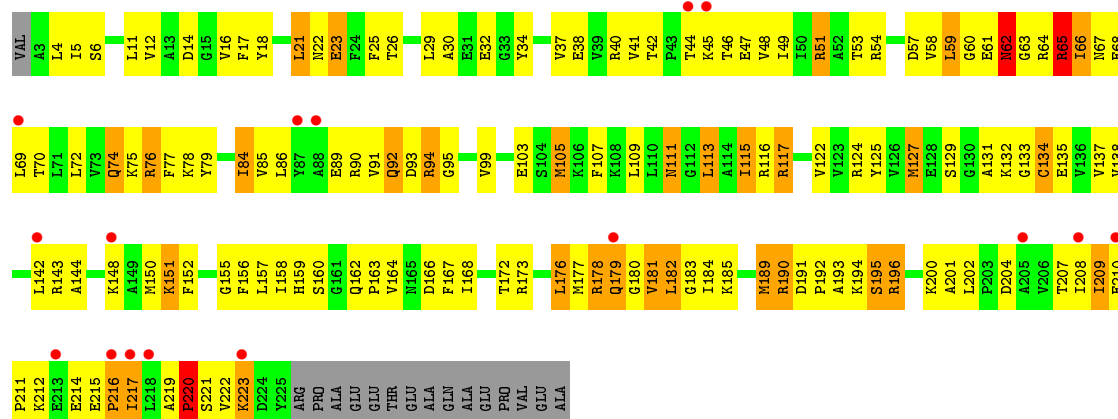
• Molecule 4: 40S ribosomal protein S2



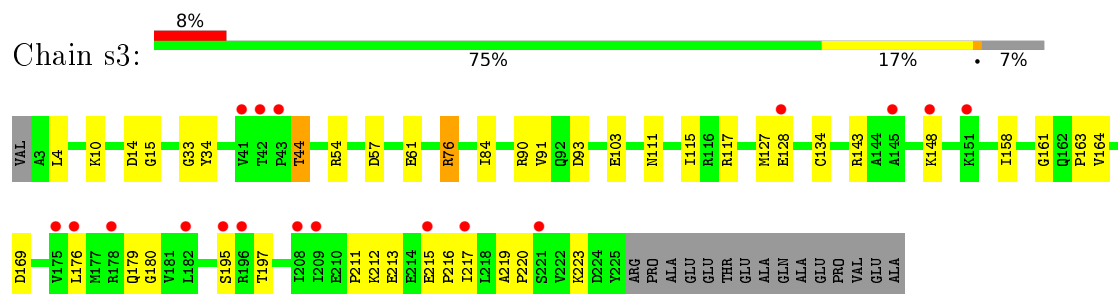
• Molecule 4: 40S ribosomal protein S2



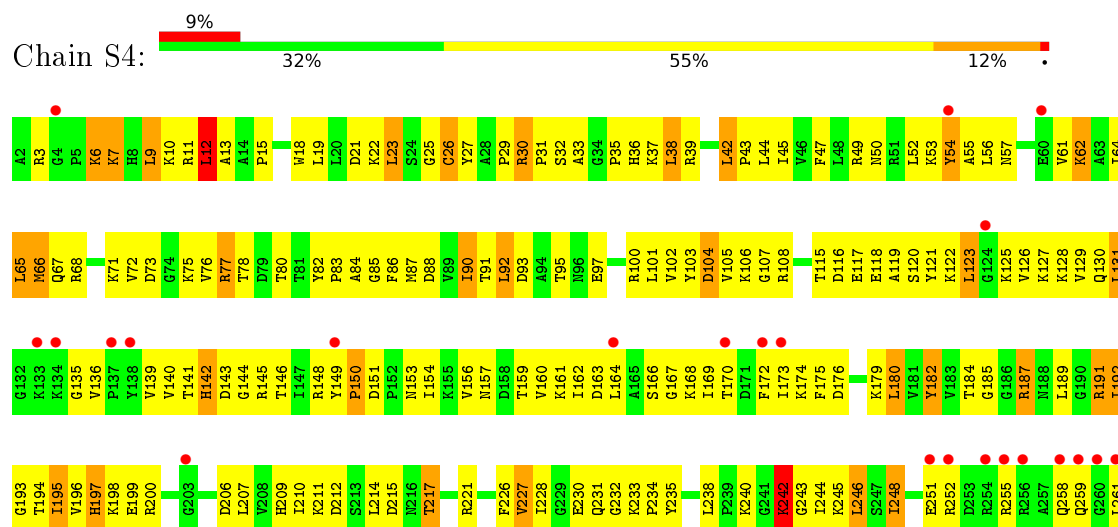
• Molecule 5: 40S ribosomal protein S3



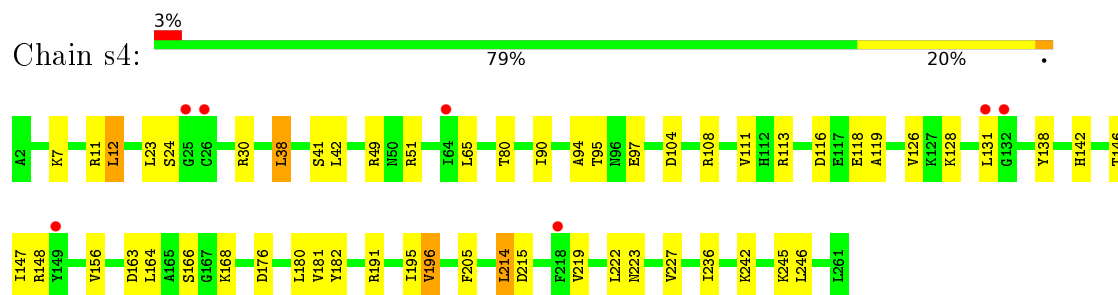
- Molecule 5: 40S ribosomal protein S3



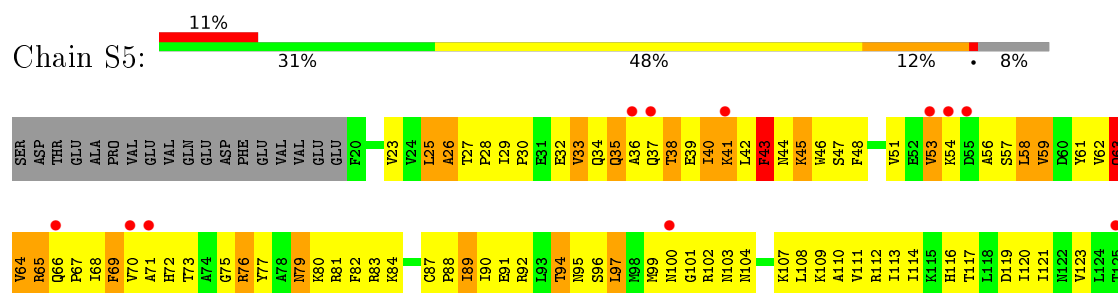
- Molecule 6: 40S ribosomal protein S4-A

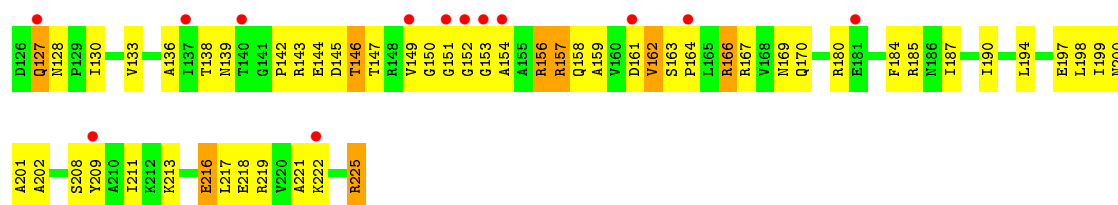


- Molecule 6: 40S ribosomal protein S4-A

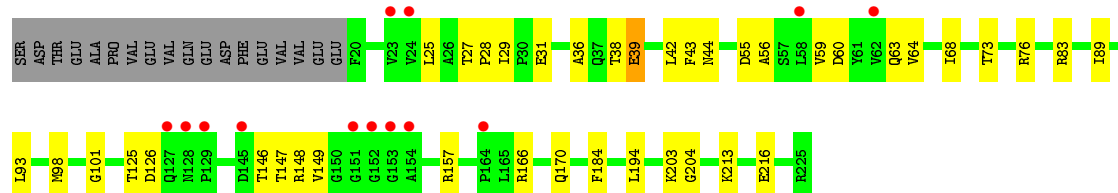
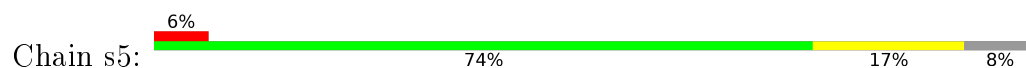


- Molecule 7: 40S ribosomal protein S5

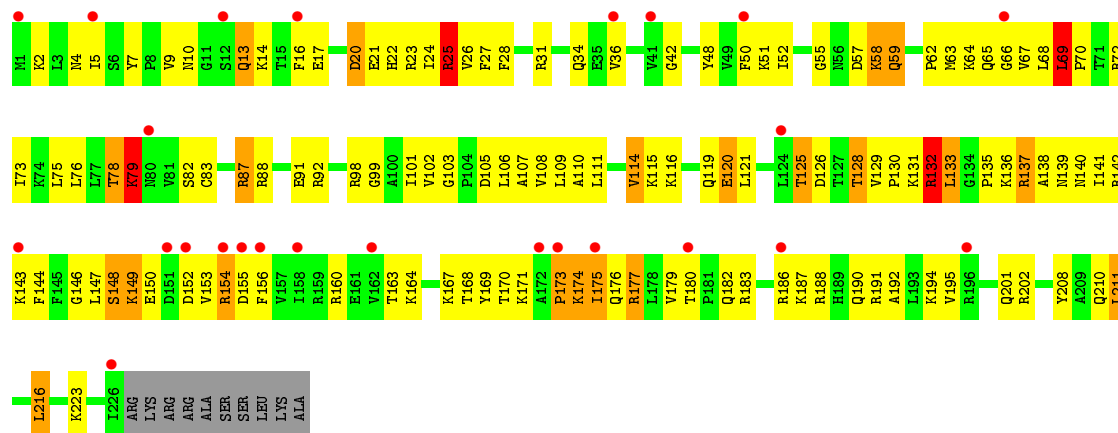




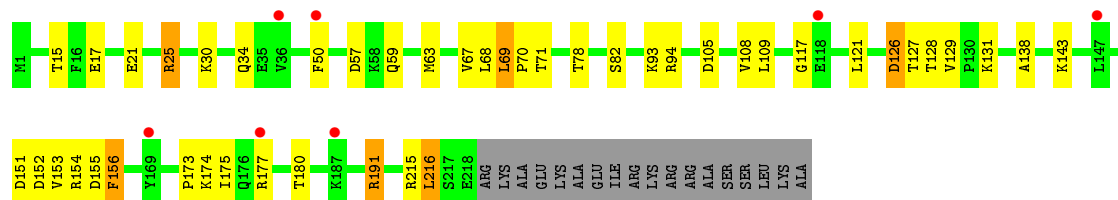
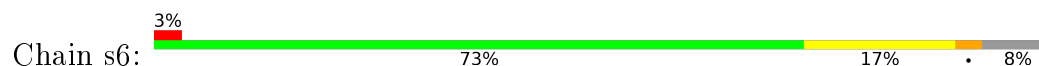
• Molecule 7: 40S ribosomal protein S5



• Molecule 8: 40S ribosomal protein S6-A

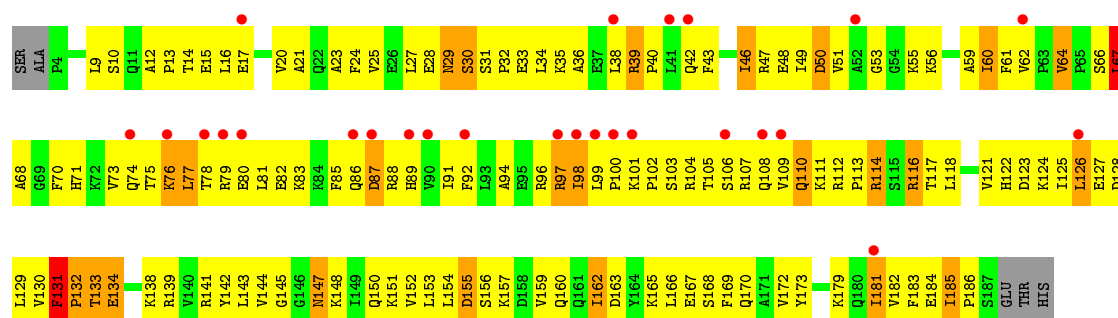


• Molecule 8: 40S ribosomal protein S6-A

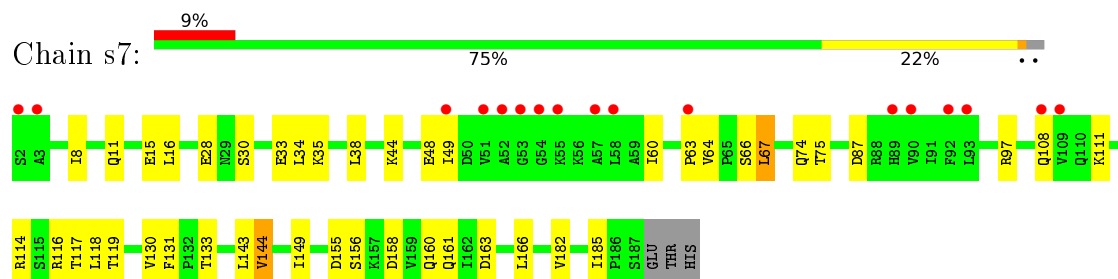


• Molecule 9: 40S ribosomal protein S7-A

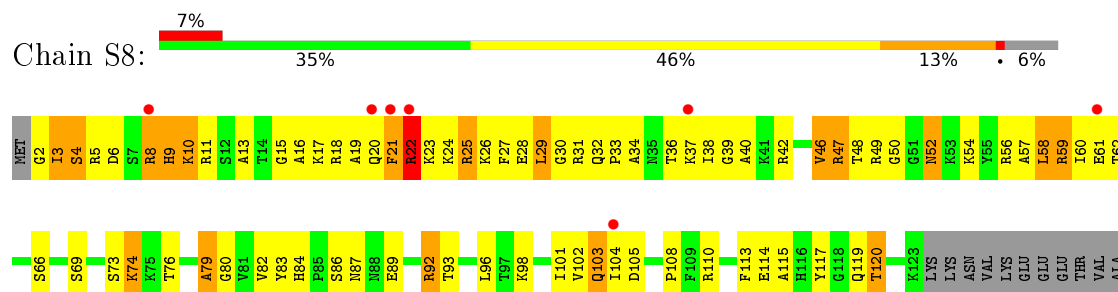




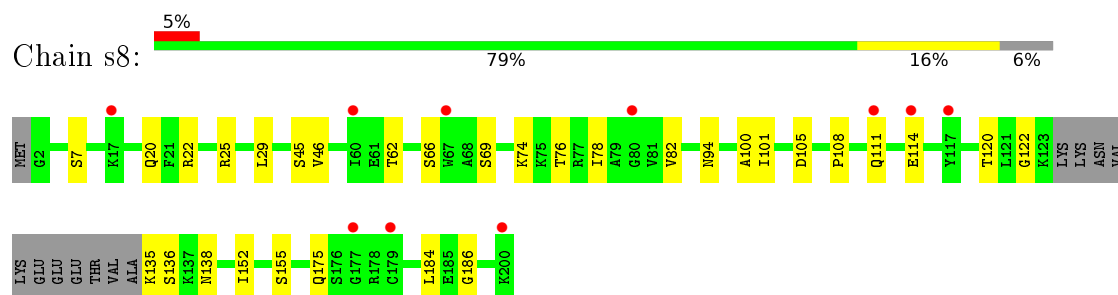
- Molecule 9: 40S ribosomal protein S7-A



- Molecule 10: 40S ribosomal protein S8-A

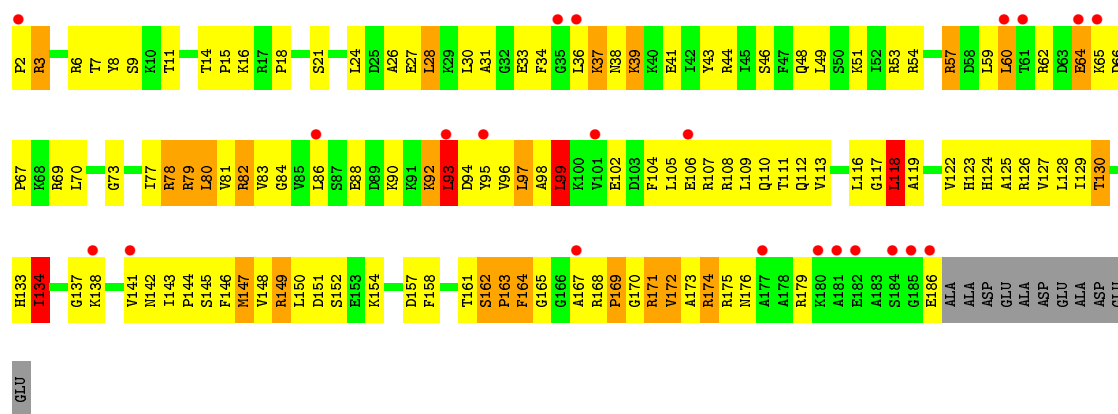


- Molecule 10: 40S ribosomal protein S8-A

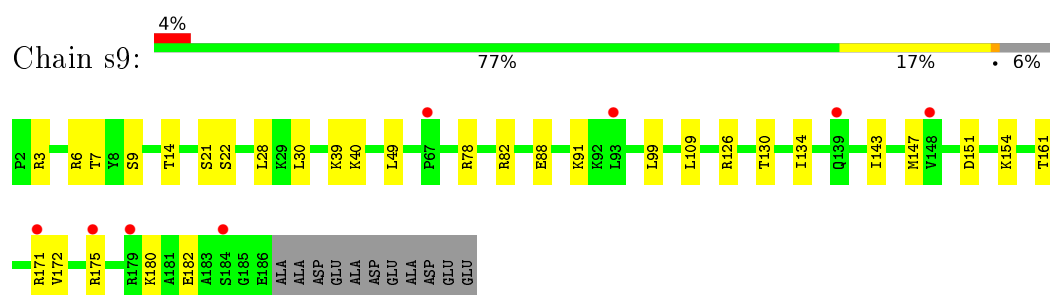


- Molecule 11: 40S ribosomal protein S9-A

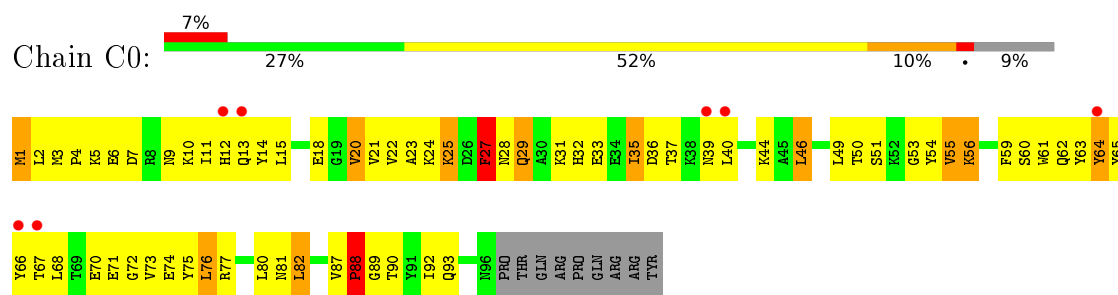




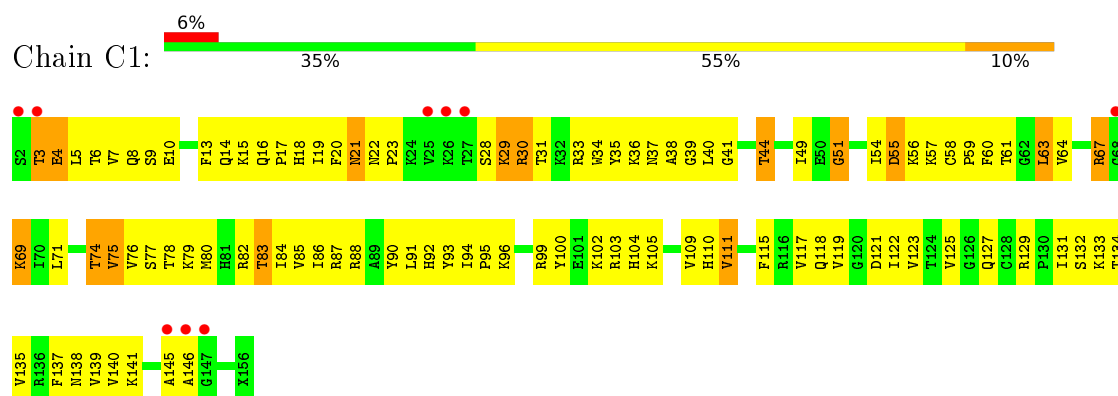
- Molecule 11: 40S ribosomal protein S9-A



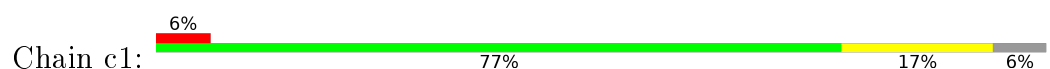
- Molecule 12: 40S ribosomal protein S10-A



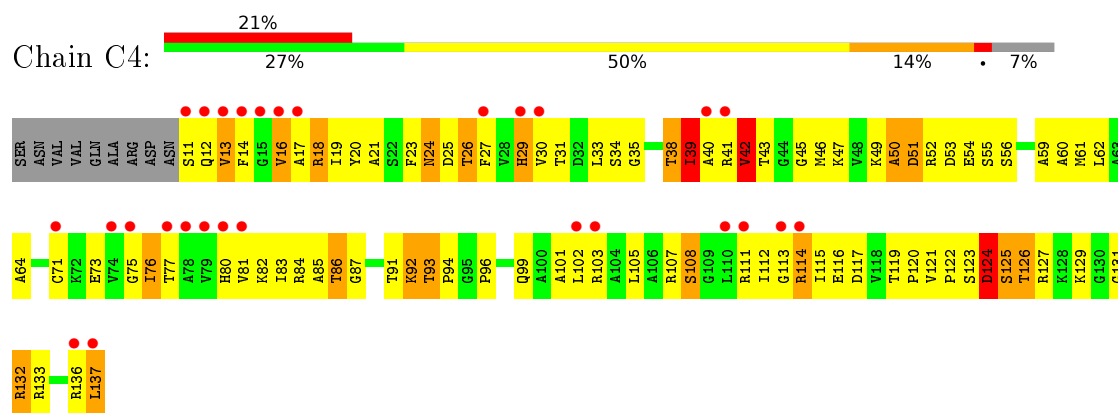
- Molecule 13: 40S ribosomal protein S11-A, 40S ribosomal protein S11-A (uS17)



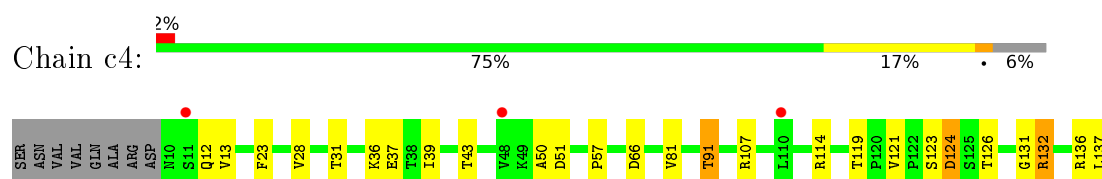
- Molecule 13: 40S ribosomal protein S11-A, 40S ribosomal protein S11-A (uS17)



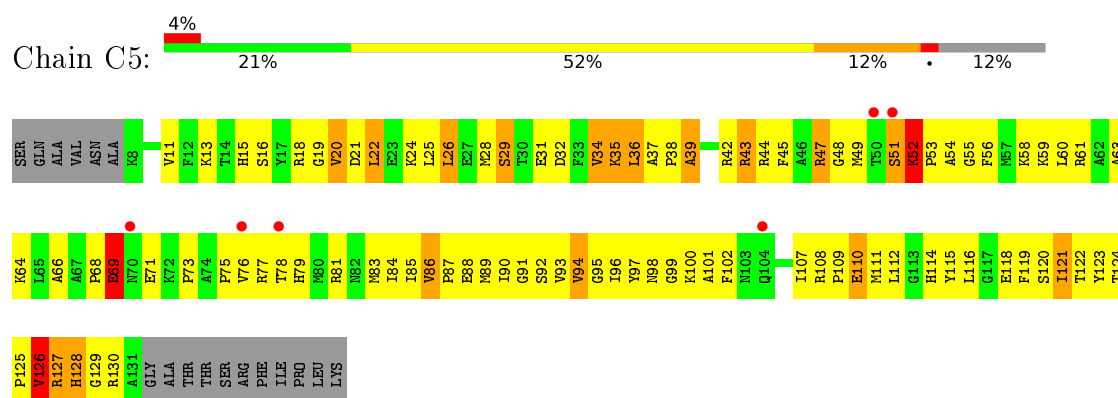
- Molecule 16: 40S ribosomal protein S14-A



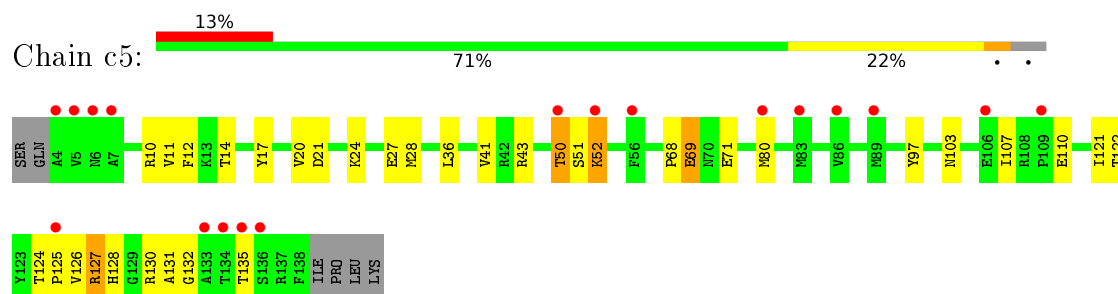
- Molecule 16: 40S ribosomal protein S14-A



- Molecule 17: 40S ribosomal protein S15

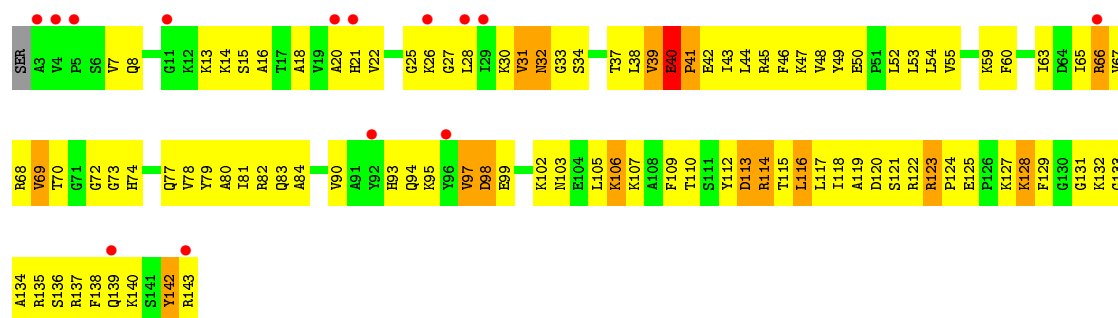


- Molecule 17: 40S ribosomal protein S15

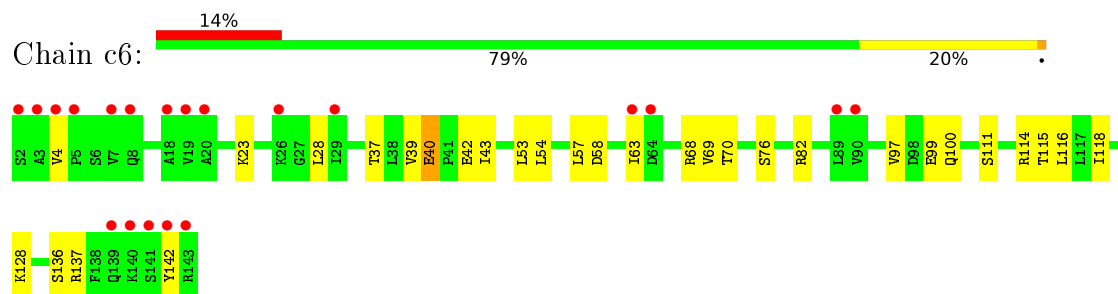


- Molecule 18: 40S ribosomal protein S16-A

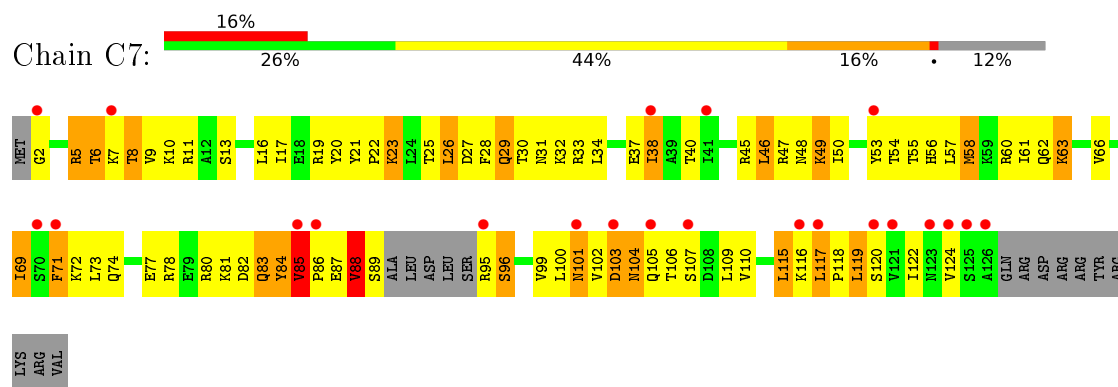




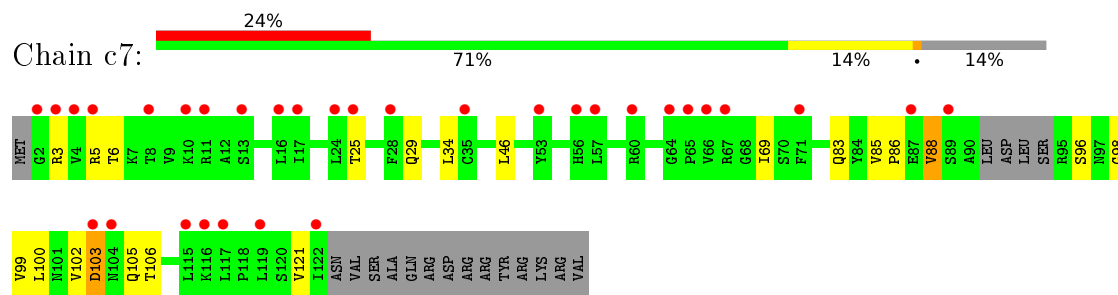
- Molecule 18: 40S ribosomal protein S16-A



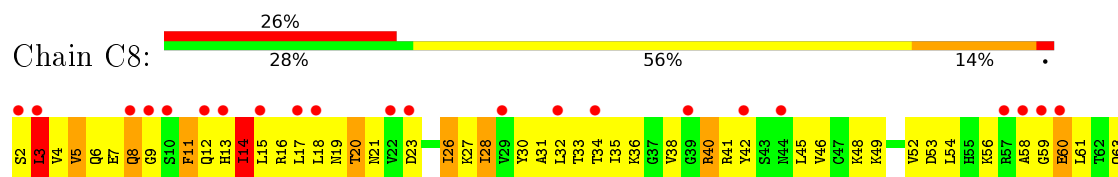
- Molecule 19: 40S ribosomal protein S17-A

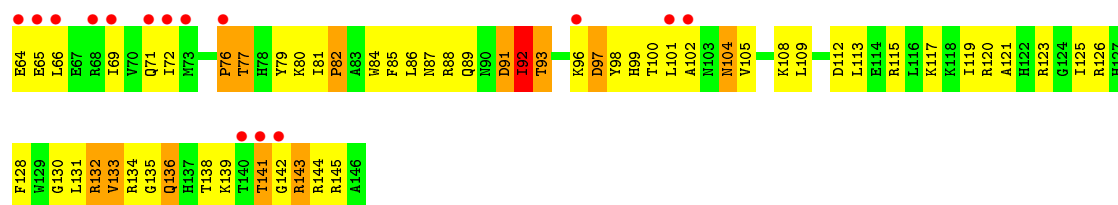


- Molecule 19: 40S ribosomal protein S17-A

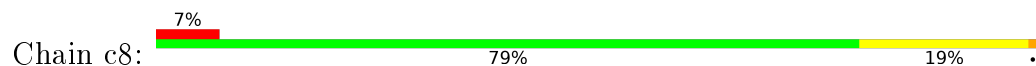


- Molecule 20: 40S ribosomal protein S18-A

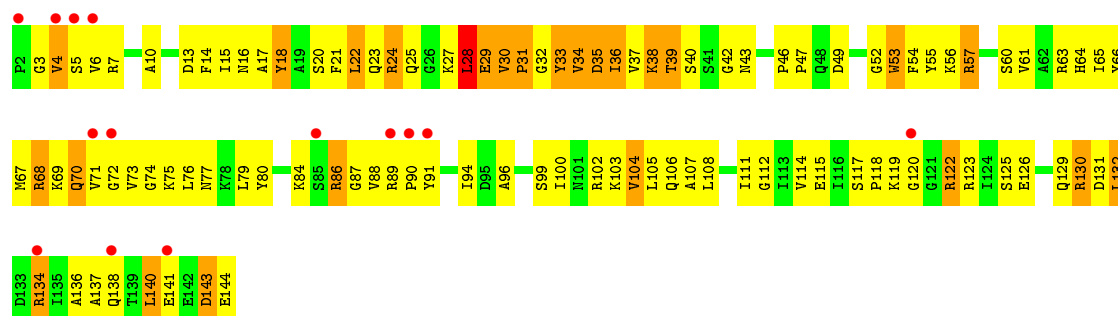




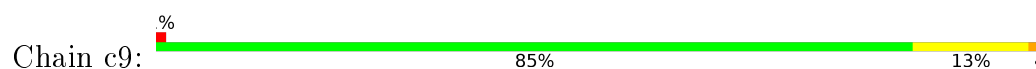
- Molecule 20: 40S ribosomal protein S18-A



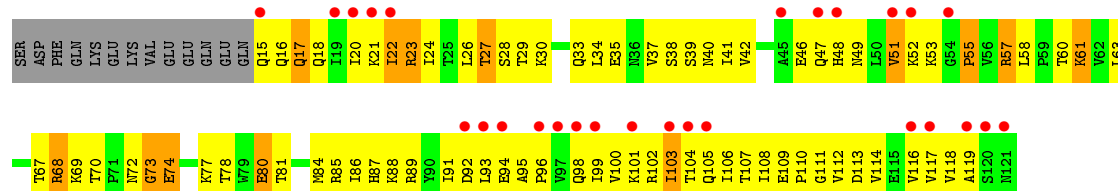
- Molecule 21: 40S ribosomal protein S19-A



- Molecule 21: 40S ribosomal protein S19-A

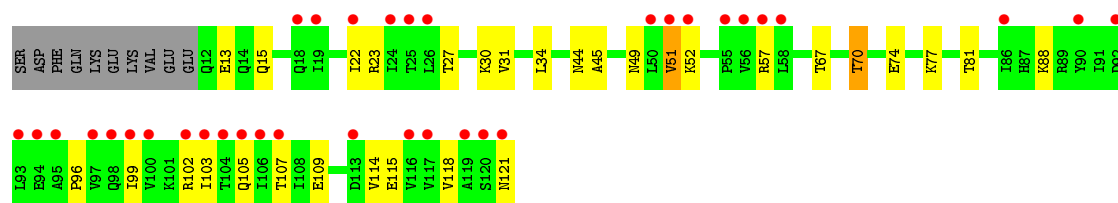


- Molecule 22: 40S ribosomal protein S20

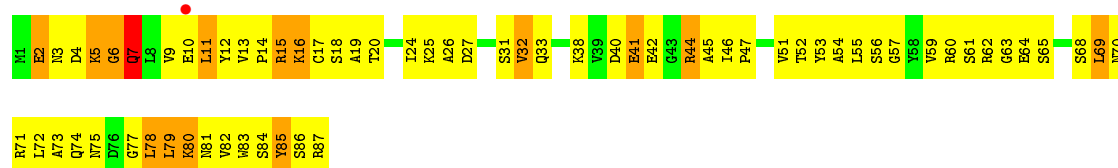


- Molecule 22: 40S ribosomal protein S20

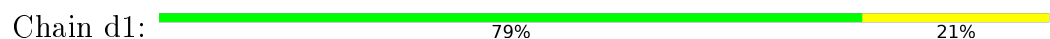




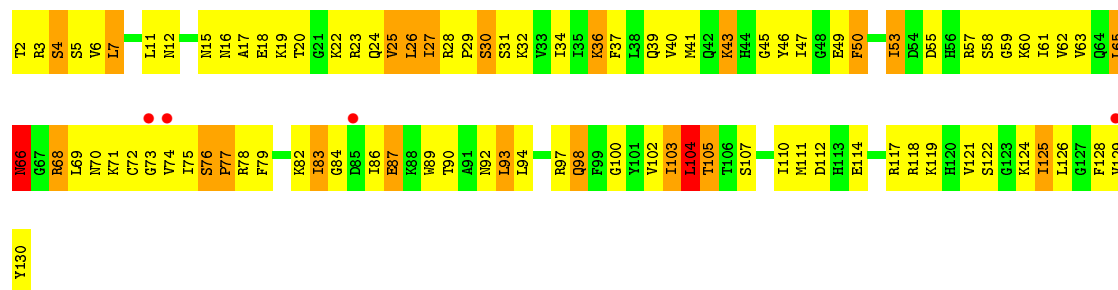
- Molecule 23: 40S ribosomal protein S21-A



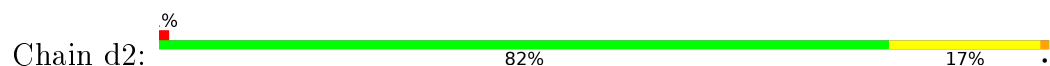
- Molecule 23: 40S ribosomal protein S21-A



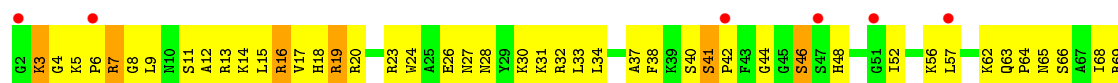
- Molecule 24: 40S ribosomal protein S22-A

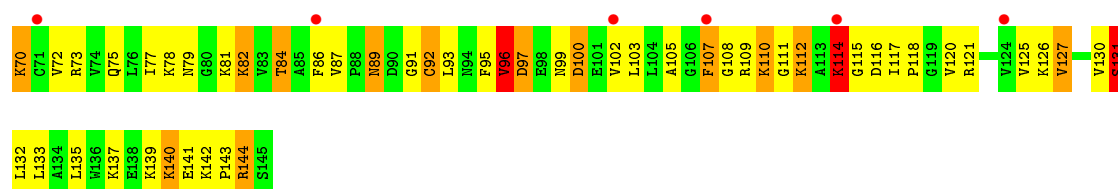


- Molecule 24: 40S ribosomal protein S22-A



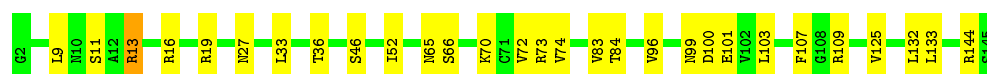
- Molecule 25: 40S ribosomal protein S23-A





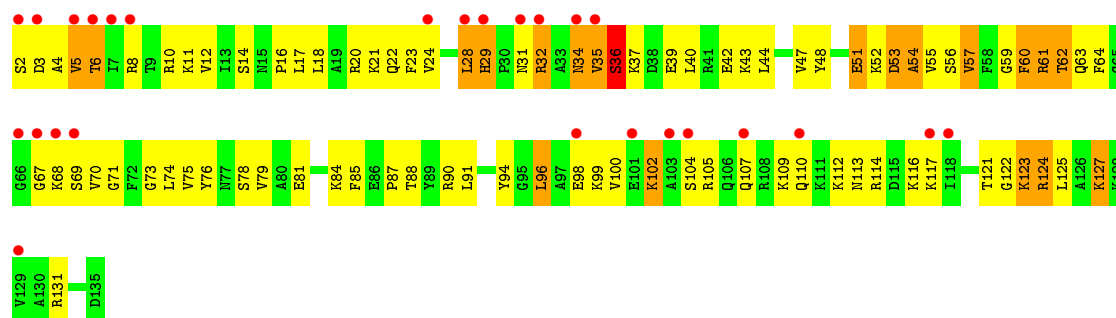
- Molecule 25: 40S ribosomal protein S23-A

Chain d3: 80% 19% .



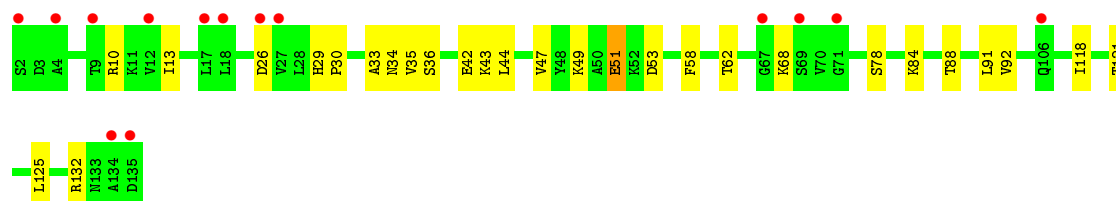
- Molecule 26: 40S ribosomal protein S24-A

Chain D4: 19% 35% 50% 14% .



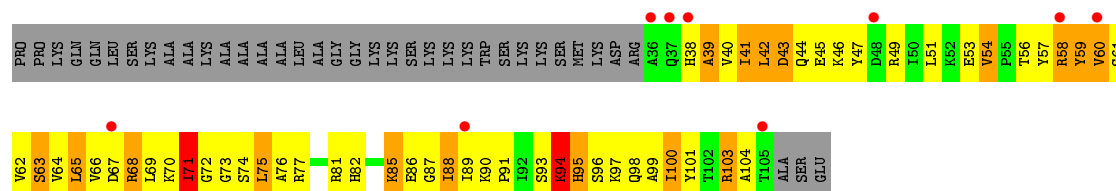
- Molecule 26: 40S ribosomal protein S24-A

Chain d4: 10% 79% 20% .

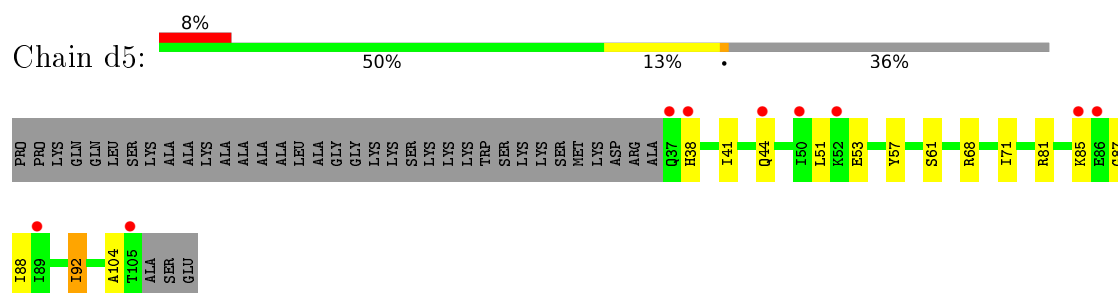


- Molecule 27: 40S ribosomal protein S25-A

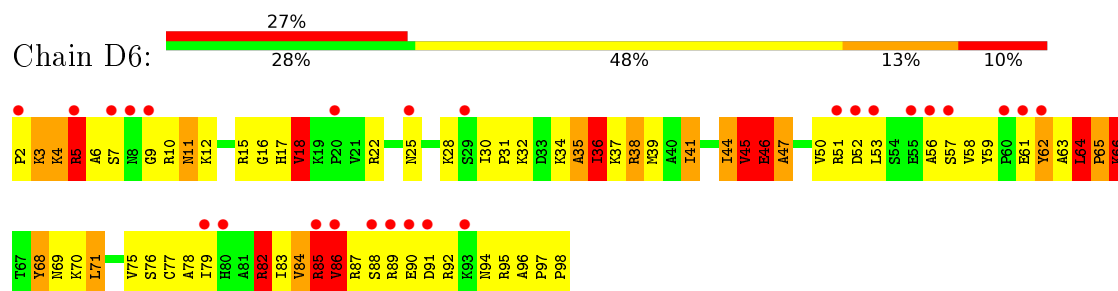
Chain D5: 8% 13% 35% 16% 35% .



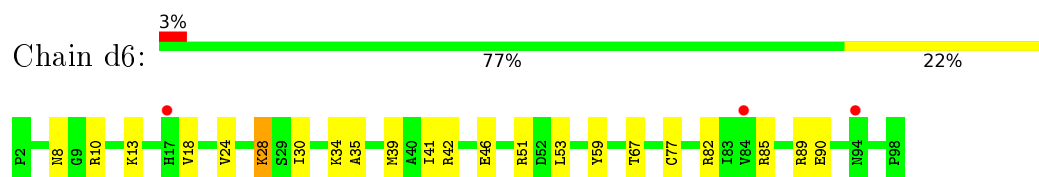
- Molecule 27: 40S ribosomal protein S25-A



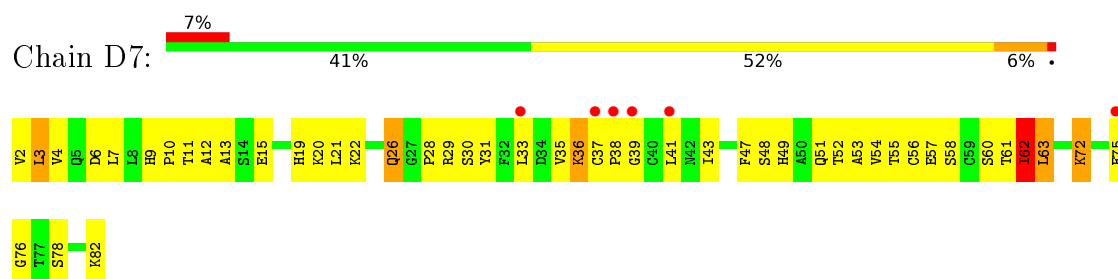
- Molecule 28: 40S ribosomal protein S26-A



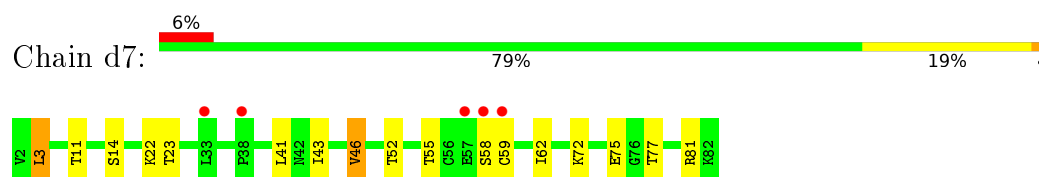
- Molecule 28: 40S ribosomal protein S26-A



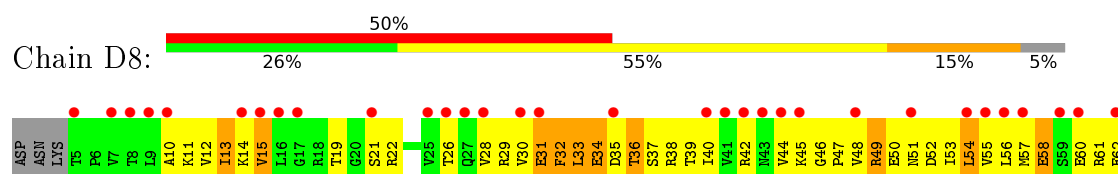
- Molecule 29: 40S ribosomal protein S27-A

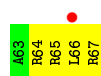


- Molecule 29: 40S ribosomal protein S27-A

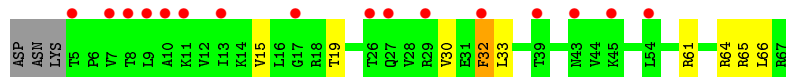
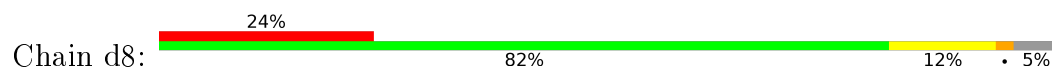


- Molecule 30: 40S ribosomal protein S28-A

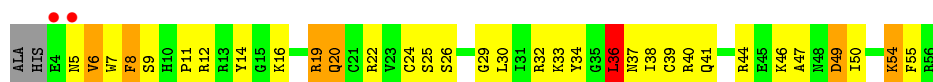




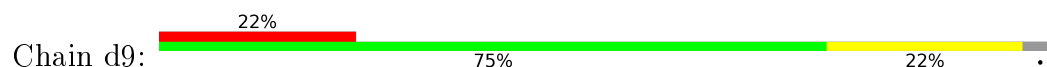
- Molecule 30: 40S ribosomal protein S28-A



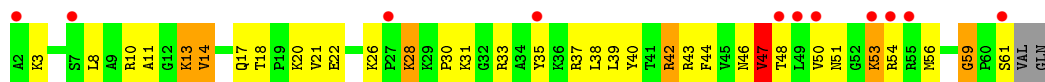
- Molecule 31: 40S ribosomal protein S29-A



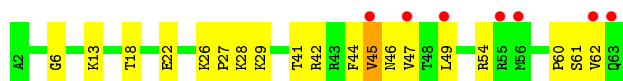
- Molecule 31: 40S ribosomal protein S29-A



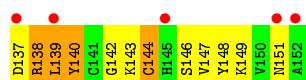
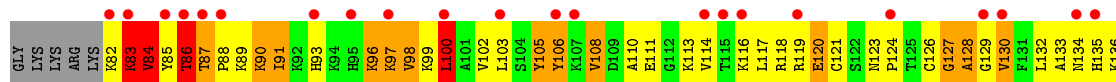
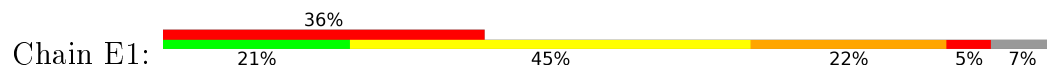
- Molecule 32: 40S ribosomal protein S30-A



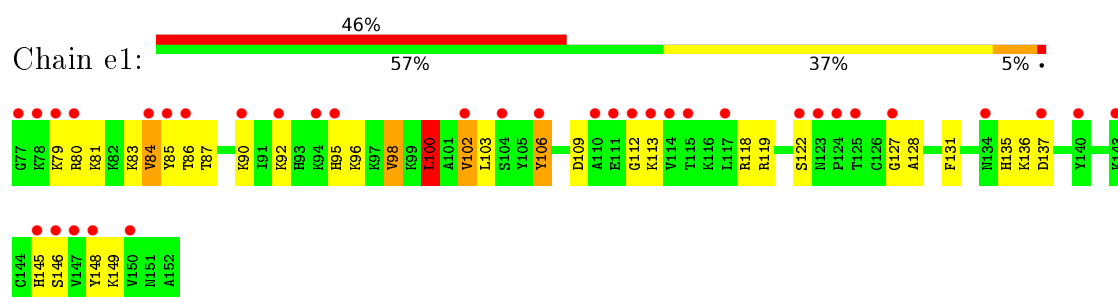
- Molecule 32: 40S ribosomal protein S30-A



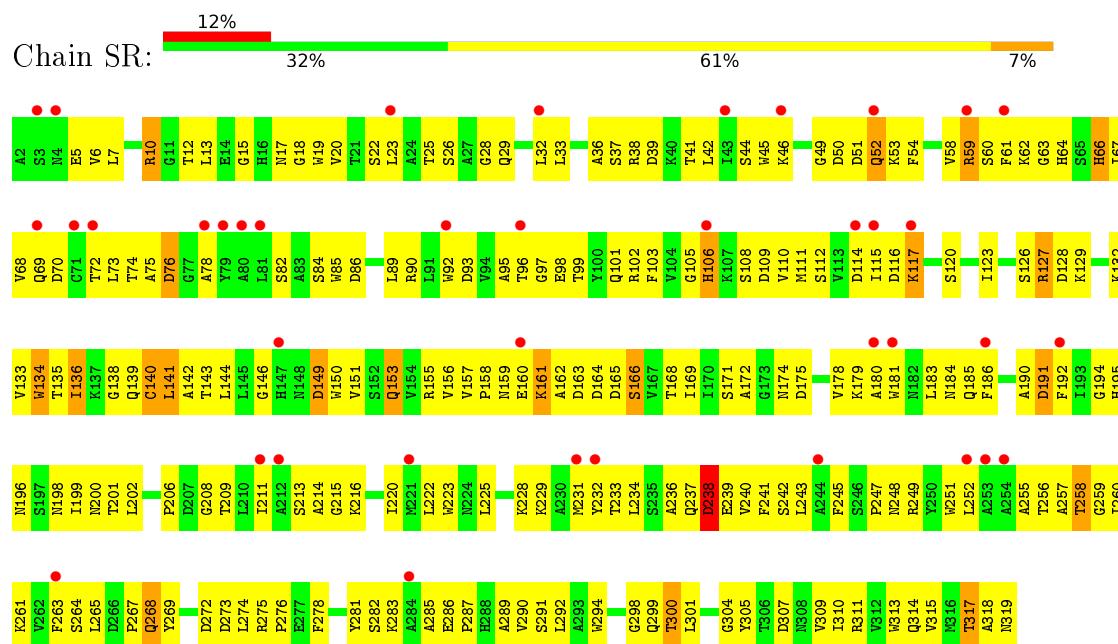
- Molecule 33: 40S ribosomal protein S31



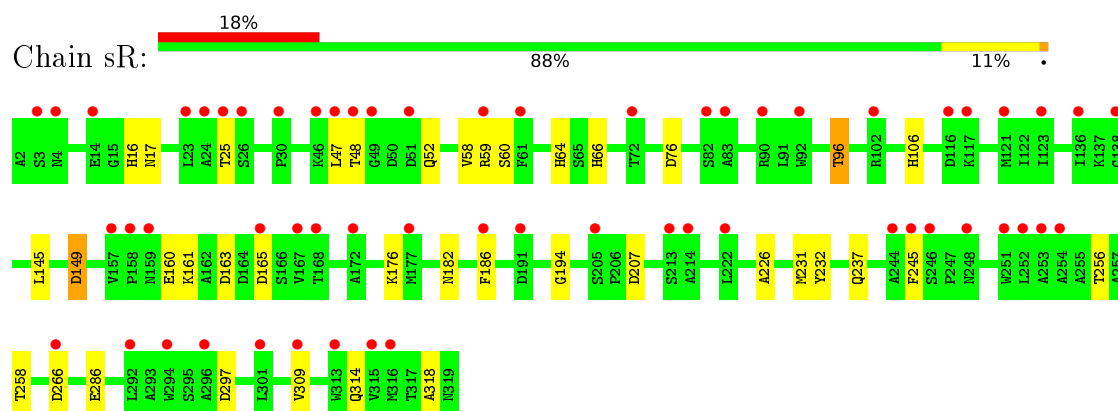
- Molecule 33: 40S ribosomal protein S31



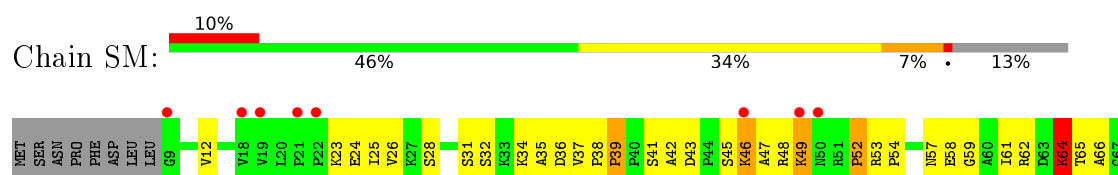
- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

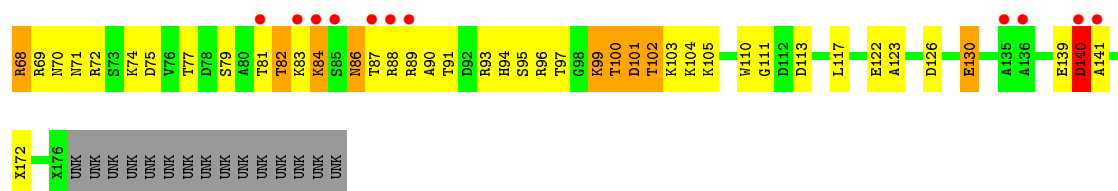


- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

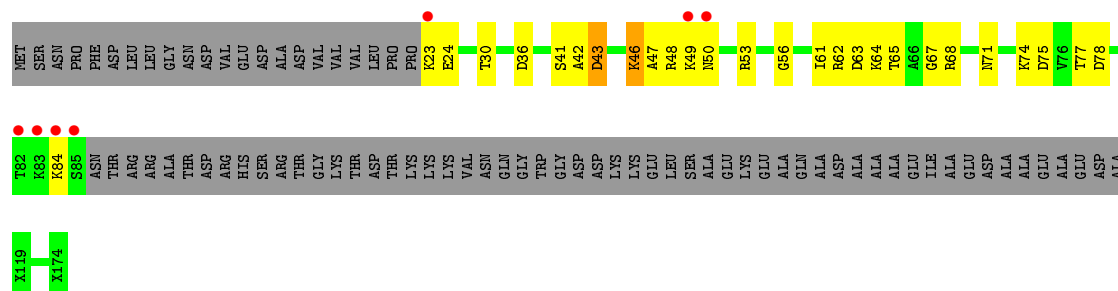
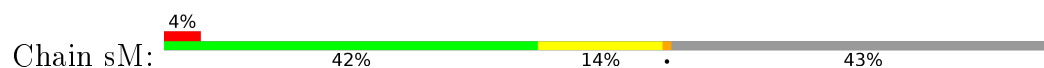


- Molecule 35: Suppressor protein STM1, Suppressor protein STM1

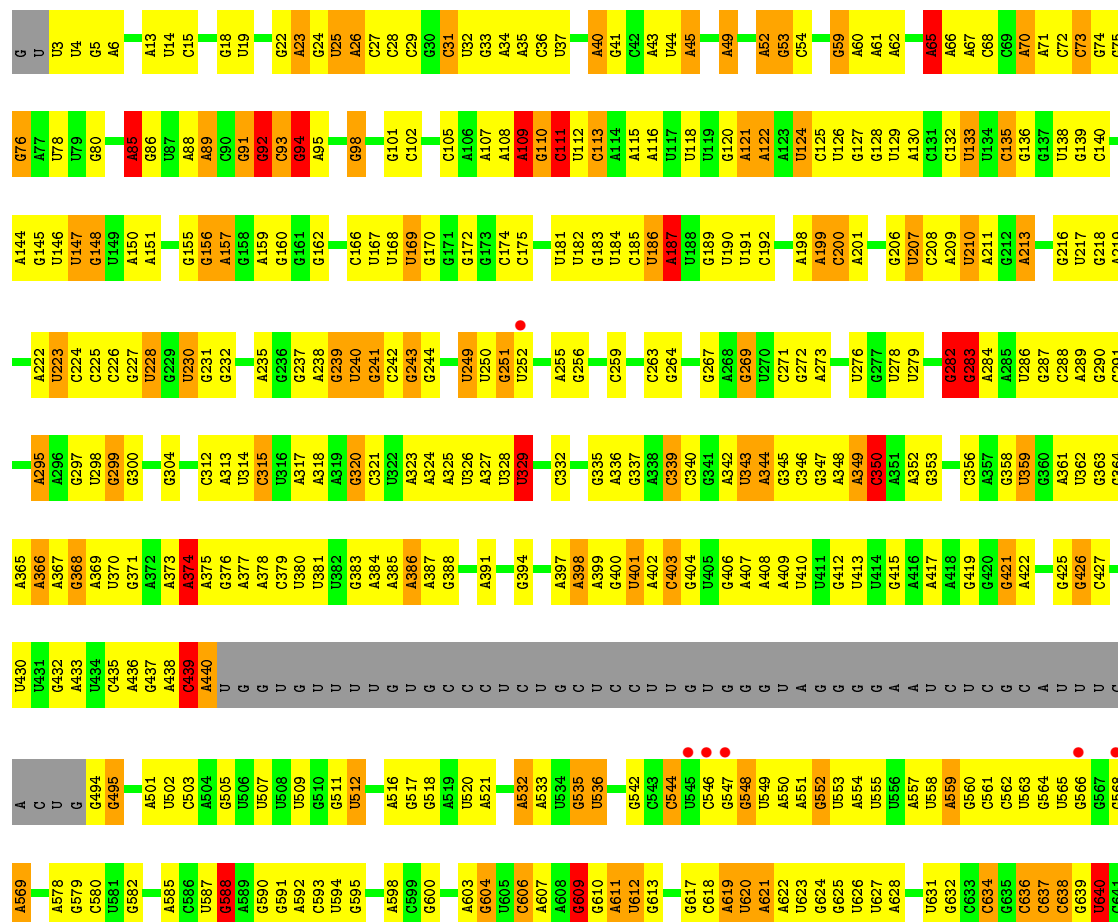




- Molecule 35: Suppressor protein STM1, Suppressor protein STM1

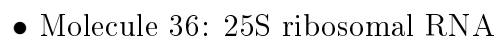


- Molecule 36: 25S ribosomal RNA



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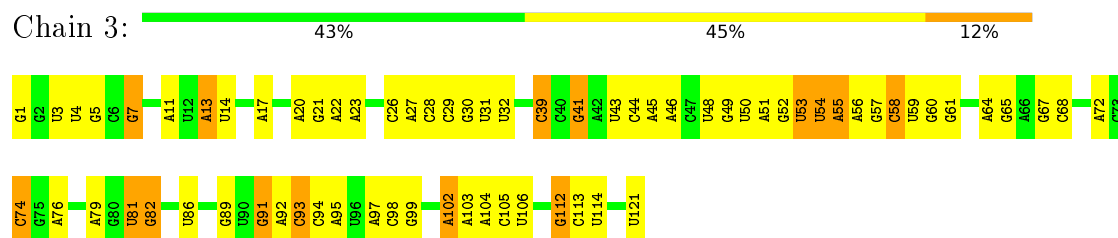


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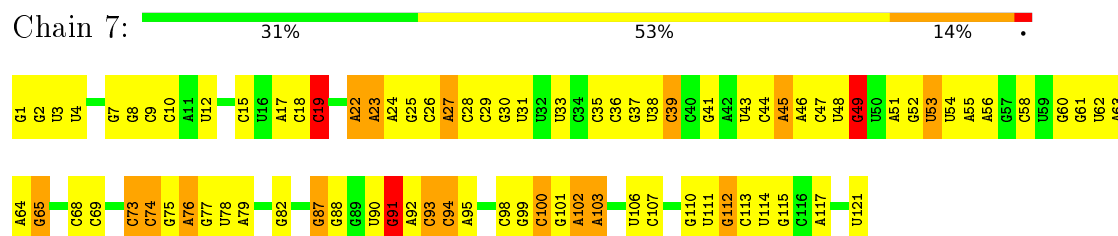


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												A3214	A2912	G2850	U2780	U2598	C
												U3215	A2913	U2851	U2781	U2599	C
												G3216	A2914	U2852	U2782	U2600	C
												A3217	A2915	U2853	U2783	U2601	C
												U3218	A2916	U2854	U2784	U2602	C
												G3219	A2917	U2855	U2785	U2603	C
												U3220	A2918	U2856	U2786	U2604	C
C3436	C3342	A3196	C3192	C3053	G2980	C2912	G2848	C2779	U2643	G2563	A2438						
												U3221	G2911	G2849	A2714	U2596	C
												G3221	A2912	U2850	U2780	U2597	C
												A3222	A2913	U2851	U2781	U2598	C
												U3223	A2914	U2852	U2782	U2599	C
												G3224	A2915	U2853	U2783	U2600	C
												A3225	A2916	U2854	U2784	U2601	C
												U3226	A2917	U2855	U2785	U2602	C
												G3227	A2918	U2856	U2786	U2603	C
												U3228	A2919	U2857	U2787	U2604	C
C3440	C3344	A3197	C3193	C3054	G2981	C2913	G2849	C2780	U2644	G2564	A2439						
												U3229	G2912	G2850	A2715	U2596	C
												G3229	A2913	U2851	U2781	U2597	C
												A3230	A2914	U2852	U2782	U2598	C
												U3231	A2915	U2853	U2783	U2599	C
												G3232	A2916	U2854	U2784	U2600	C
												A3233	A2917	U2855	U2785	U2601	C
												U3234	A2918	U2856	U2786	U2602	C
												G3235	A2919	U2857	U2787	U2603	C
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C3444	C3346	A3198	C3194	C3055	G2982												

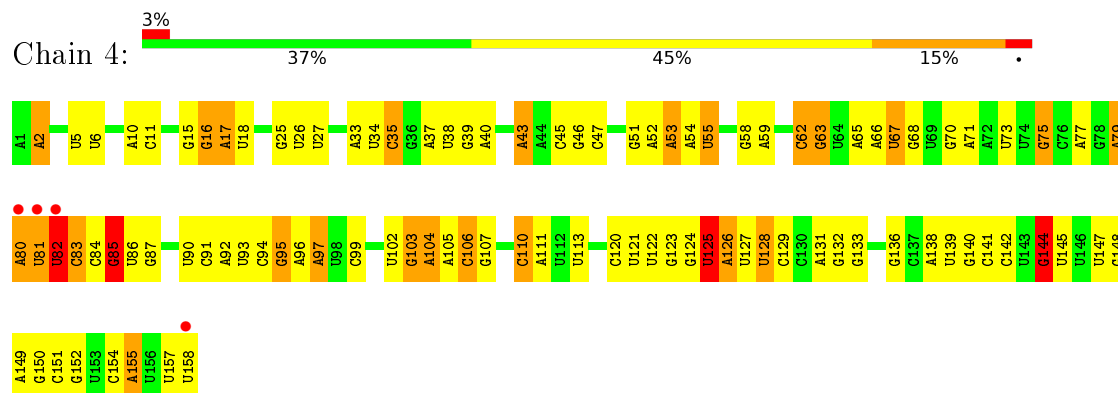
- Molecule 37: 5S ribosomal RNA



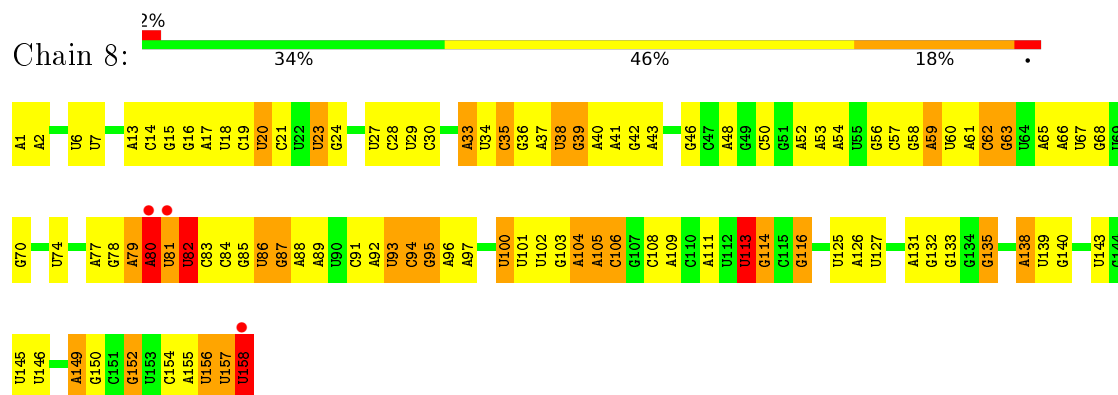
• Molecule 37: 5S ribosomal RNA



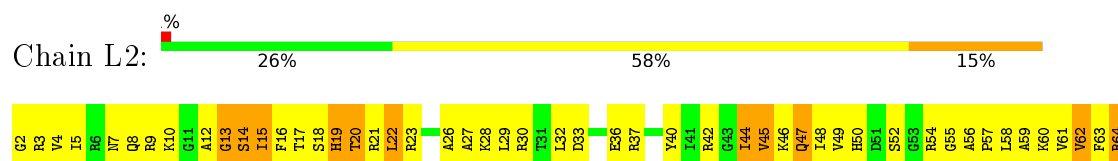
• Molecule 38: 5.8S ribosomal RNA

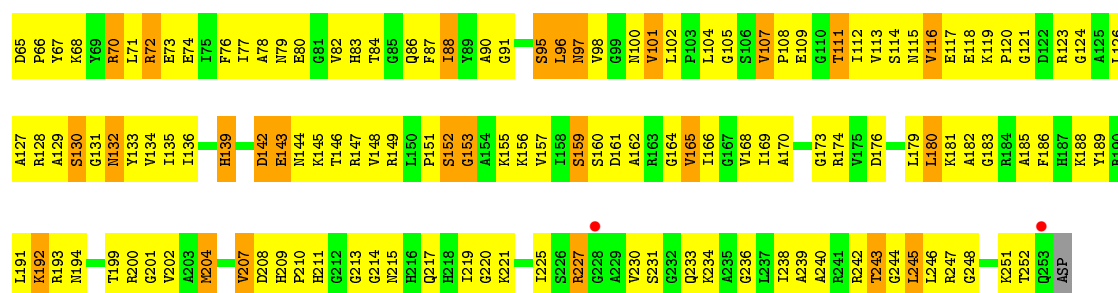


• Molecule 38: 5.8S ribosomal RNA

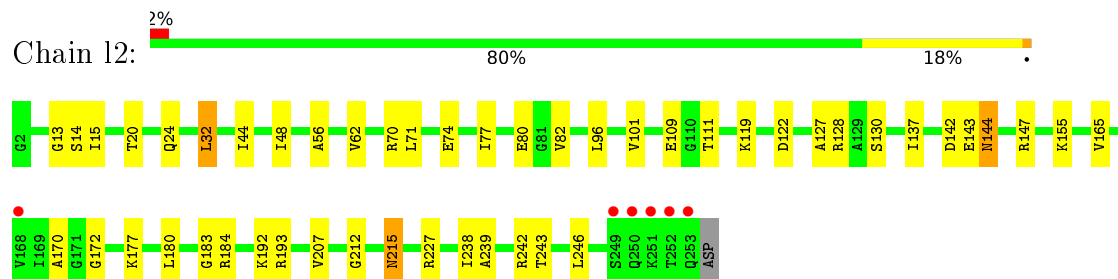


• Molecule 39: 60S ribosomal protein L2-A

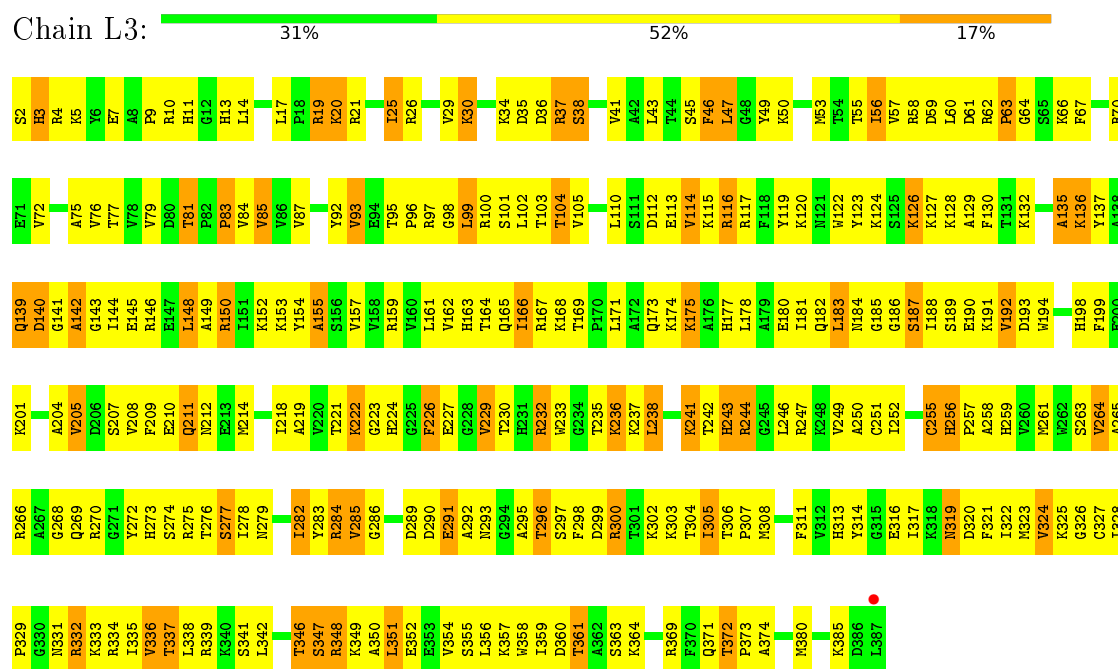




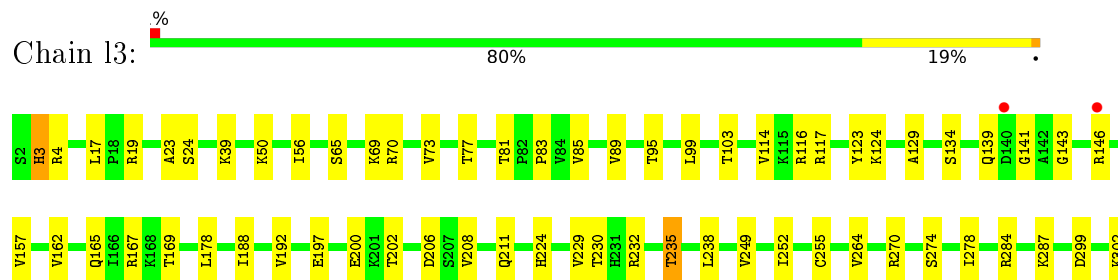
• Molecule 39: 60S ribosomal protein L2-A



• Molecule 40: 60S ribosomal protein L3

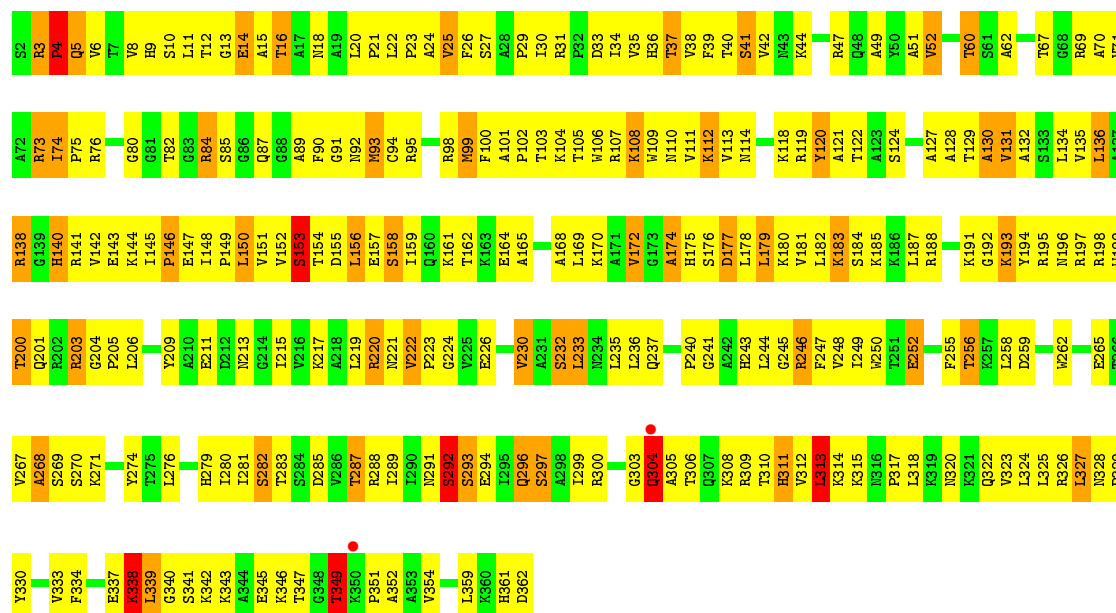


• Molecule 40: 60S ribosomal protein L3

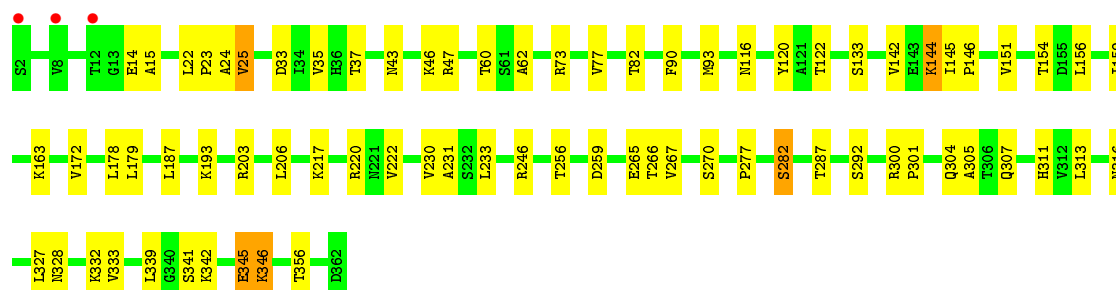
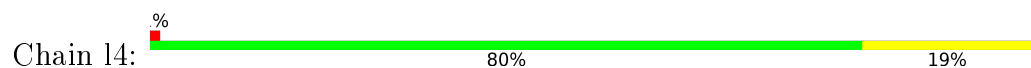




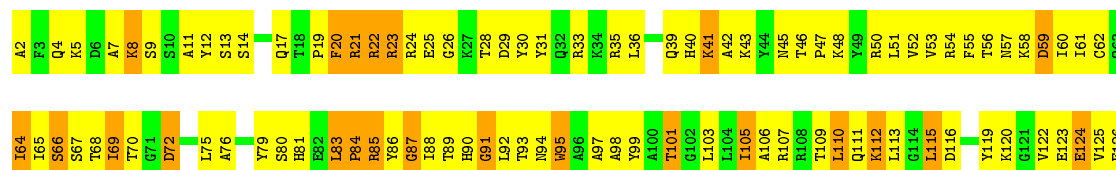
• Molecule 41: 60S ribosomal protein L4-A

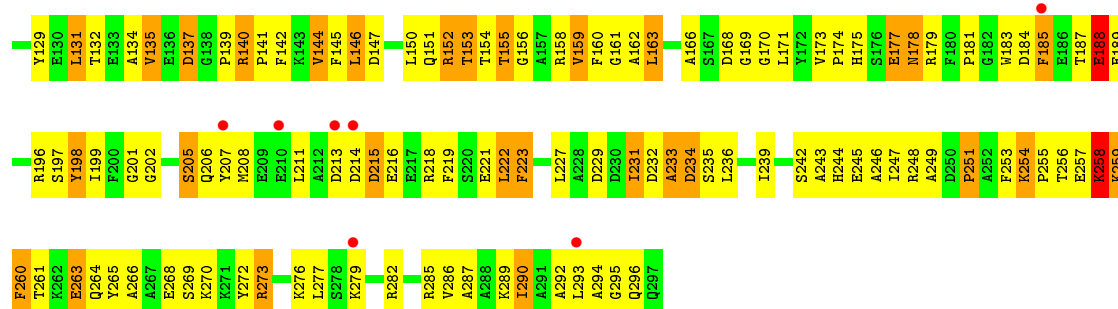


• Molecule 41: 60S ribosomal protein L4-A

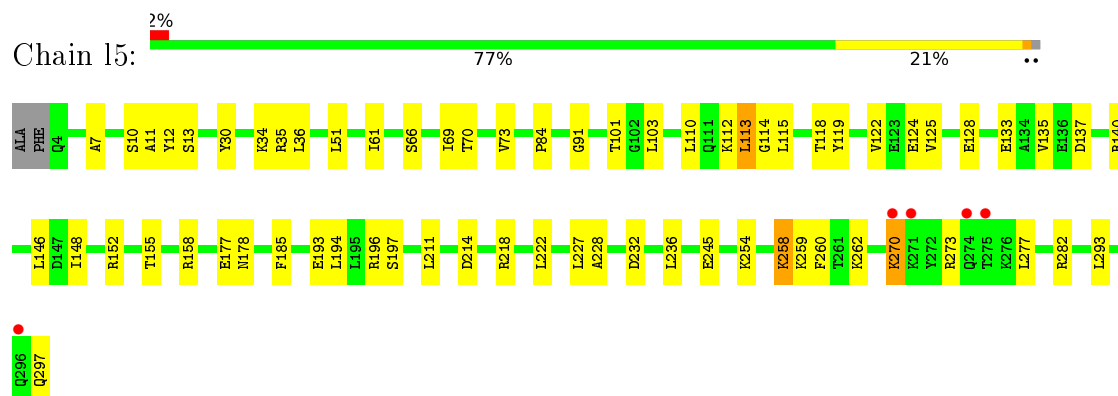


• Molecule 42: 60S ribosomal protein L5

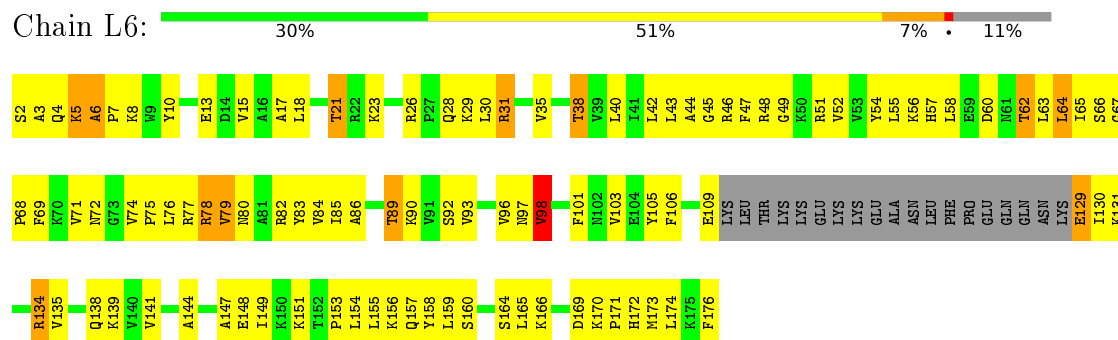




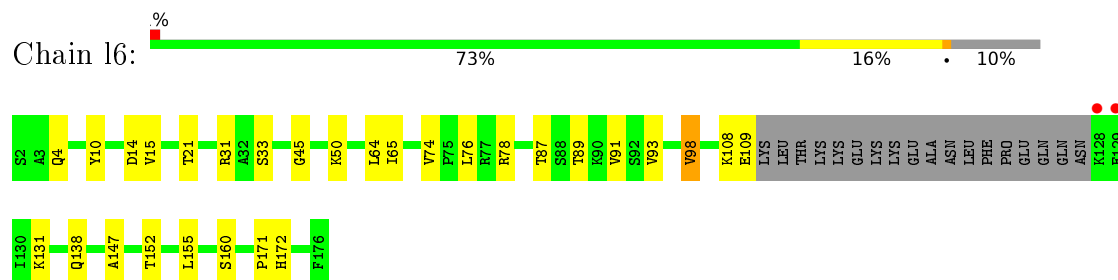
- Molecule 42: 60S ribosomal protein L5



- Molecule 43: 60S ribosomal protein L6-A

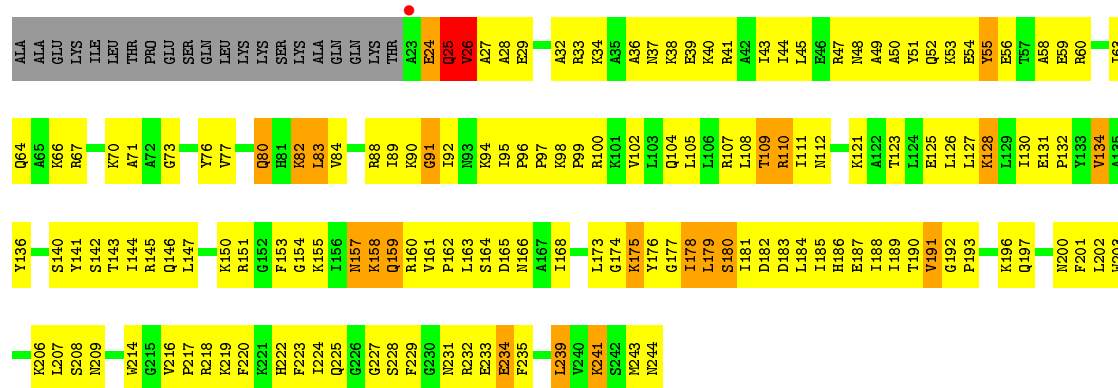


- Molecule 43: 60S ribosomal protein L6-A

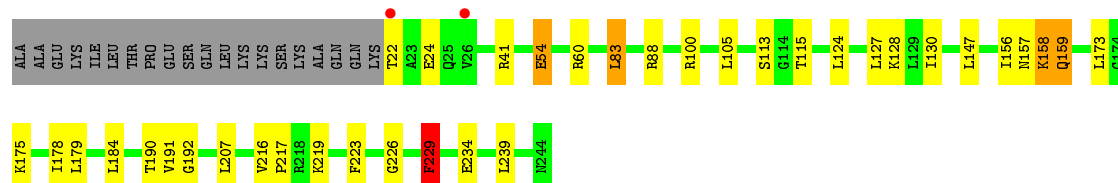
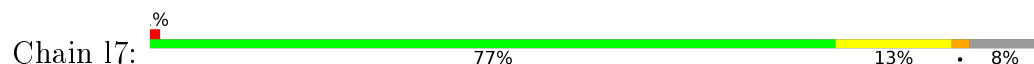


- Molecule 44: 60S ribosomal protein L7-A

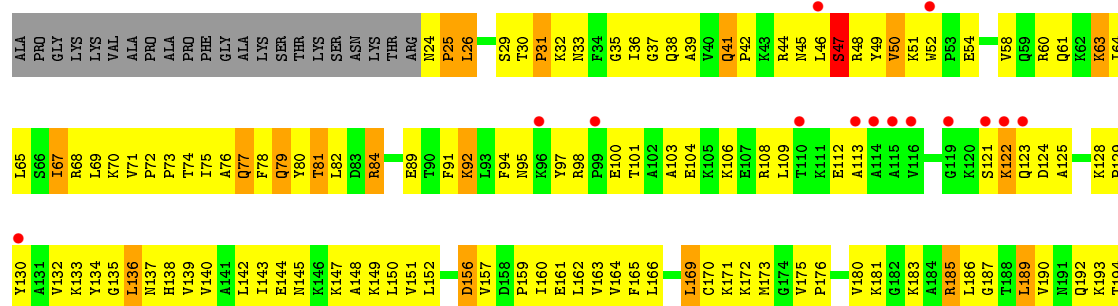




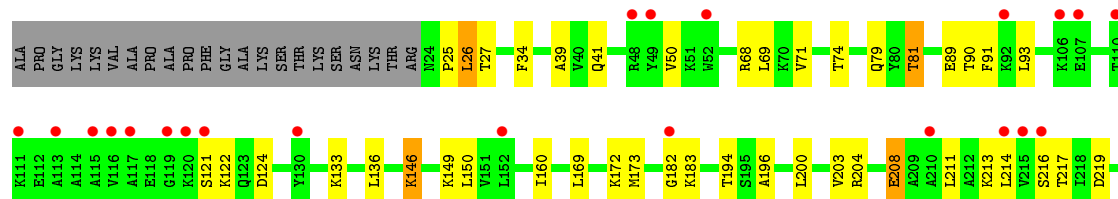
• Molecule 44: 60S ribosomal protein L7-A

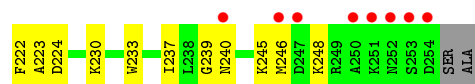


• Molecule 45: 60S ribosomal protein L8-A

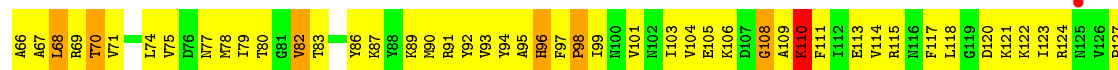
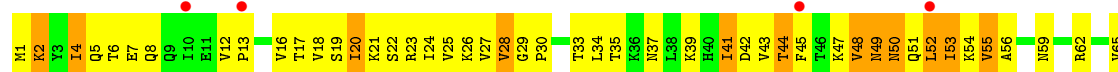


• Molecule 45: 60S ribosomal protein L8-A

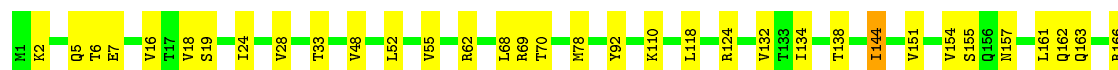
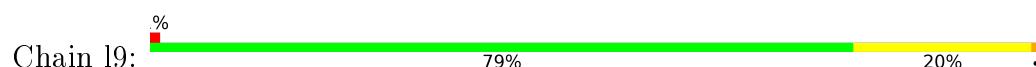




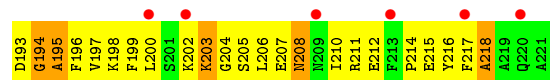
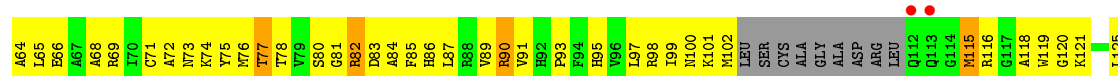
• Molecule 46: 60S ribosomal protein L9-A



• Molecule 46: 60S ribosomal protein L9-A

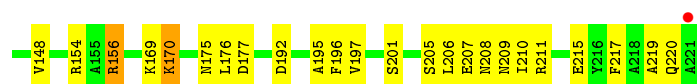


• Molecule 47: 60S ribosomal protein L10

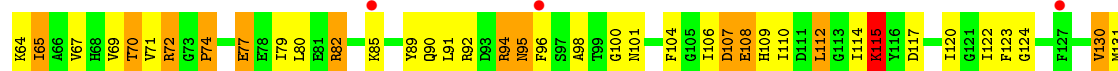
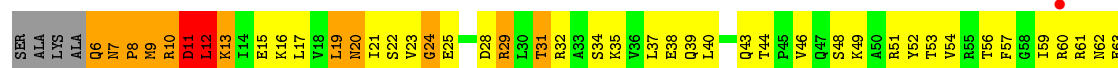


• Molecule 47: 60S ribosomal protein L10

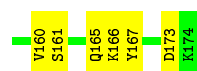
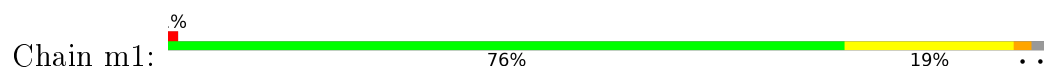




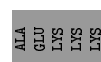
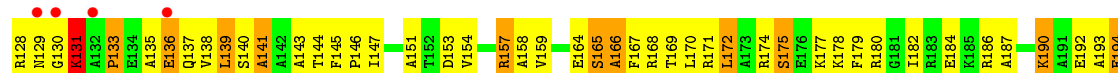
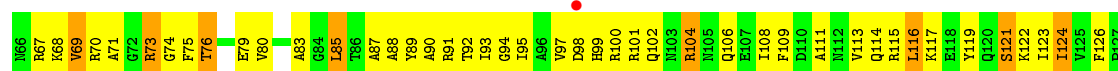
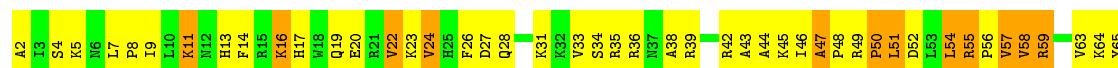
• Molecule 48: 60S ribosomal protein L11-A



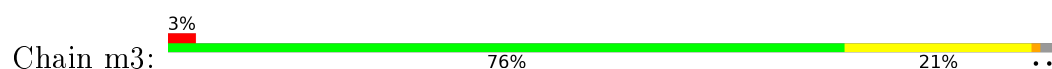
• Molecule 48: 60S ribosomal protein L11-A



• Molecule 49: 60S ribosomal protein L13-A

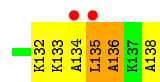


• Molecule 49: 60S ribosomal protein L13-A

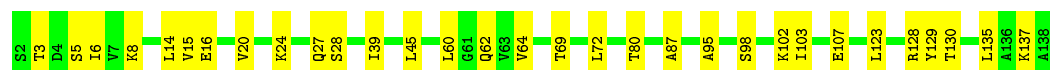
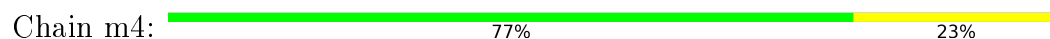




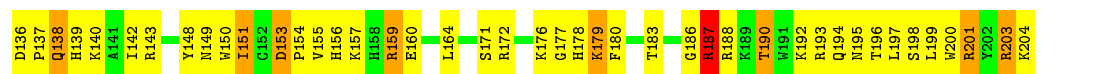
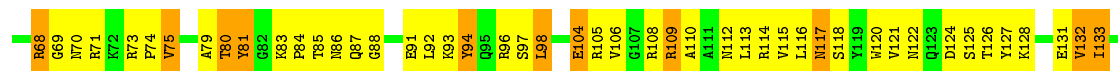
- Molecule 50: 60S ribosomal protein L14-A



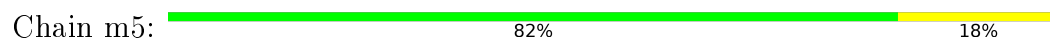
- Molecule 50: 60S ribosomal protein L14-A



- Molecule 51: 60S ribosomal protein L15-A

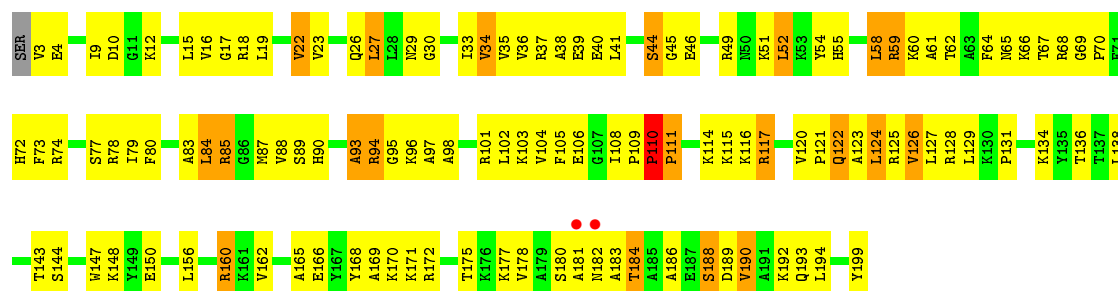


- Molecule 51: 60S ribosomal protein L15-A

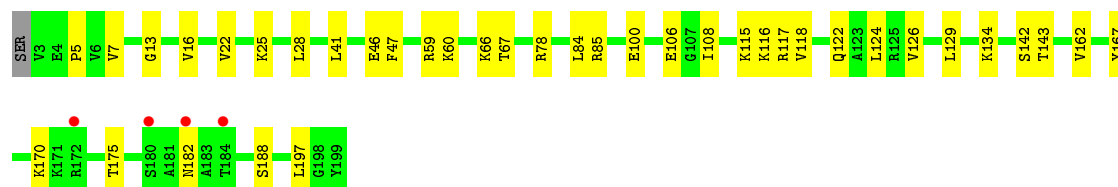
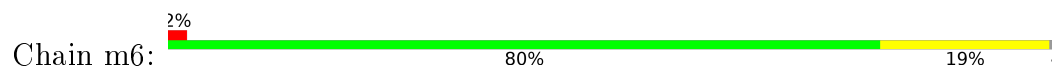


- Molecule 52: 60S ribosomal protein L16-A

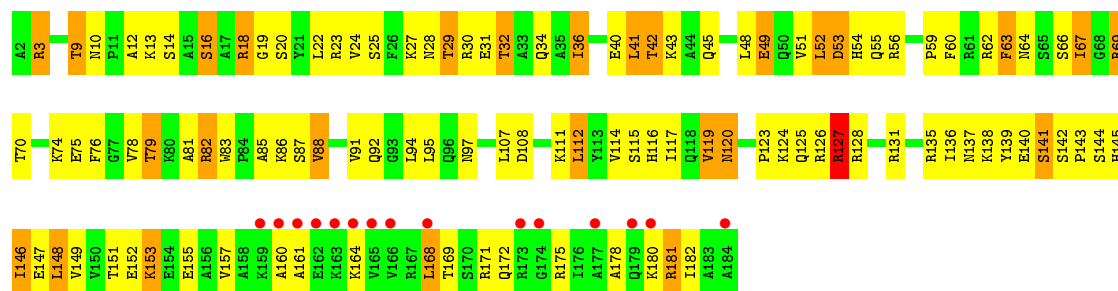




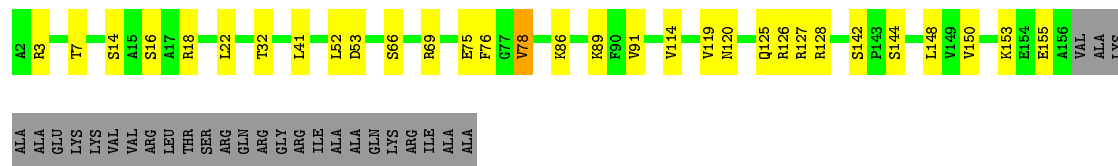
- Molecule 52: 60S ribosomal protein L16-A



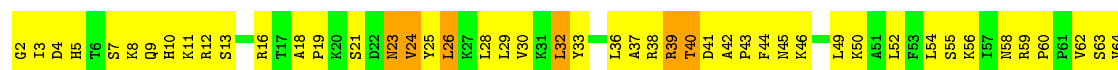
- Molecule 53: 60S ribosomal protein L17-A

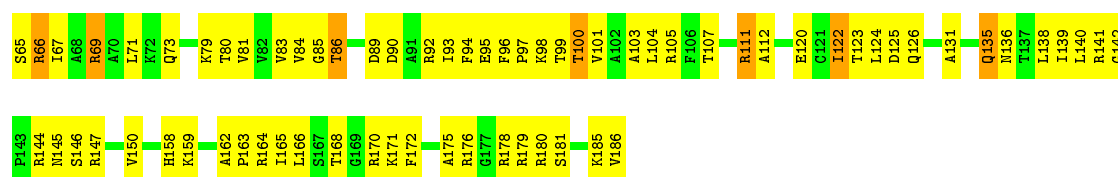


- Molecule 53: 60S ribosomal protein L17-A

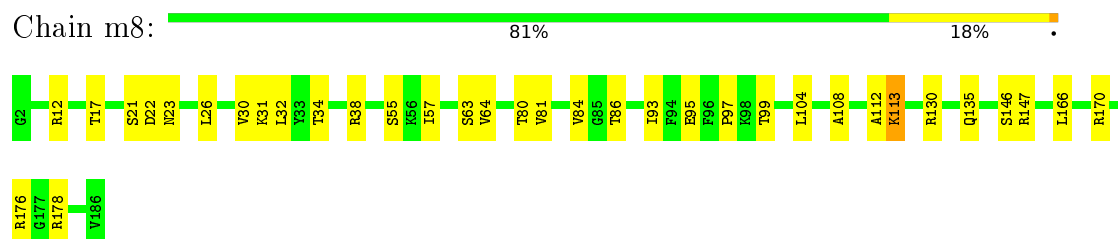


- Molecule 54: 60S ribosomal protein L18-A

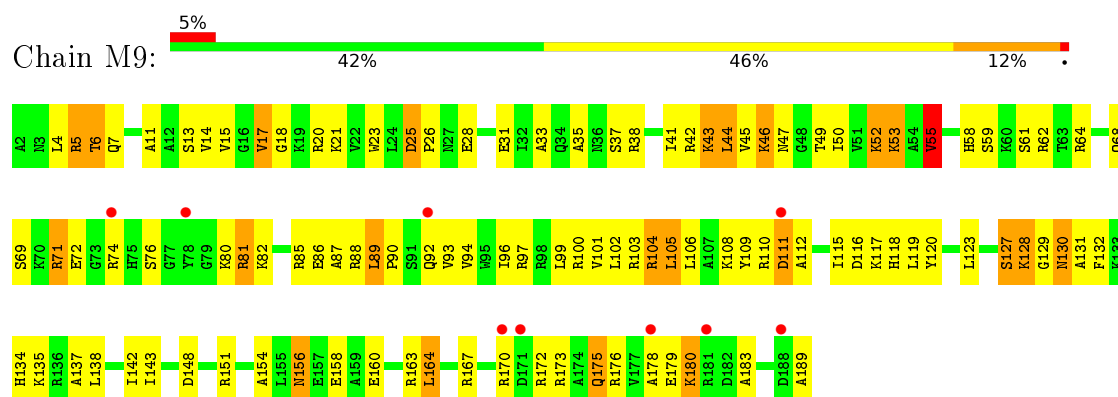




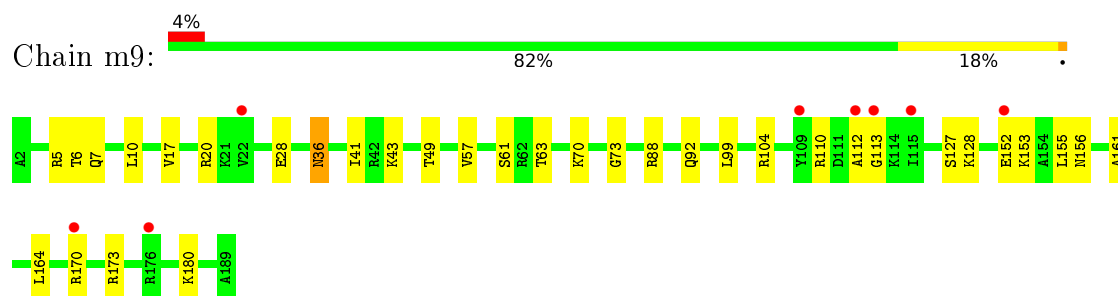
• Molecule 54: 60S ribosomal protein L18-A



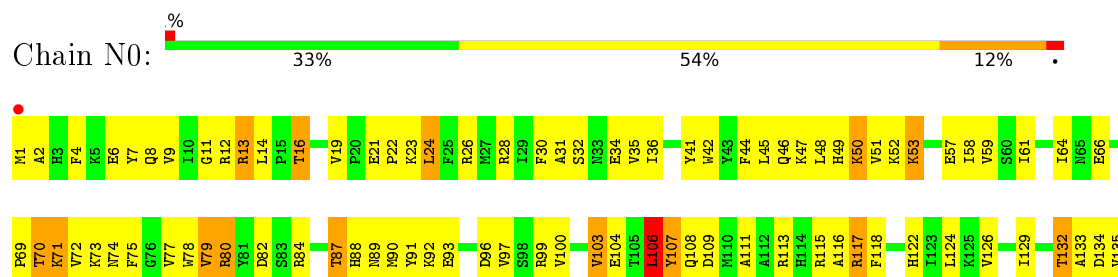
• Molecule 55: 60S ribosomal protein L19-A

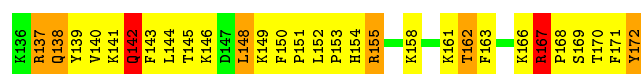


• Molecule 55: 60S ribosomal protein L19-A

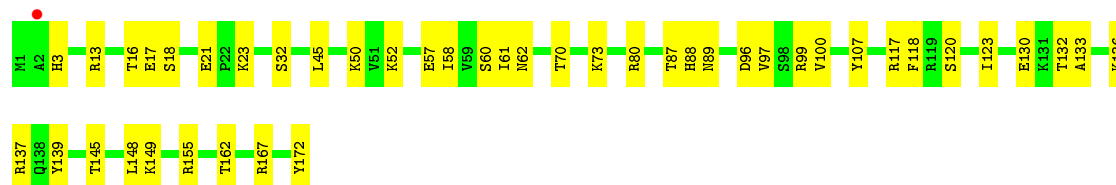
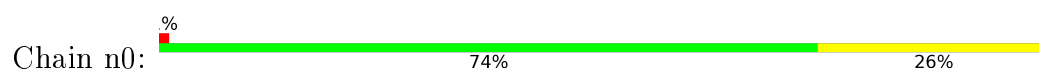


• Molecule 56: 60S ribosomal protein L20-A

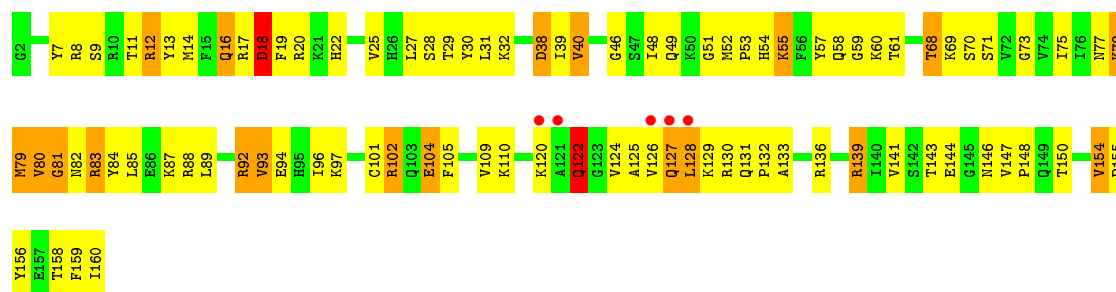




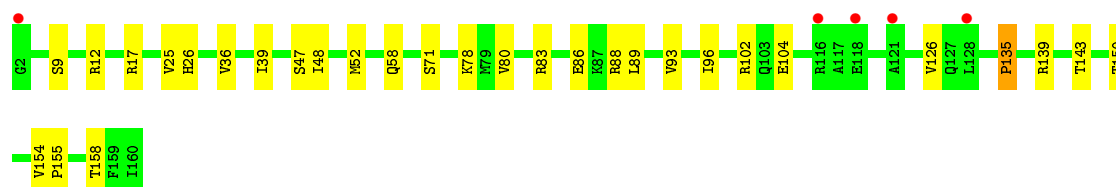
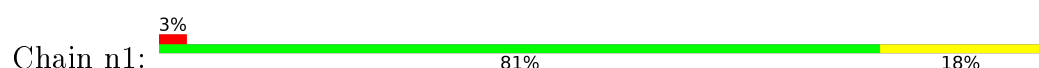
• Molecule 56: 60S ribosomal protein L20-A



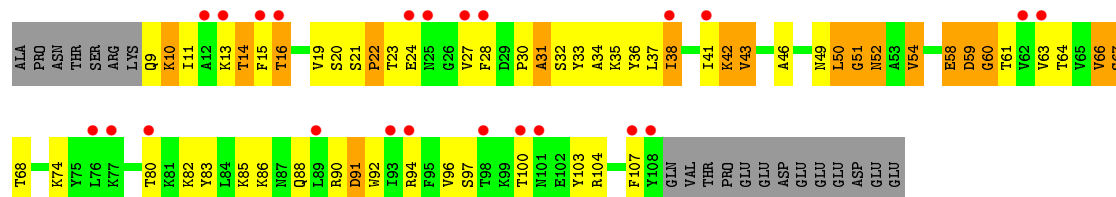
• Molecule 57: 60S ribosomal protein L21-A



• Molecule 57: 60S ribosomal protein L21-A

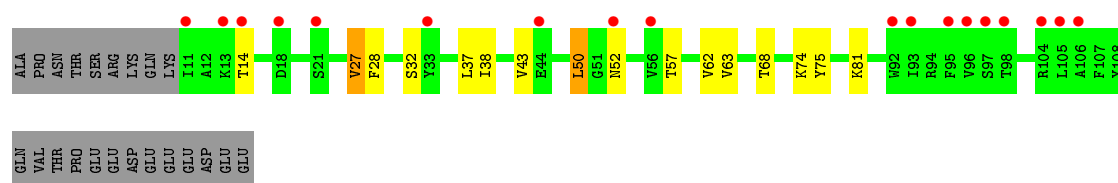


• Molecule 58: 60S ribosomal protein L22-A

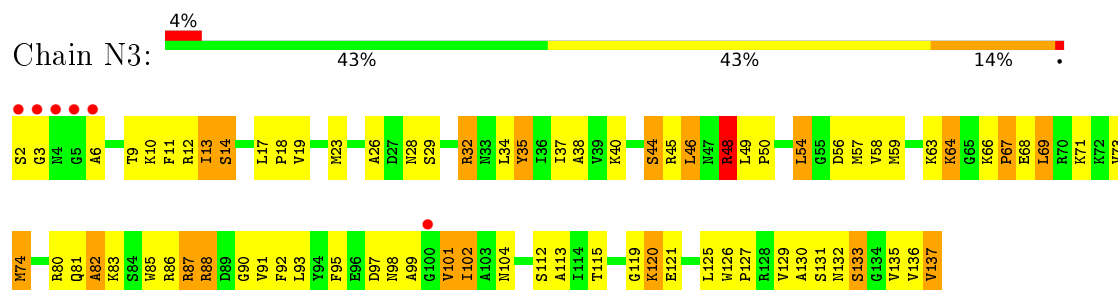


• Molecule 58: 60S ribosomal protein L22-A

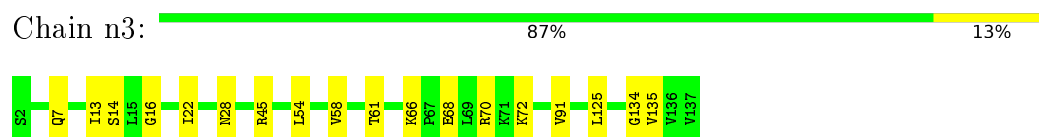




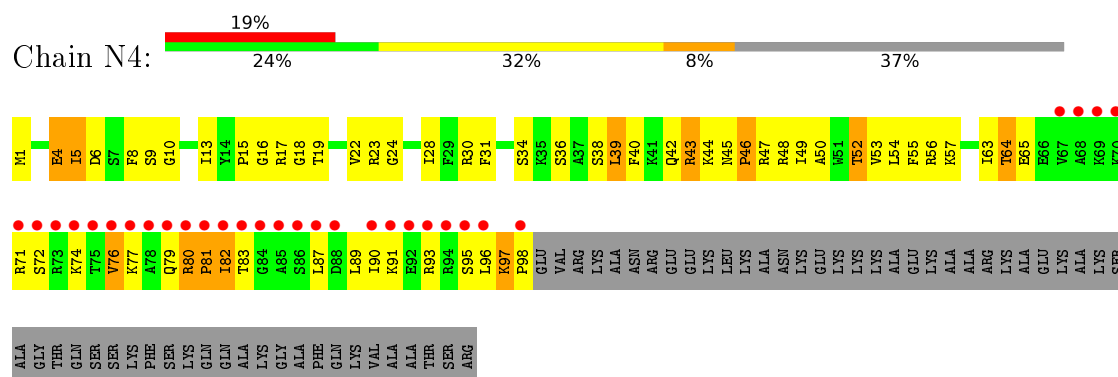
• Molecule 59: 60S ribosomal protein L23-A



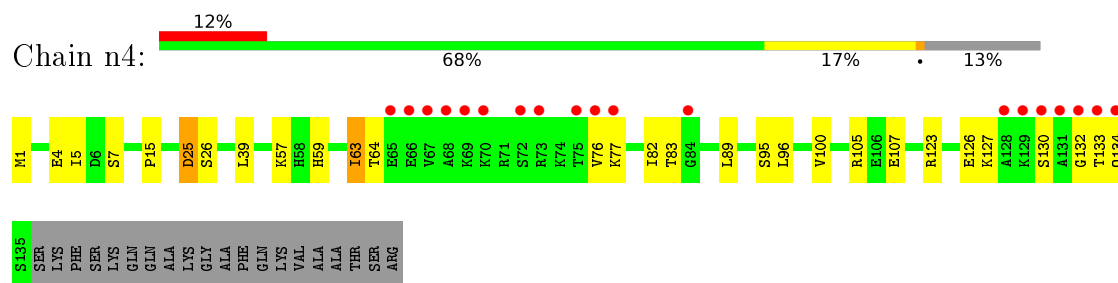
• Molecule 59: 60S ribosomal protein L23-A



• Molecule 60: 60S ribosomal protein L24-A



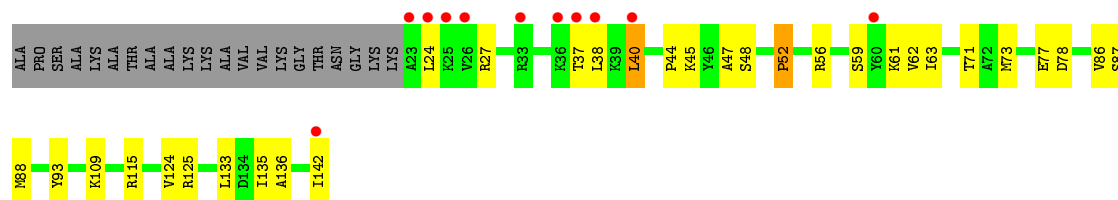
• Molecule 60: 60S ribosomal protein L24-A



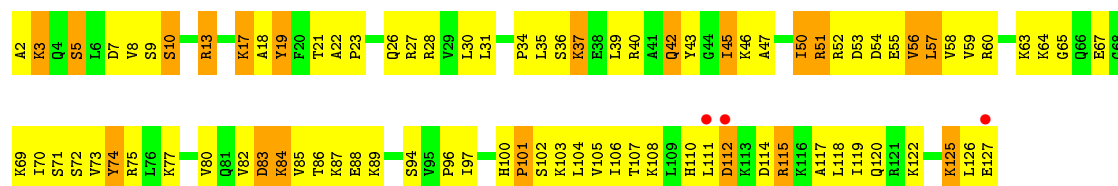
• Molecule 61: 60S ribosomal protein L25



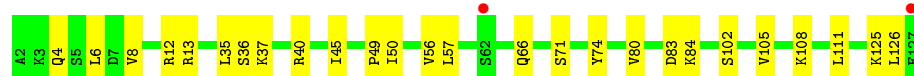
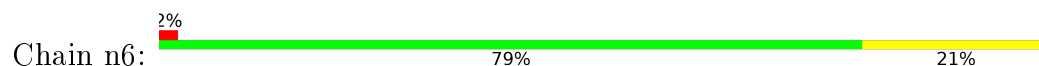
- Molecule 61: 60S ribosomal protein L25



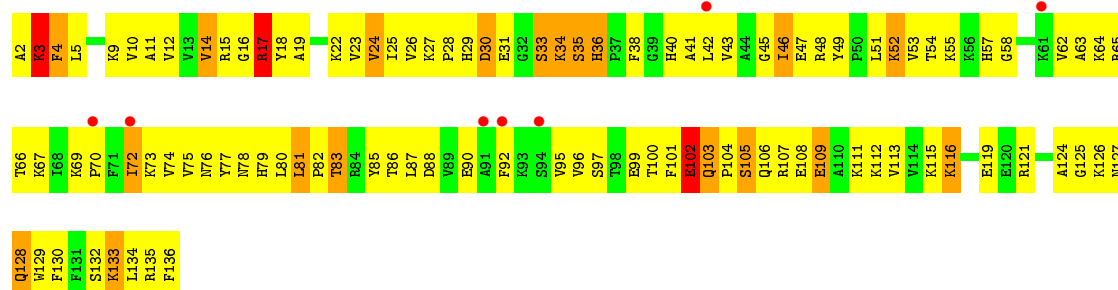
- Molecule 62: 60S ribosomal protein L26-A



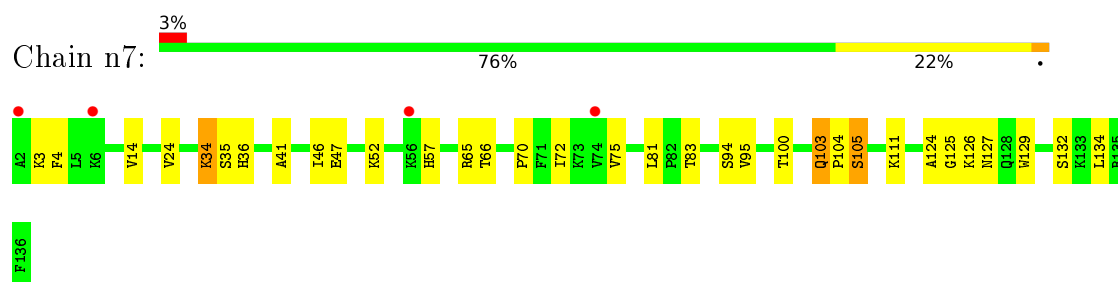
- Molecule 62: 60S ribosomal protein L26-A



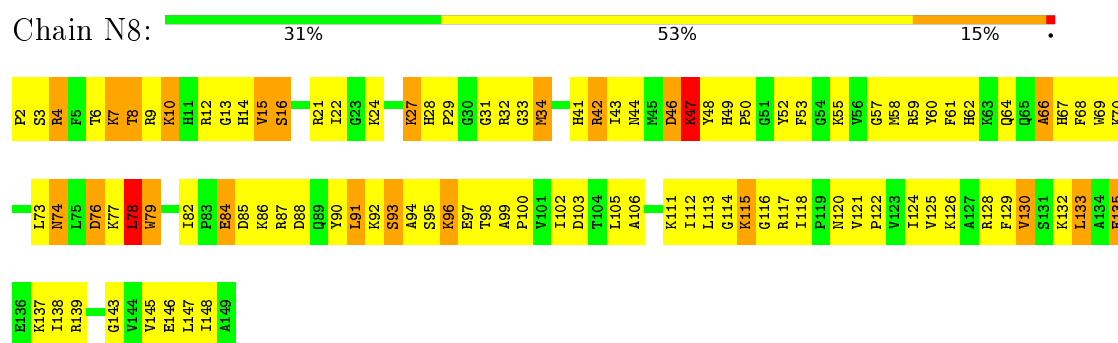
- Molecule 63: 60S ribosomal protein L27-A



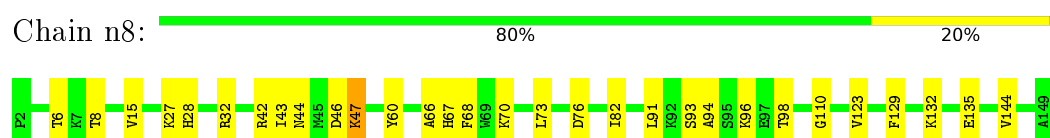
- Molecule 63: 60S ribosomal protein L27-A



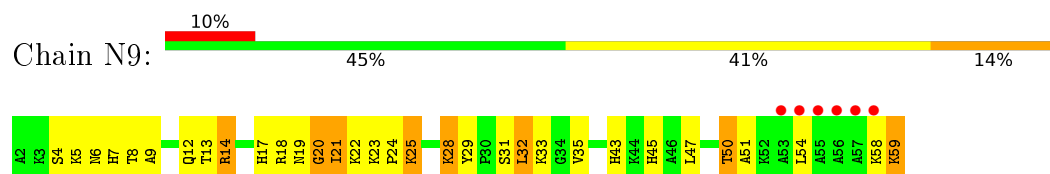
- Molecule 64: 60S ribosomal protein L28



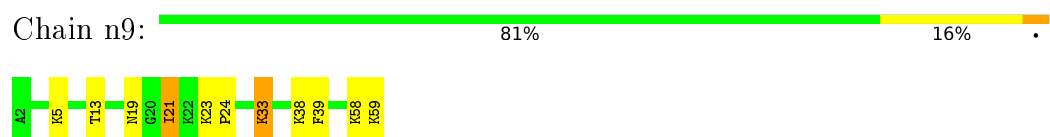
- Molecule 64: 60S ribosomal protein L28



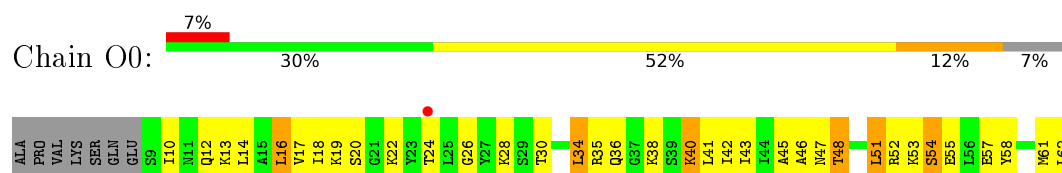
- Molecule 65: 60S ribosomal protein L29

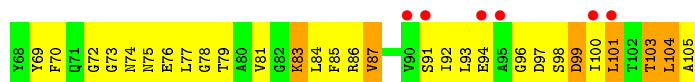


- Molecule 65: 60S ribosomal protein L29

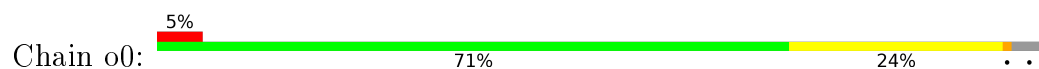


- Molecule 66: 60S ribosomal protein L30

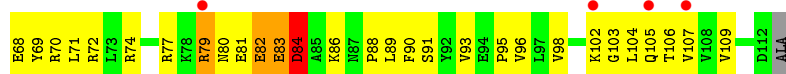
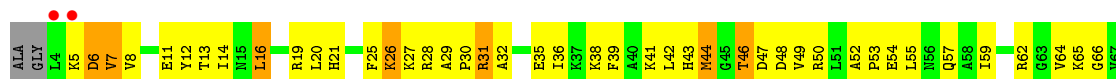




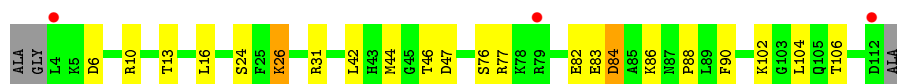
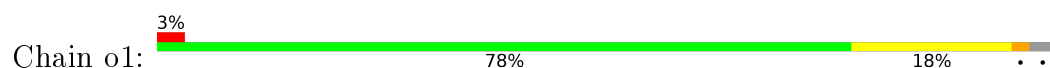
- Molecule 66: 60S ribosomal protein L30



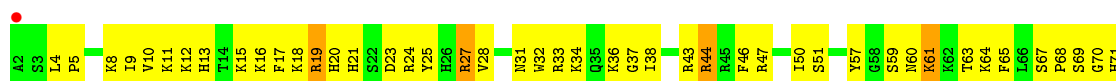
- Molecule 67: 60S ribosomal protein L31-A



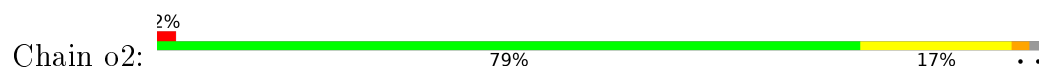
- Molecule 67: 60S ribosomal protein L31-A



- Molecule 68: 60S ribosomal protein L32

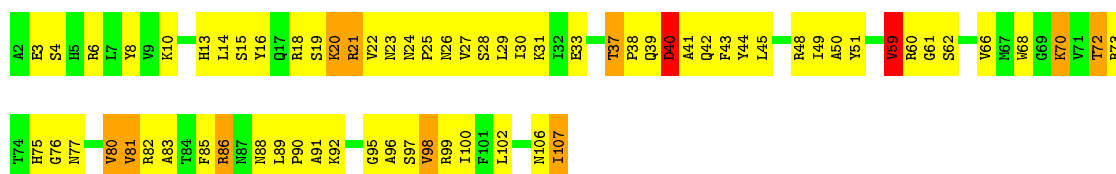


- Molecule 68: 60S ribosomal protein L32



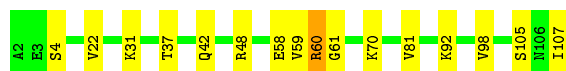
- Molecule 69: 60S ribosomal protein L33-A





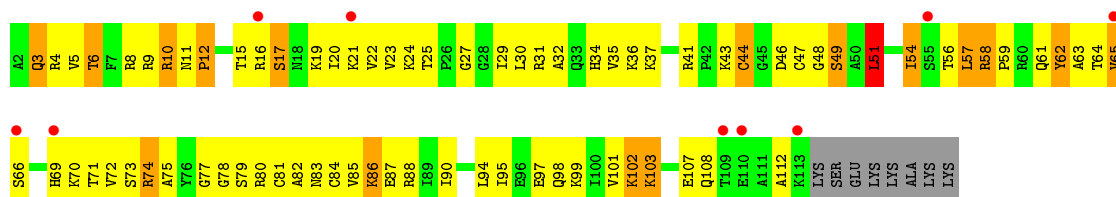
- Molecule 69: 60S ribosomal protein L33-A

Chain o3: 85% 14% .



- Molecule 70: 60S ribosomal protein L34-A

Chain O4: 8% 28% 51% 13% 7% .



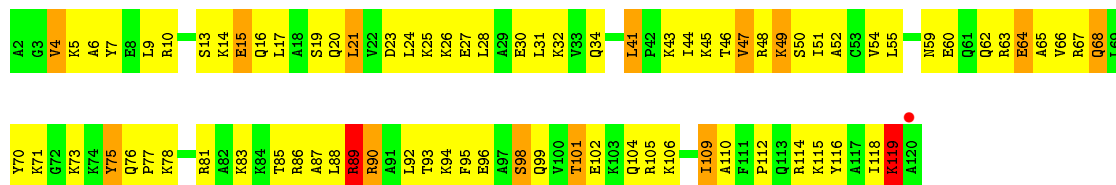
- Molecule 70: 60S ribosomal protein L34-A

Chain o4: 6% 77% 16% 7% .



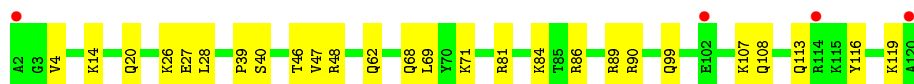
- Molecule 71: 60S ribosomal protein L35-A

Chain O5: 32% 55% 11% .

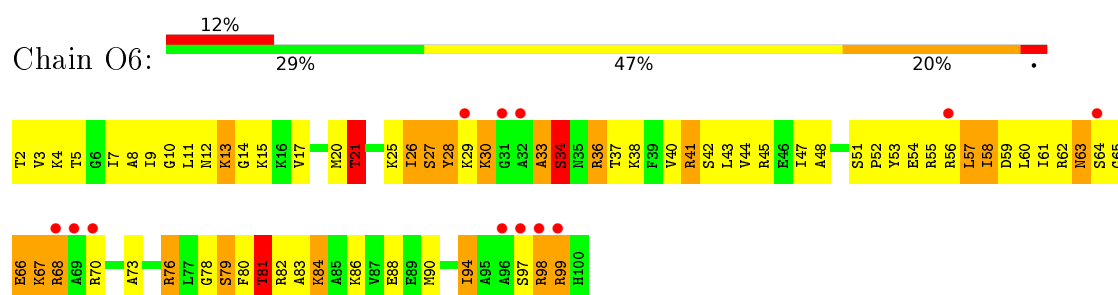


- Molecule 71: 60S ribosomal protein L35-A

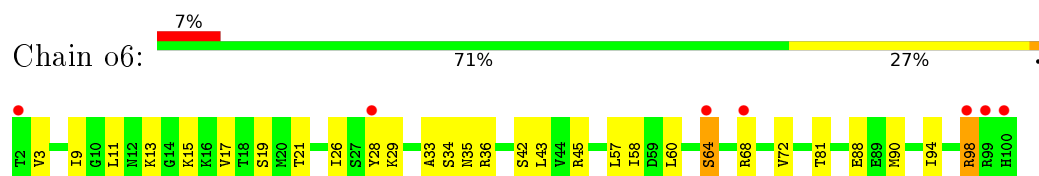
Chain o5: 3% 78% 22% .



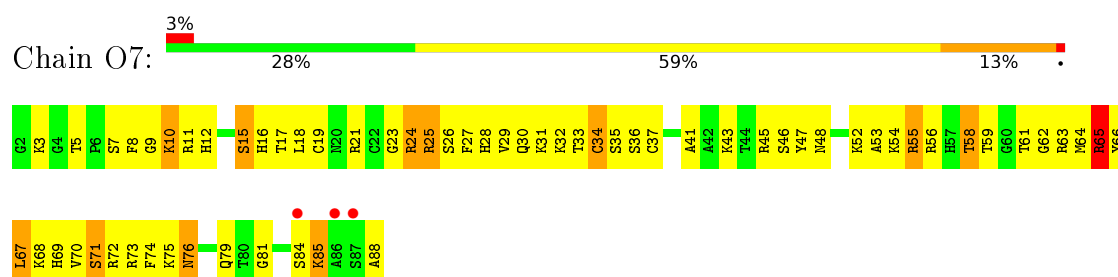
- Molecule 72: 60S ribosomal protein L36-A



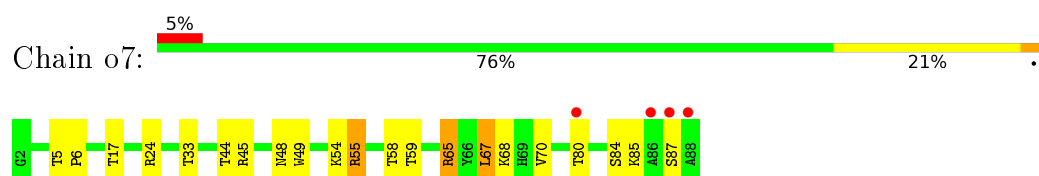
- Molecule 72: 60S ribosomal protein L36-A



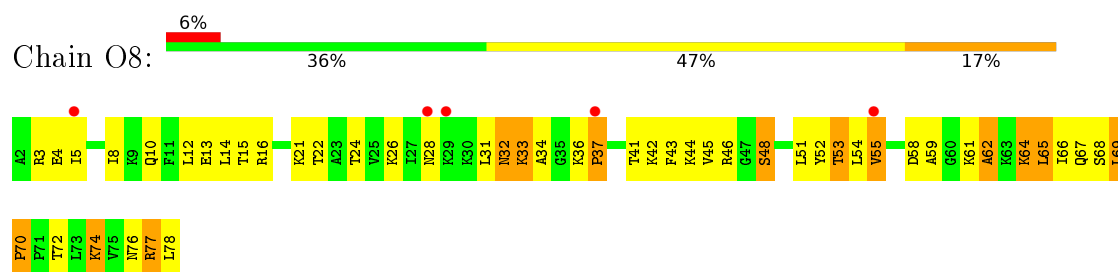
- Molecule 73: 60S ribosomal protein L37-A



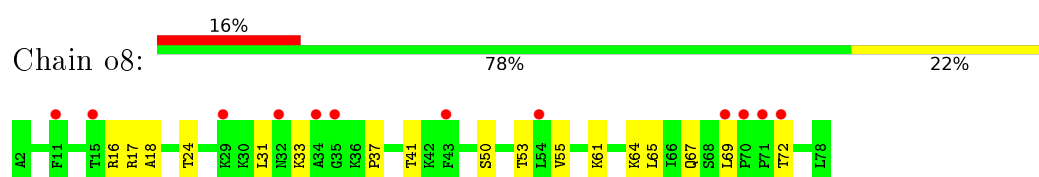
- Molecule 73: 60S ribosomal protein L37-A



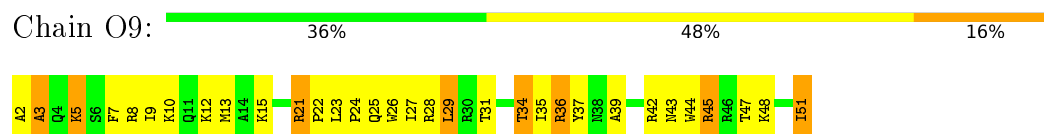
- Molecule 74: 60S ribosomal protein L38



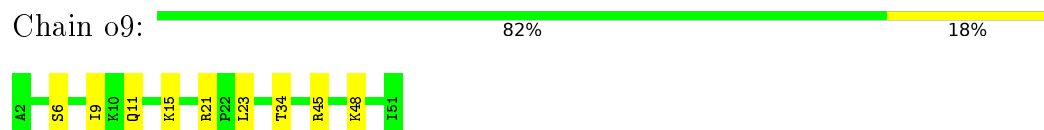
- Molecule 74: 60S ribosomal protein L38



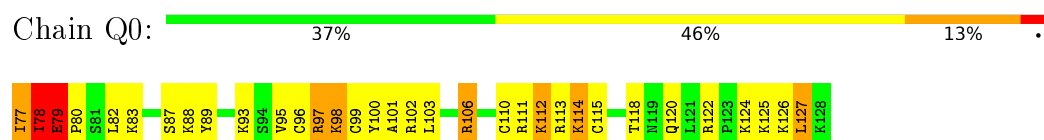
- Molecule 75: 60S ribosomal protein L39



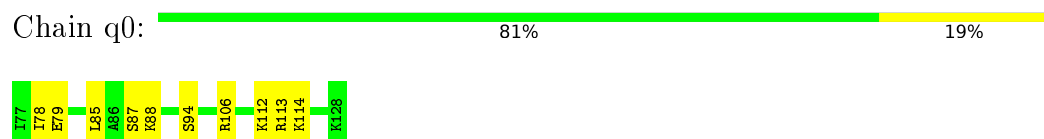
- Molecule 75: 60S ribosomal protein L39



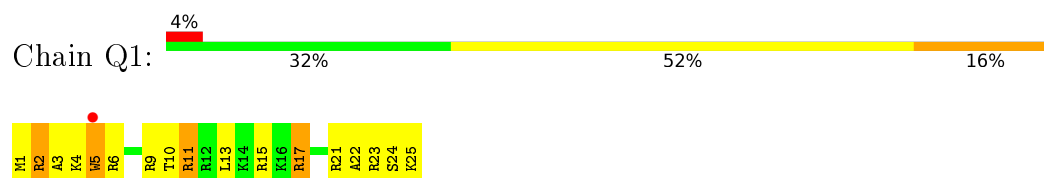
- Molecule 76: Ubiquitin-60S ribosomal protein L40



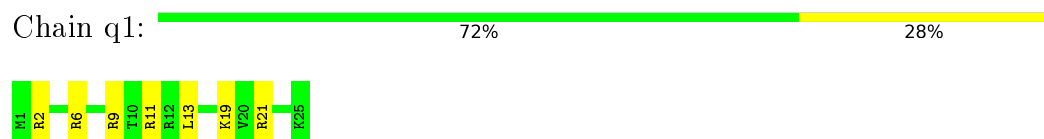
- Molecule 76: Ubiquitin-60S ribosomal protein L40



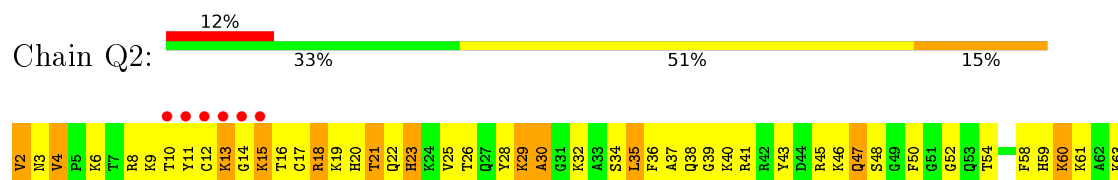
- Molecule 77: 60S ribosomal protein L41-A

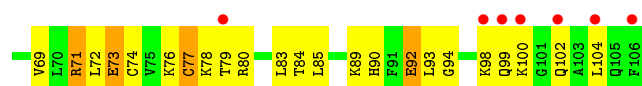


- Molecule 77: 60S ribosomal protein L41-A

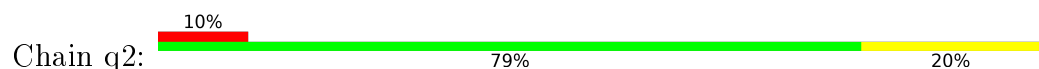


- Molecule 78: 60S ribosomal protein L42-A

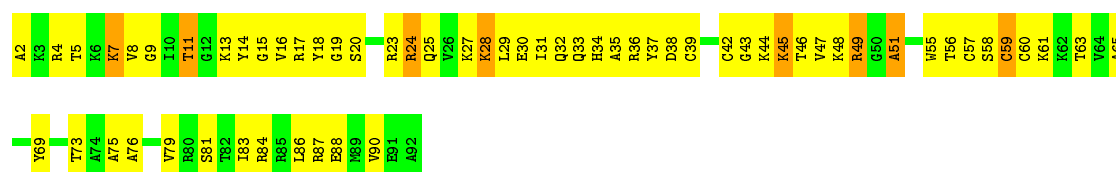




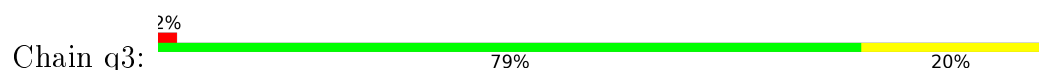
- Molecule 78: 60S ribosomal protein L42-A



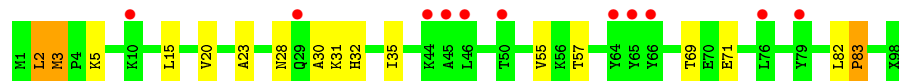
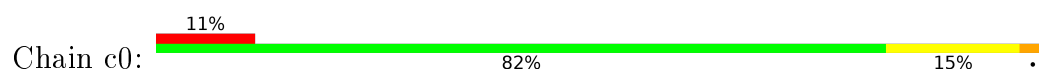
- Molecule 79: 60S ribosomal protein L43-A



- Molecule 79: 60S ribosomal protein L43-A



- Molecule 80: 40S ribosomal protein S10-A

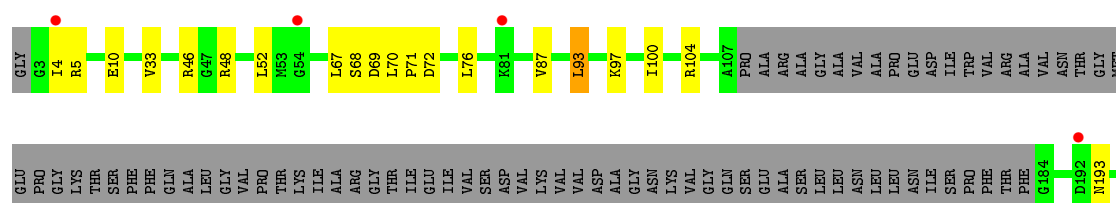
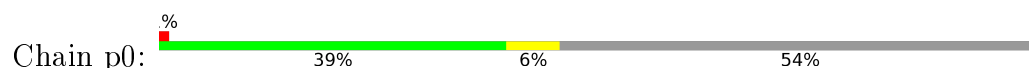


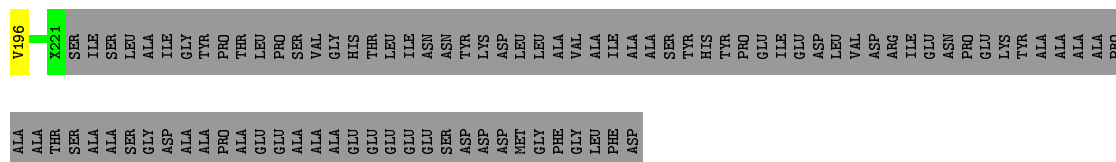
- Molecule 81: 60S ribosomal protein L12-A (uL11)



There are no outlier residues recorded for this chain.

- Molecule 82: 60S acidic ribosomal protein P0





- Molecule 83: 60S ribosomal protein P1 alpha

Chain p1: 100%

There are no outlier residues recorded for this chain.

- Molecule 84: 60S ribosomal protein P2 beta

Chain p2:  100%

There are no outlier residues recorded for this chain.

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	435.45Å 287.66Å 303.76Å 90.00° 98.92° 90.00°	Depositor
Resolution (Å)	49.99 – 3.40 49.99 – 3.40	Depositor EDS
% Data completeness (in resolution range)	97.7 (49.99-3.40) 84.7 (49.99-3.40)	Depositor EDS
R_{merge}	0.35	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.45 (at 3.40Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.234 , 0.284 0.233 , 0.283	Depositor DCC
R_{free} test set	20186 reflections (2.31%)	DCC
Wilson B-factor (Å ²)	66.1	Xtriage
Anisotropy	0.234	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 64.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.24$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	411776	wwPDB-VP
Average B, all atoms (Å ²)	78.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.56% 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: ZN, OHX, 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	2	0.57	0/42468	1.13	127/66173 (0.2%)
1	6	0.68	1/42790 (0.0%)	1.19	169/66673 (0.3%)
2	S0	0.35	0/1653	0.57	0/2261
2	s0	0.39	0/1653	0.60	0/2261
3	S1	0.33	0/1735	0.60	2/2335 (0.1%)
3	s1	0.42	0/1748	0.61	0/2352
4	S2	0.40	0/1665	0.61	0/2263
4	s2	0.48	0/1665	0.67	0/2263
5	S3	0.40	0/1759	0.59	0/2368
5	s3	0.38	0/1759	0.58	0/2368
6	S4	0.39	0/2109	0.64	1/2839 (0.0%)
6	s4	0.45	0/2109	0.67	1/2839 (0.0%)
7	S5	0.36	0/1629	0.58	0/2202
7	s5	0.38	0/1629	0.59	0/2202
8	S6	0.35	0/1844	0.54	0/2464
8	s6	0.47	0/1779	0.63	0/2379
9	S7	0.40	0/1506	0.63	0/2028
9	s7	0.39	0/1517	0.62	0/2044
10	S8	0.43	0/1514	0.61	0/2021
10	s8	0.47	0/1514	0.62	0/2021
11	S9	0.38	0/1519	0.59	0/2035
11	s9	0.44	0/1519	0.62	0/2035
12	C0	0.38	0/789	0.61	1/1067 (0.1%)
13	C1	0.45	0/1194	0.60	0/1610
13	c1	0.52	0/1194	0.66	0/1610
14	C2	0.37	0/824	0.60	0/1116
14	c2	0.27	0/824	0.54	0/1116
15	C3	0.43	0/1215	0.59	1/1638 (0.1%)
15	c3	0.42	0/1215	0.59	0/1638
16	C4	0.33	0/901	0.61	0/1217
16	c4	0.41	0/960	0.64	0/1290
17	C5	0.39	0/998	0.63	0/1341

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	c5	0.44	0/1060	0.64	0/1426
18	C6	0.40	0/1125	0.63	1/1510 (0.1%)
18	c6	0.38	0/1131	0.62	0/1518
19	C7	0.38	0/974	0.58	0/1304
19	c7	0.37	0/953	0.58	0/1275
20	C8	0.41	0/1211	0.61	1/1628 (0.1%)
20	c8	0.43	0/1211	0.63	1/1628 (0.1%)
21	C9	0.37	0/1130	0.57	0/1517
21	c9	0.40	0/1130	0.59	0/1517
22	D0	0.40	0/865	0.60	0/1169
22	d0	0.40	0/892	0.58	0/1205
23	D1	0.36	0/693	0.58	0/935
23	d1	0.40	0/693	0.56	0/935
24	D2	0.41	0/1038	0.67	2/1395 (0.1%)
24	d2	0.52	0/1038	0.69	1/1395 (0.1%)
25	D3	0.50	0/1139	0.67	0/1518
25	d3	0.56	0/1139	0.69	0/1518
26	D4	0.39	0/1087	0.56	0/1449
26	d4	0.43	0/1087	0.67	0/1449
27	D5	0.37	0/571	0.71	0/768
27	d5	0.37	0/566	0.58	0/761
28	D6	0.37	0/782	0.59	0/1047
28	d6	0.46	0/782	0.60	0/1047
29	D7	0.37	0/620	0.61	0/838
29	d7	0.41	0/620	0.63	0/838
30	D8	0.34	0/499	0.56	0/670
30	d8	0.38	0/499	0.62	0/670
31	D9	0.44	0/453	0.63	1/602 (0.2%)
31	d9	0.46	0/453	0.53	0/602
32	E0	0.37	0/483	0.57	0/643
32	e0	0.46	0/499	0.65	0/665
33	E1	0.38	0/577	0.69	0/770
33	e1	0.36	0/619	0.69	1/822 (0.1%)
34	SR	0.33	0/2494	0.56	0/3394
34	sR	0.33	0/2498	0.53	0/3398
35	SM	0.43	0/984	0.63	0/1323
35	sM	0.46	0/480	0.65	0/642
36	1	0.85	14/75394 (0.0%)	1.36	645/117545 (0.5%)
36	5	0.91	26/75418 (0.0%)	1.40	755/117583 (0.6%)
37	3	0.77	0/2883	1.23	10/4491 (0.2%)
37	7	0.85	0/2883	1.36	23/4491 (0.5%)
38	4	0.82	0/3746	1.32	18/5832 (0.3%)
38	8	0.78	0/3746	1.28	17/5832 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	L2	0.56	0/1952	0.69	0/2622
39	l2	0.54	0/1952	0.73	0/2622
40	L3	0.56	0/3142	0.68	0/4224
40	l3	0.63	1/3142 (0.0%)	0.71	0/4224
41	L4	0.59	0/2801	0.75	1/3792 (0.0%)
41	l4	0.59	0/2801	0.73	1/3792 (0.0%)
42	L5	0.47	0/2425	0.65	0/3271
42	l5	0.58	0/2408	0.71	0/3248
43	L6	0.58	0/1260	0.72	0/1694
43	l6	0.58	0/1269	0.71	0/1705
44	L7	0.63	0/1821	0.72	0/2451
44	l7	0.66	0/1828	0.75	2/2461 (0.1%)
45	L8	0.43	0/1849	0.59	0/2495
45	l8	0.46	0/1795	0.61	0/2429
46	L9	0.54	0/1539	0.67	0/2073
46	l9	0.59	0/1539	0.69	0/2073
47	M0	0.57	0/1753	0.68	0/2350
47	m0	0.62	0/1769	0.74	0/2372
48	M1	0.44	0/1374	0.61	0/1842
48	m1	0.55	0/1374	0.68	1/1842 (0.1%)
49	M3	0.56	0/1568	0.74	1/2106 (0.0%)
49	m3	0.54	0/1573	0.73	0/2113
50	M4	0.60	0/1068	0.71	0/1438
50	m4	0.61	0/1074	0.71	0/1446
51	M5	0.56	0/1757	0.70	0/2354
51	m5	0.50	0/1757	0.64	0/2354
52	M6	0.66	0/1585	0.72	0/2128
52	m6	0.73	0/1585	0.75	0/2128
53	M7	0.55	0/1465	0.67	0/1968
53	m7	0.68	0/1250	0.76	1/1683 (0.1%)
54	M8	0.59	0/1465	0.75	1/1965 (0.1%)
54	m8	0.59	0/1465	0.75	1/1965 (0.1%)
55	M9	0.45	0/1538	0.56	0/2050
55	m9	0.50	0/1538	0.62	0/2050
56	N0	0.61	0/1481	0.73	0/1990
56	n0	0.67	0/1481	0.71	0/1990
57	N1	0.58	0/1300	0.66	0/1743
57	n1	0.61	0/1300	0.69	0/1743
58	N2	0.39	0/812	0.54	0/1099
58	n2	0.43	0/794	0.63	0/1076
59	N3	0.56	0/1018	0.71	1/1369 (0.1%)
59	n3	0.67	0/1018	0.76	0/1369
60	N4	0.43	0/814	0.65	0/1081

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
60	n4	0.50	0/1103	0.65	0/1458
61	N5	0.49	0/983	0.72	2/1325 (0.2%)
61	n5	0.50	0/974	0.70	0/1314
62	N6	0.50	0/1004	0.70	0/1341
62	n6	0.53	0/1004	0.74	0/1341
63	N7	0.44	0/1118	0.60	0/1497
63	n7	0.40	0/1118	0.59	0/1497
64	N8	0.55	0/1204	0.75	0/1612
64	n8	0.56	0/1204	0.71	0/1612
65	N9	0.52	0/473	0.72	1/629 (0.2%)
65	n9	0.57	0/473	0.79	0/629
66	O0	0.39	0/751	0.56	0/1008
66	o0	0.43	0/775	0.65	0/1040
67	O1	0.51	0/904	0.65	0/1213
67	o1	0.60	0/904	0.70	0/1213
68	O2	0.63	0/1041	0.70	0/1394
68	o2	0.61	0/1041	0.73	0/1394
69	O3	0.68	0/868	0.72	0/1168
69	o3	0.65	0/868	0.73	0/1168
70	O4	0.47	0/891	0.62	1/1191 (0.1%)
70	o4	0.47	0/891	0.73	1/1191 (0.1%)
71	O5	0.51	0/978	0.69	1/1301 (0.1%)
71	o5	0.49	0/978	0.59	0/1301
72	O6	0.50	0/778	0.67	0/1034
72	o6	0.49	0/778	0.62	0/1034
73	O7	0.53	0/696	0.75	1/923 (0.1%)
73	o7	0.57	0/696	0.83	1/923 (0.1%)
74	O8	0.44	0/618	0.61	0/826
74	o8	0.39	0/618	0.57	0/826
75	O9	0.56	0/443	0.77	0/588
75	o9	0.54	0/443	0.65	0/588
76	Q0	0.54	0/423	0.71	0/562
76	q0	0.67	0/423	0.76	0/562
77	Q1	0.45	0/234	0.66	0/300
77	q1	0.50	0/234	0.65	0/300
78	Q2	0.63	1/860 (0.1%)	0.69	0/1136
78	q2	0.67	1/860 (0.1%)	0.69	2/1136 (0.2%)
79	Q3	0.56	0/701	0.72	0/934
79	q3	0.59	0/701	0.68	0/934
80	c0	0.34	0/718	0.60	1/968 (0.1%)
82	p0	0.42	0/977	0.60	0/1313
All	All	0.69	44/430590 (0.0%)	1.10	1799/632148 (0.3%)

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
7	s5	0	1
9	S7	0	1
9	s7	0	1
18	c6	0	1
19	C7	0	1
22	d0	0	1
26	d4	0	1
27	D5	0	1
39	L2	0	2
42	l5	0	1
44	L7	0	1
44	l7	0	2
52	M6	0	1
56	n0	0	1
64	N8	0	1
64	n8	0	1
65	N9	0	1
All	All	0	19

All (44) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
78	q2	17	CYS	CB-SG	11.01	2.00	1.82
78	Q2	17	CYS	CB-SG	10.91	2.00	1.82
36	5	1152	G	N9-C4	-7.21	1.32	1.38
36	5	706	A	N9-C4	-6.86	1.33	1.37
36	5	2214	A	N9-C4	-6.78	1.33	1.37
36	1	1103	A	N3-C4	6.66	1.38	1.34
36	5	1192	C	N1-C2	6.49	1.46	1.40
36	1	942	U	C4-O4	6.49	1.28	1.23
36	1	1589	A	N9-C4	-6.19	1.34	1.37
36	1	1103	A	N7-C5	6.11	1.43	1.39
36	1	1103	A	N9-C4	6.03	1.41	1.37
36	5	3040	A	N9-C4	-5.89	1.34	1.37
36	1	2874	G	N7-C5	5.85	1.42	1.39
36	5	2881	C	N1-C6	-5.75	1.33	1.37
36	1	213	A	N9-C4	-5.63	1.34	1.37
36	5	1307	G	P-O5'	-5.59	1.54	1.59
36	5	3000	A	N9-C4	-5.47	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1449	A	N9-C4	5.46	1.41	1.37
36	5	3106	A	N9-C4	-5.46	1.34	1.37
36	5	2639	G	N7-C5	-5.44	1.35	1.39
36	5	1332	A	N7-C5	-5.38	1.36	1.39
36	1	1452	A	N9-C4	-5.34	1.34	1.37
40	13	255	CYS	CB-SG	-5.33	1.73	1.81
36	1	2160	G	N9-C4	5.30	1.42	1.38
36	5	39	A	N9-C4	-5.27	1.34	1.37
36	5	818	C	N1-C6	-5.27	1.33	1.37
36	5	2375	G	N7-C5	-5.22	1.36	1.39
36	5	646	A	C6-N1	-5.21	1.31	1.35
36	5	3011	A	N9-C4	-5.21	1.34	1.37
36	5	2640	A	N9-C4	-5.19	1.34	1.37
36	1	2326	A	N9-C4	-5.19	1.34	1.37
36	5	3106	A	N7-C5	-5.19	1.36	1.39
36	1	2618	G	C6-N1	-5.17	1.35	1.39
36	5	2811	A	N9-C4	-5.14	1.34	1.37
1	6	1124	A	N9-C4	-5.12	1.34	1.37
36	5	3138	U	N1-C2	-5.12	1.33	1.38
36	5	402	A	N7-C5	-5.12	1.36	1.39
36	1	1140	G	C6-N1	-5.12	1.35	1.39
36	5	408	A	N3-C4	-5.12	1.31	1.34
36	5	2819	A	N3-C4	-5.12	1.31	1.34
36	1	2207	A	N9-C4	5.11	1.41	1.37
36	5	2172	A	N9-C4	-5.01	1.34	1.37
36	5	2643	A	N9-C4	-5.01	1.34	1.37
36	5	2971	A	N9-C4	5.01	1.40	1.37

All (1799) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1152	G	N3-C4-N9	-14.54	117.27	126.00
36	5	1152	G	N3-C4-C5	13.47	135.34	128.60
36	5	1152	G	C2-N3-C4	-13.26	105.27	111.90
36	1	2874	G	C4-N9-C1'	-11.98	110.93	126.50
36	1	2618	G	N1-C6-O6	-11.78	112.83	119.90
36	5	1178	G	C8-N9-C4	-11.71	101.72	106.40
36	1	1192	C	N1-C2-O2	11.67	125.90	118.90
36	5	1897	G	N1-C6-O6	11.30	126.68	119.90
36	5	638	C	C6-N1-C2	-10.99	115.90	120.30
36	5	1192	C	N1-C2-O2	10.84	125.40	118.90
36	5	2403	G	C5-C6-N1	-10.77	106.11	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3278	C	N1-C2-O2	10.64	125.28	118.90
36	5	283	G	C4-C5-N7	10.62	115.05	110.80
36	1	1175	C	C6-N1-C2	10.28	124.41	120.30
36	1	2874	G	C8-N9-C1'	10.21	140.27	127.00
36	1	1149	G	N1-C6-O6	10.15	125.99	119.90
36	1	2160	G	C2-N3-C4	10.11	116.95	111.90
36	5	2403	G	N1-C6-O6	10.03	125.92	119.90
36	1	3278	C	N3-C2-O2	-9.57	115.20	121.90
36	1	2996	U	N1-C2-O2	9.38	129.37	122.80
36	1	2889	C	N3-C2-O2	-9.33	115.37	121.90
1	6	1	U	C2-N1-C1'	9.32	128.89	117.70
36	1	1104	G	O5'-P-OP1	-9.14	97.48	105.70
36	5	3154	C	N1-C2-O2	9.09	124.35	118.90
36	5	942	U	N3-C4-C5	-9.04	109.17	114.60
36	5	1200	A	N1-C6-N6	9.00	124.00	118.60
36	1	2618	G	C5-C6-O6	8.98	133.99	128.60
36	1	860	G	N1-C6-O6	8.90	125.24	119.90
36	5	1152	G	C8-N9-C1'	8.89	138.55	127.00
36	5	2572	C	N1-C2-O2	8.88	124.23	118.90
36	1	860	G	C5-C6-O6	-8.82	123.31	128.60
36	1	2306	C	N1-C2-O2	8.77	124.16	118.90
36	5	1192	C	C2-N1-C1'	8.76	128.44	118.80
36	5	2379	U	N1-C2-O2	-8.75	116.68	122.80
36	1	1897	G	N1-C6-O6	8.73	125.14	119.90
36	5	283	G	C5-C6-O6	-8.69	123.39	128.60
36	5	1149	G	N1-C6-O6	8.64	125.08	119.90
36	5	1420	C	C6-N1-C2	8.62	123.75	120.30
36	5	1367	G	C5-C6-N1	-8.61	107.19	111.50
1	6	453	U	N1-C2-O2	8.59	128.81	122.80
1	6	163	G	N3-C4-N9	-8.57	120.86	126.00
36	5	2395	G	C5-C6-O6	-8.56	123.46	128.60
36	1	1469	C	N1-C2-O2	8.54	124.02	118.90
36	1	2714	G	N3-C4-N9	-8.54	120.88	126.00
36	1	1377	G	C5-C6-O6	-8.53	123.48	128.60
36	1	2874	G	C6-C5-N7	8.52	135.51	130.40
36	1	282	G	C8-N9-C4	-8.50	103.00	106.40
36	1	2996	U	N3-C2-O2	-8.49	116.25	122.20
1	6	1389	C	C2-N1-C1'	8.47	128.12	118.80
36	1	23	A	N1-C6-N6	8.45	123.67	118.60
36	5	1300	G	N1-C6-O6	8.41	124.94	119.90
36	1	2369	G	C8-N9-C4	-8.40	103.04	106.40
36	5	2395	G	N1-C6-O6	8.38	124.93	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1192	C	N3-C2-O2	-8.38	116.04	121.90
36	5	2888	U	C5-C4-O4	-8.37	120.88	125.90
36	5	964	G	C8-N9-C4	-8.36	103.06	106.40
36	5	3154	C	C2-N1-C1'	8.35	127.98	118.80
36	1	3217	C	C2-N1-C1'	8.32	127.95	118.80
1	2	830	U	N3-C2-O2	-8.31	116.38	122.20
36	5	3078	U	N3-C2-O2	-8.31	116.38	122.20
1	6	1581	C	C6-N1-C2	8.31	123.62	120.30
36	5	1085	A	O5'-P-OP1	-8.26	98.27	105.70
36	5	1152	G	N1-C6-O6	8.25	124.85	119.90
36	5	1152	G	C5-N7-C8	-8.24	100.18	104.30
36	5	1156	C	C6-N1-C2	-8.21	117.01	120.30
36	5	2403	G	C4-C5-C6	8.21	123.73	118.80
36	1	2403	G	N1-C6-O6	8.20	124.82	119.90
36	5	2147	A	N1-C6-N6	8.19	123.51	118.60
36	5	2704	A	O5'-P-OP1	-8.19	98.33	105.70
1	2	1182	U	N3-C2-O2	-8.18	116.47	122.20
36	5	3245	A	C5-N7-C8	-8.15	99.83	103.90
36	5	1178	G	N9-C4-C5	8.12	108.65	105.40
36	1	979	U	C6-N1-C2	-8.10	116.14	121.00
36	5	1316	C	N1-C2-O2	-8.10	114.04	118.90
36	1	2679	A	O4'-C1'-N9	8.10	114.68	108.20
36	5	1149	G	C6-C5-N7	-8.05	125.57	130.40
1	6	1185	U	N1-C2-O2	8.04	128.43	122.80
36	1	968	G	N3-C4-C5	-8.03	124.58	128.60
36	5	2874	G	N3-C4-C5	8.02	132.61	128.60
1	2	830	U	N1-C2-O2	8.02	128.41	122.80
36	1	1437	C	C6-N1-C2	-8.00	117.10	120.30
36	5	3093	C	C6-N1-C2	7.98	123.49	120.30
36	5	3245	A	C2-N3-C4	-7.98	106.61	110.60
36	5	3276	G	O4'-C1'-N9	7.97	114.58	108.20
1	6	1000	C	C2-N1-C1'	7.95	127.55	118.80
36	5	2869	U	N1-C2-O2	7.95	128.36	122.80
36	1	2728	G	N3-C4-N9	7.94	130.76	126.00
36	5	2871	G	N1-C6-O6	-7.94	115.14	119.90
36	5	1161	G	N3-C4-C5	-7.93	124.63	128.60
36	5	3245	A	N7-C8-N9	7.93	117.76	113.80
36	5	2315	G	O5'-P-OP1	-7.92	98.57	105.70
36	1	1165	A	C8-N9-C4	7.91	108.97	105.80
36	5	936	A	O5'-P-OP2	-7.91	98.58	105.70
36	1	2257	C	C2-N1-C1'	7.91	127.50	118.80
36	5	640	U	N1-C2-O2	-7.90	117.27	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3278	C	C2-N1-C1'	7.89	127.48	118.80
36	1	1351	U	C2-N1-C1'	7.87	127.14	117.70
36	5	2843	U	N3-C2-O2	-7.86	116.70	122.20
36	1	2978	U	O4'-C1'-N1	7.85	114.48	108.20
36	5	942	U	C6-N1-C2	-7.82	116.31	121.00
36	1	942	U	N3-C4-O4	7.81	124.87	119.40
36	1	1192	C	N3-C2-O2	-7.80	116.44	121.90
36	1	1175	C	C5-C6-N1	-7.80	117.10	121.00
36	5	2830	G	N1-C2-N3	7.80	128.58	123.90
1	2	73	U	O4'-C1'-N1	7.78	114.42	108.20
36	5	985	U	C6-N1-C2	7.77	125.66	121.00
36	5	2572	C	C2-N1-C1'	7.76	127.34	118.80
36	1	2306	C	C2-N1-C1'	7.74	127.32	118.80
36	1	640	U	N1-C2-O2	-7.74	117.39	122.80
36	1	1556	C	C6-N1-C2	-7.72	117.21	120.30
36	5	1149	G	C4-C5-C6	7.70	123.42	118.80
36	5	1368	U	O5'-P-OP1	-7.70	98.77	105.70
36	1	2257	C	C6-N1-C2	-7.68	117.23	120.30
36	5	363	G	C5-C6-O6	-7.66	124.00	128.60
1	2	959	U	N3-C2-O2	-7.62	116.87	122.20
36	5	1854	C	C6-N1-C2	-7.62	117.25	120.30
36	1	2889	C	N1-C2-O2	7.61	123.47	118.90
38	4	99	C	C6-N1-C2	7.61	123.34	120.30
36	1	2286	U	O5'-P-OP2	-7.60	98.86	105.70
36	1	2617	U	C5-C4-O4	7.60	130.46	125.90
36	5	1191	U	N3-C2-O2	7.60	127.52	122.20
36	5	919	U	O5'-P-OP1	7.59	119.81	110.70
36	1	1368	U	O5'-P-OP1	-7.58	98.88	105.70
36	1	2874	G	N3-C4-N9	-7.58	121.45	126.00
36	5	1148	G	C5-C6-O6	-7.58	124.05	128.60
36	5	1151	U	N3-C4-C5	-7.58	110.05	114.60
37	7	69	C	C6-N1-C2	7.58	123.33	120.30
36	1	53	G	N1-C6-O6	-7.58	115.35	119.90
36	1	2572	C	N1-C2-O2	7.57	123.44	118.90
36	5	586	C	C6-N1-C2	7.56	123.33	120.30
36	1	640	U	N3-C2-O2	7.56	127.49	122.20
36	1	1435	A	C8-N9-C4	-7.55	102.78	105.80
36	1	1207	G	C5-C6-O6	-7.55	124.07	128.60
1	6	194	U	C2-N1-C1'	7.54	126.75	117.70
1	6	621	A	O5'-P-OP1	-7.54	98.92	105.70
36	1	344	A	N1-C6-N6	-7.54	114.08	118.60
36	1	2996	U	C2-N1-C1'	7.53	126.74	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	1274	C	C6-N1-C2	-7.53	117.29	120.30
36	5	646	A	C8-N9-C4	-7.53	102.79	105.80
36	5	664	U	N3-C2-O2	-7.47	116.97	122.20
36	1	2874	G	N3-C4-C5	7.47	132.33	128.60
36	5	1433	A	C8-N9-C4	-7.47	102.81	105.80
36	5	2913	C	N1-C2-O2	-7.47	114.42	118.90
36	1	2624	G	N1-C6-O6	7.47	124.38	119.90
36	1	1201	C	C5-C6-N1	7.46	124.73	121.00
36	1	1449	A	C2-N3-C4	7.46	114.33	110.60
36	1	1377	G	C4-C5-N7	7.46	113.78	110.80
36	5	406	G	N3-C4-N9	-7.45	121.53	126.00
36	5	2395	G	C4-C5-N7	7.45	113.78	110.80
36	1	2827	U	C5-C4-O4	7.43	130.36	125.90
38	4	125	U	N1-C2-O2	7.43	128.00	122.80
1	2	959	U	N1-C2-O2	7.42	128.00	122.80
36	5	2389	C	N3-C4-C5	7.42	124.87	121.90
36	5	2411	U	C5-C6-N1	-7.41	118.99	122.70
36	5	2843	U	C2-N1-C1'	7.41	126.59	117.70
36	5	1161	G	C2-N3-C4	7.40	115.60	111.90
36	5	2272	G	O4'-C1'-N9	7.40	114.12	108.20
1	2	639	U	N1-C2-O2	7.39	127.98	122.80
36	5	644	G	C5-C6-O6	7.38	133.03	128.60
38	4	103	G	N3-C4-C5	-7.38	124.91	128.60
36	1	979	U	P-O3'-C3'	7.36	128.53	119.70
36	1	1114	U	O5'-P-OP2	-7.36	99.08	105.70
36	1	1556	C	N3-C2-O2	-7.36	116.75	121.90
36	1	2160	G	N3-C4-C5	-7.36	124.92	128.60
36	5	2843	U	N1-C2-O2	7.35	127.94	122.80
36	5	3245	A	N1-C6-N6	7.35	123.01	118.60
36	1	645	A	C6-N1-C2	-7.34	114.20	118.60
36	5	3216	G	C6-C5-N7	-7.34	126.00	130.40
36	5	2964	G	C4-C5-N7	-7.33	107.87	110.80
36	1	1351	U	N1-C2-O2	7.33	127.93	122.80
36	1	1205	A	C8-N9-C4	7.32	108.73	105.80
1	6	1164	G	C4-C5-N7	7.32	113.73	110.80
36	1	1897	G	C6-C5-N7	-7.32	126.01	130.40
36	1	2714	G	N3-C4-C5	7.31	132.26	128.60
1	2	553	G	N1-C6-O6	7.31	124.28	119.90
36	1	363	G	N1-C6-O6	7.30	124.28	119.90
36	5	1437	C	C2-N1-C1'	7.30	126.83	118.80
36	5	3245	A	C6-C5-N7	-7.30	127.19	132.30
36	5	2966	G	C8-N9-C4	-7.29	103.48	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3269	U	N3-C2-O2	-7.29	117.09	122.20
36	1	2382	G	C8-N9-C4	7.29	109.31	106.40
36	1	3307	A	N1-C6-N6	7.28	122.97	118.60
36	1	2761	G	C4-C5-N7	-7.28	107.89	110.80
36	1	2355	G	C5-C6-N1	-7.28	107.86	111.50
36	5	1854	C	N1-C2-O2	7.27	123.26	118.90
36	1	921	A	N1-C6-N6	-7.24	114.26	118.60
37	7	88	G	N3-C4-C5	-7.24	124.98	128.60
36	5	718	G	C4-N9-C1'	7.23	135.90	126.50
36	5	1149	G	C5-C6-N1	-7.22	107.89	111.50
37	3	91	G	C8-N9-C4	-7.22	103.51	106.40
36	1	1308	A	N7-C8-N9	7.21	117.41	113.80
36	5	2964	G	N1-C6-O6	-7.21	115.57	119.90
36	1	2572	C	C6-N1-C2	-7.21	117.42	120.30
36	5	135	C	C6-N1-C2	-7.21	117.42	120.30
1	6	144	U	N3-C2-O2	-7.20	117.16	122.20
36	1	2816	G	N1-C6-O6	7.20	124.22	119.90
36	1	968	G	N3-C4-N9	7.19	130.31	126.00
36	5	2392	C	C6-N1-C2	7.18	123.17	120.30
36	5	776	U	C5-C4-O4	7.17	130.20	125.90
36	1	676	G	C8-N9-C4	-7.17	103.53	106.40
36	5	1434	G	C4-C5-N7	7.17	113.67	110.80
36	5	1161	G	N3-C4-N9	7.17	130.30	126.00
36	1	1308	A	C8-N9-C4	-7.16	102.94	105.80
1	6	813	U	C2-N1-C1'	7.16	126.29	117.70
36	1	1425	U	N3-C2-O2	-7.16	117.19	122.20
1	2	1428	G	O5'-P-OP1	-7.14	99.27	105.70
36	1	1496	C	C2-N1-C1'	7.13	126.65	118.80
36	5	921	A	N1-C6-N6	-7.13	114.32	118.60
36	1	1175	C	C2-N3-C4	-7.13	116.34	119.90
36	1	2636	A	C8-N9-C4	-7.12	102.95	105.80
36	1	942	U	N3-C4-C5	-7.12	110.33	114.60
36	1	3278	C	C6-N1-C2	-7.12	117.45	120.30
36	5	1434	G	N1-C6-O6	7.11	124.17	119.90
36	5	2874	G	C4-N9-C1'	-7.11	117.26	126.50
1	6	194	U	N1-C2-O2	7.11	127.78	122.80
1	2	1052	U	C2-N1-C1'	7.11	126.23	117.70
1	6	194	U	N3-C2-O2	-7.11	117.23	122.20
36	5	2928	C	C6-N1-C2	-7.10	117.46	120.30
36	5	1152	G	C5-C6-N1	-7.10	107.95	111.50
36	1	2875	U	P-O3'-C3'	-7.08	111.21	119.70
36	5	1152	G	N3-C2-N2	-7.07	114.95	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2971	A	C2-N3-C4	7.07	114.14	110.60
36	1	1484	U	P-O3'-C3'	7.07	128.18	119.70
36	5	341	G	C8-N9-C4	-7.06	103.58	106.40
36	5	2572	C	N3-C2-O2	-7.06	116.96	121.90
36	5	3154	C	N3-C2-O2	-7.06	116.96	121.90
1	2	830	U	C2-N1-C1'	7.06	126.17	117.70
1	6	453	U	C2-N1-C1'	7.05	126.17	117.70
1	6	1177	C	C6-N1-C2	7.05	123.12	120.30
36	1	2617	U	N3-C2-O2	-7.05	117.27	122.20
36	5	1307	G	O5'-P-OP1	-7.05	99.36	105.70
36	1	2572	C	N3-C2-O2	-7.05	116.97	121.90
36	5	2869	U	N3-C2-O2	-7.05	117.27	122.20
36	1	979	U	N3-C2-O2	-7.04	117.27	122.20
36	5	358	G	N3-C4-C5	7.04	132.12	128.60
36	5	1161	G	C5-C6-N1	7.04	115.02	111.50
36	5	3181	C	N3-C2-O2	-7.03	116.98	121.90
1	2	728	U	C2-N1-C1'	7.03	126.13	117.70
36	1	1175	C	N3-C4-C5	7.03	124.71	121.90
36	1	859	G	N3-C4-N9	7.03	130.22	126.00
36	1	2816	G	C5-C6-O6	-7.02	124.39	128.60
1	6	1164	G	C5-C6-O6	-7.02	124.39	128.60
36	1	934	G	C4-N9-C1'	7.01	135.61	126.50
36	1	1192	C	C2-N1-C1'	7.00	126.51	118.80
1	2	1370	U	P-O3'-C3'	7.00	128.10	119.70
36	5	1448	U	C5-C6-N1	-7.00	119.20	122.70
36	5	1380	G	C8-N9-C4	6.99	109.20	106.40
36	5	2943	G	C6-C5-N7	-6.99	126.21	130.40
1	2	959	U	C2-N1-C1'	6.98	126.08	117.70
36	5	378	A	C8-N9-C4	6.97	108.59	105.80
36	1	1437	C	C2-N1-C1'	6.97	126.47	118.80
1	6	36	C	C2-N3-C4	-6.96	116.42	119.90
36	5	938	C	N3-C4-C5	6.96	124.68	121.90
1	2	736	C	C5-C6-N1	6.95	124.47	121.00
36	5	2526	C	N1-C2-O2	6.94	123.07	118.90
36	1	2365	C	C6-N1-C2	6.94	123.08	120.30
1	6	151	G	N3-C4-N9	-6.94	121.84	126.00
36	5	1178	G	N7-C8-N9	6.93	116.57	113.10
36	1	186	U	N1-C2-O2	6.92	127.65	122.80
36	5	1300	G	C5-C6-O6	-6.92	124.45	128.60
36	5	2375	G	O4'-C1'-N9	6.92	113.73	108.20
36	1	2571	U	N3-C2-O2	-6.91	117.36	122.20
36	5	1604	G	C4-N9-C1'	6.91	135.49	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1331	U	N3-C2-O2	6.91	127.03	122.20
36	5	1897	G	N3-C2-N2	-6.90	115.07	119.90
36	1	3186	A	N1-C6-N6	-6.90	114.46	118.60
36	1	3310	A	C8-N9-C4	6.89	108.56	105.80
36	5	1152	G	C4-N9-C1'	-6.88	117.55	126.50
36	1	1897	G	C5-C6-O6	-6.87	124.48	128.60
36	5	1495	U	C6-N1-C2	-6.87	116.88	121.00
36	5	1519	G	N1-C6-O6	6.86	124.02	119.90
1	2	12	U	N3-C2-O2	-6.86	117.40	122.20
36	5	880	G	C4-C5-N7	-6.85	108.06	110.80
36	5	2400	G	C5-C6-O6	-6.85	124.49	128.60
36	1	2137	U	N1-C2-O2	6.85	127.60	122.80
36	5	2942	C	C5-C6-N1	6.85	124.42	121.00
36	1	1503	A	C8-N9-C4	6.84	108.54	105.80
36	1	94	G	C8-N9-C4	6.84	109.14	106.40
1	6	863	A	N1-C6-N6	6.83	122.70	118.60
36	1	1331	U	N3-C4-O4	6.82	124.18	119.40
36	1	1581	C	N1-C2-O2	6.82	122.99	118.90
36	5	958	C	C6-N1-C2	-6.81	117.58	120.30
1	2	1157	A	C8-N9-C4	-6.80	103.08	105.80
1	6	151	G	N9-C4-C5	6.80	108.12	105.40
36	5	1184	A	N1-C6-N6	-6.80	114.52	118.60
36	5	2821	C	N3-C4-C5	-6.80	119.18	121.90
36	1	328	U	N3-C2-O2	-6.80	117.44	122.20
36	1	1377	G	N9-C4-C5	-6.79	102.69	105.40
80	c0	83	PRO	N-CA-CB	6.78	111.44	103.30
1	6	1185	U	N3-C2-O2	-6.78	117.46	122.20
36	5	1854	C	N3-C2-O2	-6.77	117.16	121.90
36	5	1434	G	C6-C5-N7	-6.77	126.34	130.40
36	5	776	U	N1-C2-N3	6.77	118.96	114.90
36	1	2868	U	N1-C2-O2	6.77	127.54	122.80
36	5	101	G	O5'-P-OP1	6.76	118.81	110.70
36	1	2851	A	C5-C6-N6	6.76	129.11	123.70
36	5	1495	U	C2-N1-C1'	6.76	125.81	117.70
36	1	53	G	C4-C5-N7	-6.75	108.10	110.80
36	1	1269	U	C2-N1-C1'	6.75	125.80	117.70
36	5	1196	C	C6-N1-C2	6.75	123.00	120.30
36	5	1897	G	C5-C6-O6	-6.75	124.55	128.60
36	5	2981	U	N1-C2-N3	6.75	118.95	114.90
36	1	33	G	O5'-P-OP1	-6.73	99.64	105.70
36	1	1414	G	N1-C6-O6	6.73	123.94	119.90
1	2	507	U	C2-N1-C1'	6.73	125.77	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	942	U	N3-C4-O4	6.72	124.11	119.40
36	5	1437	C	C6-N1-C2	-6.72	117.61	120.30
36	5	2531	C	N1-C2-O2	6.72	122.93	118.90
36	1	54	C	C6-N1-C2	6.71	122.98	120.30
1	2	75	U	C2-N1-C1'	6.71	125.75	117.70
36	1	1520	G	N3-C4-C5	-6.70	125.25	128.60
38	8	38	U	N3-C2-O2	-6.70	117.51	122.20
1	6	813	U	N1-C2-O2	6.70	127.49	122.80
36	5	2403	G	C6-C5-N7	-6.70	126.38	130.40
36	5	2811	A	C8-N9-C4	6.70	108.48	105.80
36	5	2181	C	C6-N1-C2	6.69	122.98	120.30
36	1	213	A	C2-N3-C4	-6.69	107.25	110.60
36	1	1495	U	C5-C6-N1	-6.69	119.35	122.70
36	1	2661	G	N1-C6-O6	6.69	123.91	119.90
36	5	2366	C	C6-N1-C2	6.68	122.97	120.30
36	1	3028	G	N3-C4-N9	6.68	130.01	126.00
36	5	2660	G	N1-C6-O6	6.68	123.91	119.90
1	2	1082	C	N1-C2-O2	6.68	122.91	118.90
36	5	523	A	N1-C6-N6	-6.68	114.59	118.60
36	1	3306	U	C5-C4-O4	6.67	129.90	125.90
36	1	2571	U	C2-N1-C1'	6.67	125.70	117.70
36	5	2289	U	N3-C2-O2	-6.67	117.53	122.20
36	1	1587	A	N1-C6-N6	-6.67	114.60	118.60
36	1	676	G	C6-C5-N7	-6.66	126.40	130.40
36	5	2874	G	N3-C4-N9	-6.66	122.00	126.00
36	5	644	G	C4-C5-N7	-6.66	108.14	110.80
36	1	2571	U	N1-C2-O2	6.66	127.46	122.80
36	5	283	G	C6-C5-N7	-6.66	126.41	130.40
36	5	716	A	N1-C6-N6	6.65	122.59	118.60
36	5	2199	G	N1-C6-O6	6.65	123.89	119.90
38	8	80	A	N7-C8-N9	6.65	117.12	113.80
1	6	1	U	C5-C6-N1	6.65	126.03	122.70
1	6	36	C	N3-C4-C5	6.65	124.56	121.90
1	2	554	C	N1-C2-O2	6.64	122.89	118.90
1	2	934	C	C2-N1-C1'	6.64	126.10	118.80
36	5	1901	A	C5-C6-N1	6.64	121.02	117.70
1	6	1473	U	N3-C2-O2	-6.63	117.56	122.20
36	5	640	U	N3-C2-O2	6.63	126.84	122.20
36	5	968	G	N1-C6-O6	6.63	123.88	119.90
1	6	858	G	O4'-C1'-N9	6.63	113.51	108.20
36	1	646	A	N1-C6-N6	-6.63	114.62	118.60
1	6	1058	U	OP1-P-O3'	6.63	119.79	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	125	U	C2-N1-C1'	6.63	125.65	117.70
36	1	3344	A	O4'-C1'-N9	6.62	113.50	108.20
12	C0	88	PRO	N-CA-CB	6.62	111.25	103.30
36	1	776	U	C4-C5-C6	6.62	123.67	119.70
37	3	82	G	N1-C6-O6	-6.62	115.93	119.90
36	5	2991	A	N1-C6-N6	-6.62	114.63	118.60
1	6	1187	U	C6-N1-C2	-6.62	117.03	121.00
36	5	2327	U	C6-N1-C2	6.62	124.97	121.00
36	5	1433	A	N9-C4-C5	6.61	108.44	105.80
1	2	624	G	N1-C6-O6	-6.61	115.94	119.90
36	1	2355	G	N1-C6-O6	6.60	123.86	119.90
36	5	1114	U	N3-C4-C5	-6.60	110.64	114.60
36	5	2816	G	O4'-C1'-N9	6.60	113.48	108.20
36	1	1508	C	C6-N1-C2	-6.60	117.66	120.30
36	5	816	A	N1-C6-N6	-6.60	114.64	118.60
36	5	3040	A	C8-N9-C4	6.60	108.44	105.80
36	1	883	A	N1-C6-N6	-6.59	114.64	118.60
1	2	1490	C	C6-N1-C2	-6.59	117.66	120.30
36	5	1391	C	C6-N1-C2	6.59	122.94	120.30
36	1	1269	U	N1-C2-O2	6.58	127.41	122.80
1	2	1698	G	P-O3'-C3'	6.57	127.58	119.70
36	1	661	G	C4-C5-N7	6.56	113.42	110.80
36	1	968	G	C5-C6-N1	6.56	114.78	111.50
36	1	1556	C	C2-N1-C1'	6.56	126.01	118.80
36	5	1339	C	C6-N1-C2	-6.55	117.68	120.30
1	2	1761	U	N3-C2-O2	-6.55	117.61	122.20
36	1	1307	G	P-O3'-C3'	6.54	127.55	119.70
36	5	966	U	N3-C2-O2	-6.53	117.63	122.20
36	1	3217	C	C6-N1-C2	-6.53	117.69	120.30
36	1	3217	C	N3-C2-O2	-6.53	117.33	121.90
1	6	25	C	P-O3'-C3'	6.52	127.53	119.70
36	1	924	G	N3-C4-N9	6.52	129.91	126.00
36	1	1380	G	C2-N3-C4	-6.52	108.64	111.90
36	1	1495	U	C4-C5-C6	6.51	123.61	119.70
36	5	646	A	N1-C6-N6	-6.51	114.69	118.60
1	6	1537	C	C6-N1-C2	-6.51	117.70	120.30
36	1	70	A	N1-C6-N6	6.50	122.50	118.60
36	1	2411	U	O5'-P-OP2	-6.50	99.85	105.70
1	2	256	A	C8-N9-C4	-6.50	103.20	105.80
36	1	1556	C	N1-C2-O2	6.50	122.80	118.90
36	1	1788	C	C6-N1-C2	-6.49	117.70	120.30
36	5	1317	A	C4-C5-N7	6.49	113.94	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	406	G	N3-C4-C5	6.49	131.84	128.60
36	5	776	U	N3-C2-O2	-6.48	117.66	122.20
36	1	2284	C	N3-C2-O2	-6.48	117.36	121.90
36	5	3093	C	C5-C6-N1	-6.48	117.76	121.00
54	M8	138	LEU	CA-CB-CG	6.47	130.19	115.30
37	7	19	C	O5'-P-OP2	-6.47	99.87	105.70
36	5	363	G	N1-C6-O6	6.47	123.78	119.90
36	5	1300	G	C6-C5-N7	-6.47	126.52	130.40
36	5	2379	U	O5'-P-OP2	-6.47	99.88	105.70
1	6	453	U	N3-C2-O2	-6.47	117.67	122.20
36	5	2648	G	N3-C4-C5	6.47	131.83	128.60
38	4	53	A	N1-C6-N6	-6.46	114.72	118.60
36	1	1201	C	C5-C4-N4	-6.46	115.68	120.20
73	o7	65	ARG	NE-CZ-NH1	6.46	123.53	120.30
36	5	1152	G	C8-N9-C4	-6.46	103.82	106.40
1	2	542	A	O4'-C1'-N9	6.46	113.37	108.20
36	5	2683	U	C2-N1-C1'	6.46	125.45	117.70
36	5	646	A	C5-C6-N6	6.46	128.87	123.70
70	o4	58	ARG	NE-CZ-NH1	6.46	123.53	120.30
38	4	85	G	N7-C8-N9	6.45	116.33	113.10
36	1	1519	G	O5'-P-OP2	-6.45	99.90	105.70
36	5	967	A	N1-C6-N6	-6.45	114.73	118.60
36	1	2651	G	C8-N9-C4	6.43	108.97	106.40
36	5	587	U	C6-N1-C2	6.43	124.86	121.00
36	1	3214	U	N3-C2-O2	-6.43	117.70	122.20
36	1	3008	A	C2-N3-C4	-6.42	107.39	110.60
36	5	3354	U	N3-C2-O2	-6.42	117.70	122.20
36	1	363	G	C5-C6-O6	-6.42	124.75	128.60
36	5	3099	C	C6-N1-C2	6.42	122.87	120.30
36	1	1094	U	C5-C6-N1	6.42	125.91	122.70
70	O4	51	LEU	CA-CB-CG	6.41	130.05	115.30
36	1	942	U	C4-C5-C6	6.41	123.55	119.70
36	1	2412	G	C5-C6-N1	6.41	114.70	111.50
36	1	1180	A	N9-C4-C5	6.40	108.36	105.80
36	5	21	G	C8-N9-C4	6.40	108.96	106.40
36	5	1114	U	O5'-P-OP2	-6.40	99.94	105.70
36	1	684	G	N1-C6-O6	6.40	123.74	119.90
36	5	2887	A	C2-N3-C4	6.40	113.80	110.60
36	5	283	G	N9-C4-C5	-6.39	102.84	105.40
38	8	23	U	C5-C6-N1	-6.39	119.50	122.70
1	2	992	A	N1-C2-N3	6.38	132.49	129.30
37	3	58	C	C6-N1-C2	-6.38	117.75	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1360	C	C6-N1-C2	6.38	122.85	120.30
36	1	1325	U	O5'-P-OP2	-6.38	99.96	105.70
36	5	3138	U	N1-C2-O2	-6.38	118.33	122.80
36	1	343	U	N1-C2-N3	6.38	118.72	114.90
1	6	342	C	N3-C2-O2	-6.37	117.44	121.90
36	5	360	G	C4-C5-C6	6.37	122.62	118.80
36	5	2990	G	C8-N9-C4	6.37	108.95	106.40
36	1	1308	A	C5-N7-C8	-6.37	100.71	103.90
1	2	1347	U	N1-C2-O2	-6.37	118.34	122.80
36	1	2821	C	C5-C6-N1	-6.36	117.82	121.00
61	N5	34	LEU	CA-CB-CG	6.36	129.94	115.30
36	5	2293	C	N3-C4-N4	6.36	122.45	118.00
1	2	553	G	C6-C5-N7	-6.36	126.58	130.40
1	2	1117	U	N3-C4-O4	6.36	123.85	119.40
36	1	2369	G	N7-C8-N9	6.36	116.28	113.10
36	1	646	A	C5-C6-N6	6.36	128.79	123.70
1	6	400	A	N1-C6-N6	6.35	122.41	118.60
1	6	153	G	N1-C6-O6	6.35	123.71	119.90
1	2	864	U	N3-C2-O2	-6.35	117.75	122.20
36	5	1143	A	C8-N9-C4	6.35	108.34	105.80
1	6	1000	C	C6-N1-C2	-6.34	117.76	120.30
36	5	1342	C	C6-N1-C2	6.34	122.84	120.30
1	2	704	C	N1-C2-O2	6.34	122.70	118.90
36	1	332	C	C6-N1-C2	6.34	122.84	120.30
36	5	2900	A	N1-C6-N6	-6.34	114.80	118.60
36	5	642	U	O5'-P-OP2	-6.34	100.00	105.70
36	1	917	A	N1-C6-N6	-6.34	114.80	118.60
36	5	1317	A	C5-N7-C8	-6.33	100.73	103.90
36	1	984	G	N3-C4-C5	-6.33	125.43	128.60
1	6	1	U	C6-N1-C1'	-6.33	112.34	121.20
36	1	1131	G	C5-C6-O6	-6.33	124.80	128.60
36	1	2618	G	N3-C4-C5	-6.33	125.44	128.60
36	1	92	G	C4-C5-N7	6.33	113.33	110.80
36	1	1140	G	N1-C2-N2	-6.33	110.51	116.20
36	1	1377	G	C8-N9-C4	6.33	108.93	106.40
36	5	2147	A	C6-C5-N7	-6.32	127.87	132.30
36	1	53	G	C5-C6-O6	6.32	132.39	128.60
36	5	3092	C	C6-N1-C2	6.32	122.83	120.30
36	1	914	A	N1-C6-N6	-6.32	114.81	118.60
36	5	708	G	C8-N9-C4	-6.32	103.87	106.40
36	5	1845	G	N3-C4-C5	-6.32	125.44	128.60
36	5	3140	G	N1-C6-O6	6.32	123.69	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	49	G	C5-C6-N1	-6.32	108.34	111.50
36	5	1178	G	C5-C6-O6	6.31	132.39	128.60
36	5	1316	C	N3-C4-C5	-6.31	119.38	121.90
36	1	934	G	C8-N9-C1'	-6.30	118.81	127.00
37	7	39	C	C6-N1-C2	-6.30	117.78	120.30
36	1	85	A	C2-N3-C4	-6.30	107.45	110.60
36	1	2846	U	N3-C2-O2	-6.30	117.79	122.20
36	5	964	G	N7-C8-N9	6.30	116.25	113.10
36	5	2231	C	O4'-C1'-N1	6.30	113.24	108.20
36	1	1604	G	C4-N9-C1'	6.29	134.68	126.50
36	1	3319	U	P-O3'-C3'	6.29	127.25	119.70
36	5	1200	A	C5-C6-N6	-6.29	118.67	123.70
36	1	2355	G	C6-C5-N7	-6.29	126.62	130.40
1	6	1102	G	N3-C4-C5	6.29	131.75	128.60
1	2	1280	C	C6-N1-C2	-6.28	117.79	120.30
1	2	1591	C	C6-N1-C2	-6.28	117.79	120.30
36	5	3245	A	C4-C5-N7	6.28	113.84	110.70
36	1	2851	A	N1-C6-N6	-6.28	114.83	118.60
36	5	1017	C	C5-C6-N1	6.28	124.14	121.00
36	1	80	G	C8-N9-C4	6.27	108.91	106.40
36	5	2379	U	N1-C2-N3	6.27	118.66	114.90
36	5	283	G	C5-N7-C8	-6.27	101.16	104.30
36	5	824	C	N3-C2-O2	-6.27	117.51	121.90
1	6	1187	U	C5-C6-N1	6.27	125.83	122.70
1	2	1052	U	N1-C2-O2	6.26	127.19	122.80
36	5	2816	G	N3-C4-C5	6.26	131.73	128.60
36	5	3050	U	N3-C4-O4	-6.26	115.02	119.40
36	5	788	C	C6-N1-C2	-6.25	117.80	120.30
1	6	1473	U	C2-N1-C1'	6.25	125.20	117.70
36	5	646	A	N1-C2-N3	6.24	132.42	129.30
36	1	2572	C	C2-N1-C1'	6.24	125.67	118.80
36	5	1548	C	N3-C2-O2	6.24	126.27	121.90
1	6	608	U	N3-C2-O2	-6.24	117.83	122.20
36	1	92	G	C5-C6-O6	-6.23	124.86	128.60
36	1	1309	U	N3-C2-O2	-6.23	117.84	122.20
36	1	874	U	O5'-P-OP1	-6.22	100.10	105.70
36	5	586	C	N3-C2-O2	6.22	126.25	121.90
36	5	3366	G	N3-C4-C5	-6.22	125.49	128.60
36	5	1142	G	C8-N9-C4	-6.22	103.91	106.40
1	2	1039	A	O4'-C1'-N9	6.21	113.17	108.20
36	1	1198	C	C6-N1-C2	-6.21	117.81	120.30
18	C6	40	GLU	C-N-CD	-6.21	106.93	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2816	G	C8-N9-C1'	6.21	135.07	127.00
37	7	93	C	O5'-P-OP2	-6.20	100.12	105.70
37	7	100	C	C6-N1-C2	6.20	122.78	120.30
1	2	1105	C	C6-N1-C2	-6.20	117.82	120.30
36	1	2624	G	C6-C5-N7	-6.20	126.68	130.40
36	5	2836	C	C4-C5-C6	6.20	120.50	117.40
38	8	80	A	C8-N9-C4	-6.20	103.32	105.80
1	2	639	U	N3-C2-O2	-6.20	117.86	122.20
36	1	1421	G	N3-C4-N9	6.20	129.72	126.00
36	1	2160	G	C4-C5-N7	-6.20	108.32	110.80
36	1	2257	C	O4'-C1'-N1	6.20	113.16	108.20
36	1	228	U	N3-C2-O2	-6.19	117.86	122.20
36	5	1199	C	C6-N1-C2	6.19	122.78	120.30
36	1	2728	G	N3-C4-C5	-6.19	125.50	128.60
36	5	1239	C	C5-C6-N1	6.19	124.09	121.00
36	1	1904	C	C6-N1-C2	-6.19	117.83	120.30
36	5	921	A	N9-C4-C5	6.18	108.27	105.80
36	1	2392	C	C6-N1-C2	6.18	122.77	120.30
36	1	3306	U	N3-C4-O4	-6.18	115.08	119.40
36	5	1169	A	N1-C6-N6	-6.18	114.89	118.60
36	1	1389	G	C4-C5-N7	6.17	113.27	110.80
36	5	718	G	C8-N9-C1'	-6.17	118.98	127.00
36	5	2231	C	N3-C4-C5	-6.17	119.43	121.90
36	5	3374	U	C5-C4-O4	6.17	129.60	125.90
36	1	3001	C	C6-N1-C2	6.17	122.77	120.30
36	5	390	G	C8-N9-C4	-6.16	103.94	106.40
36	1	1407	A	C5-N7-C8	6.16	106.98	103.90
36	5	798	G	C8-N9-C4	-6.15	103.94	106.40
36	5	2379	U	C5-C6-N1	-6.15	119.62	122.70
36	1	1835	A	N1-C6-N6	-6.15	114.91	118.60
36	1	1820	U	P-O3'-C3'	6.15	127.08	119.70
36	1	3344	A	N7-C8-N9	6.15	116.88	113.80
36	5	776	U	N3-C4-O4	-6.15	115.09	119.40
36	5	934	G	N3-C4-N9	6.15	129.69	126.00
1	6	1164	G	N9-C4-C5	-6.14	102.94	105.40
38	8	38	U	C2-N1-C1'	6.14	125.07	117.70
36	1	1380	G	N1-C6-O6	6.14	123.58	119.90
36	5	3050	U	C5-C4-O4	6.14	129.58	125.90
36	1	2434	U	N1-C2-O2	6.13	127.09	122.80
36	5	1004	U	N3-C4-O4	6.13	123.69	119.40
36	5	958	C	N3-C2-O2	-6.13	117.61	121.90
1	2	507	U	N3-C2-O2	-6.12	117.91	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	636	C	N3-C4-C5	6.12	124.35	121.90
36	5	2337	C	N1-C2-O2	6.12	122.57	118.90
1	2	736	C	C2-N1-C1'	6.12	125.53	118.80
36	1	2624	G	C8-N9-C4	-6.12	103.95	106.40
36	1	273	A	C8-N9-C4	6.12	108.25	105.80
36	5	1790	G	N1-C6-O6	6.12	123.57	119.90
36	1	1634	G	C8-N9-C4	-6.12	103.95	106.40
36	5	716	A	N9-C4-C5	-6.12	103.35	105.80
1	6	1698	G	P-O3'-C3'	6.11	127.03	119.70
36	1	1897	G	C4-C5-N7	6.11	113.24	110.80
1	2	421	A	C8-N9-C4	6.10	108.24	105.80
36	5	2964	G	C5-C6-O6	6.10	132.26	128.60
36	1	676	G	C4-N9-C1'	6.10	134.43	126.50
36	1	676	G	N3-C4-C5	-6.09	125.56	128.60
36	1	1140	G	N1-C2-N3	6.09	127.55	123.90
36	5	2996	U	N1-C2-O2	6.08	127.06	122.80
36	1	2816	G	C8-N9-C4	6.08	108.83	106.40
36	5	2385	G	C2-N3-C4	-6.08	108.86	111.90
36	1	1604	G	N3-C4-C5	-6.08	125.56	128.60
36	5	1192	C	C6-N1-C1'	-6.08	113.51	120.80
1	2	1051	G	P-O3'-C3'	6.07	126.99	119.70
36	5	2400	G	C4-C5-N7	6.07	113.23	110.80
36	5	2648	G	C2-N3-C4	-6.07	108.86	111.90
36	1	1365	G	C8-N9-C4	-6.07	103.97	106.40
36	1	2815	G	O5'-P-OP2	-6.07	100.24	105.70
36	5	776	U	C5-C6-N1	-6.07	119.67	122.70
36	1	2874	G	N7-C8-N9	-6.07	110.07	113.10
36	1	3028	G	C4-N9-C1'	6.07	134.39	126.50
38	4	125	U	N3-C2-O2	-6.07	117.95	122.20
36	1	2821	C	C6-N1-C2	6.07	122.73	120.30
36	5	1191	U	C2-N1-C1'	-6.06	110.42	117.70
36	1	2137	U	N3-C2-O2	-6.06	117.96	122.20
36	5	718	G	C6-C5-N7	-6.06	126.76	130.40
36	5	2403	G	C4-N9-C1'	6.06	134.38	126.50
36	1	2814	G	O5'-P-OP1	-6.06	100.25	105.70
36	5	82	C	C4-C5-C6	6.06	120.43	117.40
1	2	428	A	C8-N9-C4	-6.06	103.38	105.80
38	8	82	U	C5-C4-O4	6.06	129.53	125.90
36	5	393	U	C6-N1-C2	-6.05	117.37	121.00
1	6	1389	C	C6-N1-C1'	-6.05	113.54	120.80
36	1	282	G	N7-C8-N9	6.05	116.12	113.10
36	5	882	A	C6-N1-C2	-6.05	114.97	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2403	G	C6-C5-N7	-6.04	126.77	130.40
1	2	610	G	C4-N9-C1'	6.04	134.36	126.50
36	5	2819	A	O5'-P-OP2	-6.04	100.26	105.70
36	5	2992	U	O5'-P-OP2	-6.04	100.26	105.70
53	m7	3	ARG	NE-CZ-NH2	-6.04	117.28	120.30
36	5	2968	G	N1-C6-O6	-6.04	116.28	119.90
36	1	350	C	N1-C2-O2	6.03	122.52	118.90
1	6	1490	C	O5'-P-OP1	-6.03	100.27	105.70
36	1	3170	A	C8-N9-C4	-6.03	103.39	105.80
37	7	101	G	C6-C5-N7	-6.03	126.78	130.40
1	2	73	U	P-O3'-C3'	6.03	126.93	119.70
36	1	684	G	C4-C5-N7	6.03	113.21	110.80
36	5	2164	A	C8-N9-C4	-6.03	103.39	105.80
36	5	2825	C	C6-N1-C2	6.03	122.71	120.30
36	1	3209	A	N1-C6-N6	6.02	122.21	118.60
36	1	2831	G	N1-C6-O6	6.02	123.51	119.90
36	1	29	C	C6-N1-C2	6.01	122.71	120.30
44	17	83	LEU	CA-CB-CG	6.01	129.13	115.30
36	5	1152	G	N7-C8-N9	6.01	116.10	113.10
36	1	2245	C	C6-N1-C2	-6.01	117.90	120.30
36	5	2935	U	O5'-P-OP2	-6.01	100.30	105.70
1	6	1347	U	N1-C2-O2	-6.00	118.60	122.80
36	5	2362	C	N3-C4-N4	-6.00	113.80	118.00
1	6	163	G	N9-C4-C5	6.00	107.80	105.40
1	6	1000	C	N3-C2-O2	-6.00	117.70	121.90
36	5	1604	G	C8-N9-C1'	-6.00	119.20	127.00
1	2	1198	G	C8-N9-C4	-6.00	104.00	106.40
36	1	2899	C	N3-C2-O2	-6.00	117.70	121.90
36	1	2434	U	N3-C2-O2	-5.99	118.00	122.20
36	5	942	U	C5-C6-N1	5.99	125.70	122.70
36	1	1201	C	N3-C4-N4	5.99	122.19	118.00
36	5	406	G	O4'-C1'-N9	5.99	112.99	108.20
1	2	507	U	N1-C2-O2	5.99	126.99	122.80
1	6	151	G	N3-C2-N2	-5.99	115.71	119.90
36	5	630	A	C2-N3-C4	-5.99	107.61	110.60
36	1	2903	A	C8-N9-C4	5.98	108.19	105.80
36	1	3028	G	C8-N9-C1'	-5.98	119.22	127.00
36	5	1366	A	N1-C6-N6	-5.98	115.01	118.60
36	5	2552	C	N1-C2-O2	5.98	122.49	118.90
36	5	2643	A	C8-N9-C4	5.98	108.19	105.80
36	1	1835	A	P-O3'-C3'	5.98	126.87	119.70
36	1	2344	U	C5-C6-N1	-5.97	119.72	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3277	U	N3-C2-O2	-5.97	118.02	122.20
1	6	472	U	C2-N3-C4	-5.97	123.42	127.00
1	6	1010	C	C6-N1-C2	-5.97	117.91	120.30
36	5	3052	G	N3-C4-N9	-5.96	122.42	126.00
36	5	3000	A	C8-N9-C4	5.96	108.18	105.80
36	5	36	C	C6-N1-C2	-5.96	117.92	120.30
36	5	1914	G	C8-N9-C4	-5.96	104.02	106.40
1	6	363	G	N1-C6-O6	5.96	123.47	119.90
36	5	2941	A	C6-N1-C2	-5.95	115.03	118.60
36	1	1790	G	N1-C6-O6	5.95	123.47	119.90
1	6	472	U	N1-C2-N3	5.95	118.47	114.90
1	2	386	G	N1-C6-O6	-5.95	116.33	119.90
1	6	1537	C	C6-N1-C1'	5.95	127.94	120.80
36	1	1407	A	N7-C8-N9	-5.95	110.83	113.80
36	5	2825	C	C5-C4-N4	-5.95	116.04	120.20
37	7	49	G	C4-C5-C6	5.95	122.37	118.80
1	2	1761	U	C6-N1-C2	-5.94	117.44	121.00
36	5	2899	C	C2-N1-C1'	5.94	125.34	118.80
1	2	1762	A	C2-N3-C4	-5.94	107.63	110.60
36	1	2711	C	N3-C4-C5	-5.93	119.53	121.90
36	5	277	G	C8-N9-C4	5.93	108.77	106.40
36	1	981	U	C5-C6-N1	5.93	125.66	122.70
36	5	1592	G	C5-C6-N1	-5.93	108.53	111.50
48	m1	112	LEU	CA-CB-CG	5.93	128.94	115.30
38	4	85	G	C8-N9-C4	-5.93	104.03	106.40
36	5	648	C	C2-N1-C1'	5.93	125.32	118.80
36	5	2199	G	C5-C6-N1	-5.93	108.54	111.50
36	5	2822	U	N3-C4-O4	5.93	123.55	119.40
36	1	651	G	N3-C4-C5	-5.92	125.64	128.60
36	1	2827	U	N3-C4-O4	-5.92	115.25	119.40
36	5	358	G	N3-C4-N9	-5.92	122.44	126.00
36	5	1116	G	N3-C4-C5	-5.92	125.64	128.60
1	2	1568	C	P-O3'-C3'	5.92	126.81	119.70
36	5	107	A	N1-C6-N6	-5.92	115.05	118.60
36	1	2871	G	C8-N9-C1'	5.92	134.69	127.00
36	5	2859	U	C6-N1-C2	5.92	124.55	121.00
36	1	2427	U	N3-C4-O4	-5.92	115.26	119.40
36	5	425	G	C8-N9-C4	5.92	108.77	106.40
1	6	402	C	O5'-P-OP2	-5.91	100.38	105.70
36	5	1222	G	P-O3'-C3'	5.91	126.80	119.70
36	5	91	G	N1-C6-O6	5.91	123.44	119.90
36	5	2395	G	C5-N7-C8	-5.91	101.35	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2629	U	N3-C2-O2	5.90	126.33	122.20
36	5	329	U	N3-C2-O2	-5.90	118.07	122.20
36	5	2506	U	C5-C6-N1	5.90	125.65	122.70
36	1	343	U	C4-C5-C6	5.90	123.24	119.70
36	1	2160	G	C8-N9-C4	-5.90	104.04	106.40
1	2	720	G	OP1-P-O3'	5.90	118.17	105.20
36	5	406	G	C4-N9-C1'	-5.90	118.83	126.50
36	5	1115	G	C4-N9-C1'	5.89	134.16	126.50
36	5	2395	G	N3-C4-C5	5.89	131.55	128.60
36	1	2871	G	N3-C4-C5	5.89	131.55	128.60
36	5	1371	G	O5'-P-OP2	-5.89	100.40	105.70
36	5	3045	G	N1-C6-O6	5.89	123.44	119.90
36	1	2871	G	N3-C4-N9	-5.89	122.47	126.00
36	5	2128	C	N3-C4-C5	5.89	124.26	121.90
36	1	2855	U	C5-C6-N1	-5.89	119.76	122.70
36	5	919	U	C5-C6-N1	-5.89	119.76	122.70
36	5	2281	A	O4'-C1'-N9	5.89	112.91	108.20
36	5	2356	A	C2-N3-C4	-5.89	107.66	110.60
36	5	2617	U	O5'-P-OP2	-5.89	100.40	105.70
36	5	2392	C	N3-C4-C5	5.88	124.25	121.90
36	5	344	A	O5'-P-OP1	-5.88	100.41	105.70
36	5	2874	G	P-O3'-C3'	5.88	126.76	119.70
36	5	2663	G	C4-C5-N7	5.88	113.15	110.80
1	6	765	G	C8-N9-C4	5.88	108.75	106.40
1	2	610	G	C8-N9-C1'	-5.88	119.36	127.00
1	2	1389	C	C2-N1-C1'	5.87	125.26	118.80
36	5	2377	G	C5-C6-N1	5.87	114.44	111.50
36	1	2874	G	C8-N9-C4	5.87	108.75	106.40
1	6	747	C	C6-N1-C2	-5.87	117.95	120.30
36	5	884	A	C2-N3-C4	-5.87	107.67	110.60
1	6	620	A	N9-C4-C5	5.87	108.15	105.80
36	5	2584	G	C4-N9-C1'	5.87	134.13	126.50
36	5	1211	U	N3-C4-C5	5.87	118.12	114.60
36	1	2624	G	C5-C6-O6	-5.87	125.08	128.60
1	2	730	G	C4-N9-C1'	5.86	134.12	126.50
36	1	320	G	C4-N9-C1'	-5.86	118.88	126.50
36	1	1346	G	C2-N3-C4	-5.86	108.97	111.90
36	5	1604	G	N3-C4-C5	-5.86	125.67	128.60
36	1	1450	G	C5-N7-C8	-5.86	101.37	104.30
36	1	2651	G	N7-C8-N9	-5.86	110.17	113.10
36	5	2816	G	N3-C4-N9	-5.86	122.49	126.00
36	5	2915	U	C6-N1-C2	5.86	124.52	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1720	U	C5-C4-O4	5.86	129.41	125.90
36	1	2870	C	C2-N1-C1'	-5.85	112.36	118.80
36	1	859	G	C6-C5-N7	-5.85	126.89	130.40
36	1	2206	G	N1-C6-O6	5.85	123.41	119.90
36	1	2275	A	O5'-P-OP1	-5.85	100.43	105.70
36	5	3245	A	C5-C6-N1	-5.85	114.78	117.70
36	1	672	A	N3-C4-C5	5.85	130.89	126.80
36	1	1899	G	N1-C6-O6	-5.85	116.39	119.90
36	5	1004	U	N3-C4-C5	-5.85	111.09	114.60
36	1	888	A	C8-N9-C4	5.84	108.14	105.80
36	5	2293	C	C5-C4-N4	-5.84	116.11	120.20
1	2	1600	A	N1-C2-N3	5.84	132.22	129.30
36	1	1165	A	N7-C8-N9	-5.83	110.88	113.80
1	2	75	U	N1-C2-O2	5.83	126.88	122.80
36	1	2874	G	N9-C1'-C2'	5.83	121.58	114.00
36	1	2121	G	N1-C6-O6	-5.83	116.40	119.90
36	5	3036	G	N1-C2-N3	5.83	127.40	123.90
36	1	2764	C	N3-C4-N4	5.83	122.08	118.00
1	6	1581	C	N3-C4-C5	5.83	124.23	121.90
36	5	919	U	OP1-P-OP2	-5.83	110.86	119.60
36	1	2613	U	O5'-P-OP2	-5.82	100.46	105.70
36	5	1392	G	C8-N9-C4	5.82	108.73	106.40
36	5	1433	A	N1-C6-N6	-5.82	115.11	118.60
36	5	788	C	N3-C4-C5	-5.82	119.57	121.90
36	5	1016	C	O5'-P-OP1	-5.82	100.46	105.70
36	1	2623	G	C2-N3-C4	-5.82	108.99	111.90
36	1	2344	U	O5'-P-OP2	-5.82	100.47	105.70
1	6	1700	C	C2-N1-C1'	5.82	125.20	118.80
36	1	901	G	N1-C6-O6	5.81	123.39	119.90
36	1	2620	G	N1-C6-O6	5.81	123.39	119.90
36	5	1046	A	O5'-P-OP1	-5.81	100.47	105.70
36	5	1188	U	N1-C2-N3	5.81	118.39	114.90
36	5	2355	G	C2-N3-C4	-5.81	108.99	111.90
36	5	1364	C	OP2-P-O3'	5.81	117.99	105.20
36	5	2899	C	N3-C2-O2	-5.81	117.83	121.90
15	C3	22	ALA	C-N-CD	-5.81	107.82	120.60
36	1	23	A	C5-C6-N6	-5.81	119.05	123.70
36	5	1496	C	C2-N1-C1'	5.81	125.19	118.80
36	5	2305	G	C8-N9-C4	-5.81	104.08	106.40
36	5	2951	G	O5'-P-OP1	-5.80	100.48	105.70
36	1	1139	G	C5-C6-N1	-5.80	108.60	111.50
36	1	2831	G	C5-C6-N1	-5.80	108.60	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	358	U	O5'-P-OP1	-5.80	100.48	105.70
36	1	324	A	N1-C2-N3	5.80	132.20	129.30
36	1	1191	U	C2-N1-C1'	-5.80	110.74	117.70
36	5	2411	U	C6-N1-C2	5.80	124.48	121.00
36	5	2373	A	C2-N3-C4	5.80	113.50	110.60
36	1	24	G	C8-N9-C1'	-5.80	119.46	127.00
36	1	2367	A	C5-C6-N6	-5.80	119.06	123.70
36	5	1766	G	C4-C5-N7	5.79	113.12	110.80
36	5	2753	G	C4-C5-N7	5.79	113.12	110.80
36	5	2950	G	C8-N9-C4	-5.79	104.08	106.40
36	1	2784	G	N1-C6-O6	-5.79	116.43	119.90
36	5	1177	G	N1-C6-O6	-5.79	116.43	119.90
36	1	3214	U	C2-N1-C1'	5.79	124.65	117.70
36	1	3217	C	N1-C2-O2	5.79	122.37	118.90
36	5	1437	C	C5-C6-N1	5.79	123.89	121.00
36	1	3306	U	N3-C2-O2	-5.79	118.15	122.20
37	3	93	C	N1-C2-O2	5.78	122.37	118.90
36	5	46	U	C5-C4-O4	-5.78	122.43	125.90
36	5	824	C	N1-C2-O2	5.78	122.37	118.90
36	5	2403	G	O5'-P-OP2	-5.78	100.50	105.70
36	5	2608	G	N1-C6-O6	5.78	123.37	119.90
36	1	406	G	O4'-C1'-N9	5.78	112.83	108.20
36	1	1167	U	C5-C6-N1	-5.78	119.81	122.70
36	1	28	C	C6-N1-C2	5.78	122.61	120.30
36	5	2797	C	C6-N1-C2	-5.78	117.99	120.30
36	5	92	G	C5-C6-N1	5.78	114.39	111.50
36	1	1201	C	C6-N1-C2	-5.78	117.99	120.30
36	5	216	G	N1-C6-O6	5.78	123.37	119.90
36	5	880	G	N7-C8-N9	-5.78	110.21	113.10
36	1	1115	G	N7-C8-N9	5.77	115.99	113.10
36	1	634	C	C6-N1-C2	5.77	122.61	120.30
36	1	3269	U	N1-C2-O2	5.77	126.84	122.80
36	5	200	C	N3-C4-N4	5.77	122.04	118.00
36	1	1404	G	N3-C4-N9	-5.77	122.54	126.00
36	1	2618	G	N9-C4-C5	5.77	107.71	105.40
36	5	929	A	O5'-P-OP2	-5.77	100.51	105.70
36	5	2192	C	C6-N1-C2	-5.77	117.99	120.30
36	5	1149	G	C4-N9-C1'	5.77	134.00	126.50
36	1	1793	C	N1-C2-O2	5.76	122.36	118.90
36	5	2289	U	N1-C2-O2	5.76	126.83	122.80
36	1	702	C	N3-C2-O2	-5.76	117.87	121.90
36	1	1320	C	C6-N1-C2	-5.76	118.00	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	440	U	N1-C2-N3	5.76	118.36	114.90
1	6	1389	C	C5-C6-N1	5.76	123.88	121.00
36	1	1269	U	N3-C2-O2	-5.76	118.17	122.20
36	5	3214	U	N3-C2-O2	-5.76	118.17	122.20
36	1	1351	U	C5-C6-N1	5.76	125.58	122.70
36	1	1592	G	C5-C6-N1	-5.76	108.62	111.50
36	1	1868	G	N3-C4-C5	-5.76	125.72	128.60
36	5	32	U	N1-C2-N3	5.75	118.35	114.90
36	5	360	G	N3-C4-C5	-5.75	125.72	128.60
36	5	364	G	N9-C4-C5	-5.75	103.10	105.40
36	1	1838	G	C5-C6-O6	-5.75	125.15	128.60
36	1	1119	C	C6-N1-C2	5.75	122.60	120.30
36	5	2526	C	N3-C2-O2	-5.75	117.88	121.90
36	1	676	G	N7-C8-N9	5.75	115.97	113.10
36	5	1901	A	N1-C6-N6	-5.75	115.15	118.60
36	5	3216	G	N3-C4-N9	5.75	129.45	126.00
36	1	350	C	N3-C2-O2	-5.75	117.88	121.90
36	1	1469	C	N3-C2-O2	-5.75	117.88	121.90
36	1	2661	G	C6-C5-N7	-5.74	126.95	130.40
1	6	609	U	C5-C6-N1	-5.74	119.83	122.70
36	1	187	A	C8-N9-C4	-5.74	103.50	105.80
1	6	610	G	C8-N9-C1'	-5.74	119.54	127.00
36	5	948	C	N3-C4-C5	5.74	124.20	121.90
24	D2	93	LEU	CA-CB-CG	5.74	128.50	115.30
36	1	1421	G	N9-C4-C5	-5.74	103.11	105.40
41	L4	327	LEU	CA-CB-CG	5.74	128.50	115.30
36	1	937	G	C2-N3-C4	-5.74	109.03	111.90
36	5	1307	G	P-O3'-C3'	5.74	126.58	119.70
1	2	728	U	N1-C2-O2	5.73	126.81	122.80
36	5	383	G	N1-C6-O6	5.73	123.34	119.90
1	6	1027	A	C2-N3-C4	-5.73	107.73	110.60
36	5	1367	G	C4-C5-C6	5.73	122.24	118.80
36	1	2418	G	N9-C4-C5	-5.73	103.11	105.40
36	1	2983	C	C5-C4-N4	5.73	124.21	120.20
36	5	2852	C	C6-N1-C2	5.73	122.59	120.30
36	5	3000	A	N1-C6-N6	5.73	122.04	118.60
38	8	135	G	C8-N9-C4	5.73	108.69	106.40
36	5	2936	A	C2-N3-C4	5.73	113.46	110.60
1	2	694	U	C2-N1-C1'	5.72	124.57	117.70
36	5	3246	G	C4-N9-C1'	5.72	133.94	126.50
1	2	1280	C	N3-C4-C5	-5.72	119.61	121.90
36	5	3154	C	C6-N1-C1'	-5.72	113.93	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	661	G	C6-C5-N7	-5.72	126.97	130.40
36	1	1110	U	C5-C4-O4	-5.72	122.47	125.90
36	5	3362	A	O4'-C1'-N9	5.72	112.77	108.20
1	2	1600	A	O4'-C1'-N9	5.72	112.77	108.20
36	1	636	C	N1-C2-O2	5.72	122.33	118.90
36	1	2541	U	P-O3'-C3'	5.71	126.56	119.70
36	5	888	A	N1-C6-N6	5.71	122.03	118.60
36	5	2283	G	N1-C6-O6	5.71	123.33	119.90
36	5	2648	G	N3-C4-N9	-5.71	122.57	126.00
36	5	2405	C	N3-C2-O2	-5.71	117.90	121.90
1	6	1773	C	N3-C4-C5	-5.71	119.62	121.90
36	5	561	C	C6-N1-C2	-5.71	118.02	120.30
36	5	1178	G	N3-C4-C5	-5.71	125.75	128.60
36	5	1396	C	C6-N1-C2	5.71	122.58	120.30
36	5	1481	A	C8-N9-C4	-5.71	103.52	105.80
36	5	364	G	C4-C5-N7	5.71	113.08	110.80
36	5	1927	G	C6-C5-N7	-5.71	126.98	130.40
36	1	2284	C	N1-C2-O2	5.70	122.32	118.90
36	5	1116	G	O5'-P-OP1	-5.70	100.57	105.70
36	5	2816	G	N1-C6-O6	5.70	123.32	119.90
1	6	25	C	OP2-P-O3'	5.70	117.73	105.20
36	1	105	C	C6-N1-C2	5.70	122.58	120.30
36	5	3246	G	C8-N9-C1'	-5.69	119.60	127.00
36	1	1838	G	C4-C5-N7	5.69	113.08	110.80
36	1	2137	U	C2-N1-C1'	5.69	124.53	117.70
1	6	1389	C	N1-C2-O2	5.69	122.31	118.90
36	5	2287	C	C6-N1-C2	-5.69	118.02	120.30
1	2	1456	C	C2-N1-C1'	5.69	125.06	118.80
36	1	2194	G	N1-C6-O6	5.69	123.31	119.90
36	5	43	A	O4'-C1'-N9	5.69	112.75	108.20
36	1	2306	C	N3-C2-O2	-5.69	117.92	121.90
36	1	1404	G	N3-C4-C5	5.69	131.44	128.60
3	S1	181	LEU	CA-CB-CG	5.68	128.38	115.30
36	1	684	G	C5-C6-O6	-5.68	125.19	128.60
36	1	917	A	O5'-P-OP2	-5.68	100.59	105.70
36	5	2816	G	C4-N9-C1'	-5.68	119.11	126.50
1	6	1560	U	N3-C2-O2	-5.68	118.22	122.20
36	1	1496	C	N1-C2-O2	5.68	122.31	118.90
36	1	947	G	C5-C6-N1	-5.68	108.66	111.50
36	1	1508	C	N3-C4-C5	-5.68	119.63	121.90
1	6	1097	U	P-O3'-C3'	5.68	126.51	119.70
37	7	101	G	N1-C6-O6	5.68	123.31	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2341	A	C8-N9-C4	5.68	108.07	105.80
36	5	3128	G	C4-C5-N7	5.68	113.07	110.80
36	1	2618	G	C4-C5-N7	-5.67	108.53	110.80
36	5	2552	C	C2-N1-C1'	5.67	125.04	118.80
36	5	2996	U	N1-C2-N3	-5.67	111.50	114.90
36	5	1438	U	C6-N1-C2	-5.67	117.60	121.00
38	8	158	U	O4'-C1'-N1	5.67	112.74	108.20
36	1	640	U	N3-C4-O4	5.67	123.37	119.40
36	5	112	U	O4'-C1'-N1	5.67	112.73	108.20
36	5	1434	G	C5-C6-O6	-5.67	125.20	128.60
36	5	2156	C	C6-N1-C2	5.67	122.57	120.30
36	5	2847	A	C8-N9-C4	5.67	108.07	105.80
61	N5	38	LEU	CA-CB-CG	5.67	128.33	115.30
1	6	123	G	C8-N9-C4	-5.66	104.14	106.40
6	s4	38	LEU	CA-CB-CG	5.66	128.32	115.30
1	6	1340	U	N3-C2-O2	-5.66	118.24	122.20
1	2	158	U	P-O3'-C3'	5.66	126.49	119.70
36	5	3181	C	N1-C2-O2	5.66	122.29	118.90
36	1	386	A	N1-C6-N6	5.65	121.99	118.60
1	6	1782	A	C8-N9-C4	-5.65	103.54	105.80
36	5	46	U	N3-C4-O4	5.65	123.36	119.40
36	5	2355	G	C6-C5-N7	-5.65	127.01	130.40
36	5	2699	G	N9-C4-C5	-5.65	103.14	105.40
1	2	1761	U	P-O3'-C3'	5.65	126.48	119.70
49	M3	172	LEU	CA-CB-CG	-5.65	102.31	115.30
36	1	2902	A	C8-N9-C4	5.64	108.06	105.80
1	6	617	U	C6-N1-C2	-5.64	117.61	121.00
36	5	940	G	N1-C6-O6	-5.64	116.51	119.90
36	5	2825	C	N3-C2-O2	5.64	125.85	121.90
36	5	2764	C	C5-C4-N4	-5.64	116.25	120.20
36	5	3214	U	C2-N1-C1'	5.64	124.47	117.70
36	1	2874	G	C4-C5-C6	-5.64	115.42	118.80
36	1	2871	G	C5-N7-C8	-5.64	101.48	104.30
36	1	2426	U	C5-C4-O4	5.63	129.28	125.90
1	6	1102	G	C4-N9-C1'	-5.63	119.18	126.50
36	5	3154	C	C6-N1-C2	-5.63	118.05	120.30
36	1	1205	A	N7-C8-N9	-5.63	110.98	113.80
36	1	2761	G	C5-N7-C8	5.63	107.11	104.30
20	c8	15	LEU	CA-CB-CG	5.63	128.25	115.30
36	1	1305	U	C5-C6-N1	-5.62	119.89	122.70
1	6	96	G	C8-N9-C4	-5.62	104.15	106.40
37	7	41	G	N1-C6-O6	5.62	123.27	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	374	U	O5'-P-OP2	-5.62	100.64	105.70
36	5	1192	C	C6-N1-C2	-5.62	118.05	120.30
36	1	2935	U	C5-C6-N1	5.62	125.51	122.70
1	6	904	G	N3-C4-C5	-5.62	125.79	128.60
36	1	776	U	C5-C6-N1	-5.62	119.89	122.70
36	5	1295	G	C2-N3-C4	-5.62	109.09	111.90
36	1	1655	G	C8-N9-C4	5.61	108.64	106.40
36	5	646	A	N9-C4-C5	5.61	108.05	105.80
36	1	1794	G	N1-C6-O6	5.61	123.27	119.90
36	5	1317	A	C5-C6-N6	-5.61	119.21	123.70
1	6	1185	U	C2-N1-C1'	5.61	124.43	117.70
36	1	1062	A	N1-C6-N6	5.61	121.96	118.60
36	5	767	U	O4'-C1'-N1	5.61	112.69	108.20
36	5	1157	G	O5'-P-OP1	-5.61	100.65	105.70
36	1	2377	G	C6-N1-C2	-5.61	121.74	125.10
36	5	1390	A	N1-C6-N6	-5.61	115.24	118.60
36	5	1931	U	C5-C6-N1	-5.61	119.90	122.70
36	1	1716	U	P-O3'-C3'	5.60	126.42	119.70
36	1	3194	C	C6-N1-C2	-5.60	118.06	120.30
1	6	144	U	C6-N1-C2	-5.60	117.64	121.00
36	5	330	G	C8-N9-C4	5.60	108.64	106.40
36	1	936	A	C2-N3-C4	-5.60	107.80	110.60
36	5	2683	U	C5-C4-O4	-5.60	122.54	125.90
41	14	339	LEU	CA-CB-CG	5.60	128.18	115.30
36	5	816	A	N9-C4-C5	5.60	108.04	105.80
36	5	2954	U	O4'-C1'-N1	5.60	112.68	108.20
36	1	1352	A	P-O3'-C3'	5.59	126.41	119.70
36	1	2802	A	OP2-P-O3'	5.59	117.51	105.20
1	6	646	C	C6-N1-C2	-5.59	118.06	120.30
36	5	1142	G	N1-C6-O6	-5.59	116.54	119.90
36	5	248	U	C2-N1-C1'	5.59	124.41	117.70
36	5	1117	G	C8-N9-C4	5.59	108.64	106.40
36	1	343	U	C5-C6-N1	-5.59	119.90	122.70
36	1	2281	A	O4'-C1'-N9	5.59	112.67	108.20
36	5	65	A	P-O3'-C3'	5.59	126.41	119.70
36	5	1420	C	C2-N1-C1'	-5.59	112.65	118.80
36	5	1434	G	C5-N7-C8	-5.59	101.51	104.30
36	5	2572	C	C6-N1-C1'	-5.59	114.09	120.80
1	2	75	U	N3-C2-O2	-5.59	118.29	122.20
36	5	718	G	O4'-C1'-N9	5.58	112.67	108.20
36	5	1362	G	N1-C6-O6	-5.58	116.55	119.90
1	6	1670	G	N3-C4-C5	-5.58	125.81	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	859	G	C5-C6-O6	-5.58	125.25	128.60
37	7	117	A	C8-N9-C4	5.58	108.03	105.80
36	5	2842	U	N3-C2-O2	-5.58	118.29	122.20
36	1	981	U	C6-N1-C2	-5.58	117.65	121.00
36	1	1174	G	C4-N9-C1'	5.58	133.75	126.50
1	6	1776	A	C8-N9-C4	-5.58	103.57	105.80
36	5	2679	A	C8-N9-C4	5.58	108.03	105.80
36	5	1770	G	C4-N9-C1'	5.57	133.74	126.50
36	5	2147	A	C5-C6-N6	-5.57	119.24	123.70
36	1	1432	C	N1-C2-O2	-5.57	115.56	118.90
1	6	3	U	C5-C6-N1	-5.57	119.92	122.70
36	5	1495	U	O4'-C1'-N1	5.57	112.65	108.20
37	7	87	G	N1-C6-O6	5.57	123.24	119.90
1	2	1274	C	C2-N1-C1'	5.56	124.92	118.80
36	5	964	G	N3-C4-C5	-5.56	125.82	128.60
36	5	1151	U	N3-C4-O4	5.56	123.30	119.40
36	5	1202	A	N7-C8-N9	5.56	116.58	113.80
1	2	734	A	OP1-P-O3'	5.56	117.44	105.20
36	1	3338	C	C5-C6-N1	5.56	123.78	121.00
36	1	2900	A	C8-N9-C4	5.56	108.02	105.80
36	5	3354	U	N1-C2-O2	5.56	126.69	122.80
1	2	1651	A	C2-N3-C4	-5.56	107.82	110.60
36	1	924	G	N3-C2-N2	5.56	123.79	119.90
1	2	734	A	P-O3'-C3'	5.55	126.36	119.70
36	1	2870	C	C6-N1-C1'	5.55	127.47	120.80
36	5	966	U	C6-N1-C2	-5.55	117.67	121.00
78	q2	17	CYS	CA-CB-SG	5.55	124.00	114.00
36	5	2899	C	C4-C5-C6	5.55	120.18	117.40
36	1	2355	G	C4-C5-C6	5.55	122.13	118.80
36	5	95	A	N1-C6-N6	-5.55	115.27	118.60
36	5	2874	G	C8-N9-C1'	5.55	134.21	127.00
1	2	1114	G	C4-C5-N7	5.55	113.02	110.80
36	1	646	A	O5'-P-OP2	-5.55	100.71	105.70
1	6	813	U	C6-N1-C1'	-5.55	113.43	121.20
36	1	3344	A	C8-N9-C4	-5.55	103.58	105.80
36	5	2282	U	C5-C6-N1	-5.55	119.93	122.70
36	1	1124	U	N3-C4-O4	-5.54	115.52	119.40
36	1	1149	G	C5-C6-N1	-5.54	108.73	111.50
36	1	924	G	N3-C4-C5	-5.54	125.83	128.60
36	1	946	U	O5'-P-OP2	-5.54	100.71	105.70
36	5	1156	C	C2-N1-C1'	5.54	124.89	118.80
36	5	1488	G	C8-N9-C4	-5.54	104.18	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2152	A	N1-C6-N6	-5.54	115.28	118.60
1	6	568	G	N1-C6-O6	-5.54	116.58	119.90
36	5	1878	G	C4-N9-C1'	5.54	133.70	126.50
36	5	2288	G	C6-C5-N7	-5.54	127.08	130.40
36	5	2985	C	N1-C2-O2	-5.54	115.58	118.90
36	1	1883	A	C6-N1-C2	-5.54	115.28	118.60
36	1	1905	G	C5-C6-N1	-5.54	108.73	111.50
36	5	742	G	N3-C4-N9	5.54	129.32	126.00
36	5	1328	C	C6-N1-C2	-5.53	118.09	120.30
36	1	1838	G	N1-C6-O6	5.53	123.22	119.90
36	1	3195	U	P-O3'-C3'	5.53	126.34	119.70
36	1	1149	G	C5-C6-O6	-5.53	125.28	128.60
1	2	356	G	N1-C6-O6	5.53	123.22	119.90
36	1	611	A	N1-C6-N6	5.53	121.92	118.60
36	5	1112	A	OP1-P-OP2	-5.52	111.31	119.60
36	5	3216	G	C8-N9-C1'	-5.52	119.82	127.00
1	6	1085	G	N3-C4-N9	-5.52	122.69	126.00
36	1	2756	C	N1-C2-O2	-5.52	115.59	118.90
36	1	702	C	C6-N1-C2	-5.52	118.09	120.30
36	1	2679	A	N1-C2-N3	5.52	132.06	129.30
1	6	36	C	C6-N1-C2	5.51	122.50	120.30
36	5	1481	A	P-O3'-C3'	5.51	126.32	119.70
1	2	1456	C	O4'-C1'-N1	5.51	112.61	108.20
36	1	672	A	C2-N3-C4	-5.51	107.84	110.60
1	6	1164	G	N1-C6-O6	5.51	123.21	119.90
36	5	1856	C	C6-N1-C2	-5.51	118.09	120.30
36	5	1548	C	N1-C2-O2	-5.51	115.59	118.90
36	1	124	U	N3-C2-O2	-5.51	118.34	122.20
36	1	2306	C	C5-C6-N1	5.51	123.75	121.00
36	5	88	A	C2-N3-C4	-5.51	107.85	110.60
36	1	2711	C	C6-N1-C2	-5.51	118.10	120.30
36	5	1507	G	C2-N3-C4	-5.51	109.15	111.90
36	5	1367	G	C4-N9-C1'	5.50	133.66	126.50
1	2	1573	A	P-O3'-C3'	5.50	126.30	119.70
36	1	2424	A	C8-N9-C4	5.50	108.00	105.80
36	1	588	G	C8-N9-C4	-5.50	104.20	106.40
36	1	1062	A	C6-C5-N7	-5.50	128.45	132.30
36	5	716	A	C5-C6-N6	-5.50	119.30	123.70
36	1	606	C	C5-C6-N1	-5.50	118.25	121.00
36	1	1196	C	N1-C2-O2	5.50	122.20	118.90
1	6	158	U	P-O3'-C3'	5.50	126.29	119.70
36	1	2631	U	N3-C2-O2	-5.49	118.36	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3169	U	P-O3'-C3'	5.49	126.29	119.70
36	5	2231	C	C2-N1-C1'	5.49	124.84	118.80
38	4	53	A	C2-N3-C4	5.49	113.34	110.60
36	5	2164	A	N9-C4-C5	5.49	108.00	105.80
36	1	895	A	N1-C6-N6	5.49	121.89	118.60
36	1	2807	U	N1-C2-O2	-5.49	118.96	122.80
36	5	1554	U	N1-C2-O2	5.49	126.64	122.80
36	5	1897	G	C5-C6-N1	-5.49	108.76	111.50
36	5	3028	G	N3-C4-N9	5.49	129.29	126.00
36	5	3190	C	C6-N1-C2	-5.49	118.11	120.30
38	8	33	A	N1-C2-N3	-5.49	126.56	129.30
36	1	746	A	C8-N9-C4	-5.48	103.61	105.80
36	1	2345	A	O5'-P-OP2	-5.48	100.77	105.70
36	5	636	C	C6-N1-C2	5.48	122.49	120.30
36	5	106	A	C8-N9-C4	5.48	107.99	105.80
36	5	2957	G	N1-C2-N2	-5.48	111.27	116.20
36	5	912	G	N1-C6-O6	-5.48	116.61	119.90
36	5	2874	G	OP1-P-O3'	5.48	117.25	105.20
36	1	685	G	C5-C6-N1	-5.48	108.76	111.50
36	1	2981	U	C5-C4-O4	-5.48	122.61	125.90
1	6	163	G	N3-C4-C5	5.48	131.34	128.60
36	1	340	C	C6-N1-C2	-5.47	118.11	120.30
1	6	904	G	N3-C4-N9	5.47	129.28	126.00
36	1	699	A	C5-N7-C8	-5.47	101.16	103.90
36	1	819	U	C5-C6-N1	-5.47	119.96	122.70
36	1	1515	A	N1-C6-N6	5.47	121.88	118.60
38	4	82	U	C5-C6-N1	5.47	125.44	122.70
36	5	3277	U	C5-C6-N1	5.47	125.44	122.70
36	1	1604	G	C8-N9-C4	-5.47	104.21	106.40
36	5	2156	C	C5-C6-N1	-5.47	118.26	121.00
36	5	2325	G	C4-C5-N7	5.47	112.99	110.80
36	1	2197	C	C6-N1-C2	5.47	122.49	120.30
36	1	2623	G	C4-C5-N7	5.47	112.99	110.80
36	5	1449	A	N1-C6-N6	5.46	121.88	118.60
36	1	59	G	C8-N9-C4	-5.46	104.22	106.40
36	1	952	A	C8-N9-C4	5.46	107.98	105.80
36	1	3175	U	N1-C2-O2	5.46	126.62	122.80
36	5	1495	U	OP1-P-O3'	5.46	117.21	105.20
36	1	2623	G	N1-C6-O6	5.46	123.17	119.90
36	5	1300	G	C4-C5-N7	5.46	112.98	110.80
36	5	2624	G	N1-C6-O6	5.46	123.17	119.90
1	6	1743	U	C6-N1-C2	-5.46	117.73	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1600	A	C2-N3-C4	-5.46	107.87	110.60
36	5	425	G	C2-N3-C4	-5.46	109.17	111.90
36	5	2354	C	N1-C2-O2	-5.46	115.63	118.90
36	1	1838	G	N9-C4-C5	-5.45	103.22	105.40
36	1	1838	G	C6-C5-N7	-5.45	127.13	130.40
36	1	2625	C	N3-C4-C5	5.45	124.08	121.90
1	6	17	C	C6-N1-C2	-5.45	118.12	120.30
36	5	1004	U	C6-N1-C2	-5.45	117.73	121.00
36	5	1852	G	C8-N9-C4	-5.45	104.22	106.40
1	2	371	G	C5-C6-N1	-5.45	108.78	111.50
36	5	959	C	O4'-C1'-N1	5.45	112.56	108.20
36	5	969	C	C5-C6-N1	-5.45	118.28	121.00
36	5	1141	C	N3-C4-C5	5.45	124.08	121.90
36	5	2991	A	C8-N9-C4	-5.45	103.62	105.80
36	1	328	U	N1-C2-O2	5.45	126.61	122.80
1	6	363	G	C5-C6-O6	-5.45	125.33	128.60
36	5	46	U	N3-C2-O2	5.44	126.01	122.20
36	5	901	G	C8-N9-C4	5.44	108.58	106.40
37	7	88	G	N3-C4-N9	5.44	129.27	126.00
36	1	206	G	C5-C6-N1	5.44	114.22	111.50
36	1	816	A	N1-C6-N6	-5.44	115.33	118.60
36	5	636	C	O5'-P-OP2	-5.44	100.80	105.70
36	1	609	G	C5-C6-N1	5.44	114.22	111.50
36	1	2623	G	C6-C5-N7	-5.44	127.14	130.40
36	5	1481	A	N7-C8-N9	5.44	116.52	113.80
36	5	2772	C	P-O3'-C3'	5.44	126.23	119.70
36	5	3140	G	C4-C5-N7	5.44	112.98	110.80
1	2	386	G	C5-C6-O6	5.44	131.86	128.60
36	5	2242	A	C6-N1-C2	-5.44	115.34	118.60
1	2	704	C	C2-N1-C1'	5.44	124.78	118.80
36	1	2263	C	C5-C6-N1	5.44	123.72	121.00
36	1	2550	U	N3-C2-O2	-5.44	118.39	122.20
36	5	921	A	OP2-P-O3'	5.44	117.16	105.20
1	6	1	U	N1-C2-O2	5.44	126.61	122.80
36	5	1185	C	C6-N1-C2	-5.44	118.13	120.30
36	1	3213	A	N1-C2-N3	5.43	132.02	129.30
1	6	610	G	C4-N9-C1'	5.43	133.56	126.50
1	6	863	A	C5-C6-N6	-5.43	119.35	123.70
36	5	1047	A	N1-C6-N6	5.43	121.86	118.60
36	1	1331	U	N1-C2-O2	-5.43	119.00	122.80
36	1	1391	C	C6-N1-C2	5.43	122.47	120.30
1	6	337	G	N3-C2-N2	5.43	123.70	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	608	U	N1-C2-N3	5.43	118.16	114.90
36	5	742	G	N3-C4-C5	-5.43	125.89	128.60
36	1	1116	G	OP2-P-O3'	5.43	117.14	105.20
36	1	2434	U	C2-N1-C1'	5.43	124.21	117.70
36	1	2622	C	C6-N1-C2	-5.43	118.13	120.30
36	1	2153	U	N1-C2-N3	5.42	118.15	114.90
36	5	1191	U	N1-C2-O2	-5.42	119.00	122.80
36	5	1212	A	C8-N9-C4	-5.42	103.63	105.80
36	5	1710	C	N3-C4-C5	5.42	124.07	121.90
36	5	3057	U	N1-C2-N3	-5.42	111.64	114.90
36	1	1192	C	C6-N1-C1'	-5.42	114.29	120.80
1	2	1600	A	C5-C6-N1	-5.42	114.99	117.70
36	1	888	A	N1-C6-N6	5.42	121.85	118.60
36	1	1002	A	C8-N9-C4	5.42	107.97	105.80
36	1	1207	G	C4-C5-N7	5.42	112.97	110.80
1	6	1697	G	N3-C4-C5	-5.42	125.89	128.60
36	5	2943	G	N1-C6-O6	5.42	123.15	119.90
36	1	671	U	O5'-P-OP2	-5.42	100.82	105.70
36	1	2237	C	N1-C2-O2	5.42	122.15	118.90
36	5	3362	A	C2-N3-C4	-5.42	107.89	110.60
36	1	2306	C	C6-N1-C1'	-5.41	114.30	120.80
1	6	1773	C	N1-C2-O2	-5.41	115.65	118.90
38	8	38	U	N1-C2-O2	5.41	126.59	122.80
36	1	2941	A	C8-N9-C4	5.41	107.97	105.80
36	1	3266	G	N9-C4-C5	5.41	107.56	105.40
36	5	360	G	C6-C5-N7	-5.41	127.15	130.40
38	4	11	C	C6-N1-C2	5.41	122.46	120.30
36	5	2663	G	C5-N7-C8	-5.41	101.59	104.30
37	7	100	C	C5-C6-N1	-5.41	118.30	121.00
36	5	101	G	O5'-P-OP2	-5.41	100.83	105.70
36	1	283	G	O4'-C1'-N9	-5.41	103.88	108.20
36	5	196	G	C4-N9-C1'	-5.41	119.47	126.50
36	5	283	G	N1-C6-O6	5.41	123.14	119.90
36	5	2409	G	C5-C6-O6	-5.41	125.36	128.60
1	2	942	G	N3-C4-C5	-5.40	125.90	128.60
36	1	1794	G	C6-C5-N7	-5.40	127.16	130.40
36	5	421	G	C6-C5-N7	-5.40	127.16	130.40
36	5	1147	G	O5'-P-OP1	-5.40	100.84	105.70
36	5	3054	U	C5-C4-O4	5.40	129.14	125.90
1	2	1274	C	N3-C2-O2	-5.40	118.12	121.90
36	1	669	U	C5-C4-O4	-5.40	122.66	125.90
36	1	2760	C	C6-N1-C2	5.40	122.46	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3277	U	N1-C2-O2	5.40	126.58	122.80
36	5	2300	G	C5-C6-N1	5.40	114.20	111.50
36	5	1306	G	C4-C5-N7	5.40	112.96	110.80
36	5	2917	G	C5-C6-O6	-5.40	125.36	128.60
36	1	1435	A	C5-C6-N1	5.40	120.40	117.70
36	1	1329	U	P-O3'-C3'	5.39	126.17	119.70
36	1	1496	C	C6-N1-C1'	-5.39	114.33	120.80
36	5	1159	A	C8-N9-C4	-5.39	103.64	105.80
36	5	1420	C	C5-C6-N1	-5.39	118.30	121.00
36	1	1425	U	N1-C2-N3	5.39	118.14	114.90
1	6	433	C	C6-N1-C2	5.39	122.46	120.30
38	8	113	U	N1-C2-O2	5.39	126.57	122.80
73	O7	65	ARG	NE-CZ-NH1	5.39	123.00	120.30
36	5	1858	A	C8-N9-C4	-5.39	103.64	105.80
36	1	1355	A	P-O3'-C3'	5.39	126.16	119.70
36	1	1445	U	N1-C2-O2	-5.39	119.03	122.80
1	6	625	C	N3-C4-N4	5.39	121.77	118.00
36	5	424	G	C5-C6-O6	-5.39	125.37	128.60
36	5	1348	U	C5-C6-N1	5.38	125.39	122.70
36	5	2800	G	N3-C4-C5	-5.38	125.91	128.60
36	5	1710	C	C6-N1-C2	5.38	122.45	120.30
54	m8	104	LEU	CA-CB-CG	5.38	127.68	115.30
36	1	2585	G	C8-N9-C4	-5.38	104.25	106.40
36	1	3196	U	C2-N1-C1'	5.38	124.16	117.70
36	1	1832	C	O5'-P-OP2	-5.38	100.86	105.70
36	1	3217	C	C6-N1-C1'	-5.38	114.35	120.80
1	6	1058	U	P-O3'-C3'	5.38	126.15	119.70
36	5	2643	A	N9-C4-C5	-5.38	103.65	105.80
36	5	2976	A	N1-C6-N6	-5.38	115.37	118.60
36	1	776	U	C5-C4-O4	5.38	129.13	125.90
36	1	1140	G	C2-N3-C4	-5.38	109.21	111.90
36	1	1351	U	N3-C2-O2	-5.38	118.44	122.20
36	1	31	C	N3-C4-C5	5.38	124.05	121.90
36	5	2122	G	C4-C5-N7	5.37	112.95	110.80
36	5	283	G	C4-N9-C1'	5.37	133.48	126.50
36	5	2814	G	C4-C5-N7	-5.37	108.65	110.80
36	1	2953	U	N3-C4-C5	-5.37	111.38	114.60
36	5	1370	G	N1-C2-N2	-5.37	111.37	116.20
36	5	119	U	C5-C4-O4	5.37	129.12	125.90
36	5	923	C	C6-N1-C2	5.37	122.45	120.30
1	6	590	C	C6-N1-C2	-5.37	118.15	120.30
1	2	1052	U	N3-C2-O2	-5.37	118.44	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1100	U	C5-C6-N1	-5.37	120.02	122.70
36	1	1435	A	O5'-P-OP2	5.37	117.14	110.70
1	6	1465	C	C6-N1-C2	-5.37	118.15	120.30
36	5	2369	G	N3-C4-C5	-5.37	125.92	128.60
1	2	720	G	P-O3'-C3'	5.36	126.14	119.70
36	5	1306	G	C5-C6-O6	-5.36	125.38	128.60
36	5	2950	G	N7-C8-N9	5.36	115.78	113.10
36	5	3310	A	N1-C6-N6	-5.36	115.38	118.60
36	1	637	C	N1-C2-O2	5.36	122.12	118.90
36	5	3200	G	N1-C6-O6	5.36	123.12	119.90
36	5	2385	G	N3-C4-C5	5.36	131.28	128.60
36	5	2796	G	C8-N9-C1'	-5.36	120.03	127.00
36	5	2387	A	N3-C4-C5	-5.36	123.05	126.80
36	1	895	A	N7-C8-N9	5.36	116.48	113.80
36	5	2400	G	C5-N7-C8	-5.36	101.62	104.30
36	1	1140	G	C5-C6-O6	5.35	131.81	128.60
36	5	2608	G	C5-C6-N1	-5.35	108.82	111.50
36	5	2824	G	C6-C5-N7	-5.35	127.19	130.40
1	6	1651	A	C2-N3-C4	-5.35	107.92	110.60
36	1	207	U	N1-C2-O2	-5.35	119.06	122.80
36	1	776	U	N1-C2-N3	5.35	118.11	114.90
36	1	1115	G	C5-N7-C8	-5.35	101.62	104.30
36	5	3067	C	C5-C6-N1	-5.35	118.33	121.00
36	5	718	G	N3-C4-N9	5.35	129.21	126.00
36	5	2199	G	C4-C5-C6	5.35	122.01	118.80
36	5	2541	U	C2-N1-C1'	5.35	124.12	117.70
36	5	3110	C	C6-N1-C2	5.35	122.44	120.30
36	1	2606	G	N3-C4-C5	-5.35	125.93	128.60
36	5	1592	G	C8-N9-C4	-5.35	104.26	106.40
36	1	1868	G	N3-C4-N9	5.34	129.21	126.00
36	5	985	U	C5-C6-N1	-5.34	120.03	122.70
36	5	2964	G	C6-C5-N7	5.34	133.61	130.40
36	5	668	G	C8-N9-C4	5.34	108.54	106.40
36	5	1878	G	C8-N9-C1'	-5.34	120.06	127.00
36	5	2117	A	C6-N1-C2	-5.34	115.39	118.60
36	1	512	U	N3-C4-C5	-5.34	111.40	114.60
1	6	1010	C	N3-C2-O2	-5.34	118.16	121.90
1	6	1698	G	C5-C6-O6	5.34	131.80	128.60
36	1	388	G	C8-N9-C4	-5.34	104.27	106.40
36	5	124	U	N3-C2-O2	-5.34	118.46	122.20
36	5	1483	G	O4'-C1'-N9	5.33	112.47	108.20
36	1	230	U	C2-N3-C4	-5.33	123.80	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2554	A	C8-N9-C4	5.33	107.93	105.80
38	4	144	G	C4-C5-N7	-5.33	108.67	110.80
36	5	2383	C	C6-N1-C2	-5.33	118.17	120.30
36	1	2853	A	N1-C6-N6	5.33	121.80	118.60
1	6	363	G	C6-C5-N7	-5.33	127.20	130.40
36	1	3181	C	C6-N1-C2	-5.33	118.17	120.30
36	1	675	C	C6-N1-C2	-5.33	118.17	120.30
36	1	2959	C	N1-C2-O2	-5.33	115.70	118.90
36	5	2830	G	C6-N1-C2	-5.33	121.90	125.10
36	5	3200	G	C6-C5-N7	-5.32	127.21	130.40
36	1	916	G	P-O3'-C3'	5.32	126.08	119.70
1	6	1568	C	P-O3'-C3'	5.32	126.08	119.70
36	5	2652	U	N1-C2-O2	-5.32	119.08	122.80
36	1	802	C	N3-C2-O2	-5.32	118.18	121.90
36	1	2869	U	O5'-P-OP1	-5.32	100.91	105.70
1	6	1560	U	C2-N1-C1'	5.32	124.08	117.70
36	5	1863	G	N1-C6-O6	-5.32	116.71	119.90
36	5	2199	G	C6-C5-N7	-5.32	127.21	130.40
38	8	93	U	N3-C2-O2	-5.32	118.48	122.20
36	1	1076	C	C6-N1-C2	5.32	122.43	120.30
36	1	1128	U	C5-C6-N1	-5.31	120.04	122.70
36	1	24	G	N1-C2-N2	-5.31	111.42	116.20
36	1	1852	G	N1-C6-O6	5.31	123.09	119.90
36	5	2827	U	N3-C2-O2	-5.31	118.48	122.20
36	1	198	A	C8-N9-C4	-5.31	103.68	105.80
36	1	426	G	N3-C4-N9	5.31	129.19	126.00
36	1	661	G	C5-C6-O6	-5.31	125.41	128.60
36	1	1437	C	N3-C2-O2	-5.31	118.18	121.90
1	6	337	G	N7-C8-N9	5.31	115.75	113.10
36	5	406	G	C8-N9-C1'	5.31	133.90	127.00
36	5	952	A	N9-C4-C5	-5.31	103.68	105.80
36	5	2992	U	N1-C2-N3	-5.31	111.72	114.90
36	1	2399	A	C5-C6-N1	5.31	120.35	117.70
38	8	100	U	C2-N1-C1'	5.31	124.07	117.70
36	1	2985	C	C6-N1-C2	-5.31	118.18	120.30
36	1	1495	U	N1-C2-N3	5.30	118.08	114.90
36	5	2616	C	C4-C5-C6	-5.30	114.75	117.40
36	1	638	C	C6-N1-C2	-5.30	118.18	120.30
36	5	1002	A	N1-C6-N6	-5.30	115.42	118.60
36	1	3362	A	N7-C8-N9	5.30	116.45	113.80
1	6	543	C	N1-C2-O2	5.30	122.08	118.90
36	1	1520	G	N1-C6-O6	-5.30	116.72	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2153	U	C5-C4-O4	5.30	129.08	125.90
36	5	1239	C	C2-N1-C1'	5.30	124.63	118.80
36	5	2377	G	C6-C5-N7	5.30	133.58	130.40
36	5	2816	G	C2-N3-C4	-5.30	109.25	111.90
36	1	3182	G	N1-C2-N3	5.29	127.08	123.90
36	5	506	U	C2-N1-C1'	-5.29	111.35	117.70
36	5	609	G	N1-C6-O6	5.29	123.08	119.90
36	5	1919	G	C8-N9-C4	-5.29	104.28	106.40
1	2	736	C	C2-N3-C4	5.29	122.55	119.90
36	1	1491	A	C8-N9-C4	5.29	107.92	105.80
1	6	620	A	N1-C6-N6	-5.29	115.42	118.60
36	5	1202	A	C5-N7-C8	-5.29	101.25	103.90
36	5	2959	C	O5'-P-OP1	-5.29	100.94	105.70
36	1	931	C	C2-N3-C4	-5.29	117.25	119.90
36	1	65	A	P-O3'-C3'	5.29	126.05	119.70
36	5	1047	A	C8-N9-C4	-5.29	103.69	105.80
36	5	1137	C	C6-N1-C2	5.29	122.42	120.30
36	5	2899	C	C6-N1-C2	-5.29	118.18	120.30
36	1	3266	G	C5-C6-O6	5.29	131.77	128.60
36	1	1371	G	C8-N9-C4	5.29	108.51	106.40
36	1	2160	G	N1-C6-O6	-5.29	116.73	119.90
36	5	1881	A	C2-N3-C4	5.29	113.24	110.60
36	5	3216	G	C4-N9-C1'	5.29	133.37	126.50
36	1	935	U	N3-C4-O4	5.28	123.10	119.40
36	1	1114	U	C6-N1-C2	-5.28	117.83	121.00
36	1	1165	A	C2-N3-C4	-5.28	107.96	110.60
36	1	2395	G	N1-C6-O6	5.28	123.07	119.90
36	5	590	G	C5-C6-O6	-5.28	125.43	128.60
36	5	1113	G	C2-N3-C4	-5.28	109.26	111.90
1	2	694	U	N3-C2-O2	-5.28	118.50	122.20
38	4	55	U	N1-C2-N3	5.28	118.07	114.90
36	5	1483	G	C2-N3-C4	5.28	114.54	111.90
36	5	1519	G	C6-C5-N7	-5.28	127.23	130.40
36	1	111	C	C5-C4-N4	-5.28	116.50	120.20
1	6	542	A	O4'-C1'-N9	5.28	112.42	108.20
36	5	1047	A	C5-C6-N6	-5.28	119.48	123.70
36	5	2507	C	C5-C6-N1	5.28	123.64	121.00
24	D2	104	LEU	CA-CB-CG	5.28	127.44	115.30
36	5	1914	G	C4-N9-C1'	5.28	133.36	126.50
36	1	1364	C	OP2-P-O3'	5.28	116.81	105.20
1	6	425	A	OP2-P-O3'	5.28	116.81	105.20
36	5	818	C	C6-N1-C2	5.28	122.41	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1495	U	N1-C2-O2	-5.27	119.11	122.80
36	1	1716	U	OP1-P-O3'	5.27	116.80	105.20
36	1	2871	G	C4-N9-C1'	-5.27	119.64	126.50
1	2	541	A	O4'-C1'-N9	5.27	112.42	108.20
36	5	2607	G	OP2-P-O3'	5.27	116.79	105.20
33	e1	100	LEU	CA-CB-CG	5.27	127.42	115.30
36	1	661	G	N9-C4-C5	-5.27	103.29	105.40
36	1	2659	G	N1-C6-O6	5.26	123.06	119.90
36	5	283	G	C8-N9-C1'	-5.26	120.16	127.00
36	5	1012	G	C8-N9-C4	5.26	108.50	106.40
1	6	1560	U	N1-C2-O2	5.26	126.48	122.80
36	5	880	G	C5-N7-C8	5.26	106.93	104.30
36	5	1507	G	N1-C2-N3	5.26	127.06	123.90
36	5	2249	G	C8-N9-C4	-5.26	104.30	106.40
36	1	2160	G	C5-C6-O6	5.26	131.76	128.60
36	1	2870	C	N1-C2-O2	-5.26	115.75	118.90
36	5	1314	C	C6-N1-C2	-5.26	118.20	120.30
36	5	2770	G	N3-C4-C5	-5.26	125.97	128.60
36	5	2842	U	N1-C2-O2	5.26	126.48	122.80
36	1	2112	U	P-O3'-C3'	5.26	126.01	119.70
36	1	2585	G	N3-C4-C5	-5.26	125.97	128.60
36	5	1126	G	C8-N9-C4	-5.26	104.30	106.40
1	2	1096	C	C2-N1-C1'	5.25	124.58	118.80
38	4	97	A	C8-N9-C4	-5.25	103.70	105.80
36	5	2954	U	N1-C2-O2	5.25	126.48	122.80
36	5	1834	U	N3-C4-C5	-5.25	111.45	114.60
36	5	2663	G	N1-C6-O6	5.25	123.05	119.90
36	5	3134	A	O5'-P-OP2	-5.25	100.97	105.70
36	1	645	A	C5-C6-N1	5.25	120.33	117.70
1	6	1498	G	N3-C4-N9	5.25	129.15	126.00
36	5	913	A	N1-C6-N6	5.25	121.75	118.60
36	5	1443	G	C8-N9-C1'	-5.25	120.18	127.00
36	1	942	U	OP1-P-OP2	-5.25	111.73	119.60
36	1	1357	G	C6-C5-N7	-5.25	127.25	130.40
36	5	1150	A	O5'-P-OP2	-5.25	100.98	105.70
36	5	2871	G	C5-C6-O6	5.25	131.75	128.60
36	5	943	U	N1-C2-O2	-5.24	119.13	122.80
1	2	1651	A	C5-C6-N1	-5.24	115.08	117.70
1	6	1340	U	N1-C2-O2	5.24	126.47	122.80
36	5	2375	G	C6-N1-C2	-5.24	121.95	125.10
36	5	2660	G	C5-C6-O6	-5.24	125.45	128.60
36	1	98	G	C2-N3-C4	-5.24	109.28	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1432	U	O4'-C1'-N1	5.24	112.39	108.20
36	1	1421	G	C8-N9-C1'	-5.24	120.19	127.00
36	1	2344	U	C6-N1-C2	5.24	124.14	121.00
36	1	3028	G	N3-C4-C5	-5.24	125.98	128.60
38	4	82	U	C5-C4-O4	-5.24	122.76	125.90
36	5	3106	A	C2-N3-C4	-5.24	107.98	110.60
36	5	3214	U	O4'-C1'-N1	5.24	112.39	108.20
1	2	1596	C	N3-C2-O2	-5.24	118.23	121.90
36	1	228	U	N1-C2-O2	5.24	126.46	122.80
36	1	1725	C	C5-C6-N1	-5.24	118.38	121.00
36	5	343	U	N1-C2-N3	5.24	118.04	114.90
36	5	835	G	O4'-C1'-N9	5.24	112.39	108.20
36	1	2377	G	C5-C6-N1	5.23	114.12	111.50
36	1	3201	C	C6-N1-C2	-5.23	118.21	120.30
36	1	1434	G	N1-C6-O6	5.23	123.04	119.90
36	5	2278	C	N3-C4-C5	5.23	123.99	121.90
36	5	2875	U	N3-C2-O2	5.23	125.86	122.20
36	5	3190	C	N3-C4-C5	-5.23	119.81	121.90
36	5	2874	G	C8-N9-C4	5.23	108.49	106.40
36	5	2949	U	C5-C4-O4	5.23	129.04	125.90
1	2	1591	C	N3-C2-O2	-5.23	118.24	121.90
37	3	91	G	C4-N9-C1'	5.23	133.29	126.50
36	5	1793	C	O5'-P-OP1	-5.23	100.99	105.70
36	1	896	A	C8-N9-C4	-5.23	103.71	105.80
1	2	1559	A	O4'-C1'-N9	5.22	112.38	108.20
36	1	25	U	N3-C4-C5	-5.22	111.47	114.60
36	1	3157	U	O4'-C1'-N1	-5.22	104.02	108.20
37	3	82	G	N3-C4-C5	-5.22	125.99	128.60
1	6	489	C	C2-N1-C1'	5.22	124.55	118.80
36	5	957	C	N3-C2-O2	-5.22	118.24	121.90
36	5	1151	U	C6-N1-C2	-5.22	117.87	121.00
36	5	2403	G	C8-N9-C1'	-5.22	120.21	127.00
37	7	44	C	C6-N1-C2	5.22	122.39	120.30
36	1	895	A	C5-N7-C8	-5.22	101.29	103.90
36	1	1520	G	N3-C4-N9	5.22	129.13	126.00
36	1	2950	G	C8-N9-C4	-5.22	104.31	106.40
36	5	1901	A	C2-N3-C4	5.22	113.21	110.60
36	5	2649	A	N7-C8-N9	5.22	116.41	113.80
1	6	1473	U	N1-C2-O2	5.22	126.45	122.80
36	1	1174	G	C6-C5-N7	-5.22	127.27	130.40
36	5	2404	A	C5-C6-N1	-5.22	115.09	117.70
36	5	2909	U	N3-C2-O2	5.22	125.85	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2636	A	N7-C8-N9	5.22	116.41	113.80
36	5	283	G	N3-C4-N9	5.22	129.13	126.00
36	1	688	G	N3-C4-C5	-5.21	125.99	128.60
36	1	712	G	N1-C6-O6	5.21	123.03	119.90
38	8	39	G	C8-N9-C4	-5.21	104.31	106.40
1	2	1012	U	C2-N3-C4	5.21	130.13	127.00
36	1	33	G	C4-C5-N7	-5.21	108.72	110.80
36	1	2618	G	N1-C2-N2	-5.21	111.51	116.20
1	6	272	U	P-O3'-C3'	5.21	125.95	119.70
36	5	1931	U	C6-N1-C2	5.21	124.13	121.00
36	5	3042	U	C5-C6-N1	-5.21	120.09	122.70
36	5	952	A	C8-N9-C4	5.21	107.88	105.80
36	5	1914	G	N3-C4-C5	-5.21	126.00	128.60
36	5	2320	A	C2-N3-C4	-5.21	108.00	110.60
36	1	92	G	C6-C5-N7	-5.21	127.28	130.40
24	d2	93	LEU	CA-CB-CG	5.21	127.28	115.30
36	1	965	A	C8-N9-C4	-5.21	103.72	105.80
36	5	1367	G	C6-C5-N7	-5.20	127.28	130.40
36	5	1505	C	C6-N1-C2	-5.20	118.22	120.30
36	5	2122	G	C5-C6-O6	-5.20	125.48	128.60
36	5	2891	U	C5-C6-N1	-5.20	120.10	122.70
1	2	992	A	C2-N3-C4	-5.20	108.00	110.60
36	1	2369	G	N3-C4-C5	-5.20	126.00	128.60
36	5	1766	G	C5-C6-O6	-5.20	125.48	128.60
36	5	2913	C	N3-C2-O2	5.20	125.54	121.90
36	1	426	G	N3-C4-C5	-5.20	126.00	128.60
36	1	2985	C	N3-C2-O2	-5.20	118.26	121.90
36	5	1115	G	C8-N9-C1'	-5.20	120.24	127.00
36	5	3178	A	O5'-P-OP1	-5.20	101.02	105.70
36	1	2160	G	N9-C4-C5	5.20	107.48	105.40
1	6	151	G	C4-C5-N7	-5.20	108.72	110.80
1	6	1791	A	N1-C6-N6	5.20	121.72	118.60
36	5	3040	A	N7-C8-N9	-5.20	111.20	113.80
36	1	35	A	N1-C6-N6	5.19	121.72	118.60
36	1	80	G	N7-C8-N9	-5.19	110.50	113.10
36	1	2408	U	O5'-P-OP1	-5.19	101.03	105.70
36	5	70	A	C8-N9-C4	-5.19	103.72	105.80
36	5	1300	G	N9-C4-C5	-5.19	103.32	105.40
36	5	2827	U	N1-C2-O2	5.19	126.43	122.80
37	7	17	A	C8-N9-C4	5.19	107.88	105.80
36	1	1351	U	C6-N1-C1'	-5.19	113.93	121.20
36	5	3028	G	N3-C2-N2	5.19	123.53	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1497	C	N3-C4-C5	-5.19	119.83	121.90
36	5	1897	G	C6-C5-N7	-5.19	127.29	130.40
1	6	1533	C	C6-N1-C2	-5.19	118.22	120.30
3	S1	218	LEU	CA-CB-CG	5.18	127.23	115.30
36	5	1884	A	N1-C6-N6	5.18	121.71	118.60
36	1	2618	G	C8-N9-C4	-5.18	104.33	106.40
36	5	2728	G	O5'-P-OP2	-5.18	101.04	105.70
36	5	3140	G	C6-C5-N7	-5.18	127.29	130.40
36	5	341	G	N7-C8-N9	5.18	115.69	113.10
36	5	3245	A	C8-N9-C4	-5.18	103.73	105.80
37	7	49	G	N1-C6-O6	5.18	123.01	119.90
1	2	864	U	C5-C4-O4	5.18	129.00	125.90
36	1	1331	U	C5-C4-O4	-5.18	122.79	125.90
44	17	229	PHE	CB-CG-CD1	5.18	124.42	120.80
1	2	901	G	C4-N9-C1'	5.17	133.23	126.50
36	5	429	U	C6-N1-C2	5.17	124.10	121.00
36	5	1200	A	C6-C5-N7	-5.17	128.68	132.30
36	1	1097	G	P-O3'-C3'	5.17	125.91	119.70
36	1	359	U	C6-N1-C2	-5.17	117.90	121.00
36	1	2608	G	N1-C6-O6	5.17	123.00	119.90
36	1	3218	A	C8-N9-C4	-5.17	103.73	105.80
1	6	639	U	C2-N1-C1'	5.17	123.90	117.70
36	5	1129	A	O5'-P-OP2	-5.17	101.05	105.70
1	6	678	A	P-O3'-C3'	5.17	125.90	119.70
1	6	1274	C	C5-C6-N1	5.17	123.58	121.00
36	5	2941	A	N1-C6-N6	-5.17	115.50	118.60
36	5	914	A	N3-C4-C5	5.17	130.41	126.80
36	5	938	C	C6-N1-C2	5.17	122.37	120.30
1	6	393	C	N3-C4-C5	5.16	123.97	121.90
36	1	3178	A	C2-N3-C4	-5.16	108.02	110.60
1	2	113	U	OP2-P-O3'	5.16	116.55	105.20
36	1	1139	G	C2-N3-C4	-5.16	109.32	111.90
36	1	1846	C	N1-C2-O2	-5.16	115.81	118.90
36	5	2691	A	N1-C6-N6	5.16	121.69	118.60
36	1	2720	G	C4-N9-C1'	5.16	133.20	126.50
1	2	95	G	N1-C6-O6	-5.15	116.81	119.90
36	1	2996	U	C6-N1-C1'	-5.15	113.99	121.20
36	1	3375	A	C8-N9-C4	-5.15	103.74	105.80
1	6	691	C	N1-C2-O2	5.15	121.99	118.90
1	6	620	A	C8-N9-C4	-5.15	103.74	105.80
36	5	668	G	N7-C8-N9	-5.15	110.53	113.10
36	5	941	G	OP1-P-O3'	5.15	116.53	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3190	C	C4-C5-C6	5.15	119.97	117.40
36	5	965	A	N1-C6-N6	5.15	121.69	118.60
36	1	1452	A	N3-C4-C5	5.14	130.40	126.80
1	6	1743	U	N3-C4-C5	-5.14	111.51	114.60
1	2	1196	A	P-O3'-C3'	5.14	125.87	119.70
36	1	335	G	C4-C5-N7	5.14	112.86	110.80
36	1	2887	A	C2-N3-C4	5.14	113.17	110.60
1	6	484	C	C5-C6-N1	5.14	123.57	121.00
1	6	1112	G	N1-C6-O6	-5.14	116.81	119.90
36	5	2683	U	C6-N1-C1'	-5.14	114.00	121.20
36	5	2727	A	N1-C6-N6	-5.14	115.51	118.60
1	2	1389	C	N1-C2-O2	5.14	121.98	118.90
36	1	3307	A	C6-C5-N7	-5.14	128.70	132.30
38	4	47	C	N3-C2-O2	-5.14	118.30	121.90
1	6	858	G	C4-N9-C1'	5.14	133.18	126.50
36	5	1494	U	C5-C6-N1	-5.14	120.13	122.70
36	5	1307	G	C4-C5-N7	5.14	112.85	110.80
36	5	1853	U	N1-C2-N3	5.14	117.98	114.90
1	2	1182	U	N1-C2-O2	5.13	126.39	122.80
36	1	223	U	O5'-P-OP2	-5.13	101.08	105.70
36	5	1012	G	N3-C4-C5	5.13	131.17	128.60
36	5	2907	G	C2-N3-C4	-5.13	109.33	111.90
36	1	1851	G	C6-C5-N7	-5.13	127.32	130.40
36	1	1369	A	C2-N3-C4	-5.13	108.03	110.60
38	4	110	C	N1-C2-O2	-5.13	115.82	118.90
1	6	792	U	C5-C4-O4	5.13	128.98	125.90
36	5	922	U	C5-C6-N1	-5.13	120.13	122.70
36	5	360	G	C4-N9-C1'	5.13	133.17	126.50
1	2	1258	U	C2-N1-C1'	5.13	123.85	117.70
36	1	1117	G	N3-C4-C5	5.13	131.16	128.60
36	1	1304	A	O5'-P-OP1	-5.13	101.08	105.70
36	1	3028	G	C6-C5-N7	-5.13	127.32	130.40
6	S4	12	LEU	CA-CB-CG	5.13	127.09	115.30
36	5	1604	G	N3-C4-N9	5.13	129.08	126.00
36	5	1047	A	C6-C5-N7	-5.12	128.71	132.30
36	5	2866	U	OP1-P-OP2	-5.12	111.91	119.60
38	4	67	U	N1-C2-N3	5.12	117.97	114.90
36	5	1880	U	C5-C6-N1	-5.12	120.14	122.70
36	5	2890	A	N9-C4-C5	5.12	107.85	105.80
1	6	1000	C	C6-N1-C1'	-5.12	114.66	120.80
36	5	1133	A	OP2-P-O3'	5.12	116.47	105.20
36	5	981	U	C6-N1-C2	-5.12	117.93	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	1194	G	C5-C6-N1	5.12	114.06	111.50
36	5	2794	G	C8-N9-C4	5.12	108.45	106.40
36	1	1901	A	N1-C6-N6	-5.12	115.53	118.60
36	5	757	C	C6-N1-C2	5.12	122.35	120.30
36	5	2843	U	C6-N1-C1'	-5.12	114.04	121.20
38	8	86	U	C5-C6-N1	5.12	125.26	122.70
36	5	567	G	C6-C5-N7	-5.11	127.33	130.40
36	1	358	G	C5-C6-O6	-5.11	125.53	128.60
36	5	815	G	C8-N9-C4	5.11	108.44	106.40
36	5	1010	G	O5'-P-OP2	-5.11	101.10	105.70
36	5	1142	G	N9-C4-C5	5.11	107.44	105.40
36	5	2888	U	OP1-P-O3'	5.11	116.44	105.20
36	5	2954	U	C6-N1-C1'	-5.11	114.05	121.20
36	5	2342	U	C5-C6-N1	-5.11	120.15	122.70
36	1	159	A	C8-N9-C4	5.11	107.84	105.80
36	1	1919	G	C8-N9-C4	-5.11	104.36	106.40
36	1	2393	G	C5-C6-O6	-5.11	125.53	128.60
36	5	1924	U	N3-C2-O2	-5.11	118.62	122.20
36	5	2181	C	N3-C4-C5	5.11	123.94	121.90
36	5	2708	C	N1-C2-O2	-5.11	115.83	118.90
36	1	1286	A	C8-N9-C4	5.11	107.84	105.80
1	6	858	G	C6-C5-N7	-5.11	127.34	130.40
36	5	1446	A	C2-N3-C4	5.11	113.15	110.60
36	5	2741	C	N1-C2-O2	-5.11	115.84	118.90
1	2	966	A	N1-C6-N6	5.10	121.66	118.60
1	2	1033	C	N3-C2-O2	-5.10	118.33	121.90
36	1	54	C	N1-C2-O2	-5.10	115.84	118.90
36	5	1764	U	C5-C6-N1	5.10	125.25	122.70
36	1	3214	U	O4'-C1'-N1	5.10	112.28	108.20
36	5	209	A	N1-C6-N6	5.10	121.66	118.60
36	5	2875	U	C5-C4-O4	-5.10	122.84	125.90
36	1	1198	C	N3-C4-C5	-5.10	119.86	121.90
37	3	91	G	N3-C4-C5	-5.10	126.05	128.60
36	5	2708	C	N3-C2-O2	5.10	125.47	121.90
36	5	2827	U	C2-N1-C1'	5.10	123.82	117.70
1	2	694	U	N1-C2-O2	5.10	126.37	122.80
36	1	2679	A	C5'-C4'-O4'	5.10	115.22	109.10
1	6	1026	A	N7-C8-N9	-5.10	111.25	113.80
36	5	1482	A	O5'-P-OP2	-5.10	101.11	105.70
36	5	2199	G	C4-N9-C1'	5.10	133.13	126.50
37	7	82	G	C8-N9-C4	-5.10	104.36	106.40
36	1	917	A	C5-C6-N6	5.10	127.78	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3088	G	C6-C5-N7	-5.10	127.34	130.40
36	5	420	G	C8-N9-C1'	-5.10	120.37	127.00
36	1	89	A	N1-C6-N6	-5.10	115.54	118.60
36	5	986	U	N3-C2-O2	-5.10	118.63	122.20
36	5	1923	C	C6-N1-C2	-5.10	118.26	120.30
1	2	501	U	OP1-P-O3'	5.09	116.41	105.20
1	2	1536	G	C4-N9-C1'	5.09	133.12	126.50
36	1	417	A	C2-N3-C4	-5.09	108.05	110.60
36	1	1606	U	C2-N1-C1'	-5.09	111.59	117.70
1	6	755	A	P-O3'-C3'	5.09	125.81	119.70
36	5	788	C	C4-C5-C6	5.09	119.95	117.40
36	5	1047	A	C4-C5-N7	5.09	113.25	110.70
36	1	2639	G	N1-C2-N3	5.09	126.96	123.90
36	1	2853	A	C6-C5-N7	-5.09	128.74	132.30
1	6	187	G	OP1-P-O3'	5.09	116.41	105.20
1	6	1026	A	C8-N9-C4	5.09	107.84	105.80
36	5	3215	A	C5-C6-N1	-5.09	115.15	117.70
36	1	1148	G	C5-C6-O6	-5.09	125.55	128.60
36	1	1430	U	C5-C6-N1	-5.09	120.16	122.70
1	6	1737	G	N1-C6-O6	5.09	122.95	119.90
36	5	1158	A	C2-N3-C4	-5.09	108.06	110.60
36	5	2231	C	C6-N1-C2	-5.09	118.26	120.30
36	5	2764	C	N3-C4-N4	5.09	121.56	118.00
36	5	2799	A	OP1-P-OP2	5.09	127.23	119.60
71	O5	89	ARG	NE-CZ-NH1	5.09	122.84	120.30
1	6	542	A	P-O3'-C3'	5.09	125.81	119.70
1	2	1745	G	N3-C4-N9	5.09	129.05	126.00
36	1	895	A	C4-C5-N7	5.09	113.24	110.70
36	1	2921	U	N3-C2-O2	-5.09	118.64	122.20
36	1	3133	C	C5-C4-N4	-5.09	116.64	120.20
1	6	623	A	N1-C6-N6	5.09	121.65	118.60
36	5	963	G	N1-C6-O6	-5.09	116.85	119.90
36	5	1209	G	O5'-P-OP1	-5.09	101.12	105.70
36	5	1313	G	N1-C6-O6	5.09	122.95	119.90
1	2	1658	G	C4-C5-N7	5.08	112.83	110.80
36	5	506	U	C6-N1-C2	5.08	124.05	121.00
36	1	1149	G	C6-C5-N7	-5.08	127.35	130.40
37	3	81	U	N3-C2-O2	-5.08	118.64	122.20
36	5	2643	A	C4-C5-N7	5.08	113.24	110.70
36	1	3079	U	C2-N1-C1'	-5.08	111.60	117.70
1	6	625	C	C5-C4-N4	-5.08	116.64	120.20
36	5	3057	U	C5-C4-O4	-5.08	122.85	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2772	C	O4'-C1'-N1	5.08	112.26	108.20
37	7	98	C	C6-N1-C2	5.08	122.33	120.30
1	2	1462	G	N9-C4-C5	-5.08	103.37	105.40
31	D9	36	LEU	CA-CB-CG	5.08	126.98	115.30
36	1	859	G	C8-N9-C1'	-5.08	120.40	127.00
36	1	1103	A	OP1-P-O3'	5.08	116.37	105.20
36	1	636	C	N3-C2-O2	-5.08	118.35	121.90
36	5	2279	A	N1-C6-N6	-5.08	115.56	118.60
1	2	613	G	C4-C5-N7	5.07	112.83	110.80
1	2	1185	U	C2-N1-C1'	5.07	123.79	117.70
1	6	1775	U	N1-C2-N3	5.07	117.94	114.90
1	2	499	U	OP1-P-O3'	5.07	116.36	105.20
36	1	1103	A	P-O3'-C3'	5.07	125.79	119.70
36	1	1196	C	C6-N1-C2	5.07	122.33	120.30
36	1	2101	C	P-O3'-C3'	5.07	125.79	119.70
36	5	2223	A	C8-N9-C4	-5.07	103.77	105.80
36	1	1151	U	C6-N1-C2	-5.07	117.96	121.00
1	6	795	U	N3-C2-O2	-5.07	118.65	122.20
1	6	1100	G	N3-C4-C5	-5.07	126.06	128.60
36	5	1383	G	C6-C5-N7	-5.07	127.36	130.40
36	5	2825	C	C4-C5-C6	-5.07	114.86	117.40
36	1	3367	C	C6-N1-C2	5.07	122.33	120.30
37	3	82	G	C4-C5-N7	-5.07	108.77	110.80
1	6	187	G	P-O3'-C3'	5.07	125.78	119.70
36	5	1852	G	O5'-P-OP1	-5.07	101.14	105.70
1	2	971	A	C4-C5-C6	5.07	119.53	117.00
1	2	1185	U	N1-C2-O2	5.07	126.35	122.80
36	1	580	C	N1-C2-O2	-5.07	115.86	118.90
1	2	728	U	C6-N1-C1'	-5.07	114.11	121.20
1	2	1060	U	N3-C2-O2	-5.07	118.65	122.20
36	1	929	A	OP1-P-O3'	5.07	116.34	105.20
36	1	1404	G	C2-N3-C4	-5.07	109.37	111.90
36	1	2617	U	N1-C2-O2	5.07	126.34	122.80
1	6	1246	C	C2-N1-C1'	5.07	124.37	118.80
36	5	1047	A	C5-N7-C8	-5.07	101.37	103.90
1	6	536	C	C2-N1-C1'	5.06	124.37	118.80
1	6	614	C	N1-C2-O2	5.06	121.94	118.90
36	5	353	G	C4-N9-C1'	-5.06	119.92	126.50
36	5	2980	U	N1-C2-O2	-5.06	119.26	122.80
36	5	3137	C	C2-N3-C4	-5.06	117.37	119.90
1	2	730	G	N3-C4-N9	5.06	129.04	126.00
36	1	1822	C	C6-N1-C2	-5.06	118.28	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3196	U	N3-C2-O2	-5.06	118.66	122.20
36	5	630	A	C5-C6-N1	-5.06	115.17	117.70
36	5	1199	C	C4-C5-C6	-5.06	114.87	117.40
36	5	2526	C	C2-N1-C1'	5.06	124.37	118.80
36	1	1305	U	N1-C2-N3	5.06	117.94	114.90
65	N9	20	GLY	N-CA-C	5.06	125.75	113.10
1	6	36	C	C5-C4-N4	-5.06	116.66	120.20
36	5	3138	U	N3-C2-O2	5.06	125.74	122.20
37	7	91	G	C8-N9-C4	-5.06	104.38	106.40
36	5	968	G	C5-C6-N1	-5.06	108.97	111.50
36	1	101	G	O4'-C1'-N9	5.05	112.24	108.20
1	6	323	A	O5'-P-OP2	-5.05	101.15	105.70
36	1	2624	G	N7-C8-N9	5.05	115.62	113.10
36	1	3128	G	C6-C5-N7	-5.05	127.37	130.40
1	6	1530	C	C6-N1-C2	-5.05	118.28	120.30
36	5	349	A	C2-N3-C4	5.05	113.12	110.60
37	7	49	G	C6-C5-N7	-5.05	127.37	130.40
59	N3	48	ARG	NE-CZ-NH1	5.05	122.82	120.30
1	2	501	U	P-O3'-C3'	5.04	125.75	119.70
36	1	1406	A	O5'-P-OP2	5.04	116.75	110.70
36	5	2375	G	N3-C4-C5	-5.04	126.08	128.60
38	8	20	U	N1-C2-O2	-5.04	119.27	122.80
36	1	432	G	C5-C6-N1	-5.04	108.98	111.50
36	1	612	U	N1-C2-N3	5.04	117.93	114.90
1	6	1737	G	N3-C4-C5	5.04	131.12	128.60
36	5	2584	G	N7-C8-N9	5.04	115.62	113.10
36	5	1306	G	C6-C5-N7	-5.04	127.38	130.40
1	2	542	A	C4-N9-C1'	5.04	135.37	126.30
36	1	993	G	N1-C6-O6	-5.04	116.88	119.90
36	1	1435	A	O5'-P-OP1	-5.04	101.17	105.70
1	6	362	G	N3-C4-N9	5.04	129.02	126.00
1	6	1565	C	N3-C4-C5	5.04	123.92	121.90
36	5	907	G	C5-C6-O6	-5.04	125.58	128.60
36	5	2167	A	N9-C4-C5	5.04	107.82	105.80
36	1	109	A	OP1-P-O3'	5.04	116.28	105.20
36	5	1721	U	C5-C6-N1	5.04	125.22	122.70
36	5	1790	G	C5-C6-N1	-5.04	108.98	111.50
36	1	1367	G	C5-C6-N1	-5.04	108.98	111.50
36	1	1548	C	C5-C6-N1	5.03	123.52	121.00
36	1	329	U	C6-N1-C2	-5.03	117.98	121.00
1	6	1776	A	N7-C8-N9	5.03	116.32	113.80
36	5	1317	A	N1-C6-N6	5.03	121.62	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	94	C	N3-C4-C5	5.03	123.91	121.90
36	1	676	G	N3-C4-N9	5.03	129.02	126.00
1	6	901	G	C5-C6-O6	-5.03	125.58	128.60
36	5	948	C	C6-N1-C2	5.03	122.31	120.30
36	5	2794	G	C5-C6-O6	-5.03	125.58	128.60
1	2	1596	C	N1-C2-O2	5.03	121.92	118.90
36	1	374	A	O4'-C1'-N9	5.03	112.22	108.20
36	5	2987	A	C5-C6-N1	-5.03	115.19	117.70
36	5	3130	A	C6-N1-C2	-5.03	115.58	118.60
36	1	994	G	N1-C6-O6	-5.03	116.88	119.90
36	5	808	A	C2-N3-C4	5.03	113.11	110.60
36	5	1193	A	C5-C6-N1	-5.03	115.19	117.70
36	5	2334	U	N3-C2-O2	-5.03	118.68	122.20
36	5	3018	C	C6-N1-C2	-5.03	118.29	120.30
36	5	3121	U	OP1-P-O3'	5.03	116.25	105.20
78	q2	93	LEU	CA-CB-CG	5.03	126.86	115.30
36	1	2920	U	C5-C6-N1	-5.02	120.19	122.70
36	5	932	U	N3-C4-O4	5.02	122.92	119.40
36	5	1370	G	N1-C6-O6	-5.02	116.89	119.90
1	2	553	G	C5-C6-O6	-5.02	125.59	128.60
1	2	1275	A	O5'-P-OP2	-5.02	101.18	105.70
1	2	1339	C	OP2-P-O3'	5.02	116.25	105.20
36	1	2874	G	P-O3'-C3'	5.02	125.73	119.70
1	6	1698	G	N1-C6-O6	-5.02	116.89	119.90
36	5	969	C	OP1-P-O3'	5.02	116.25	105.20
36	5	1164	G	C8-N9-C4	5.02	108.41	106.40
36	1	91	G	C8-N9-C4	5.02	108.41	106.40
36	1	1117	G	O5'-P-OP1	-5.02	101.18	105.70
36	1	324	A	C2-N3-C4	-5.02	108.09	110.60
36	1	851	C	C5-C6-N1	5.02	123.51	121.00
36	5	2382	G	O5'-P-OP2	-5.02	101.18	105.70
36	1	1429	G	C5-C6-N1	5.02	114.01	111.50
36	1	3121	U	OP1-P-O3'	5.02	116.24	105.20
1	6	670	U	C2-N1-C1'	5.02	123.72	117.70
36	5	1046	A	C2-N3-C4	-5.02	108.09	110.60
36	5	1202	A	C8-N9-C4	-5.02	103.79	105.80
36	5	2944	U	N1-C2-O2	5.02	126.31	122.80
20	C8	3	LEU	CA-CB-CG	5.02	126.84	115.30
36	5	2758	A	N1-C6-N6	5.02	121.61	118.60
36	1	680	G	C8-N9-C4	5.01	108.41	106.40
36	1	1336	U	O5'-P-OP1	-5.01	101.19	105.70
37	3	39	C	N3-C2-O2	-5.01	118.39	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	963	G	C5-C6-N1	5.01	114.01	111.50
36	5	1534	A	C8-N9-C4	-5.01	103.80	105.80
38	8	116	G	C6-C5-N7	-5.01	127.39	130.40
36	1	2721	A	C8-N9-C4	-5.01	103.80	105.80
36	5	1329	U	P-O3'-C3'	5.01	125.71	119.70
1	6	1489	U	C2-N1-C1'	5.01	123.71	117.70
36	5	1049	C	C6-N1-C2	-5.01	118.30	120.30
36	5	1434	G	C2-N3-C4	-5.01	109.39	111.90
36	1	2176	U	N3-C2-O2	-5.01	118.69	122.20
36	1	2873	U	N3-C2-O2	5.01	125.70	122.20
36	5	587	U	N1-C2-N3	-5.01	111.90	114.90
36	5	2608	G	OP2-P-O3'	5.01	116.22	105.20
36	5	3374	U	O5'-P-OP2	-5.01	101.19	105.70
36	1	439	C	N1-C2-O2	5.00	121.90	118.90
36	1	2413	A	N1-C6-N6	-5.00	115.60	118.60
1	2	632	U	N3-C4-C5	5.00	117.60	114.60
1	6	1	U	N3-C4-O4	5.00	122.90	119.40
1	2	1636	C	C6-N1-C2	-5.00	118.30	120.30
36	1	415	G	C4-C5-N7	5.00	112.80	110.80
36	1	650	C	N3-C4-C5	-5.00	119.90	121.90
36	1	2284	C	C2-N1-C1'	5.00	124.30	118.80
36	1	2427	U	N1-C2-O2	5.00	126.30	122.80
36	5	2513	U	OP1-P-O3'	5.00	116.20	105.20
36	5	3216	G	C4-C5-C6	5.00	121.80	118.80

There are no chirality outliers.

All (19) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
19	C7	85	VAL	Peptide
27	D5	94	LYS	Peptide
39	L2	142	ASP	Peptide
39	L2	19	HIS	Peptide
44	L7	157	ASN	Peptide
52	M6	110	PRO	Peptide
64	N8	15	VAL	Peptide
65	N9	19	ASN	Peptide
9	S7	131	PHE	Peptide
18	c6	40	GLU	Peptide
22	d0	70	THR	Peptide
26	d4	29	HIS	Peptide
42	l5	270	LYS	Peptide

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Mol	Chain	Res	Type	Group
44	l7	192	GLY	Peptide
44	l7	226	GLY	Peptide
56	n0	133	ALA	Peptide
64	n8	66	ALA	Peptide
7	s5	44	ASN	Peptide
9	s7	130	VAL	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2	37970	0	19104	1050	1
1	6	38260	0	19250	978	0
2	S0	1612	0	1623	152	0
2	s0	1612	0	1623	0	0
3	S1	1709	0	1784	156	0
3	s1	1722	0	1793	0	0
4	S2	1635	0	1723	140	0
4	s2	1635	0	1723	0	0
5	S3	1734	0	1817	133	0
5	s3	1734	0	1817	0	0
6	S4	2068	0	2154	169	0
6	s4	2068	0	2154	0	0
7	S5	1609	0	1675	167	0
7	s5	1609	0	1675	0	0
8	S6	1820	0	1917	129	0
8	s6	1755	0	1845	0	0
9	S7	1481	0	1572	147	0
9	s7	1492	0	1581	0	0
10	S8	1489	0	1525	132	0
10	s8	1489	0	1525	0	0
11	S9	1494	0	1573	143	0
11	s9	1494	0	1573	0	0
12	C0	772	0	727	55	0
13	C1	1213	0	1242	99	0
13	c1	1168	0	1233	0	0
14	C2	892	0	874	57	0
14	c2	892	0	872	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	C3	1192	0	1255	87	0
15	c3	1192	0	1255	0	0
16	C4	891	0	883	106	0
16	c4	949	0	985	0	0
17	C5	977	0	1002	100	0
17	c5	1039	0	1050	0	0
18	C6	1105	0	1166	114	0
18	c6	1111	0	1171	0	0
19	C7	965	0	1026	97	0
19	c7	944	0	1006	0	0
20	C8	1192	0	1222	127	0
20	c8	1192	0	1221	0	0
21	C9	1112	0	1123	126	0
21	c9	1112	0	1124	0	0
22	D0	855	0	917	82	0
22	d0	882	0	939	0	0
23	D1	684	0	672	69	0
23	d1	684	0	672	0	0
24	D2	1021	0	1060	104	0
24	d2	1021	0	1060	0	0
25	D3	1121	0	1196	102	0
25	d3	1121	0	1196	0	0
26	D4	1073	0	1132	91	0
26	d4	1073	0	1132	0	0
27	D5	563	0	603	63	0
27	d5	558	0	598	0	0
28	D6	769	0	814	89	0
28	d6	769	0	814	0	0
29	D7	610	0	631	42	0
29	d7	610	0	631	0	0
30	D8	497	0	535	49	0
30	d8	497	0	535	0	0
31	D9	443	0	431	28	0
31	d9	443	0	432	0	0
32	E0	475	0	525	33	0
32	e0	491	0	542	0	0
33	E1	566	0	601	52	0
33	e1	608	0	657	0	0
34	SR	2441	0	2390	184	0
34	sR	2445	0	2401	0	0
35	SM	1104	0	971	80	0
35	sM	680	0	539	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
36	1	67355	0	33844	1644	0
36	5	67377	0	33851	1635	2
37	3	2579	0	1303	65	0
37	7	2579	0	1303	75	0
38	4	3353	0	1695	101	0
38	8	3353	0	1695	105	0
39	L2	1918	0	1987	204	0
39	l2	1918	0	1987	0	0
40	L3	3073	0	3160	282	0
40	l3	3073	0	3160	0	0
41	L4	2749	0	2863	267	0
41	l4	2749	0	2863	0	0
42	L5	2375	0	2325	225	0
42	l5	2359	0	2310	0	0
43	L6	1239	0	1326	112	0
43	l6	1248	0	1339	0	0
44	L7	1784	0	1862	172	0
44	l7	1791	0	1869	0	0
45	L8	1817	0	1908	151	0
45	l8	1763	0	1819	0	0
46	L9	1518	0	1587	151	0
46	l9	1518	0	1587	0	0
47	M0	1717	0	1754	176	0
47	m0	1733	0	1776	0	0
48	M1	1353	0	1383	116	0
48	m1	1353	0	1383	0	0
49	M3	1543	0	1608	162	0
49	m3	1548	0	1613	0	0
50	M4	1053	0	1149	114	0
50	m4	1059	0	1154	0	0
51	M5	1720	0	1779	162	0
51	m5	1720	0	1779	0	0
52	M6	1555	0	1659	135	0
52	m6	1555	0	1658	0	0
53	M7	1442	0	1485	121	0
53	m7	1227	0	1236	0	0
54	M8	1441	0	1543	121	0
54	m8	1441	0	1543	0	0
55	M9	1521	0	1617	114	0
55	m9	1521	0	1617	0	0
56	N0	1445	0	1487	137	0
56	n0	1445	0	1487	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	N1	1276	0	1323	113	0
57	n1	1276	0	1323	0	0
58	N2	796	0	812	51	0
58	n2	778	0	791	0	0
59	N3	1003	0	1048	72	0
59	n3	1003	0	1048	0	0
60	N4	800	0	865	61	0
60	n4	1089	0	1183	0	0
61	N5	968	0	1036	86	0
61	n5	959	0	1023	0	0
62	N6	993	0	1081	88	0
62	n6	993	0	1081	0	0
63	N7	1092	0	1155	126	0
63	n7	1092	0	1155	0	0
64	N8	1173	0	1214	134	0
64	n8	1173	0	1215	0	0
65	N9	462	0	491	37	0
65	n9	462	0	491	0	0
66	O0	743	0	797	70	0
66	o0	767	0	816	0	0
67	O1	890	0	937	61	0
67	o1	890	0	938	0	0
68	O2	1020	0	1090	88	0
68	o2	1020	0	1090	0	0
69	O3	850	0	880	77	0
69	o3	850	0	880	0	0
70	O4	881	0	949	87	0
70	o4	881	0	949	0	0
71	O5	969	0	1078	100	0
71	o5	969	0	1078	0	0
72	O6	771	0	849	73	0
72	o6	771	0	849	0	0
73	O7	681	0	682	69	0
73	o7	681	0	682	0	0
74	O8	612	0	682	41	0
74	o8	612	0	682	0	0
75	O9	436	0	475	37	0
75	o9	436	0	475	0	0
76	Q0	417	0	455	38	0
76	q0	417	0	456	0	0
77	Q1	233	0	284	19	0
77	q1	233	0	284	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
78	Q2	847	0	917	76	0
78	q2	847	0	916	0	0
79	Q3	694	0	734	68	0
79	q3	694	0	734	0	0
80	c0	762	0	690	0	0
81	m2	750	0	175	0	0
82	p0	1077	0	1012	0	0
83	p1	235	0	50	0	0
84	p2	230	0	49	0	0
85	1	2359	0	0	274	0
85	2	1001	0	0	117	0
85	3	70	0	0	5	0
85	4	98	0	0	10	0
85	5	2422	0	0	280	0
85	6	1050	0	0	108	0
85	7	84	0	0	14	0
85	8	126	0	0	18	0
85	C3	7	0	0	0	0
85	C5	7	0	0	3	0
85	C8	7	0	0	0	0
85	D9	7	0	0	2	0
85	L3	14	0	0	3	0
85	L4	7	0	0	5	0
85	M0	7	0	0	2	0
85	M5	14	0	0	1	0
85	M7	14	0	0	3	0
85	M9	7	0	0	0	0
85	N1	7	0	0	2	0
85	N9	7	0	0	0	0
85	O3	7	0	0	3	0
85	O4	7	0	0	1	0
85	O7	14	0	0	3	0
85	Q2	7	0	0	7	0
85	S6	7	0	0	0	0
85	S8	7	0	0	0	0
85	S9	7	0	0	4	0
85	SR	7	0	0	0	0
85	c1	7	0	0	0	0
85	c3	7	0	0	0	0
85	c5	7	0	0	0	0
85	c8	7	0	0	0	0
85	d4	7	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
85	d9	7	0	0	0	0
85	l3	14	0	0	0	0
85	l4	14	0	0	0	0
85	l5	28	0	0	0	0
85	l9	7	0	0	0	0
85	m0	21	0	0	0	0
85	m1	7	0	0	0	0
85	m4	7	0	0	0	0
85	m5	7	0	0	0	0
85	n3	7	0	0	0	0
85	n5	7	0	0	0	0
85	n9	7	0	0	0	0
85	o2	7	0	0	0	0
85	o3	7	0	0	0	0
85	o4	7	0	0	0	0
85	o7	7	0	0	0	0
85	q2	7	0	0	0	0
85	s1	14	0	0	0	0
85	s4	7	0	0	0	0
85	s8	7	0	0	0	0
85	s9	7	0	0	0	0
85	sR	7	0	0	0	0
86	1	395	0	0	0	0
86	2	92	0	0	0	0
86	3	8	0	0	0	0
86	4	16	0	0	0	0
86	5	428	0	0	0	1
86	6	136	0	0	0	0
86	7	11	0	0	0	0
86	8	10	0	0	0	0
86	C2	7	0	0	0	0
86	C9	1	0	0	0	0
86	D1	1	0	0	0	0
86	D3	1	0	0	0	0
86	D9	2	0	0	0	0
86	L2	2	0	0	0	0
86	L3	2	0	0	0	0
86	L4	2	0	0	0	0
86	L5	1	0	0	0	0
86	L7	1	0	0	0	0
86	L9	1	0	0	0	0
86	M0	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
86	M1	1	0	0	0	0
86	M3	1	0	0	0	0
86	M4	1	0	0	0	0
86	M5	1	0	0	0	0
86	M6	2	0	0	0	0
86	M7	6	0	0	0	0
86	M8	1	0	0	0	0
86	M9	1	0	0	0	0
86	MG	6	0	0	0	0
86	N0	1	0	0	0	0
86	N3	2	0	0	0	0
86	N4	1	0	0	0	0
86	N6	1	0	0	0	0
86	N8	1	0	0	0	0
86	N9	1	0	0	0	0
86	O1	1	0	0	0	0
86	O2	1	0	0	0	0
86	O5	1	0	0	0	0
86	O7	2	0	0	0	0
86	Q1	1	0	0	0	0
86	Q2	2	0	0	0	0
86	S4	1	0	0	0	0
86	S8	1	0	0	0	0
86	SM	1	0	0	0	0
86	c1	1	0	0	0	0
86	c8	1	0	0	0	0
86	l3	5	0	0	0	0
86	l4	1	0	0	0	0
86	l7	1	0	0	0	0
86	l9	1	0	0	0	0
86	m0	2	0	0	0	0
86	m1	1	0	0	0	0
86	m3	1	0	0	0	0
86	m4	1	0	0	0	0
86	m6	4	0	0	0	0
86	m7	1	0	0	0	0
86	n0	4	0	0	0	0
86	n3	1	0	0	0	0
86	n6	2	0	0	0	0
86	n8	1	0	0	0	0
86	n9	2	0	0	0	0
86	o1	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
86	o2	1	0	0	0	0
86	o3	1	0	0	0	0
86	o4	1	0	0	0	0
86	p0	1	0	0	0	0
86	q0	1	0	0	0	0
86	q1	1	0	0	0	0
86	s1	1	0	0	0	0
86	s4	1	0	0	0	0
86	s6	1	0	0	0	0
86	sM	2	0	0	0	0
87	D6	1	0	0	0	0
87	D7	1	0	0	0	0
87	D9	1	0	0	0	0
87	E1	1	0	0	0	0
87	O7	1	0	0	0	0
87	Q0	1	0	0	0	0
87	Q2	1	0	0	0	0
87	Q3	1	0	0	0	0
87	d6	1	0	0	0	0
87	d7	1	0	0	0	0
87	d9	1	0	0	0	0
87	e1	1	0	0	0	0
87	o7	1	0	0	0	0
87	q0	1	0	0	0	0
87	q2	1	0	0	0	0
87	q3	1	0	0	0	0
All	All	411776	0	298391	11926	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 17.

All (11926) 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)
36:1:1639:C:OP2	70:O4:74:ARG:NH2	1.96	0.98
1:2:992:A:H2	1:2:1012:U:H3	1.06	0.98
36:1:3272:C:OP2	43:L6:78:ARG:NH1	1.96	0.97
36:1:1466:G:O6	85:1:3415:OHX:N4	1.99	0.96
36:1:1222:G:HO2'	36:1:1285:G:H1	0.98	0.96
1:6:1636:C:H4'	1:6:1637:C:H5'	1.45	0.96
42:L5:134:ALA:HB2	42:L5:141:PRO:HD3	3.14	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:66:ARG:NH2	36:5:744:A:OP1	166.69	0.95
79:Q3:4:ARG:NH1	36:5:837:A:OP2	238.66	0.94
36:5:2273:G:O6	85:5:3703:OHX:N5	2.00	0.94
63:N7:102:GLU:H	63:N7:107:ARG:HH21	2.07	0.94
36:1:655:C:H2'	36:1:656:A:H8	1.33	0.92
36:1:3375:A:O2'	36:1:3378:C:OP2	1.87	0.92
49:M3:46:ILE:HG22	49:M3:49:ARG:HB2	3.71	0.91
36:5:1759:C:N4	36:5:1766:G:O6	2.05	0.90
36:5:1239:C:H42	36:5:1249:G:H1	1.18	0.90
1:2:1587:A:O2'	7:S5:104:ASN:ND2	2.05	0.90
1:2:991:G:OP2	85:2:2010:OHX:N1	2.05	0.90
36:5:3153:U:H4'	36:5:3154:C:H5'	1.54	0.89
16:C4:85:ALA:H	16:C4:119:THR:HG22	1.39	0.88
1:2:1202:A:OP1	85:2:1989:OHX:N1	2.06	0.88
36:5:2836:C:H5	36:5:2852:C:H42	1.20	0.88
57:N1:127:GLN:HG3	36:5:1095:U:H3	261.69	0.88
33:E1:88:PRO:HB2	33:E1:89:LYS:HD3	6.53	0.88
40:L3:81:THR:HG23	40:L3:321:PHE:HA	4.68	0.88
40:L3:266:ARG:NH2	36:5:2392:C:O2'	209.28	0.88
1:6:151:G:H1	1:6:163:G:H1	1.20	0.88
2:S0:9:LEU:HD11	2:S0:14:ALA:HB2	2.37	0.88
36:1:1073:U:H1'	65:N9:50:THR:HG22	1.55	0.87
1:6:900:A:HO2'	1:6:916:U:HO2'	1.21	0.87
70:O4:74:ARG:NH2	36:5:1639:C:OP2	200.09	0.87
61:N5:57:LEU:HD23	61:N5:61:LYS:HG2	5.14	0.87
36:1:1594:A:OP1	70:O4:36:LYS:NZ	2.08	0.87
36:1:1369:A:OP1	64:N8:21:ARG:NH1	2.07	0.87
49:M3:74:GLY:O	49:M3:101:ARG:NH1	2.08	0.87
49:M3:100:ARG:NH1	36:5:76:G:O2'	83.63	0.87
3:S1:36:SER:HB3	3:S1:231:LEU:HB3	1.57	0.86
36:1:2836:C:H5	36:1:2852:C:H42	1.21	0.86
36:1:2206:G:H1	36:1:2237:C:H42	1.22	0.86
1:6:1015:U:OP1	85:6:1910:OHX:N3	2.08	0.86
41:L4:122:THR:HG22	41:L4:235:LEU:HB2	1.56	0.86
46:L9:49:ASN:O	46:L9:51:GLN:N	2.08	0.86
36:5:679:U:O4	85:5:3518:OHX:N2	2.09	0.86
36:5:835:G:O2'	36:5:857:G:N2	2.08	0.86
36:5:2371:G:O6	85:5:3411:OHX:N4	2.09	0.86
38:8:79:A:H3'	38:8:80:A:C8	2.11	0.86
26:D4:117:LYS:HG2	1:6:159:U:H5'	331.74	0.86
36:5:2759:U:H5''	36:5:2760:C:H5'	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:16:ARG:NH2	20:C8:21:ASN:OD1	2.09	0.85
55:M9:35:ALA:O	55:M9:37:SER:N	4.41	0.85
36:1:542:G:H1	36:1:549:U:H3	1.24	0.85
56:N0:6:GLU:OE1	56:N0:99:ARG:NH2	2.95	0.85
63:N7:83:THR:HG23	63:N7:85:TYR:H	1.79	0.85
36:5:2732:G:OP2	85:5:3723:OHX:N1	2.09	0.85
36:1:425:G:O6	85:1:3411:OHX:N6	2.08	0.85
36:1:85:A:O2'	85:1:3679:OHX:N6	2.09	0.85
1:2:1542:G:N2	1:2:1569:A:OP2	2.07	0.85
21:C9:119:LYS:NZ	1:6:1369:U:OP1	442.13	0.85
1:6:67:A:O2'	1:6:69:G:OP1	1.95	0.85
65:N9:23:LYS:HD2	65:N9:24:PRO:HD3	2.55	0.85
8:S6:2:LYS:HB3	8:S6:108:VAL:HG22	1.57	0.85
47:M0:80:SER:HB3	47:M0:147:VAL:HG11	1.59	0.85
59:N3:129:VAL:O	59:N3:133:SER:OG	1.94	0.84
36:5:2705:A:OP2	85:5:3401:OHX:N2	2.09	0.84
5:S3:178:ARG:HE	5:S3:178:ARG:H	1.21	0.84
1:6:1159:C:N3	85:6:1991:OHX:N5	2.25	0.84
60:N4:4:GLU:HG2	60:N4:30:ARG:HD3	1.60	0.84
6:S4:11:ARG:NH1	6:S4:21:ASP:OD2	2.89	0.84
1:6:1173:C:O2	1:6:1601:G:N2	2.09	0.84
10:S8:5:ARG:NH1	10:S8:29:LEU:O	2.09	0.84
7:S5:159:ALA:HB3	7:S5:225:ARG:HB3	3.67	0.84
25:D3:125:VAL:HG12	25:D3:126:LYS:HG3	1.59	0.84
36:1:1015:U:O2'	36:1:1017:C:OP2	1.96	0.84
36:1:3343:G:H21	36:1:3362:A:H2	1.25	0.84
38:4:95:G:OP1	73:O7:76:ASN:ND2	2.10	0.84
36:5:658:G:OP1	85:5:3596:OHX:N5	2.11	0.83
40:L3:41:VAL:HA	40:L3:185:GLY:HA3	1.65	0.83
26:D4:29:HIS:HB3	26:D4:32:ARG:HB2	5.60	0.83
34:SR:149:ASP:HB2	34:SR:175:ASP:HB3	1.65	0.83
1:2:396:G:N7	10:S8:47:ARG:NH2	2.26	0.83
1:6:74:U:H3'	1:6:75:U:H3'	1.58	0.83
36:1:148:G:OP2	51:M5:4:TYR:OH	1.96	0.83
18:C6:128:LYS:NZ	18:C6:134:ALA:O	2.10	0.83
6:S4:117:GLU:O	6:S4:119:ALA:N	3.19	0.83
1:2:1595:U:H3	1:2:1600:A:H2	1.21	0.83
47:M0:142:ASP:OD1	47:M0:178:ARG:NH2	2.11	0.83
37:3:44:C:OP2	48:M1:137:ARG:NH2	2.12	0.83
36:5:2263:C:OP1	85:5:3458:OHX:N2	2.12	0.83
36:1:600:G:N7	85:1:3632:OHX:N1	2.26	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2852:C:N3	47:M0:158:LYS:NZ	2.27	0.83
22:D0:51:VAL:HG13	22:D0:94:GLU:HB2	1.61	0.83
36:5:1152:G:H22	36:5:1200:A:H61	1.24	0.82
1:6:1799:U:H4'	1:6:1800:A:H2'	1.61	0.82
85:1:3495:OHX:N6	44:L7:217:PRO:O	2.12	0.82
41:L4:4:PRO:HD2	41:L4:22:LEU:HB2	4.04	0.82
79:Q3:39:CYS:CB	79:Q3:42:CYS:HB3	5.23	0.82
66:O0:16:LEU:HB3	66:O0:98:SER:HB2	1.61	0.82
1:2:1010:C:OP2	85:2:2010:OHX:N6	2.12	0.82
1:6:1588:G:H1	1:6:1608:U:H3	1.23	0.82
52:M6:72:HIS:O	52:M6:74:ARG:NH1	2.12	0.82
36:1:2704:A:OP2	85:1:3405:OHX:N4	2.13	0.82
63:N7:15:ARG:HB2	63:N7:79:HIS:HD2	1.45	0.82
1:6:826:U:O4	85:6:1920:OHX:N3	2.11	0.82
47:M0:29:SER:HB2	47:M0:125:LEU:HD12	2.47	0.82
56:N0:91:TYR:O	56:N0:137:ARG:NH1	2.13	0.82
1:2:641:G:H1	1:2:693:U:H3	1.26	0.82
36:1:3182:G:OP1	52:M6:160:ARG:NH2	2.11	0.82
21:C9:38:LYS:NZ	1:6:1564:U:OP1	375.99	0.81
40:L3:139:GLN:O	40:L3:141:GLY:N	2.13	0.81
62:N6:2:ALA:N	36:5:213:A:OP1	81.07	0.81
1:2:572:C:OP1	25:D3:109:ARG:NH2	2.11	0.81
30:D8:22:ARG:NH1	1:6:1619:C:O2	340.15	0.81
57:N1:18:ASP:OD2	85:5:3413:OHX:N3	266.86	0.81
71:O5:78:LYS:HA	71:O5:81:ARG:HD3	2.69	0.81
18:C6:112:TYR:O	18:C6:114:ARG:NH1	7.13	0.81
1:2:320:U:H3'	1:2:321:C:H5''	1.62	0.81
37:3:60:G:H2'	37:3:61:G:H8	1.44	0.81
8:S6:59:GLN:HE21	8:S6:72:ARG:HH12	1.27	0.81
36:1:23:A:OP1	85:1:3406:OHX:N5	2.12	0.81
36:1:1898:G:OP2	85:1:3467:OHX:N4	2.13	0.81
36:1:156:G:OP2	72:O6:27:SER:OG	1.99	0.81
47:M0:76:MET:HE3	47:M0:148:VAL:HA	2.48	0.81
1:2:40:A:OP1	11:S9:3:ARG:NH1	2.14	0.81
15:C3:40:TYR:HB3	15:C3:45:LEU:HD12	3.03	0.81
10:S8:76:THR:HG22	10:S8:108:PRO:HG2	1.62	0.81
11:S9:108:ARG:HB2	11:S9:111:THR:HG23	2.58	0.81
36:1:1230:G:H1	36:1:1279:C:H42	1.28	0.81
18:C6:82:ARG:HH12	18:C6:114:ARG:HB2	3.12	0.81
36:1:617:G:H4'	53:M7:171:ARG:HH21	1.46	0.81
36:1:860:G:OP1	79:Q3:17:ARG:NH1	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2233:A:OP2	85:1:3581:OHX:N5	2.14	0.81
47:M0:4:ARG:NH1	36:5:2828:G:O2'	264.33	0.81
36:1:3060:C:OP1	85:1:3576:OHX:N4	2.14	0.81
1:6:454:U:H5''	1:6:455:C:H5	1.44	0.81
39:L2:14:SER:OG	39:L2:15:ILE:N	2.13	0.81
58:N2:49:ASN:O	58:N2:51:GLY:N	2.40	0.81
36:1:1447:G:H3'	53:M7:67:ILE:HD11	1.61	0.80
59:N3:2:SER:OG	59:N3:3:GLY:N	4.15	0.80
36:1:3085:G:OP2	85:1:3423:OHX:N2	2.13	0.80
36:5:3242:G:H5'	36:5:3245:A:H8	1.46	0.80
1:6:1543:A:N6	1:6:1568:C:O2	2.13	0.80
14:C2:61:VAL:HG13	14:C2:121:VAL:HG23	1.63	0.80
8:S6:78:THR:HG23	8:S6:92:ARG:HG2	2.34	0.80
36:5:155:G:H5''	36:5:156:G:C8	2.16	0.80
36:1:3118:C:H4'	76:Q0:106:ARG:HH22	1.46	0.80
27:D5:77:ARG:NH1	1:6:1533:C:OP2	353.13	0.80
40:L3:135:ALA:O	40:L3:137:TYR:N	2.15	0.80
70:O4:46:ASP:HB2	70:O4:80:ARG:HD2	1.63	0.80
71:O5:81:ARG:NH2	36:5:18:G:OP1	76.86	0.80
52:M6:27:LEU:O	52:M6:30:GLY:N	3.24	0.80
7:S5:149:VAL:HG11	7:S5:156:ARG:HG3	4.20	0.80
36:1:1565:G:N2	36:1:1574:C:N3	2.30	0.80
5:S3:75:LYS:HB3	12:C0:22:VAL:HG22	2.29	0.80
2:S0:150:ASP:OD1	2:S0:165:ARG:NH2	2.13	0.80
3:S1:36:SER:OG	3:S1:37:THR:N	2.15	0.80
49:M3:63:VAL:HG22	36:5:72:C:H5'	113.23	0.80
1:6:918:U:H2'	1:6:919:A:H8	1.45	0.80
28:D6:10:ARG:HD3	28:D6:34:LYS:HA	3.31	0.80
2:S0:205:ARG:NH1	19:C7:81:LYS:O	4.52	0.80
36:1:1949:G:OP1	55:M9:104:ARG:NH1	2.14	0.80
36:5:1231:A:H5''	36:5:1232:C:H5'	1.64	0.80
77:Q1:21:ARG:NH1	1:6:1654:G:OP1	282.56	0.80
5:S3:40:ARG:HG2	22:D0:110:PRO:HB3	2.27	0.80
36:1:3348:G:H1	36:1:3357:U:H3	1.29	0.80
36:5:1934:G:O6	85:5:3418:OHX:N2	2.15	0.80
42:L5:276:LYS:HB2	37:7:61:G:H5''	326.32	0.80
1:2:1344:A:N6	1:2:1377:U:O2'	2.15	0.79
1:6:1579:U:OP1	85:6:2036:OHX:N4	2.15	0.79
41:L4:292:SER:OG	41:L4:293:SER:N	2.08	0.79
36:5:339:C:OP1	36:5:1380:G:O2'	1.98	0.79
53:M7:127:ARG:NH2	36:5:1508:C:OP1	138.04	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:185:ARG:HH21	23:D1:47:PRO:HG3	3.52	0.79
36:1:1383:G:O6	85:1:3417:OHX:N3	2.15	0.79
36:5:2128:C:OP1	85:5:3594:OHX:N3	2.15	0.79
1:6:1010:C:OP2	85:6:2025:OHX:N3	2.14	0.79
18:C6:97:VAL:HG12	18:C6:98:ASP:H	2.07	0.79
19:C7:82:ASP:O	19:C7:83:GLN:NE2	2.15	0.79
85:2:1917:OHX:N1	25:D3:64:PRO:O	2.15	0.79
42:L5:60:ILE:HB	42:L5:80:SER:HB3	2.99	0.79
26:D4:14:SER:HB2	26:D4:21:LYS:HE3	1.63	0.79
41:L4:89:ALA:O	41:L4:91:GLY:N	2.14	0.79
59:N3:81:GLN:O	59:N3:98:ASN:ND2	2.15	0.79
74:O8:3:ARG:NH2	36:5:1824:U:OP1	149.40	0.79
10:S8:8:ARG:HD3	10:S8:21:PHE:HD1	1.47	0.79
63:N7:12:VAL:HB	63:N7:81:LEU:HB3	3.59	0.79
9:S7:50:ASP:N	9:S7:50:ASP:OD1	2.16	0.79
56:N0:115:ARG:NH1	36:5:1295:G:O2'	294.97	0.79
36:5:3194:C:O2	36:5:3197:G:N2	2.15	0.79
38:8:79:A:H3'	38:8:80:A:H8	1.46	0.79
45:L8:100:GLU:OE2	45:L8:108:ARG:NH1	2.82	0.79
3:S1:77:GLU:OE1	16:C4:114:ARG:NH2	2.15	0.79
5:S3:113:LEU:HD21	5:S3:117:ARG:HH11	1.47	0.79
36:1:2827:U:O4	85:1:3403:OHX:N4	2.15	0.79
36:1:781:G:N7	85:1:3477:OHX:N5	2.28	0.79
1:2:1487:A:OP1	31:D9:34:TYR:OH	2.01	0.79
16:C4:38:THR:HG21	1:6:895:G:H21	263.12	0.79
3:S1:40:ASN:ND2	3:S1:42:ASN:O	2.16	0.79
6:S4:199:GLU:HB2	6:S4:207:LEU:HB2	1.62	0.79
36:1:3087:A:OP1	85:1:3720:OHX:N2	2.15	0.79
1:2:1153:G:H1	1:2:1625:C:H42	1.29	0.79
40:L3:194:TRP:O	40:L3:198:HIS:ND1	2.15	0.79
41:L4:204:GLY:O	41:L4:246:ARG:NH1	2.82	0.79
48:M1:90:GLN:HG2	48:M1:170:ASP:HB2	1.65	0.79
52:M6:18:ARG:NH2	36:5:1318:A:OP1	277.42	0.79
1:2:1585:U:H3	1:2:1611:A:H2	1.31	0.79
36:5:437:G:N7	85:5:3743:OHX:N6	2.31	0.79
36:5:437:G:N7	85:5:3743:OHX:N3	2.30	0.79
12:C0:25:LYS:NZ	1:6:1435:G:N7	419.59	0.79
4:S2:179:VAL:O	4:S2:198:THR:OG1	2.00	0.79
7:S5:94:THR:HG22	7:S5:114:ILE:HG13	2.08	0.79
76:Q0:79:GLU:HG2	76:Q0:82:LEU:HG	1.63	0.79
4:S2:56:ILE:HG23	4:S2:61:LEU:HB2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:8:ARG:NH2	10:S8:19:ALA:O	2.16	0.79
85:1:3620:OHX:N4	55:M9:14:VAL:O	2.15	0.78
36:1:640:U:OP1	64:N8:21:ARG:NH2	2.16	0.78
20:C8:49:LYS:NZ	20:C8:79:TYR:O	2.16	0.78
44:L7:173:LEU:HD23	44:L7:178:ILE:HG21	1.65	0.78
51:M5:49:ARG:NH1	36:5:149:U:OP2	100.87	0.78
52:M6:15:LEU:HD21	52:M6:125:ARG:HG3	1.64	0.78
58:N2:59:ASP:O	58:N2:61:THR:N	2.17	0.78
67:O1:88:PRO:HG2	67:O1:89:LEU:HD13	1.65	0.78
8:S6:120:GLU:HG3	8:S6:125:THR:HB	1.65	0.78
1:2:623:A:OP1	85:2:2036:OHX:N1	2.16	0.78
64:N8:74:ASN:HB3	64:N8:115:LYS:H	1.47	0.78
1:2:190:C:N4	1:2:196:G:O6	2.17	0.78
1:2:789:A:O2'	6:S4:106:LYS:NZ	2.16	0.78
19:C7:8:THR:HG21	1:6:1330:G:H21	419.95	0.78
50:M4:16:GLU:HB3	56:N0:149:LYS:HB3	2.90	0.78
3:S1:129:THR:HA	3:S1:177:GLN:HA	1.66	0.78
10:S8:18:ARG:NH1	1:6:105:A:OP1	305.20	0.78
36:5:2810:C:OP1	85:5:3583:OHX:N3	2.16	0.78
46:L9:171:ASP:OD2	46:L9:173:ARG:NH1	2.17	0.78
36:5:1238:C:O2'	36:5:1239:C:OP1	2.02	0.78
70:O4:41:ARG:HG2	70:O4:56:THR:HG21	1.84	0.78
1:2:1067:C:H5''	3:S1:150:VAL:HG23	1.65	0.78
1:2:1488:G:H3'	1:2:1515:A:H61	1.48	0.78
36:5:1840:U:OP2	85:5:3543:OHX:N4	2.16	0.78
1:6:1542:G:N2	1:6:1569:A:OP2	2.16	0.78
16:C4:127:ARG:HG3	28:D6:22:ARG:HH12	1.48	0.78
16:C4:50:ALA:O	16:C4:52:ARG:N	2.22	0.78
41:L4:197:ARG:NH1	36:5:1381:A:OP1	108.72	0.78
45:L8:109:LEU:O	45:L8:113:ALA:N	2.16	0.78
34:SR:89:LEU:HB2	34:SR:103:PHE:HB2	1.63	0.78
38:4:83:C:H1'	38:4:85:G:H21	1.48	0.78
65:N9:50:THR:HB	36:5:1073:U:H1'	206.57	0.78
36:5:2169:G:O6	85:5:3456:OHX:N5	2.17	0.78
16:C4:125:SER:OG	16:C4:126:THR:N	2.16	0.78
20:C8:52:VAL:HG21	20:C8:69:ILE:HD11	3.33	0.78
47:M0:66:GLU:OE1	47:M0:69:ARG:NH2	2.17	0.78
55:M9:5:ARG:NH2	36:5:1471:U:OP1	122.50	0.78
8:S6:177:ARG:NH2	1:6:143:G:N7	311.88	0.78
36:5:813:G:N2	36:5:927:C:O2	2.14	0.78
47:M0:174:THR:HG23	47:M0:176:LEU:H	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:62:ARG:NH1	36:5:412:G:OP1	159.13	0.78
36:1:45:A:OP1	85:Q2:502:OHX:N1	2.17	0.78
36:1:2169:G:O6	85:1:3448:OHX:N4	2.17	0.77
36:1:655:C:H2'	36:1:656:A:C8	2.18	0.77
36:5:1059:G:OP2	85:5:3652:OHX:N3	2.17	0.77
64:N8:4:ARG:NH2	36:5:1427:U:OP2	135.68	0.77
36:5:3274:A:H3'	36:5:3275:U:H5''	1.63	0.77
36:1:371:G:O6	85:1:3719:OHX:N4	2.17	0.77
17:C5:37:ALA:O	17:C5:42:ARG:NH1	2.99	0.77
11:S9:109:LEU:HB2	11:S9:146:PHE:HB3	1.64	0.77
1:2:1564:U:H2'	1:2:1565:C:H6	1.49	0.77
36:5:3066:U:O4	85:5:3609:OHX:N4	2.17	0.77
28:D6:37:LYS:O	28:D6:38:ARG:NH1	2.17	0.77
54:M8:176:ARG:NH1	64:N8:46:ASP:OD2	2.18	0.77
6:S4:153:ASN:O	6:S4:174:LYS:NZ	2.17	0.77
40:L3:152:LYS:HG2	40:L3:192:VAL:HG11	1.65	0.77
47:M0:169:LYS:H	47:M0:169:LYS:HE2	5.01	0.77
51:M5:149:ASN:OD1	85:M5:302:OHX:N2	2.17	0.77
36:5:742:G:N7	85:5:3506:OHX:N4	2.32	0.77
36:5:917:A:OP2	85:5:3728:OHX:N3	2.16	0.77
8:S6:115:LYS:HE3	60:N4:74:LYS:HD3	4.35	0.77
62:N6:112:ASP:HB2	62:N6:115:ARG:HB2	1.66	0.77
1:2:1297:G:N2	1:2:1300:A:OP2	2.17	0.77
1:2:514:G:H1	1:2:543:C:H5	1.32	0.77
36:5:980:A:H2'	36:5:981:U:C2	2.20	0.77
50:M4:55:ARG:NH2	50:M4:76:ALA:O	2.21	0.77
50:M4:80:THR:HG21	36:5:560:G:H5'	354.51	0.77
61:N5:34:LEU:HD22	61:N5:35:PRO:HD2	2.23	0.77
1:6:1698:G:N2	1:6:1699:G:N7	2.32	0.77
73:O7:35:SER:O	73:O7:45:ARG:NH1	2.17	0.77
1:2:1300:A:OP1	4:S2:99:LYS:NZ	2.17	0.77
36:1:1348:U:O2	36:1:1349:G:N2	2.18	0.77
1:6:868:G:H1	1:6:960:U:H3	1.29	0.77
69:O3:88:ASN:OD1	85:O3:201:OHX:N2	2.18	0.77
5:S3:53:THR:HG21	5:S3:94:ARG:HB3	2.44	0.77
10:S8:61:GLU:HG3	10:S8:62:THR:HG23	1.97	0.77
44:L7:217:PRO:O	85:5:3505:OHX:N6	259.37	0.77
10:S8:11:ARG:NH1	10:S8:15:GLY:O	2.72	0.77
36:1:2160:G:H1	36:1:2174:G:H1	1.31	0.77
1:6:1011:G:OP2	85:6:1975:OHX:N3	2.18	0.77
1:6:1696:G:O2'	1:6:1698:G:N7	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:O4:95:ILE:HG22	70:O4:99:LYS:HE2	1.66	0.77
36:5:3328:G:OP2	85:5:3539:OHX:N2	2.18	0.76
1:6:230:C:N3	1:6:235:G:N2	2.32	0.76
36:1:2705:A:OP2	85:1:3405:OHX:N1	2.18	0.76
78:Q2:45:ARG:NH2	36:5:283:G:OP2	147.13	0.76
47:M0:47:PRO:HD2	47:M0:141:LYS:HA	1.67	0.76
1:2:1173:C:H3'	20:C8:141:THR:HG21	1.66	0.76
45:L8:84:ARG:HE	45:L8:84:ARG:H	1.33	0.76
48:M1:94:ARG:O	48:M1:96:PHE:N	2.50	0.76
55:M9:90:PRO:HB2	55:M9:93:VAL:HG23	1.67	0.76
11:S9:8:TYR:O	85:S9:201:OHX:N4	4.94	0.76
36:1:1752:A:OP2	85:1:3584:OHX:N5	2.17	0.76
36:5:1024:G:N2	36:5:1026:A:OP2	2.18	0.76
55:M9:82:LYS:NZ	36:5:2115:G:O2'	206.16	0.76
62:N6:13:ARG:NH1	38:8:24:G:OP2	87.51	0.76
16:C4:25:ASP:OD1	16:C4:26:THR:N	2.60	0.76
36:5:1878:G:OP1	85:5:3459:OHX:N5	2.19	0.76
36:5:1779:C:N3	85:5:3508:OHX:N1	2.34	0.76
1:6:471:A:OP2	85:6:1957:OHX:N5	2.19	0.76
7:S5:117:THR:HG21	7:S5:194:LEU:HD12	1.68	0.76
36:5:1938:U:O4	85:5:3452:OHX:N1	2.18	0.76
1:6:1151:A:O2'	1:6:1766:A:N7	2.18	0.76
20:C8:120:ARG:NH2	35:SM:58:GLU:OE1	2.18	0.76
36:5:2444:C:H42	36:5:2503:G:H1	1.34	0.76
49:M3:43:ALA:O	49:M3:137:GLN:NE2	3.99	0.76
49:M3:140:SER:OG	49:M3:141:ALA:N	2.19	0.76
49:M3:165:SER:O	49:M3:167:PHE:N	2.19	0.76
36:1:1433:A:N3	68:O2:27:ARG:NH1	2.34	0.76
8:S6:87:ARG:NH2	1:6:161:U:OP2	314.19	0.76
1:6:228:G:N2	1:6:237:C:N3	2.34	0.76
47:M0:175:ASN:OD1	47:M0:176:LEU:N	4.98	0.76
67:O1:20:LEU:HD11	67:O1:32:ALA:HB2	2.10	0.76
34:SR:82:SER:HG	34:SR:92:TRP:HE1	2.74	0.76
11:S9:133:HIS:NE2	1:6:513:U:OP1	447.66	0.76
47:M0:77:THR:O	47:M0:81:GLY:N	2.39	0.76
75:O9:26:TRP:HA	75:O9:29:LEU:HD23	3.78	0.76
72:O6:4:LYS:HD2	72:O6:14:GLY:HA3	3.44	0.76
3:S1:181:LEU:O	3:S1:184:LEU:N	2.19	0.76
1:6:1280:C:H2'	1:6:1281:G:H8	1.51	0.75
10:S8:52:ASN:OD1	85:6:1990:OHX:N3	309.53	0.75
18:C6:112:TYR:OH	18:C6:114:ARG:NH1	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1459:C:OP1	20:C8:126:ARG:NH2	2.18	0.75
21:C9:52:GLY:HA2	21:C9:55:TYR:HD2	2.04	0.75
50:M4:132:LYS:HD3	36:5:3230:G:H4'	286.45	0.75
64:N8:14:HIS:O	64:N8:16:SER:N	2.17	0.75
3:S1:62:LYS:O	3:S1:64:ARG:N	2.17	0.75
9:S7:67:LEU:HG	9:S7:94:ALA:HB2	2.79	0.75
1:6:1488:G:O2'	1:6:1494:C:O2	2.02	0.75
18:C6:122:ARG:HB3	1:6:1584:G:H5''	396.70	0.75
55:M9:43:LYS:O	55:M9:47:ASN:ND2	2.18	0.75
1:2:1280:C:H2'	1:2:1281:G:H8	1.52	0.75
26:D4:112:LYS:NZ	26:D4:113:ASN:OD1	2.16	0.75
36:5:272:G:OP2	85:5:3578:OHX:N6	2.20	0.75
44:L7:100:ARG:NH2	54:M8:4:ASP:OD1	2.19	0.75
65:N9:14:ARG:HH12	65:N9:18:ARG:HH11	3.02	0.75
36:1:412:G:OP1	53:M7:62:ARG:NH1	2.19	0.75
1:2:57:G:O6	85:2:1924:OHX:N3	2.20	0.75
42:L5:31:TYR:OH	36:5:2705:A:OP1	257.93	0.75
9:S7:138:LYS:O	9:S7:139:ARG:NE	2.20	0.75
1:2:591:A:H2'	1:2:592:A:C8	2.22	0.75
36:5:618:C:O2'	36:5:621:A:N3	2.19	0.75
33:E1:108:VAL:HB	33:E1:114:VAL:HG22	1.68	0.75
45:L8:240:ASN:HA	45:L8:243:GLN:HB2	1.66	0.75
63:N7:17:ARG:NH2	36:5:1634:G:N7	198.66	0.75
74:O8:31:LEU:HA	74:O8:37:PRO:HA	1.68	0.75
78:Q2:48:SER:O	85:Q2:502:OHX:N3	3.91	0.75
36:1:2777:G:H4'	36:1:2778:G:H5''	1.67	0.75
17:C5:77:ARG:NH1	1:6:1241:G:OP2	383.15	0.75
33:E1:97:LYS:NZ	1:6:1253:U:O4	440.16	0.75
21:C9:89:ARG:NH2	1:6:1562:G:OP1	375.74	0.75
36:1:994:G:H3'	57:N1:13:TYR:HD2	1.51	0.75
36:1:1618:G:H4'	38:4:129:C:H1'	1.67	0.75
36:1:2371:G:O6	85:1:3408:OHX:N3	2.20	0.75
36:1:1194:G:OP1	85:1:3500:OHX:N1	2.20	0.75
37:3:28:C:OP2	42:L5:57:ASN:ND2	2.20	0.75
36:5:1940:G:H21	36:5:3362:A:H8	1.34	0.75
1:6:1765:A:OP1	85:6:1980:OHX:N2	2.20	0.75
48:M1:6:GLN:O	48:M1:7:ASN:ND2	2.20	0.75
72:O6:54:GLU:OE2	72:O6:86:LYS:NZ	2.20	0.75
6:S4:159:THR:HB	6:S4:227:VAL:HG23	1.67	0.75
36:1:917:A:OP2	85:1:3682:OHX:N2	2.20	0.75
17:C5:15:HIS:H	17:C5:22:LEU:HD22	3.77	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2688:U:OP1	42:L5:12:TYR:OH	2.03	0.74
36:1:912:G:OP2	39:L2:9:ARG:NH1	2.14	0.74
47:M0:116:ARG:NH2	36:5:2617:U:O3'	228.22	0.74
11:S9:44:ARG:NH2	1:6:474:A:OP2	414.86	0.74
19:C7:27:ASP:O	19:C7:31:ASN:ND2	3.82	0.74
34:SR:76:ASP:OD1	34:SR:76:ASP:N	2.19	0.74
36:1:283:G:OP1	78:Q2:45:ARG:NH2	2.20	0.74
13:C1:132:SER:O	13:C1:134:THR:N	3.57	0.74
41:L4:141:ARG:O	41:L4:144:LYS:NZ	9.12	0.74
47:M0:42:THR:HG23	47:M0:45:GLU:HB2	1.69	0.74
51:M5:23:GLN:HG2	51:M5:122:ASN:HD21	1.52	0.74
36:1:1320:C:O2	56:N0:115:ARG:NH2	2.20	0.74
50:M4:60:LEU:HD13	56:N0:152:LEU:HD11	1.68	0.74
67:O1:74:ARG:HH12	67:O1:109:VAL:HG21	1.52	0.74
1:6:158:U:O2'	1:6:160:C:OP2	2.03	0.74
1:6:827:C:H2'	1:6:828:U:H6	1.52	0.74
37:7:77:G:N2	37:7:102:A:OP2	2.19	0.74
14:C2:76:GLU:OE2	14:C2:90:LYS:NZ	2.17	0.74
41:L4:269:SER:O	41:L4:271:LYS:N	2.20	0.74
45:L8:45:ASN:HD21	45:L8:47:SER:HB3	1.51	0.74
72:O6:66:GLU:OE1	72:O6:70:ARG:NH2	2.85	0.74
36:5:2568:C:N4	36:5:2574:G:O6	2.21	0.74
72:O6:33:ALA:HB1	72:O6:38:LYS:HD2	4.53	0.74
1:6:58:U:O2'	1:6:451:A:N3	2.20	0.74
9:S7:131:PHE:O	9:S7:133:THR:N	2.20	0.74
35:SM:102:THR:OG1	35:SM:103:LYS:N	2.17	0.74
38:4:124:G:H1	38:4:129:C:H42	1.35	0.74
36:5:2970:C:H4'	36:5:2971:A:N1	2.03	0.74
36:5:1383:G:O6	85:5:3439:OHX:N6	2.21	0.74
21:C9:117:SER:HB2	21:C9:123:ARG:HB3	2.42	0.74
42:L5:22:ARG:NH1	42:L5:28:THR:OG1	5.10	0.74
52:M6:27:LEU:HD22	52:M6:101:ARG:HB2	2.04	0.74
6:S4:195:ILE:HG22	6:S4:196:VAL:H	3.42	0.74
36:1:1304:A:N6	36:1:2860:U:OP1	2.21	0.74
1:2:1610:G:H5''	7:S5:107:LYS:HB2	1.68	0.74
20:C8:49:LYS:HG3	20:C8:81:ILE:HD11	2.23	0.74
21:C9:52:GLY:O	21:C9:54:PHE:N	2.19	0.74
33:E1:119:ARG:NH2	33:E1:120:GLU:O	8.57	0.74
59:N3:87:ARG:HH12	59:N3:137:VAL:HG11	3.26	0.74
69:O3:85:PHE:O	85:O3:201:OHX:N2	4.47	0.74
9:S7:50:ASP:HB3	9:S7:56:LYS:HG2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:104:A:OP2	1:2:308:C:N4	2.21	0.74
79:Q3:4:ARG:NH2	36:5:838:G:O6	237.05	0.74
6:S4:108:ARG:NH1	1:6:788:A:OP2	397.22	0.74
24:D2:30:SER:HB3	24:D2:59:GLY:HA3	3.11	0.74
36:1:695:C:OP1	41:L4:271:LYS:NZ	2.21	0.74
2:S0:8:ASP:O	2:S0:54:TRP:NE1	4.03	0.74
11:S9:82:ARG:HH11	11:S9:149:ARG:HD3	6.54	0.74
25:D3:91:GLY:O	25:D3:93:LEU:N	2.20	0.74
48:M1:96:PHE:HB2	48:M1:156:LYS:HE3	1.70	0.74
7:S5:200:ASN:HB3	7:S5:208:SER:HB2	4.36	0.74
36:1:1235:U:H4'	36:1:1236:G:H5'	1.69	0.74
36:1:3187:A:H5'	46:L9:22:SER:HA	1.69	0.74
1:2:749:U:H3	1:2:800:U:H3	1.35	0.74
36:5:566:G:N7	85:5:3635:OHX:N5	2.35	0.74
17:C5:127:ARG:O	17:C5:130:ARG:NH1	5.43	0.74
23:D1:74:GLN:NE2	23:D1:81:ASN:O	2.19	0.74
13:C1:99:ARG:NH1	25:D3:7:ARG:O	2.21	0.74
47:M0:156:ARG:NH1	47:M0:163:GLN:O	3.26	0.74
2:S0:139:VAL:HG23	4:S2:62:PRO:HG3	1.76	0.74
36:1:1951:C:H42	36:1:2095:G:H1	1.34	0.73
36:1:2532:U:H3	36:1:2547:A:H61	1.32	0.73
62:N6:88:GLU:HG3	62:N6:94:SER:HB2	1.70	0.73
1:2:1589:C:OP1	85:2:2039:OHX:N1	2.19	0.73
36:5:1614:C:H2'	36:5:1615:C:H6	1.51	0.73
36:5:668:G:OP1	85:5:3645:OHX:N1	2.21	0.73
64:N8:27:LYS:NZ	36:5:801:A:OP1	154.77	0.73
1:6:301:A:OP2	85:6:1947:OHX:N1	2.21	0.73
46:L9:168:ARG:NH2	36:5:2894:C:OP1	303.79	0.73
72:O6:76:ARG:HE	72:O6:76:ARG:HA	1.52	0.73
36:1:410:U:O4	85:1:3593:OHX:N5	2.21	0.73
1:2:1767:G:OP2	1:2:1770:U:O2'	2.06	0.73
36:5:1365:G:OP2	85:5:3533:OHX:N3	2.21	0.73
51:M5:188:ARG:NH2	36:5:31:C:OP2	121.40	0.73
56:N0:155:ARG:HG2	56:N0:155:ARG:HH21	1.53	0.73
71:O5:78:LYS:HA	71:O5:81:ARG:HD2	1.68	0.73
72:O6:79:SER:HB3	72:O6:82:ARG:HG3	5.25	0.73
3:S1:181:LEU:O	3:S1:183:GLN:N	2.21	0.73
8:S6:98:ARG:NH2	8:S6:101:ILE:O	2.19	0.73
34:SR:171:SER:HG	34:SR:181:TRP:HE1	2.40	0.73
38:4:63:G:O2'	71:O5:49:LYS:NZ	2.19	0.73
19:C7:99:VAL:HG13	19:C7:118:PRO:HB2	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:62:ARG:HH22	24:D2:20:THR:HG22	1.53	0.73
55:M9:87:ALA:O	85:5:3508:OHX:N5	205.23	0.73
8:S6:115:LYS:HG3	60:N4:74:LYS:HE2	1.68	0.73
10:S8:82:VAL:HG13	10:S8:101:ILE:HG22	5.92	0.73
34:SR:13:LEU:HB2	34:SR:310:ILE:HB	1.71	0.73
36:1:2573:G:O6	85:1:3534:OHX:N3	2.22	0.73
1:2:1056:U:O2'	3:S1:202:LYS:NZ	2.19	0.73
36:5:1639:C:H2'	36:5:1640:G:H8	1.52	0.73
36:5:368:G:OP1	85:5:3427:OHX:N4	2.22	0.73
36:5:409:A:OP2	85:5:3606:OHX:N3	2.22	0.73
36:5:801:A:O2'	85:5:3532:OHX:N1	2.21	0.73
1:6:886:U:H2'	1:6:887:A:H8	1.53	0.73
17:C5:127:ARG:NH2	35:SM:65:THR:OG1	2.21	0.73
42:L5:111:GLN:HA	42:L5:116:ASP:HB3	3.67	0.73
47:M0:81:GLY:O	47:M0:83:ASP:N	2.50	0.73
65:N9:47:LEU:HA	65:N9:50:THR:HG23	1.71	0.73
34:SR:10:ARG:NH1	34:SR:51:ASP:OD1	5.52	0.73
36:1:2687:G:OP1	42:L5:8:LYS:NZ	2.17	0.73
36:1:3308:C:N3	53:M7:69:ARG:NH1	2.36	0.73
36:1:3066:U:O4	85:1:3673:OHX:N5	2.21	0.73
27:D5:60:VAL:HG22	27:D5:101:TYR:HB2	1.71	0.73
41:L4:287:THR:O	41:L4:291:ASN:ND2	4.52	0.73
36:1:413:U:OP1	53:M7:30:ARG:NH2	2.21	0.73
2:S0:117:GLU:O	4:S2:40:LYS:NZ	2.21	0.73
2:S0:13:ASP:OD1	2:S0:179:ARG:NH2	2.21	0.73
19:C7:103:ASP:HA	19:C7:122:ILE:HB	4.72	0.73
36:1:1722:U:OP1	55:M9:100:ARG:NH1	2.21	0.73
55:M9:13:SER:OG	55:M9:38:ARG:NH2	2.22	0.73
8:S6:105:ASP:OD2	8:S6:105:ASP:N	2.67	0.73
38:4:91:C:H2'	38:4:92:A:H8	1.53	0.73
1:6:1324:G:N7	85:6:1958:OHX:N2	2.37	0.73
72:O6:26:ILE:O	72:O6:28:TYR:N	2.20	0.73
7:S5:57:SER:O	7:S5:59:VAL:N	2.22	0.73
1:2:415:C:O2	1:2:418:G:N1	2.18	0.73
1:2:715:U:H3	1:2:723:G:H1	1.35	0.73
1:2:823:G:H2'	1:2:824:G:C8	2.24	0.73
36:5:2233:A:OP2	85:5:3464:OHX:N5	2.22	0.73
47:M0:129:VAL:HG12	47:M0:130:ASP:H	2.69	0.73
52:M6:12:LYS:O	56:N0:167:ARG:NH2	2.21	0.73
68:O2:19:ARG:HH11	68:O2:28:VAL:HG13	2.74	0.73
73:O7:43:LYS:NZ	36:5:55:G:OP1	114.74	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:122:ILE:HG23	2:S0:144:ILE:HB	2.65	0.73
34:SR:258:THR:O	34:SR:275:ARG:NH1	2.21	0.73
36:1:1460:A:H2'	36:1:1461:A:H8	1.54	0.73
36:5:863:C:OP1	85:5:3419:OHX:N3	2.22	0.73
20:C8:91:ASP:OD1	20:C8:92:ILE:N	2.66	0.73
41:L4:283:THR:HG22	41:L4:285:ASP:H	1.51	0.73
1:2:169:A:H5''	8:S6:176:GLN:HG2	1.71	0.72
18:C6:139:GLN:NE2	1:6:1465:C:OP1	352.08	0.72
42:L5:132:THR:HG21	42:L5:170:GLY:HA2	2.02	0.72
46:L9:28:VAL:HG13	46:L9:33:THR:HB	1.71	0.72
46:L9:16:VAL:HG12	46:L9:29:GLY:HA3	1.71	0.72
47:M0:218:ALA:O	85:M0:301:OHX:N3	73.08	0.72
69:O3:86:ARG:O	85:O3:201:OHX:N1	2.22	0.72
5:S3:176:LEU:HA	5:S3:181:VAL:HG12	4.87	0.72
36:1:2185:G:O2'	36:1:2314:U:OP2	2.07	0.72
36:1:1878:G:OP1	85:1:3463:OHX:N4	2.22	0.72
36:5:2560:C:O2	85:5:3535:OHX:N2	2.22	0.72
39:L2:143:GLU:O	39:L2:145:LYS:N	2.41	0.72
40:L3:180:GLU:OE2	36:5:3002:C:O2'	234.39	0.72
45:L8:171:LYS:NZ	45:L8:223:ALA:O	2.21	0.72
63:N7:9:LYS:HB3	63:N7:25:ILE:HD12	1.92	0.72
7:S5:120:ILE:HG23	27:D5:59:TYR:HE1	1.53	0.72
11:S9:27:GLU:OE1	11:S9:39:LYS:NZ	2.73	0.72
34:SR:267:PRO:HD2	34:SR:269:TYR:HE1	3.02	0.72
1:2:1169:G:N1	1:2:1575:G:OP2	2.20	0.72
36:5:1414:G:O6	85:5:3651:OHX:N1	2.22	0.72
16:C4:107:ARG:HH21	16:C4:107:ARG:HB2	2.61	0.72
24:D2:15:ASN:HD21	24:D2:72:CYS:H	1.35	0.72
27:D5:71:ILE:HG21	27:D5:76:ALA:HB2	3.58	0.72
42:L5:36:LEU:HD23	36:5:2748:A:N3	254.85	0.72
49:M3:36:ARG:O	49:M3:38:ALA:N	3.92	0.72
36:1:2416:U:H2'	36:1:2417:U:C6	2.25	0.72
1:2:520:A:H2'	1:2:521:A:C8	2.24	0.72
38:4:55:U:O2	85:4:206:OHX:N6	2.23	0.72
15:C3:93:LYS:HG3	15:C3:150:VAL:HG11	1.70	0.72
25:D3:70:LYS:HE2	32:E0:11:ALA:HB2	2.55	0.72
47:M0:38:LYS:HG2	47:M0:41:ALA:HB2	3.13	0.72
59:N3:2:SER:N	59:N3:56:ASP:OD1	5.42	0.72
62:N6:45:ILE:HD12	62:N6:119:ILE:HG23	1.71	0.72
73:O7:62:GLY:O	85:8:204:OHX:N3	82.35	0.72
2:S0:83:GLN:N	2:S0:204:TYR:OH	11.26	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:114:VAL:HB	60:N4:74:LYS:HD3	1.71	0.72
10:S8:89:GLU:OE1	10:S8:92:ARG:NH2	2.22	0.72
1:2:1542:G:N2	1:2:1568:C:H1'	2.05	0.72
36:5:783:A:OP2	85:5:3697:OHX:N3	2.23	0.72
1:6:1745:G:O6	85:6:1932:OHX:N4	2.22	0.72
39:L2:144:ASN:O	39:L2:160:SER:N	2.44	0.72
41:L4:145:ILE:O	85:L4:401:OHX:N4	4.89	0.72
46:L9:48:VAL:HG13	46:L9:52:LEU:HB3	1.72	0.72
47:M0:14:ASN:O	47:M0:128:ARG:NH2	2.23	0.72
6:S4:49:ARG:NH1	1:6:448:C:OP2	379.99	0.72
9:S7:66:SER:O	9:S7:68:ALA:N	2.70	0.72
10:S8:48:THR:OG1	10:S8:52:ASN:O	2.07	0.72
36:5:1717:U:H2'	36:5:1718:G:C8	2.24	0.72
1:6:1670:G:N7	85:6:2044:OHX:N4	2.36	0.72
42:L5:68:THR:HG22	42:L5:70:THR:H	1.54	0.72
73:O7:24:ARG:HB3	73:O7:24:ARG:HH11	3.19	0.72
11:S9:31:ALA:HA	11:S9:36:LEU:HD12	1.72	0.72
36:1:345:G:OP1	36:1:1429:G:N1	2.18	0.72
1:2:1471:A:OP1	7:S5:185:ARG:NH1	2.22	0.72
37:7:64:A:H5'	37:7:65:G:H5''	1.71	0.72
41:L4:226:GLU:OE1	41:L4:237:GLN:NE2	2.19	0.72
41:L4:44:LYS:HB3	41:L4:47:ARG:NH1	2.93	0.72
50:M4:13:ARG:NH1	50:M4:65:LEU:O	2.24	0.72
3:S1:35:PRO:HB3	3:S1:231:LEU:HD21	6.72	0.72
36:1:2155:G:O2'	39:L2:227:ARG:NH2	2.23	0.72
49:M3:58:VAL:HG13	36:5:75:G:H5''	88.28	0.72
55:M9:25:ASP:HB3	55:M9:28:GLU:HB2	2.75	0.72
56:N0:89:ASN:HD21	57:N1:156:TYR:HB3	1.52	0.72
62:N6:83:ASP:O	62:N6:84:LYS:HB2	1.89	0.72
72:O6:58:ILE:HA	72:O6:61:ILE:HG13	2.25	0.72
10:S8:138:ASN:HA	10:S8:141:ARG:HD3	4.79	0.72
3:S1:152:ARG:NH1	1:6:1799:U:O2'	343.29	0.72
21:C9:16:ASN:OD1	21:C9:56:LYS:NZ	2.22	0.72
24:D2:55:ASP:O	24:D2:57:ARG:N	2.93	0.72
25:D3:46:SER:OG	25:D3:78:LYS:NZ	3.14	0.72
36:1:789:A:H2'	36:1:790:U:C6	2.25	0.72
1:2:150:U:OP1	26:D4:123:LYS:NZ	2.15	0.72
40:L3:10:ARG:NH2	40:L3:263:SER:O	2.22	0.72
52:M6:3:VAL:HG13	52:M6:4:GLU:HG3	1.72	0.72
54:M8:158:HIS:H	54:M8:186:VAL:HG12	1.53	0.72
68:O2:100:ILE:O	68:O2:105:ARG:NH1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2535:A:H61	36:1:2544:U:H3	1.38	0.71
36:1:3118:C:H4'	76:Q0:106:ARG:NH2	2.04	0.71
1:2:1592:A:H2'	1:2:1593:A:C8	2.25	0.71
1:2:264:G:N7	85:2:1912:OHX:N1	2.37	0.71
20:C8:135:GLY:HA3	1:6:1559:A:H5''	365.60	0.71
1:6:1727:G:H2'	1:6:1728:A:C8	2.25	0.71
28:D6:87:ARG:NH2	28:D6:94:ASN:O	2.23	0.71
41:L4:16:THR:HG23	41:L4:18:ASN:H	2.42	0.71
53:M7:10:ASN:HD21	53:M7:12:ALA:HB3	1.55	0.71
57:N1:13:TYR:O	85:N1:201:OHX:N5	2.22	0.71
68:O2:81:ASP:O	68:O2:84:THR:OG1	2.06	0.71
69:O3:90:PRO:O	69:O3:92:LYS:N	2.23	0.71
72:O6:25:LYS:HB2	72:O6:28:TYR:HD2	1.55	0.71
5:S3:192:PRO:HB2	5:S3:201:ALA:HA	1.72	0.71
35:SM:49:LYS:N	36:1:1019:G:OP1	2.22	0.71
36:1:1145:G:OP1	68:O2:44:ARG:NH1	2.22	0.71
1:6:591:A:H2'	1:6:592:A:C8	2.26	0.71
56:N0:50:LYS:NZ	37:7:76:A:O2'	302.40	0.71
20:C8:52:VAL:HG13	20:C8:61:LEU:HD21	3.38	0.71
41:L4:22:LEU:HD22	41:L4:23:PRO:HD2	1.70	0.71
62:N6:120:GLN:HG2	62:N6:126:LEU:HD23	3.52	0.71
36:1:239:G:O2'	36:1:240:U:OP1	2.08	0.71
36:5:1631:C:H5''	36:5:1632:A:H5''	1.72	0.71
36:5:3300:U:O2	36:5:3315:G:N2	2.22	0.71
56:N0:52:LYS:NZ	37:7:100:C:OP2	281.12	0.71
36:1:824:C:H5''	39:L2:21:ARG:HD3	1.72	0.71
42:L5:146:LEU:HB3	36:5:2746:A:H2	259.37	0.71
1:2:858:G:H4'	9:S7:113:PRO:HG3	1.72	0.71
36:1:1317:A:OP1	85:1:3600:OHX:N2	2.24	0.71
1:2:442:C:O2'	1:2:525:A:N1	2.24	0.71
1:6:1122:G:N2	1:6:1125:A:OP2	2.23	0.71
22:D0:20:ILE:HD12	22:D0:100:VAL:HG21	4.09	0.71
25:D3:109:ARG:O	25:D3:112:LYS:NZ	6.46	0.71
41:L4:20:LEU:HD11	41:L4:252:GLU:HG3	2.98	0.71
42:L5:256:THR:OG1	42:L5:258:LYS:NZ	2.20	0.71
50:M4:94:TRP:O	50:M4:97:SER:OG	2.08	0.71
51:M5:14:LYS:HA	51:M5:19:LEU:HD23	1.71	0.71
36:1:3224:G:O6	85:1:3429:OHX:N4	2.23	0.71
36:1:2242:A:OP2	85:1:3493:OHX:N6	2.24	0.71
36:5:626:U:O4	85:5:3486:OHX:N4	2.22	0.71
26:D4:35:VAL:HG13	26:D4:36:SER:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:209:A:OP1	41:L4:161:LYS:NZ	2.23	0.71
44:L7:216:VAL:HG11	44:L7:227:GLY:HA3	4.42	0.71
45:L8:69:LEU:HD11	51:M5:24:ARG:HH21	5.00	0.71
78:Q2:29:LYS:HD3	78:Q2:30:ALA:H	1.55	0.71
3:S1:184:LEU:HD12	3:S1:188:LEU:HG	3.16	0.71
1:2:820:U:H2'	1:2:821:U:H4'	1.71	0.71
36:5:114:A:N1	36:5:266:A:O2'	2.24	0.71
40:L3:26:ARG:NH2	36:5:3002:C:OP1	224.08	0.71
1:6:1584:G:N2	1:6:1611:A:OP2	2.18	0.71
43:L6:58:LEU:HD12	43:L6:78:ARG:HD3	1.73	0.71
56:N0:155:ARG:NH2	56:N0:171:PHE:O	2.24	0.71
3:S1:128:LYS:HG3	3:S1:134:VAL:HG22	1.73	0.71
36:1:1039:U:H2'	36:1:1040:A:C8	2.25	0.71
36:1:2218:G:H2'	36:1:2219:A:H8	1.55	0.71
36:1:3268:A:OP2	53:M7:181:ARG:NH1	2.23	0.71
36:1:978:G:O2'	36:1:979:U:O2	2.07	0.71
1:2:1085:G:N2	1:2:1088:A:OP2	2.20	0.71
1:2:583:C:OP1	85:2:1904:OHX:N3	2.24	0.71
18:C6:110:THR:HA	18:C6:113:ASP:HB2	2.47	0.71
42:L5:265:TYR:HE1	37:7:121:U:H5''	315.71	0.71
43:L6:170:LYS:O	43:L6:173:MET:HB2	2.64	0.71
44:L7:88:ARG:NH1	44:L7:91:GLY:O	2.23	0.71
59:N3:87:ARG:HH22	59:N3:137:VAL:HG22	2.36	0.71
66:O0:16:LEU:HB2	66:O0:98:SER:HB2	2.87	0.71
43:L6:31:ARG:NH1	69:O3:107:ILE:O	2.25	0.71
6:S4:248:ILE:HA	6:S4:251:GLU:HB2	3.40	0.71
8:S6:59:GLN:OE1	1:6:418:G:O2'	295.09	0.71
11:S9:93:LEU:HA	11:S9:96:VAL:HG13	1.72	0.71
36:1:2823:G:O6	85:1:3440:OHX:N1	2.24	0.71
1:2:1382:A:H5''	22:D0:60:THR:HG22	1.73	0.71
36:5:2662:G:O6	85:5:3401:OHX:N3	2.23	0.71
36:5:2258:U:OP2	85:5:3450:OHX:N4	2.23	0.71
36:5:770:G:N7	85:5:3600:OHX:N6	2.38	0.71
68:O2:47:ARG:NH1	36:5:634:C:O3'	217.81	0.71
1:6:761:G:O6	85:6:1938:OHX:N1	2.24	0.71
41:L4:338:LYS:O	41:L4:340:GLY:N	2.24	0.71
41:L4:93:MET:HE2	41:L4:93:MET:H	3.91	0.71
49:M3:166:ALA:HB1	64:N8:147:LEU:HD21	2.98	0.71
36:1:837:A:OP2	79:Q3:4:ARG:NH1	2.23	0.71
79:Q3:59:CYS:SG	79:Q3:60:CYS:N	2.64	0.71
8:S6:139:ASN:HA	8:S6:142:ARG:HG3	2.86	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:18:G:OP1	71:O5:81:ARG:NH2	2.24	0.71
36:1:715:A:H8	64:N8:115:LYS:HG3	1.56	0.71
1:2:1586:A:OP1	18:C6:136:SER:N	2.23	0.71
36:5:510:G:O6	85:5:3527:OHX:N2	2.23	0.71
1:6:863:A:H62	1:6:964:U:H3	1.37	0.71
28:D6:32:LYS:NZ	1:6:930:A:OP1	309.40	0.71
41:L4:82:THR:HG23	41:L4:84:ARG:H	2.52	0.71
37:3:97:A:O4'	44:L7:225:GLN:NE2	2.24	0.71
70:O4:98:GLN:HB3	70:O4:102:LYS:HE2	1.73	0.71
4:S2:143:TYR:OH	4:S2:150:GLN:N	2.32	0.71
1:2:79:C:H1'	8:S6:174:LYS:HD3	1.72	0.71
36:1:1119:C:OP2	85:1:3491:OHX:N1	2.23	0.71
36:5:437:G:OP2	85:5:3743:OHX:N4	2.24	0.71
16:C4:121:VAL:O	1:6:886:U:O2'	287.59	0.71
41:L4:152:VAL:HG22	41:L4:172:VAL:HG21	1.73	0.70
41:L4:293:SER:O	41:L4:297:SER:OG	2.08	0.70
42:L5:60:ILE:HB	42:L5:80:SER:HB2	1.72	0.70
46:L9:120:ASP:OD1	46:L9:124:ARG:NH2	2.33	0.70
46:L9:12:VAL:HB	46:L9:51:GLN:HA	1.73	0.70
79:Q3:30:GLU:HA	79:Q3:33:GLN:HG2	1.71	0.70
85:2:1914:OHX:N2	10:S8:17:LYS:O	2.24	0.70
56:N0:90:MET:HG3	36:5:1213:G:H4'	317.70	0.70
70:O4:83:ASN:ND2	36:5:1709:C:OP1	215.94	0.70
49:M3:79:GLU:OE1	49:M3:101:ARG:NH2	2.24	0.70
75:O9:9:ILE:HG22	75:O9:13:MET:HE2	1.72	0.70
1:2:1134:C:H5''	25:D3:121:ARG:HH12	1.57	0.70
57:N1:87:LYS:NZ	36:5:2724:U:OP2	215.87	0.70
1:6:1140:G:OP2	85:6:1926:OHX:N3	2.24	0.70
40:L3:171:LEU:O	85:L3:402:OHX:N6	2.23	0.70
61:N5:86:VAL:HG21	61:N5:95:ILE:HG12	2.07	0.70
7:S5:35:GLN:O	7:S5:37:GLN:N	2.72	0.70
36:1:906:A:OP1	85:1:3536:OHX:N1	2.23	0.70
1:2:422:G:OP1	85:2:1920:OHX:N6	2.23	0.70
36:5:1151:U:OP1	85:5:3715:OHX:N1	2.24	0.70
47:M0:86:HIS:HB3	47:M0:139:ARG:HG2	1.93	0.70
57:N1:130:ARG:NH1	36:5:1098:A:OP2	253.27	0.70
60:N4:6:ASP:HB3	60:N4:10:GLY:H	1.54	0.70
68:O2:16:LYS:HD3	68:O2:18:LYS:HE2	4.08	0.70
10:S8:36:THR:HG21	10:S8:173:PRO:HB2	2.09	0.70
1:2:1000:C:N4	1:2:1003:A:OP2	2.24	0.70
36:5:1877:U:H5''	36:5:1878:G:H5'	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:46:PHE:HA	18:C6:49:TYR:HB2	1.72	0.70
44:L7:158:LYS:HE2	44:L7:159:GLN:H	1.57	0.70
52:M6:62:THR:H	52:M6:69:GLY:HA3	1.89	0.70
56:N0:28:ARG:HE	56:N0:99:ARG:HH21	2.20	0.70
50:M4:55:ARG:NH1	56:N0:70:THR:OG1	4.89	0.70
67:O1:11:GLU:OE2	67:O1:74:ARG:NH2	2.24	0.70
36:1:2573:G:N7	85:1:3534:OHX:N1	2.40	0.70
36:1:1852:G:N7	85:1:3515:OHX:N6	2.40	0.70
36:1:3050:U:OP2	85:1:3720:OHX:N4	2.24	0.70
36:1:223:U:O4	85:1:3735:OHX:N5	2.24	0.70
1:2:9:U:O4	85:2:2034:OHX:N6	2.24	0.70
36:5:2533:G:O6	85:5:3545:OHX:N1	2.24	0.70
1:6:823:G:H2'	1:6:824:G:O4'	1.90	0.70
24:D2:15:ASN:HD21	24:D2:71:LYS:HA	1.74	0.70
40:L3:116:ARG:HG2	40:L3:175:LYS:HB2	3.32	0.70
40:L3:233:TRP:CD1	40:L3:265:ALA:HB1	2.39	0.70
2:S0:24:LEU:O	2:S0:163:ASN:ND2	2.24	0.70
1:2:478:A:HO2'	11:S9:124:HIS:HD1	1.36	0.70
37:3:86:U:O2	85:3:205:OHX:N5	2.24	0.70
1:6:898:A:N1	1:6:911:U:O2'	2.23	0.70
37:7:23:A:H2'	37:7:24:A:C8	2.27	0.70
52:M6:121:PRO:HA	52:M6:124:LEU:HD22	2.32	0.70
78:Q2:36:PHE:HA	78:Q2:41:ARG:HG3	1.72	0.70
10:S8:172:ARG:NH1	1:6:330:G:OP2	281.03	0.70
1:2:1034:C:HO2'	24:D2:2:THR:N	1.89	0.70
36:5:129:U:H2'	36:5:130:A:C8	2.26	0.70
18:C6:135:ARG:NH1	1:6:1583:A:OP1	383.90	0.70
23:D1:38:LYS:HE3	23:D1:51:VAL:HG23	2.10	0.70
40:L3:372:THR:HG22	40:L3:373:PRO:HD2	1.72	0.70
38:4:155:A:H5'	45:L8:185:ARG:CZ	2.22	0.70
54:M8:185:LYS:HD3	54:M8:186:VAL:HG23	1.74	0.70
2:S0:9:LEU:HD12	19:C7:115:LEU:HD11	10.47	0.70
36:1:1752:A:OP2	85:1:3584:OHX:N3	2.25	0.70
36:5:2996:U:OP1	36:5:2996:U:H4'	1.92	0.70
42:L5:211:LEU:HD13	42:L5:219:PHE:HA	3.14	0.70
47:M0:170:LYS:HA	47:M0:177:ASP:HA	1.74	0.70
64:N8:6:THR:HG23	64:N8:8:THR:HG23	1.89	0.70
6:S4:148:ARG:NH1	8:S6:201:GLN:OE1	2.24	0.70
35:SM:41:SER:O	35:SM:43:ASP:N	2.23	0.70
36:5:789:A:H2'	36:5:790:U:C6	2.27	0.70
14:C2:66:VAL:HG11	14:C2:71:ILE:HD12	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:39:THR:OG1	21:C9:40:SER:N	2.25	0.70
30:D8:31:GLU:O	30:D8:33:LEU:N	3.57	0.70
4:S2:225:LEU:HD13	24:D2:68:ARG:HA	1.72	0.70
5:S3:142:LEU:HD13	5:S3:182:LEU:HD21	1.72	0.70
8:S6:153:VAL:O	8:S6:155:ASP:N	2.25	0.70
34:SR:133:VAL:O	34:SR:141:LEU:N	2.80	0.70
1:2:122:U:H5''	6:S4:77:ARG:HH21	1.57	0.69
37:7:47:C:H2'	37:7:48:U:H6	1.57	0.69
19:C7:66:VAL:HB	19:C7:69:ILE:HD11	1.74	0.69
36:1:1841:A:N3	75:O9:45:ARG:NH2	2.40	0.69
8:S6:87:ARG:NH1	1:6:159:U:O2'	320.56	0.69
10:S8:104:ILE:O	10:S8:165:LEU:N	3.39	0.69
36:1:795:G:O6	85:1:3430:OHX:N3	2.26	0.69
36:1:838:G:O6	79:Q3:4:ARG:NH2	2.25	0.69
36:5:439:C:H4'	36:5:440:A:H5'	1.74	0.69
1:6:1097:U:H4'	1:6:1098:U:H5'	1.73	0.69
39:L2:45:VAL:HG22	39:L2:84:THR:HA	1.74	0.69
42:L5:270:LYS:HD2	42:L5:272:TYR:HB2	10.42	0.69
46:L9:149:ASN:N	46:L9:149:ASN:OD1	2.26	0.69
36:1:269:G:H5'	51:M5:120:TRP:CE3	2.27	0.69
36:1:2725:U:O4	85:1:3445:OHX:N2	2.26	0.69
36:1:516:A:O3'	44:L7:60:ARG:NH2	2.26	0.69
36:5:2697:A:H2'	36:5:2698:G:C8	2.27	0.69
17:C5:69:GLU:OE1	85:C5:201:OHX:N4	2.25	0.69
2:S0:52:LYS:HD2	23:D1:82:VAL:HA	1.75	0.69
33:E1:116:LYS:NZ	33:E1:120:GLU:OE2	2.23	0.69
42:L5:156:GLY:HA2	42:L5:181:PRO:HD3	1.87	0.69
42:L5:294:ALA:O	42:L5:296:GLN:N	2.21	0.69
45:L8:75:ILE:HD11	51:M5:18:VAL:HG23	2.30	0.69
5:S3:46:THR:HB	5:S3:84:ILE:HG12	1.73	0.69
8:S6:10:ASN:HB3	8:S6:128:THR:HA	1.74	0.69
36:1:2940:A:N7	40:L3:2:SER:N	2.39	0.69
1:2:237:C:H5''	1:2:238:U:H5'	1.75	0.69
39:L2:156:LYS:NZ	36:5:2158:A:OP2	203.75	0.69
36:5:2807:U:O2'	36:5:2809:C:OP1	2.09	0.69
1:6:219:A:C6	1:6:843:U:H1'	2.27	0.69
15:C3:67:THR:O	15:C3:69:ASN:N	2.24	0.69
61:N5:63:ILE:HA	61:N5:86:VAL:HG23	1.74	0.69
79:Q3:39:CYS:HB3	79:Q3:42:CYS:HB3	4.67	0.69
36:1:155:G:H5''	36:1:156:G:C8	2.27	0.69
36:1:440:A:OP2	36:1:440:A:H8	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:751:G:H2'	1:2:752:A:H8	1.58	0.69
1:6:1313:A:O2'	1:6:1315:U:OP1	2.09	0.69
14:C2:124:LYS:O	14:C2:126:TRP:N	2.24	0.69
25:D3:7:ARG:HB2	25:D3:7:ARG:HH11	1.56	0.69
48:M1:9:MET:O	48:M1:11:ASP:N	3.74	0.69
36:1:2895:G:O2'	76:Q0:100:TYR:O	2.09	0.69
3:S1:36:SER:O	3:S1:38:PHE:N	2.25	0.69
4:S2:227:PRO:HA	4:S2:230:TRP:CD1	2.77	0.69
6:S4:251:GLU:OE1	6:S4:255:ARG:NH2	2.24	0.69
9:S7:48:GLU:OE2	9:S7:88:ARG:NH2	2.25	0.69
36:1:2443:A:N6	36:1:2504:U:O4	2.26	0.69
1:6:1742:U:H2'	1:6:1743:U:H6	1.58	0.69
1:6:27:U:H2'	1:6:28:A:H8	1.56	0.69
14:C2:103:LEU:HG	14:C2:116:VAL:HG22	1.74	0.69
27:D5:56:THR:H	27:D5:103:ARG:HH11	1.40	0.69
45:L8:163:VAL:HG22	45:L8:166:LEU:HD12	2.02	0.69
50:M4:22:LEU:HB3	50:M4:64:VAL:HG13	2.34	0.69
53:M7:64:ASN:OD1	85:M7:201:OHX:N2	2.25	0.69
36:1:1483:G:O6	70:O4:4:ARG:NH2	2.26	0.69
36:1:2818:U:H6	36:1:2818:U:H5'	1.57	0.69
1:2:1280:C:H2'	1:2:1281:G:C8	2.27	0.69
37:3:17:A:OP1	42:L5:2:ALA:N	2.25	0.69
36:5:1898:G:OP2	85:5:3447:OHX:N5	2.25	0.69
47:M0:158:LYS:NZ	36:5:2852:C:N3	307.96	0.69
52:M6:160:ARG:NH2	36:5:3182:G:OP1	279.80	0.69
25:D3:93:LEU:HD21	32:E0:8:LEU:HD13	1.75	0.69
39:L2:238:ILE:O	39:L2:240:ALA:N	3.34	0.69
41:L4:3:ARG:HB3	41:L4:22:LEU:H	2.65	0.69
71:O5:83:LYS:NZ	38:8:38:U:O2'	71.91	0.69
17:C5:130:ARG:HH22	35:SM:70:ASN:HB3	1.58	0.69
36:1:25:U:O4	85:1:3406:OHX:N3	2.26	0.69
1:2:516:G:OP2	85:2:1948:OHX:N6	2.26	0.69
51:M5:172:ARG:NH2	36:5:63:A:OP1	103.36	0.69
41:L4:170:LYS:HG3	41:L4:175:HIS:HB2	4.41	0.69
34:SR:200:ASN:ND2	34:SR:240:VAL:O	3.55	0.69
36:1:3214:U:OP2	50:M4:128:ARG:NH2	2.26	0.69
1:2:322:G:O2'	10:S8:10:LYS:NZ	2.24	0.69
64:N8:9:ARG:NH2	36:5:1431:G:N7	148.33	0.69
36:5:3218:A:H5''	36:5:3219:G:C5	2.27	0.69
1:6:1699:G:H22	1:6:1702:A:H5''	1.57	0.69
25:D3:103:LEU:HD12	25:D3:126:LYS:HD3	2.99	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:O9:23:LEU:HD22	75:O9:24:PRO:HD2	1.75	0.69
2:S0:185:ARG:H	23:D1:45:ALA:H	2.34	0.69
9:S7:78:THR:O	9:S7:82:GLU:N	2.92	0.69
1:2:1014:G:OP1	85:2:1902:OHX:N3	2.25	0.69
1:2:1073:G:H2'	1:2:1074:G:H5''	1.74	0.69
61:N5:42:ARG:HD2	36:5:14:U:H1'	103.47	0.69
85:5:3444:OHX:N5	85:5:3739:OHX:N3	2.40	0.69
15:C3:45:LEU:HD13	15:C3:49:GLN:HB3	1.73	0.69
44:L7:123:THR:HA	44:L7:126:LEU:HD12	2.74	0.69
43:L6:3:ALA:HB2	68:O2:77:ALA:HB2	1.74	0.69
36:1:2683:U:H2'	36:1:2684:C:C6	2.28	0.69
1:2:656:G:O2'	1:2:657:U:O4'	2.10	0.69
78:Q2:19:LYS:HA	36:5:2741:C:H4'	208.10	0.69
36:5:3126:C:OP1	85:5:3702:OHX:N5	2.26	0.69
16:C4:123:SER:HB2	1:6:885:G:H21	287.15	0.69
26:D4:53:ASP:HB3	26:D4:96:LEU:HD21	3.13	0.69
52:M6:27:LEU:HD11	52:M6:102:LEU:HB2	2.03	0.69
53:M7:126:ARG:HA	53:M7:140:GLU:HG2	2.37	0.69
56:N0:28:ARG:HE	56:N0:99:ARG:NH2	2.46	0.69
66:O0:99:ASP:N	66:O0:99:ASP:OD2	2.35	0.69
10:S8:4:SER:HB2	10:S8:24:LYS:HD3	3.08	0.69
36:1:505:G:OP1	41:L4:320:ASN:ND2	2.24	0.68
38:4:43:A:OP1	85:4:214:OHX:N5	2.27	0.68
36:5:651:G:O2'	36:5:1435:A:OP1	2.11	0.68
36:5:3227:A:H2'	36:5:3228:C:H5'	1.74	0.68
85:5:3444:OHX:N2	85:5:3739:OHX:N4	2.40	0.68
43:L6:85:ILE:HG23	69:O3:107:ILE:HG21	4.88	0.68
49:M3:83:ALA:HB2	49:M3:116:LEU:HD13	1.74	0.68
53:M7:16:SER:HB3	53:M7:149:VAL:HG22	1.75	0.68
7:S5:97:LEU:O	7:S5:99:MET:N	2.73	0.68
36:1:2736:A:OP1	57:N1:92:ARG:NH1	2.25	0.68
1:2:1595:U:N3	1:2:1600:A:H2	1.91	0.68
1:2:1367:G:N7	85:2:1987:OHX:N6	2.41	0.68
64:N8:21:ARG:NH2	36:5:640:U:OP1	182.14	0.68
50:M4:109:ARG:NH1	36:5:3210:A:OP1	291.42	0.68
36:1:3174:A:OP1	69:O3:97:SER:OG	2.10	0.68
6:S4:95:THR:HG23	6:S4:97:GLU:HG3	5.33	0.68
36:1:1695:U:O2'	36:1:1749:A:N1	2.23	0.68
38:4:83:C:H1'	38:4:85:G:N2	2.08	0.68
36:5:2530:G:H2'	36:5:2531:C:H5''	1.74	0.68
1:6:991:G:OP2	85:6:2025:OHX:N2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:694:U:H3'	1:6:695:U:O2	1.93	0.68
21:C9:105:LEU:HD13	21:C9:122:ARG:HD3	2.25	0.68
55:M9:62:ARG:NH2	36:5:3068:U:OP2	172.93	0.68
63:N7:48:ARG:HB3	63:N7:69:LYS:HB3	1.75	0.68
64:N8:96:LYS:O	64:N8:98:THR:N	2.27	0.68
3:S1:157:GLN:O	3:S1:159:SER:N	2.25	0.68
5:S3:44:THR:HG22	5:S3:45:LYS:HG3	1.73	0.68
34:SR:206:PRO:HG2	34:SR:247:PRO:HA	2.99	0.68
1:2:491:C:H42	1:2:496:G:H1	1.42	0.68
36:5:328:U:O4	85:5:3526:OHX:N1	2.25	0.68
49:M3:59:ARG:NH1	36:5:73:C:N3	93.53	0.68
41:L4:140:HIS:H	41:L4:180:LYS:HE2	1.58	0.68
45:L8:150:LEU:HD23	45:L8:176:PRO:HB2	2.26	0.68
36:1:276:U:O2	51:M5:93:LYS:NZ	2.26	0.68
72:O6:9:ILE:HA	72:O6:13:LYS:HD3	2.86	0.68
36:1:272:G:OP2	85:1:3567:OHX:N3	2.26	0.68
36:1:979:U:H1'	36:1:980:A:C8	2.28	0.68
1:6:25:C:H4'	1:6:25:C:OP2	1.94	0.68
26:D4:3:ASP:O	26:D4:5:VAL:N	2.22	0.68
40:L3:261:MET:HG2	52:M6:64:PHE:HA	1.76	0.68
41:L4:144:LYS:HG2	41:L4:145:ILE:H	5.82	0.68
7:S5:87:CYS:SG	7:S5:92:ARG:HG3	2.47	0.68
37:3:60:G:H2'	37:3:61:G:C8	2.28	0.68
36:5:283:G:OP2	36:5:285:A:O2'	2.09	0.68
41:L4:337:GLU:HB2	41:L4:339:LEU:HD23	3.04	0.68
54:M8:180:ARG:HH11	54:M8:185:LYS:HB3	2.36	0.68
36:1:1603:A:OP1	55:M9:38:ARG:NH1	2.26	0.68
56:N0:92:LYS:NZ	56:N0:109:ASP:OD2	2.27	0.68
6:S4:13:ALA:O	6:S4:39:ARG:NH2	2.26	0.68
1:2:138:A:O2'	8:S6:149:LYS:NZ	2.24	0.68
37:3:58:C:OP2	85:3:207:OHX:N6	2.27	0.68
36:5:330:G:OP2	85:5:3553:OHX:N1	2.27	0.68
41:L4:169:LEU:O	41:L4:172:VAL:N	2.80	0.68
61:N5:92:LYS:HD2	61:N5:112:THR:HG23	1.74	0.68
63:N7:33:SER:HB2	63:N7:40:HIS:HE1	1.59	0.68
36:1:1613:A:OP2	74:O8:46:ARG:NH2	2.27	0.68
8:S6:164:LYS:HB3	8:S6:167:LYS:HB3	1.74	0.68
1:2:1588:G:H1	1:2:1608:U:H3	1.42	0.68
38:4:67:U:H2'	38:4:68:G:C8	2.29	0.68
53:M7:27:LYS:NZ	36:5:1447:G:OP2	161.10	0.68
40:L3:2:SER:N	36:5:2940:A:N7	237.85	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:415:G:OP2	85:5:3725:OHX:N4	2.27	0.68
1:6:1688:U:H3	1:6:1713:G:H1	1.40	0.68
1:6:1385:G:N7	85:6:1976:OHX:N6	2.42	0.68
41:L4:232:SER:OG	41:L4:233:LEU:N	2.23	0.68
42:L5:144:VAL:HG12	42:L5:173:VAL:HG22	1.75	0.68
37:3:1:G:N2	42:L5:269:SER:OG	2.22	0.68
43:L6:35:VAL:O	43:L6:38:THR:OG1	2.12	0.68
44:L7:228:SER:HA	44:L7:232:ARG:HH21	2.51	0.68
46:L9:75:VAL:HA	46:L9:78:MET:HG3	3.06	0.68
66:O0:75:ASN:ND2	79:Q3:43:GLY:O	3.51	0.68
4:S2:38:VAL:HG13	4:S2:39:THR:HG23	1.75	0.68
7:S5:68:ILE:HD13	7:S5:69:PHE:H	4.11	0.68
7:S5:92:ARG:NH2	7:S5:169:ASN:OD1	2.66	0.68
36:1:2662:G:O6	85:1:3405:OHX:N6	2.27	0.68
36:5:410:U:O4	85:5:3606:OHX:N3	2.26	0.68
10:S8:50:GLY:HA2	1:6:397:A:O3'	315.15	0.68
1:6:407:A:H2'	1:6:408:C:C6	2.28	0.68
38:8:83:C:H4'	38:8:85:G:N3	2.09	0.68
18:C6:40:GLU:HA	18:C6:42:GLU:N	2.08	0.68
40:L3:250:ALA:HB3	36:5:2880:U:H1'	223.87	0.68
42:L5:64:ILE:HG13	42:L5:109:THR:HG21	4.87	0.68
75:O9:24:PRO:HB2	75:O9:27:ILE:HG13	2.54	0.68
20:C8:145:ARG:HG3	35:SM:68:ARG:HH22	4.01	0.68
1:2:1796:C:OP1	28:D6:87:ARG:NH1	2.26	0.68
1:6:1273:G:H4'	1:6:1274:C:H5''	1.76	0.68
1:6:770:A:OP2	85:6:1992:OHX:N3	2.27	0.68
31:D9:47:ALA:HA	31:D9:50:ILE:HD12	3.36	0.68
42:L5:107:ARG:NH1	42:L5:120:LYS:O	2.85	0.68
52:M6:84:LEU:HD22	52:M6:102:LEU:HD22	2.59	0.68
36:1:618:C:H5'	53:M7:169:THR:HG22	1.76	0.68
36:1:2112:U:O2	85:1:3496:OHX:N1	2.28	0.67
85:1:3647:OHX:N4	65:N9:6:ASN:OD1	2.27	0.67
85:1:3475:OHX:N5	85:1:3737:OHX:N2	2.42	0.67
1:2:1339:C:O2'	1:2:1341:A:N7	2.20	0.67
1:2:717:C:H42	1:2:720:G:H22	1.41	0.67
1:6:950:C:H2'	1:6:951:A:C8	2.28	0.67
20:C8:134:ARG:O	20:C8:136:GLN:N	3.65	0.67
28:D6:53:LEU:O	28:D6:57:SER:OG	2.10	0.67
39:L2:136:ILE:HA	39:L2:148:VAL:HG12	1.76	0.67
39:L2:79:ASN:O	39:L2:82:VAL:HG13	1.94	0.67
53:M7:56:ARG:NH1	53:M7:75:GLU:OE2	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:N8:82:ILE:O	64:N8:87:ARG:NH2	3.65	0.67
78:Q2:50:PHE:O	85:Q2:502:OHX:N1	4.89	0.67
7:S5:146:THR:HG23	7:S5:221:ALA:HA	1.76	0.67
7:S5:197:GLU:OE1	7:S5:208:SER:OG	4.41	0.67
8:S6:148:SER:O	8:S6:150:GLU:N	2.26	0.67
34:SR:157:VAL:HB	34:SR:168:THR:HB	3.01	0.67
1:2:140:A:OP2	8:S6:187:LYS:NZ	2.23	0.67
1:2:1429:G:H1'	22:D0:74:GLU:HG2	1.75	0.67
1:2:1535:U:O2'	1:2:1536:G:N3	2.26	0.67
1:2:1547:A:OP2	20:C8:123:ARG:NH2	2.27	0.67
1:2:474:A:OP2	11:S9:44:ARG:NH1	2.28	0.67
39:L2:152:SER:OG	36:5:2157:G:N7	217.28	0.67
44:L7:136:TYR:CZ	44:L7:231:ASN:HB2	2.29	0.67
36:5:1615:C:H2'	36:5:1616:U:C6	2.29	0.67
36:5:2400:G:O6	36:5:2873:U:O2'	2.07	0.67
27:D5:53:GLU:O	27:D5:56:THR:N	5.50	0.67
40:L3:49:TYR:OH	40:L3:177:HIS:ND1	2.86	0.67
41:L4:315:LYS:HG2	36:5:505:G:H5''	240.20	0.67
43:L6:72:ASN:ND2	43:L6:159:LEU:O	2.86	0.67
50:M4:113:THR:HG22	50:M4:115:PHE:H	1.59	0.67
69:O3:6:ARG:NH1	69:O3:8:TYR:O	2.28	0.67
3:S1:168:ILE:HG12	3:S1:197:ILE:HD12	1.76	0.67
5:S3:51:ARG:HA	5:S3:89:GLU:HB2	4.88	0.67
10:S8:185:GLU:HG2	13:C1:23:PRO:HG2	1.75	0.67
34:SR:42:LEU:HD21	34:SR:82:SER:HB3	1.99	0.67
36:1:1593:A:N3	36:1:1615:C:O2'	2.27	0.67
36:1:3026:G:O6	85:1:3476:OHX:N4	2.27	0.67
1:2:734:A:H5''	1:2:735:C:OP1	1.94	0.67
36:5:1596:C:H2'	36:5:1597:C:C6	2.29	0.67
56:N0:161:LYS:HZ1	36:5:3209:A:P	278.77	0.67
69:O3:3:GLU:OE2	36:5:3213:A:O2'	268.08	0.67
85:5:3444:OHX:N1	85:5:3739:OHX:N3	2.42	0.67
21:C9:28:LEU:O	21:C9:29:GLU:HB2	2.45	0.67
69:O3:92:LYS:NZ	36:5:630:A:O2'	210.60	0.67
36:1:353:G:N7	73:O7:55:ARG:HD3	2.09	0.67
79:Q3:59:CYS:O	79:Q3:61:LYS:N	2.25	0.67
2:S0:192:THR:OG1	2:S0:193:GLN:N	2.25	0.67
1:2:134:U:OP1	1:2:136:C:N4	2.27	0.67
17:C5:61:ARG:NH2	17:C5:88:GLU:OE1	2.26	0.67
23:D1:57:GLY:O	23:D1:61:SER:OG	3.39	0.67
40:L3:227:GLU:HG3	40:L3:270:ARG:HE	4.39	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:61:SER:OG	47:M0:63:GLU:HG2	2.34	0.67
78:Q2:50:PHE:O	85:Q2:502:OHX:N2	2.27	0.67
11:S9:106:GLU:O	11:S9:111:THR:OG1	3.83	0.67
11:S9:126:ARG:NH1	1:6:475:A:OP2	424.01	0.67
1:2:1011:G:OP2	85:2:1968:OHX:N6	2.27	0.67
78:Q2:41:ARG:NH1	36:5:284:A:OP2	156.77	0.67
1:6:982:U:OP1	85:6:1930:OHX:N2	2.27	0.67
1:6:345:U:H1'	1:6:346:G:C8	2.29	0.67
68:O2:97:ALA:HB3	68:O2:100:ILE:HG12	1.77	0.67
1:2:864:U:H5	29:D7:22:LYS:HG2	1.60	0.67
36:5:1880:U:H2'	36:5:1881:A:H8	1.59	0.67
16:C4:23:PHE:HE2	16:C4:91:THR:HG21	1.58	0.67
20:C8:139:LYS:O	20:C8:143:ARG:NH1	2.27	0.67
39:L2:208:ASP:OD2	36:5:912:G:N1	186.81	0.67
41:L4:47:ARG:NH1	41:L4:109:TRP:O	2.74	0.67
42:L5:23:ARG:NH2	36:5:2703:A:OP2	283.76	0.67
45:L8:33:ASN:O	45:L8:35:GLY:N	2.81	0.67
48:M1:49:LYS:HB3	48:M1:62:ASN:HA	1.77	0.67
58:N2:21:SER:HB3	58:N2:107:PHE:HB2	3.12	0.67
59:N3:113:ALA:HA	59:N3:132:ASN:HB3	1.76	0.67
59:N3:28:ASN:HD21	59:N3:113:ALA:H	1.42	0.67
62:N6:39:LEU:HD21	62:N6:107:THR:O	2.53	0.67
68:O2:21:HIS:ND1	68:O2:24:ARG:HD2	2.10	0.67
36:1:361:A:O3'	73:O7:45:ARG:NH2	2.26	0.67
36:1:1467:A:N1	36:1:1511:U:O2'	2.27	0.67
36:1:2280:A:OP1	85:1:3656:OHX:N5	2.28	0.67
85:2:1909:OHX:N6	85:2:2025:OHX:N5	2.42	0.67
36:5:2724:U:O4	85:5:3461:OHX:N1	2.28	0.67
36:5:2311:G:OP2	85:5:3703:OHX:N1	2.28	0.67
36:5:675:C:O2'	36:5:679:U:OP1	2.10	0.67
33:E1:87:THR:O	1:6:1445:G:N1	378.17	0.67
18:C6:18:ALA:HB2	18:C6:69:VAL:HG13	1.98	0.67
25:D3:141:GLU:OE1	25:D3:144:ARG:NH2	14.20	0.67
28:D6:98:PRO:O	1:6:1800:A:N6	344.26	0.67
29:D7:61:THR:HG23	29:D7:62:ILE:H	1.59	0.67
36:1:2525:G:OP2	39:L2:37:ARG:NH1	2.27	0.67
41:L4:351:PRO:HA	44:L7:71:ALA:HA	2.41	0.67
38:4:136:G:OP1	61:N5:48:SER:OG	2.12	0.67
2:S0:110:TYR:O	2:S0:112:THR:N	3.60	0.67
36:1:1808:G:O6	85:1:3519:OHX:N3	2.28	0.67
1:2:1542:G:H22	1:2:1568:C:H1'	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:21:SER:OG	36:5:673:U:OP1	150.26	0.67
36:5:900:G:H1'	36:5:1589:A:N6	2.10	0.67
15:C3:74:ILE:O	15:C3:78:ASN:ND2	3.98	0.67
39:L2:133:TYR:HE1	39:L2:135:ILE:HD11	4.11	0.67
39:L2:30:ARG:HH21	39:L2:36:GLU:HG3	1.59	0.67
42:L5:40:HIS:HB3	42:L5:43:LYS:HG3	1.76	0.67
36:1:687:U:OP2	49:M3:36:ARG:NH2	2.27	0.67
52:M6:22:VAL:HG11	52:M6:120:VAL:HG11	2.71	0.67
36:1:3070:A:OP1	55:M9:62:ARG:NH2	2.28	0.67
8:S6:48:TYR:OH	8:S6:119:GLN:O	2.40	0.67
10:S8:159:GLN:HE22	10:S8:166:TYR:HB2	2.84	0.67
36:1:1233:G:O2'	36:1:1234:G:OP1	2.11	0.67
36:1:1238:C:N4	36:1:1245:A:OP2	2.28	0.67
36:1:1024:G:N7	85:1:3704:OHX:N6	2.43	0.67
1:2:1274:C:H5	35:SM:96:ARG:H	1.39	0.67
1:2:1537:C:N4	1:2:1572:G:H1	1.92	0.67
1:2:1564:U:H2'	1:2:1565:C:C6	2.29	0.67
36:5:1470:U:OP1	85:5:3459:OHX:N6	2.27	0.67
58:N2:103:TYR:OH	36:5:1677:G:OP2	147.61	0.67
1:6:1394:G:H1	1:6:1404:C:H42	1.43	0.67
16:C4:81:VAL:H	16:C4:115:ILE:HG22	1.59	0.67
42:L5:50:ARG:NH1	42:L5:72:ASP:OD2	2.25	0.67
60:N4:63:ILE:O	60:N4:65:GLU:N	2.75	0.67
71:O5:85:THR:HG22	71:O5:87:ALA:H	1.60	0.67
11:S9:146:PHE:HZ	1:6:765:G:N1	430.88	0.67
1:2:1701:A:H3'	1:2:1702:A:H5''	1.77	0.66
36:5:1170:A:OP2	85:5:3505:OHX:N6	2.27	0.66
1:6:822:U:H2'	1:6:823:G:H5''	1.77	0.66
1:6:9:U:O4	85:6:2000:OHX:N3	2.28	0.66
30:D8:12:VAL:HA	30:D8:30:VAL:HG12	1.78	0.66
41:L4:269:SER:O	41:L4:269:SER:OG	2.09	0.66
44:L7:178:ILE:HA	44:L7:183:ASP:HB3	2.02	0.66
76:Q0:77:ILE:HG23	76:Q0:78:ILE:HG22	5.87	0.66
2:S0:55:GLU:HG2	23:D1:79:LEU:HD22	5.03	0.66
3:S1:173:THR:O	3:S1:177:GLN:NE2	2.27	0.66
4:S2:148:LEU:HA	23:D1:4:ASP:HB2	2.68	0.66
9:S7:73:VAL:O	9:S7:75:THR:N	2.26	0.66
11:S9:34:PHE:O	11:S9:110:GLN:NE2	2.42	0.66
1:2:577:G:H2'	35:SM:99:LYS:NZ	2.10	0.66
36:1:2579:G:O6	85:1:3462:OHX:N2	2.28	0.66
1:2:1522:U:OP2	85:2:1937:OHX:N3	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1239:U:O4	85:2:1925:OHX:N2	2.28	0.66
36:5:2429:G:OP2	85:5:3549:OHX:N5	2.28	0.66
1:6:228:G:H1	1:6:236:A:H61	1.42	0.66
18:C6:32:ASN:N	18:C6:67:VAL:O	2.15	0.66
39:L2:189:TYR:HA	39:L2:192:LYS:HG3	4.45	0.66
46:L9:49:ASN:ND2	46:L9:49:ASN:O	2.28	0.66
72:O6:67:LYS:O	72:O6:70:ARG:N	3.37	0.66
6:S4:118:GLU:C	6:S4:120:SER:H	2.47	0.66
9:S7:39:ARG:HH22	55:M9:189:ALA:HB2	5.33	0.66
36:1:1344:G:H1	36:1:1360:C:H42	1.41	0.66
36:1:184:U:H3	36:1:232:G:H1	1.40	0.66
36:1:2972:G:H2'	36:1:2973:G:H8	1.60	0.66
85:5:3444:OHX:N2	85:5:3739:OHX:N6	2.43	0.66
14:C2:60:VAL:HG23	14:C2:87:PRO:HG2	1.76	0.66
39:L2:20:THR:HA	39:L2:23:ARG:HD2	1.76	0.66
36:1:2415:C:OP1	39:L2:2:GLY:N	2.28	0.66
42:L5:76:ALA:HB3	42:L5:109:THR:HG22	2.24	0.66
45:L8:65:LEU:HD12	51:M5:25:VAL:HG13	2.29	0.66
45:L8:136:LEU:HD22	51:M5:3:ALA:HB2	1.75	0.66
5:S3:94:ARG:NH2	35:SM:130:GLU:OE2	2.28	0.66
36:1:377:A:O2'	36:1:391:A:N1	2.24	0.66
36:1:801:A:O2'	85:1:3518:OHX:N2	2.28	0.66
1:2:1175:U:H3	1:2:1464:G:H1	1.41	0.66
1:2:149:C:O2'	8:S6:132:ARG:NH1	2.28	0.66
36:5:2310:U:OP1	85:5:3703:OHX:N2	2.28	0.66
1:6:1154:G:N7	85:6:1989:OHX:N2	2.43	0.66
13:C1:6:THR:O	13:C1:8:GLN:N	2.27	0.66
40:L3:92:TYR:HB2	40:L3:157:VAL:HG22	1.77	0.66
51:M5:116:LEU:O	51:M5:117:ASN:ND2	3.25	0.66
5:S3:11:LEU:HD13	22:D0:29:THR:HG23	2.46	0.66
5:S3:134:CYS:SG	5:S3:135:GLU:N	2.71	0.66
34:SR:300:THR:HG23	34:SR:314:GLN:HG3	1.76	0.66
36:1:1596:C:H2'	36:1:1597:C:C6	2.31	0.66
36:1:742:G:N7	85:1:3512:OHX:N1	2.44	0.66
1:2:603:U:H2'	1:2:604:A:H8	1.59	0.66
36:5:3364:C:OP1	85:5:3444:OHX:N1	2.28	0.66
1:6:454:U:H5''	1:6:455:C:C5	2.30	0.66
43:L6:171:PRO:O	43:L6:173:MET:N	3.38	0.66
54:M8:38:ARG:NH2	36:5:1347:U:H3'	189.07	0.66
58:N2:19:VAL:O	58:N2:23:THR:OG1	2.50	0.66
34:SR:160:GLU:O	34:SR:162:ALA:N	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:52:GLN:HG2	34:SR:53:LYS:H	2.25	0.66
36:1:2941:A:OP1	40:L3:255:CYS:HB2	1.95	0.66
36:1:924:G:OP1	85:1:3682:OHX:N5	2.28	0.66
1:6:1339:C:O2'	1:6:1341:A:N7	2.28	0.66
32:E0:13:LYS:NZ	1:6:566:C:O2	375.94	0.66
18:C6:127:LYS:HA	18:C6:134:ALA:HA	1.76	0.66
18:C6:93:HIS:HA	18:C6:97:VAL:HG23	1.92	0.66
20:C8:27:LYS:O	20:C8:31:ALA:N	2.60	0.66
27:D5:43:ASP:O	27:D5:46:LYS:N	2.25	0.66
27:D5:71:ILE:HG23	27:D5:73:GLY:H	7.27	0.66
54:M8:3:ILE:HB	54:M8:5:HIS:CD2	3.90	0.66
58:N2:50:LEU:HB3	58:N2:54:VAL:HB	3.80	0.66
19:C7:33:ARG:NH2	34:SR:109:ASP:OD2	2.63	0.66
36:1:1132:C:H2'	36:1:1133:A:H8	1.60	0.66
36:1:1952:G:H3'	36:1:1953:G:H5''	1.78	0.66
37:3:4:U:H2'	37:3:5:G:C8	2.30	0.66
36:5:1276:U:OP2	85:5:3510:OHX:N1	2.29	0.66
36:5:1614:C:H2'	36:5:1615:C:C6	2.30	0.66
49:M3:16:LYS:HG3	36:5:48:A:H5''	133.66	0.66
1:6:315:A:O2'	85:6:2014:OHX:N1	2.29	0.66
7:S5:161:ASP:HB3	30:D8:54:LEU:HD11	4.78	0.66
40:L3:274:SER:OG	36:5:3139:A:OP1	228.57	0.66
40:L3:347:SER:O	40:L3:349:LYS:N	2.29	0.66
53:M7:48:LEU:HD22	53:M7:88:VAL:HG13	2.70	0.66
62:N6:45:ILE:HD11	62:N6:122:LYS:HB2	1.77	0.66
3:S1:141:ALA:HB1	3:S1:207:LEU:HD22	4.41	0.66
1:2:1453:G:H2'	1:2:1454:G:H8	1.61	0.66
1:2:405:C:OP1	85:2:1920:OHX:N4	2.29	0.66
36:5:906:A:OP1	85:5:3582:OHX:N2	2.29	0.66
1:6:1392:U:H2'	1:6:1393:C:C6	2.31	0.66
22:D0:68:ARG:NH2	22:D0:70:THR:OG1	5.33	0.66
2:S0:184:LEU:HB3	23:D1:45:ALA:HB2	1.77	0.66
33:E1:98:VAL:HG12	33:E1:99:LYS:H	3.32	0.66
49:M3:157:ARG:HG2	49:M3:158:ALA:N	2.10	0.66
36:1:1564:U:H2'	36:1:1565:G:C8	2.31	0.66
36:1:207:U:H3	36:1:222:A:H61	1.43	0.66
36:1:2535:A:N6	36:1:2544:U:H3	1.94	0.66
36:1:2767:U:O4	85:1:3575:OHX:N6	2.29	0.66
36:1:3377:G:H21	40:L3:332:ARG:NH2	1.94	0.66
1:2:1533:C:H4'	1:2:1539:G:N1	2.10	0.66
1:2:732:G:O2'	1:2:733:A:O4'	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:408:A:OP1	85:5:3606:OHX:N6	2.29	0.66
27:D5:65:LEU:HD13	27:D5:71:ILE:HD13	1.78	0.66
40:L3:95:THR:O	40:L3:97:ARG:N	2.28	0.66
42:L5:109:THR:OG1	42:L5:110:LEU:N	2.24	0.66
64:N8:70:LYS:HD3	64:N8:111:LYS:HB2	1.77	0.66
72:O6:26:ILE:HD13	36:5:155:G:H1'	87.64	0.66
73:O7:3:LYS:HB3	36:5:2138:A:C4	170.38	0.66
2:S0:35:PRO:O	2:S0:37:VAL:N	2.25	0.66
36:1:2364:G:H22	36:1:2396:G:H1'	1.61	0.66
36:1:3218:A:H4'	36:1:3219:G:O5'	1.96	0.66
1:2:209:U:H2'	1:2:210:A:C8	2.30	0.66
1:6:422:G:OP1	85:6:1911:OHX:N3	2.29	0.66
15:C3:91:LEU:HD12	15:C3:125:LEU:HD12	2.84	0.66
40:L3:313:HIS:O	40:L3:333:LYS:HE3	3.65	0.66
46:L9:138:THR:O	46:L9:139:ASN:ND2	2.30	0.66
46:L9:20:ILE:HG12	46:L9:25:VAL:HG22	3.83	0.66
49:M3:36:ARG:O	49:M3:39:ARG:N	3.90	0.66
64:N8:12:ARG:NH1	36:5:1431:G:OP2	147.65	0.66
71:O5:76:GLN:O	71:O5:81:ARG:NH1	2.70	0.66
36:5:1170:A:OP2	85:5:3505:OHX:N4	2.29	0.65
77:Q1:23:ARG:O	85:5:3504:OHX:N2	264.54	0.65
1:6:1073:G:O6	85:6:1994:OHX:N5	2.29	0.65
18:C6:109:PHE:O	18:C6:113:ASP:N	2.67	0.65
20:C8:99:HIS:HD2	20:C8:101:LEU:HD21	1.60	0.65
21:C9:38:LYS:NZ	21:C9:43:ASN:O	2.26	0.65
22:D0:37:VAL:HG21	22:D0:112:VAL:HG21	3.53	0.65
28:D6:25:ASN:ND2	28:D6:77:CYS:SG	2.69	0.65
47:M0:76:MET:HE3	47:M0:148:VAL:HG13	1.78	0.65
36:1:3043:C:OP2	59:N3:48:ARG:NH2	2.29	0.65
49:M3:64:LYS:HG3	64:N8:69:TRP:CG	2.31	0.65
3:S1:70:LEU:HD21	3:S1:79:HIS:CD2	2.31	0.65
17:C5:130:ARG:HH12	35:SM:71:ASN:HA	2.25	0.65
36:1:544:C:H1'	36:1:548:G:H22	1.61	0.65
1:2:130:C:O2'	1:2:131:C:OP1	2.12	0.65
1:2:1689:A:H2'	1:2:1690:G:H8	1.61	0.65
1:2:246:G:H1'	13:C1:40:LEU:HD13	1.78	0.65
36:5:1064:A:N6	36:5:1096:U:H3	1.93	0.65
36:5:789:A:H2'	36:5:790:U:H6	1.60	0.65
36:5:979:U:H1'	36:5:980:A:C4	2.32	0.65
16:C4:115:ILE:HG21	28:D6:44:ILE:HG21	6.90	0.65
40:L3:169:THR:HG22	40:L3:171:LEU:H	1.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:48:SER:O	85:Q2:502:OHX:N6	2.29	0.65
19:C7:22:PRO:HA	34:SR:216:LYS:HZ1	1.60	0.65
36:1:3316:A:OP1	36:1:3318:G:N2	2.30	0.65
65:N9:12:GLN:NE2	36:5:953:G:OP1	211.21	0.65
16:C4:80:HIS:ND1	16:C4:113:GLY:O	3.72	0.65
42:L5:20:PHE:O	42:L5:24:ARG:NH2	2.29	0.65
63:N7:135:ARG:NH2	36:5:2556:C:O2'	200.53	0.65
4:S2:90:THR:O	4:S2:92:ALA:N	2.28	0.65
1:2:789:A:OP1	6:S4:108:ARG:NH2	2.29	0.65
9:S7:39:ARG:NH2	55:M9:189:ALA:HB2	5.32	0.65
36:1:1278:A:O2'	36:1:1279:C:O5'	2.14	0.65
36:5:1152:G:H22	36:5:1200:A:N6	1.91	0.65
85:5:3444:OHX:N1	85:5:3739:OHX:N4	2.45	0.65
16:C4:29:HIS:O	16:C4:29:HIS:ND1	2.29	0.65
1:2:359:A:C2	25:D3:38:PHE:HB3	2.31	0.65
26:D4:52:LYS:O	26:D4:54:ALA:N	2.32	0.65
40:L3:159:ARG:HG2	40:L3:182:GLN:HA	1.78	0.65
36:1:2949:U:O3'	40:L3:241:LYS:NZ	2.29	0.65
40:L3:361:THR:HG22	40:L3:371:GLN:OE1	6.03	0.65
41:L4:74:ILE:HG22	41:L4:75:PRO:HD2	1.79	0.65
41:L4:98:ARG:HG2	41:L4:99:MET:O	1.96	0.65
41:L4:327:LEU:HA	44:L7:166:ASN:HD21	1.60	0.65
63:N7:23:VAL:HG12	63:N7:45:GLY:HA3	2.02	0.65
63:N7:78:ASN:OD1	66:O0:35:ARG:NH2	2.25	0.65
36:1:1040:A:N3	47:M0:198:LYS:NZ	2.40	0.65
36:1:2120:A:OP2	85:1:3545:OHX:N2	2.30	0.65
1:2:1487:A:H2'	1:2:1488:G:H8	1.62	0.65
1:2:458:G:OP2	26:D4:105:ARG:NH2	2.30	0.65
36:5:1564:U:H2'	36:5:1565:G:C8	2.31	0.65
53:M7:139:TYR:CE2	36:5:2355:G:H4'	147.62	0.65
22:D0:41:ILE:HG13	22:D0:107:THR:HG21	3.79	0.65
40:L3:14:LEU:HA	40:L3:17:LEU:HD13	1.79	0.65
58:N2:59:ASP:OD1	58:N2:60:GLY:N	4.65	0.65
78:Q2:21:THR:OG1	78:Q2:22:GLN:N	2.27	0.65
4:S2:41:LEU:HD21	4:S2:61:LEU:HD13	2.88	0.65
1:2:399:A:H4'	6:S4:3:ARG:HG2	1.78	0.65
8:S6:31:ARG:HH11	8:S6:34:GLN:HE22	1.45	0.65
10:S8:66:SER:O	10:S8:183:ILE:HG22	5.83	0.65
36:1:1742:U:H2'	36:1:1743:G:C8	2.32	0.65
1:2:1592:A:H2'	1:2:1593:A:H8	1.61	0.65
1:2:142:G:H22	1:2:173:A:H2	1.41	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1409:G:O6	85:5:3666:OHX:N6	2.30	0.65
36:5:850:U:H2'	36:5:851:C:H6	1.62	0.65
6:S4:187:ARG:HH22	1:6:753:A:H62	374.64	0.65
13:C1:6:THR:HB	13:C1:9:SER:HB3	1.79	0.65
18:C6:114:ARG:H	18:C6:116:LEU:HD22	1.61	0.65
21:C9:15:ILE:HD11	21:C9:63:ARG:HD2	5.10	0.65
28:D6:66:LYS:HD3	28:D6:66:LYS:H	1.62	0.65
47:M0:144:ASN:O	47:M0:147:VAL:N	2.28	0.65
56:N0:66:GLU:OE2	56:N0:73:LYS:NZ	2.23	0.65
63:N7:25:ILE:HA	63:N7:43:VAL:HG12	1.82	0.65
68:O2:33:ARG:NH1	36:5:944:C:H4'	161.66	0.65
36:1:1739:U:O2	70:O4:41:ARG:NH1	2.30	0.65
70:O4:74:ARG:HG2	70:O4:75:ALA:N	2.15	0.65
36:1:2295:A:N3	36:1:2929:C:O2'	2.28	0.65
36:1:561:C:H2'	36:1:562:C:C6	2.31	0.65
36:1:788:C:H2'	36:1:789:A:C8	2.32	0.65
1:2:1672:G:O6	85:2:1922:OHX:N3	2.30	0.65
1:6:938:G:N7	85:6:1960:OHX:N3	2.45	0.65
13:C1:36:LYS:HD3	1:6:248:U:H4'	311.56	0.65
22:D0:27:THR:HG23	22:D0:113:ASP:HB3	1.78	0.65
41:L4:181:VAL:O	41:L4:183:LYS:N	2.29	0.65
41:L4:38:VAL:HG13	41:L4:113:VAL:HG11	2.83	0.65
46:L9:37:ASN:HD21	46:L9:39:LYS:HD3	3.89	0.65
38:4:71:A:O2'	62:N6:52:ARG:NH2	2.30	0.65
4:S2:139:ILE:HD12	4:S2:191:ALA:HB1	1.76	0.65
10:S8:165:LEU:HB3	10:S8:183:ILE:HD13	3.45	0.65
34:SR:178:VAL:HB	34:SR:192:PHE:HB2	2.30	0.65
36:1:2646:C:H5''	47:M0:119:TRP:CD1	2.31	0.65
36:1:2177:G:O6	85:1:3460:OHX:N2	2.30	0.65
1:2:1098:U:P	4:S2:168:ARG:HH21	2.20	0.65
1:2:280:U:O2'	1:2:281:G:OP2	2.12	0.65
13:C1:33:ARG:NH2	13:C1:51:GLY:O	2.55	0.65
44:L7:88:ARG:HD2	44:L7:90:LYS:O	2.03	0.65
45:L8:89:GLU:HB3	45:L8:214:LEU:HD21	3.45	0.65
47:M0:52:LEU:HD23	47:M0:165:ILE:HG12	6.16	0.65
57:N1:38:ASP:N	57:N1:38:ASP:OD1	2.29	0.65
67:O1:79:ARG:NE	67:O1:79:ARG:H	1.95	0.65
3:S1:61:LEU:HG	3:S1:64:ARG:HH21	1.62	0.65
36:1:339:C:OP1	36:1:1380:G:O2'	2.15	0.65
36:1:1524:A:O2'	36:1:1526:U:OP2	2.14	0.65
1:2:649:U:O2'	1:2:650:U:O5'	2.15	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2416:U:O4	85:5:3677:OHX:N5	2.30	0.65
36:5:2111:G:OP1	85:5:3444:OHX:N5	2.30	0.65
36:5:3374:U:O4	85:5:3742:OHX:N5	2.30	0.65
19:C7:95:ARG:N	19:C7:96:SER:HB3	4.10	0.65
31:D9:5:ASN:OD1	31:D9:7:TRP:NE1	2.28	0.65
47:M0:76:MET:CE	47:M0:148:VAL:HA	2.66	0.65
47:M0:9:TYR:O	47:M0:59:GLN:NE2	2.30	0.65
77:Q1:22:ALA:HA	77:Q1:25:LYS:HG3	1.79	0.65
3:S1:143:THR:HA	3:S1:207:LEU:HA	1.79	0.65
8:S6:186:ARG:O	8:S6:190:GLN:HG2	1.97	0.65
8:S6:59:GLN:NE2	8:S6:72:ARG:HH12	1.95	0.65
11:S9:163:PRO:O	11:S9:165:GLY:N	2.29	0.65
36:1:1460:A:H2'	36:1:1461:A:C8	2.32	0.65
85:1:3475:OHX:N3	85:1:3737:OHX:N4	2.45	0.65
36:1:561:C:H2'	36:1:562:C:H6	1.62	0.65
1:2:1022:C:OP2	85:2:1928:OHX:N6	2.30	0.65
36:5:1184:A:OP2	85:5:3601:OHX:N6	2.30	0.65
36:5:2877:G:OP1	85:5:3558:OHX:N4	2.29	0.65
1:6:833:U:O4	85:6:1955:OHX:N2	2.30	0.65
1:6:560:U:H2'	1:6:561:G:H8	1.62	0.65
16:C4:35:GLY:HA3	1:6:919:A:H5'	269.88	0.65
73:O7:72:ARG:NH1	38:8:95:G:OP2	52.72	0.65
21:C9:69:LYS:HB3	21:C9:70:GLN:OE1	4.35	0.65
22:D0:28:SER:OG	22:D0:111:GLY:O	2.21	0.65
23:D1:32:VAL:HB	23:D1:60:ARG:HD2	3.16	0.65
39:L2:65:ASP:OD2	39:L2:68:LYS:N	2.30	0.65
47:M0:21:ARG:NH2	47:M0:22:TYR:OH	2.29	0.65
53:M7:120:ASN:OD1	53:M7:120:ASN:N	2.29	0.65
53:M7:40:GLU:HB3	53:M7:43:LYS:HB2	1.93	0.65
58:N2:50:LEU:HB3	58:N2:54:VAL:HG23	1.79	0.65
66:O0:103:THR:O	66:O0:105:ALA:N	3.62	0.65
4:S2:88:LYS:HB3	4:S2:95:ARG:HD2	4.79	0.65
10:S8:62:THR:HA	10:S8:76:THR:O	2.46	0.65
10:S8:76:THR:HB	10:S8:105:ASP:HB2	1.79	0.65
1:2:560:U:H2'	1:2:561:G:H8	1.62	0.64
1:2:803:A:C4	9:S7:104:ARG:HG3	2.32	0.64
1:2:1417:A:O3'	18:C6:128:LYS:HE2	1.97	0.64
18:C6:78:VAL:O	18:C6:81:ILE:HG12	1.97	0.64
36:1:825:U:OP1	39:L2:21:ARG:NH1	2.27	0.64
42:L5:48:LYS:HD2	42:L5:145:PHE:HE2	4.08	0.64
66:O0:57:GLU:OE1	66:O0:69:TYR:OH	2.17	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:113:MET:SD	3:S1:209:ASN:ND2	4.05	0.64
36:1:2206:G:H1	36:1:2237:C:N4	1.95	0.64
36:1:86:G:O2'	36:1:98:G:O6	2.12	0.64
1:2:1672:G:N7	85:2:1922:OHX:N5	2.45	0.64
85:2:1909:OHX:N6	85:2:2025:OHX:N2	2.45	0.64
37:3:5:G:OP1	48:M1:143:ARG:NH2	2.30	0.64
36:5:1155:C:H2'	36:5:1156:C:H6	1.62	0.64
36:5:1921:A:H2'	36:5:1922:A:H8	1.61	0.64
36:5:2953:U:H2'	36:5:2954:U:H2'	1.79	0.64
1:6:833:U:O4	85:6:1955:OHX:N5	2.28	0.64
1:6:230:C:H42	1:6:235:G:H1	1.44	0.64
18:C6:115:THR:O	18:C6:117:LEU:N	4.00	0.64
39:L2:188:LYS:HD2	39:L2:189:TYR:CE2	6.78	0.64
40:L3:20:LYS:HG3	40:L3:21:ARG:O	1.96	0.64
45:L8:33:ASN:OD1	45:L8:38:GLN:NE2	3.17	0.64
3:S1:154:SER:O	3:S1:154:SER:OG	2.15	0.64
6:S4:246:LEU:HB2	6:S4:251:GLU:HG3	1.83	0.64
7:S5:121:ILE:HA	7:S5:199:ILE:HD11	1.79	0.64
7:S5:53:VAL:HB	7:S5:59:VAL:HG22	1.79	0.64
9:S7:181:ILE:HG22	9:S7:182:VAL:H	4.16	0.64
1:2:1559:A:H5''	20:C8:135:GLY:HA3	1.79	0.64
1:2:1041:G:OP1	85:2:2028:OHX:N5	2.31	0.64
36:5:3358:U:H2'	36:5:3359:A:C8	2.33	0.64
27:D5:74:SER:OG	1:6:1534:G:OP2	344.11	0.64
26:D4:62:THR:HA	26:D4:69:SER:HA	2.07	0.64
39:L2:65:ASP:HB3	39:L2:68:LYS:O	2.33	0.64
40:L3:308:MET:HB2	40:L3:363:SER:HB2	1.78	0.64
40:L3:83:PRO:O	40:L3:165:GLN:NE2	3.43	0.64
66:O0:100:ILE:HG13	66:O0:101:LEU:HD22	3.49	0.64
36:1:1110:U:H2'	36:1:1111:U:C6	2.33	0.64
36:1:1508:C:OP1	53:M7:127:ARG:NH2	2.30	0.64
36:1:3312:U:H5''	40:L3:25:ILE:HD12	1.80	0.64
36:5:1765:U:OP1	36:5:1765:U:H4'	1.96	0.64
36:5:2561:A:HO2'	36:5:2562:A:H8	1.44	0.64
85:5:3444:OHX:N5	85:5:3739:OHX:N6	2.45	0.64
1:6:486:G:H22	1:6:501:U:H3	1.46	0.64
41:L4:312:VAL:HG23	41:L4:313:LEU:HB2	1.79	0.64
43:L6:40:LEU:HD13	43:L6:84:VAL:HG11	2.17	0.64
49:M3:56:PRO:HG3	49:M3:74:GLY:O	1.99	0.64
63:N7:105:SER:O	63:N7:109:GLU:N	3.37	0.64
7:S5:72:HIS:HD2	7:S5:107:LYS:HG2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1400:A:H4'	19:C7:60:ARG:HH22	1.62	0.64
36:5:1441:G:O6	85:5:3466:OHX:N2	2.30	0.64
36:5:1661:G:H2'	36:5:1662:G:C8	2.33	0.64
1:6:1638:G:C2	1:6:1639:C:H1'	2.33	0.64
1:6:27:U:H2'	1:6:28:A:C8	2.33	0.64
2:S0:112:THR:HG23	2:S0:115:PHE:HB2	1.79	0.64
36:1:1795:U:H2'	39:L2:50:HIS:HD2	1.61	0.64
1:2:1793:G:H1'	1:2:1794:A:H2'	1.78	0.64
36:5:2859:U:O2'	85:5:3403:OHX:N2	2.31	0.64
36:5:3078:U:O2'	85:5:3699:OHX:N1	2.31	0.64
12:C0:4:PRO:HG2	12:C0:7:ASP:HB2	3.40	0.64
46:L9:8:GLN:HG2	46:L9:68:LEU:HD13	1.78	0.64
49:M3:42:ARG:NH1	49:M3:51:LEU:O	2.26	0.64
3:S1:176:VAL:HG12	3:S1:177:GLN:H	1.63	0.64
8:S6:20:ASP:HB3	8:S6:23:ARG:HB2	5.45	0.64
10:S8:10:LYS:HG2	13:C1:133:LYS:HE3	1.80	0.64
10:S8:197:THR:HA	10:S8:200:LYS:HB2	1.78	0.64
36:1:2228:A:H2'	36:1:2229:A:C8	2.32	0.64
36:1:3182:G:H2'	36:1:3183:A:H8	1.61	0.64
68:O2:105:ARG:NH2	36:5:1412:G:OP1	146.04	0.64
44:L7:34:LYS:NZ	36:5:596:C:OP2	241.15	0.64
1:6:1280:C:H2'	1:6:1281:G:C8	2.33	0.64
1:2:434:G:H5'	25:D3:78:LYS:HB3	1.80	0.64
39:L2:108:PRO:O	39:L2:111:THR:OG1	2.15	0.64
36:1:1381:A:OP1	41:L4:197:ARG:NH1	2.31	0.64
44:L7:145:ARG:HA	44:L7:185:ILE:HD13	2.48	0.64
44:L7:151:ARG:NH1	44:L7:244:ASN:OD1	3.53	0.64
85:1:3448:OHX:N3	51:M5:34:ASN:OD1	2.31	0.64
54:M8:165:ILE:HD11	54:M8:172:PHE:HB3	1.79	0.64
35:SM:47:ALA:HB2	36:1:2678:A:C8	2.32	0.64
20:C8:145:ARG:HB3	35:SM:68:ARG:HH12	4.55	0.64
85:1:3483:OHX:N1	85:1:3656:OHX:N2	2.45	0.64
36:1:70:A:N1	36:1:313:A:O2'	2.28	0.64
36:1:829:U:H3	36:1:895:A:H62	1.46	0.64
36:5:1466:G:O6	85:5:3415:OHX:N5	2.30	0.64
36:5:1688:U:H2'	36:5:1689:U:C6	2.32	0.64
36:5:2320:A:OP2	85:5:3579:OHX:N5	2.31	0.64
1:6:1524:A:H2'	1:6:1525:A:C8	2.32	0.64
1:6:1769:U:OP2	85:6:1998:OHX:N2	2.30	0.64
23:D1:17:CYS:SG	23:D1:20:THR:N	4.28	0.64
30:D8:21:SER:H	30:D8:67:ARG:HA	3.90	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:117:GLU:OE2	39:L2:121:GLY:N	2.23	0.64
62:N6:40:ARG:HD3	62:N6:46:LYS:HA	1.80	0.64
36:1:1709:C:OP1	70:O4:83:ASN:ND2	2.31	0.64
36:1:361:A:H4'	73:O7:45:ARG:HH12	1.62	0.64
36:1:2718:U:OP2	85:1:3520:OHX:N3	2.31	0.64
36:5:754:G:H2'	36:5:755:A:H8	1.63	0.64
24:D2:6:VAL:HG13	24:D2:29:PRO:HD2	1.79	0.64
25:D3:70:LYS:HB3	25:D3:93:LEU:HD22	1.80	0.64
40:L3:10:ARG:NH1	40:L3:11:HIS:O	2.30	0.64
43:L6:26:ARG:NH1	36:5:503:C:OP1	255.38	0.64
49:M3:187:ALA:HA	49:M3:190:LYS:HB3	1.80	0.64
53:M7:60:PHE:CE2	53:M7:82:ARG:HB2	2.33	0.64
64:N8:135:GLU:HB2	64:N8:145:VAL:HG21	3.80	0.64
68:O2:86:THR:HG22	68:O2:87:MET:HG2	1.79	0.64
2:S0:191:ARG:O	2:S0:193:GLN:NE2	2.31	0.64
6:S4:73:ASP:OD2	6:S4:122:LYS:NZ	2.25	0.64
1:2:127:G:N7	8:S6:202:ARG:NH2	2.45	0.64
10:S8:103:GLN:HG2	10:S8:164:ARG:HG2	1.80	0.64
34:SR:159:ASN:ND2	34:SR:166:SER:O	2.31	0.64
36:1:2697:A:H2'	36:1:2698:G:C8	2.33	0.64
36:1:1170:A:OP2	85:1:3495:OHX:N5	2.31	0.64
1:2:1213:G:O6	85:2:1907:OHX:N3	2.31	0.64
1:2:887:A:H1'	16:C4:122:PRO:HB3	1.79	0.64
1:6:1350:U:H2'	1:6:1351:G:C8	2.32	0.64
1:6:213:A:OP2	85:6:2004:OHX:N1	2.31	0.64
13:C1:60:PHE:HE2	13:C1:115:PHE:HE1	1.46	0.64
20:C8:35:ILE:HB	20:C8:38:VAL:HG22	2.10	0.64
24:D2:77:PRO:O	24:D2:79:PHE:N	2.31	0.64
33:E1:144:CYS:HB3	33:E1:147:VAL:HG12	3.47	0.64
39:L2:21:ARG:NH1	36:5:825:U:OP1	171.78	0.64
36:1:3004:C:O2'	40:L3:99:LEU:O	2.14	0.64
44:L7:157:ASN:O	44:L7:159:GLN:HG2	3.82	0.64
45:L8:195:SER:O	45:L8:197:VAL:N	2.35	0.64
45:L8:61:GLN:HA	45:L8:64:ILE:HD12	2.02	0.64
64:N8:16:SER:HA	36:5:942:U:N3	169.80	0.64
78:Q2:99:GLN:NE2	78:Q2:102:GLN:OE1	2.31	0.64
36:1:1222:G:O6	85:1:3650:OHX:N2	2.31	0.63
36:1:1390:A:N6	36:1:1418:A:O2'	2.31	0.63
1:2:1520:U:OP2	21:C9:75:LYS:NZ	2.19	0.63
1:6:992:A:O2'	1:6:1785:U:O2	2.16	0.63
21:C9:115:GLU:OE2	21:C9:123:ARG:NH1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:62:LYS:HG3	25:D3:118:PRO:HG3	2.99	0.63
1:2:1063:U:OP1	29:D7:72:LYS:NZ	2.31	0.63
30:D8:64:ARG:HH21	30:D8:65:ARG:HE	6.77	0.63
40:L3:129:ALA:O	36:5:3150:A:H5'	211.19	0.63
45:L8:156:ASP:OD2	45:L8:156:ASP:N	2.30	0.63
52:M6:23:VAL:HG11	52:M6:84:LEU:HD11	1.80	0.63
36:1:994:G:H3'	57:N1:13:TYR:CD2	2.33	0.63
70:O4:58:ARG:HG3	70:O4:58:ARG:HH11	2.10	0.63
34:SR:150:TRP:HB2	34:SR:174:ASN:HB2	1.80	0.63
36:1:31:C:OP2	51:M5:188:ARG:NH2	2.30	0.63
41:L4:161:LYS:NZ	36:5:209:A:OP1	74.58	0.63
36:5:322:U:H5''	36:5:323:A:OP1	1.97	0.63
1:6:1595:U:H3	1:6:1600:A:H2	1.45	0.63
19:C7:32:LYS:HG3	19:C7:47:ARG:HD3	1.80	0.63
2:S0:52:LYS:NZ	23:D1:82:VAL:O	2.43	0.63
39:L2:19:HIS:O	39:L2:23:ARG:NH1	3.18	0.63
41:L4:181:VAL:HG11	41:L4:224:GLY:HA3	2.72	0.63
47:M0:148:VAL:O	47:M0:151:GLY:N	2.30	0.63
52:M6:39:GLU:OE1	52:M6:39:GLU:N	2.24	0.63
53:M7:10:ASN:ND2	53:M7:13:LYS:HG3	2.12	0.63
57:N1:104:GLU:OE1	57:N1:130:ARG:NH1	2.30	0.63
42:L5:41:LYS:HG2	57:N1:93:VAL:HG11	1.79	0.63
36:1:1844:C:O2	73:O7:9:GLY:HA2	1.98	0.63
77:Q1:2:ARG:HG2	77:Q1:5:TRP:CD1	3.94	0.63
85:Q2:502:OHX:N2	36:5:45:A:OP1	157.53	0.63
3:S1:101:HIS:HA	3:S1:217:LEU:HD22	2.02	0.63
7:S5:225:ARG:NH2	30:D8:58:GLU:HB2	5.00	0.63
11:S9:109:LEU:HD13	11:S9:129:ILE:HD13	2.84	0.63
36:1:3166:C:H42	36:1:3284:G:H1	1.47	0.63
85:2:1909:OHX:N3	85:2:2025:OHX:N5	2.46	0.63
1:2:635:A:H2'	1:2:636:A:H8	1.63	0.63
38:4:150:G:N7	85:4:205:OHX:N4	2.45	0.63
36:5:1781:C:H2'	36:5:1782:U:H6	1.62	0.63
36:5:1952:G:H1	36:5:2094:C:H42	1.42	0.63
19:C7:27:ASP:OD1	34:SR:38:ARG:NH1	2.29	0.63
1:2:1479:A:OP1	21:C9:57:ARG:NH1	2.31	0.63
40:L3:199:PHE:O	40:L3:201:LYS:N	2.63	0.63
49:M3:91:ARG:NH2	49:M3:97:VAL:O	2.31	0.63
36:1:3187:A:H5''	50:M4:8:LYS:HD2	1.79	0.63
2:S0:183:ARG:NH1	2:S0:192:THR:O	2.30	0.63
3:S1:111:ARG:HB3	28:D6:68:TYR:CD2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:125:TYR:O	5:S3:129:SER:OG	3.29	0.63
34:SR:38:ARG:HA	34:SR:67:ILE:HG23	1.79	0.63
36:1:3042:U:OP2	36:1:3092:C:N4	2.31	0.63
36:1:3165:A:H61	36:1:3285:C:H42	1.45	0.63
36:1:1789:G:O6	85:1:3707:OHX:N4	2.31	0.63
68:O2:44:ARG:NH1	36:5:1145:G:OP1	206.97	0.63
36:5:2770:G:N7	85:5:3660:OHX:N5	2.46	0.63
1:6:218:A:H2'	1:6:219:A:H5''	1.79	0.63
1:6:491:C:H42	1:6:497:G:H21	1.47	0.63
51:M5:139:HIS:NE2	38:8:143:U:O2'	93.70	0.63
21:C9:115:GLU:HG3	21:C9:123:ARG:HD3	4.75	0.63
1:2:1795:U:H3'	28:D6:5:ARG:HH12	1.64	0.63
41:L4:158:SER:HA	41:L4:213:ASN:HB2	1.81	0.63
51:M5:106:VAL:HG11	51:M5:132:VAL:HG21	1.81	0.63
70:O4:37:LYS:HB2	70:O4:58:ARG:HH21	1.63	0.63
70:O4:54:ILE:HD11	70:O4:78:GLY:HA2	2.31	0.63
79:Q3:7:LYS:O	79:Q3:27:LYS:NZ	2.97	0.63
3:S1:48:VAL:HG21	3:S1:61:LEU:HD22	4.72	0.63
36:1:1454:A:H5''	36:1:1455:U:H5'	1.81	0.63
36:1:2101:C:H4'	36:1:2102:U:OP1	1.98	0.63
85:2:1909:OHX:N4	85:2:2025:OHX:N1	2.47	0.63
36:5:2105:G:H2'	36:5:2106:A:H8	1.62	0.63
36:5:2561:A:O2'	36:5:2562:A:H5''	1.99	0.63
36:5:3177:G:O2'	36:5:3179:U:OP1	2.13	0.63
26:D4:121:THR:OG1	1:6:149:C:OP1	335.45	0.63
1:6:1564:U:H2'	1:6:1565:C:C6	2.34	0.63
38:8:68:G:H1	38:8:91:C:H42	1.45	0.63
17:C5:126:VAL:HG13	17:C5:127:ARG:H	1.77	0.63
19:C7:100:LEU:O	19:C7:120:SER:OG	2.16	0.63
24:D2:89:TRP:O	24:D2:93:LEU:HD23	2.17	0.63
42:L5:178:ASN:HA	42:L5:183:TRP:CG	2.69	0.63
53:M7:10:ASN:ND2	53:M7:12:ALA:HB3	2.14	0.63
63:N7:25:ILE:HG23	63:N7:41:ALA:HB1	2.26	0.63
3:S1:103:MET:HB3	3:S1:215:VAL:HG12	2.49	0.63
9:S7:77:LEU:O	9:S7:81:LEU:N	2.91	0.63
36:1:788:C:H2'	36:1:789:A:H8	1.64	0.63
36:5:845:G:O6	85:5:3541:OHX:N6	2.32	0.63
22:D0:106:ILE:HG13	22:D0:107:THR:H	1.63	0.63
47:M0:188:GLY:HA3	47:M0:216:TYR:HD1	1.62	0.63
55:M9:135:LYS:NZ	36:5:1949:G:OP2	224.78	0.63
49:M3:64:LYS:HD2	64:N8:66:ALA:HB1	3.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:119:ARG:HH11	2:S0:119:ARG:HB3	1.64	0.63
36:1:3346:U:H3	36:1:3359:A:N6	1.97	0.63
85:1:3475:OHX:N5	85:1:3737:OHX:N6	2.46	0.63
36:1:437:G:H2'	36:1:438:A:O4'	1.99	0.63
1:2:1067:C:H2'	1:2:1068:C:C6	2.34	0.63
1:6:363:G:OP1	85:6:1966:OHX:N1	2.32	0.63
40:L3:185:GLY:O	40:L3:191:LYS:NZ	2.69	0.63
43:L6:52:VAL:HG11	43:L6:65:ILE:HD12	1.81	0.63
36:1:1117:G:OP1	65:N9:4:SER:HB2	1.99	0.63
71:O5:89:ARG:HG2	71:O5:89:ARG:HH11	1.63	0.63
4:S2:88:LYS:O	4:S2:95:ARG:N	2.96	0.63
34:SR:164:ASP:O	34:SR:166:SER:N	2.84	0.63
36:1:410:U:O4	85:1:3593:OHX:N2	2.32	0.63
1:2:482:U:H2'	1:2:483:A:H8	1.64	0.63
1:2:927:C:H1'	16:C4:125:SER:HB2	1.79	0.63
36:5:3287:U:H2'	36:5:3288:G:H5'	1.81	0.63
85:5:3596:OHX:N1	38:8:18:U:OP1	2.32	0.63
1:6:1537:C:O2'	1:6:1540:G:O6	2.17	0.63
1:6:180:A:H2'	1:6:181:A:O4'	1.99	0.63
29:D7:56:CYS:SG	29:D7:57:GLU:N	2.80	0.63
40:L3:19:ARG:HG3	40:L3:273:HIS:CE1	2.34	0.63
47:M0:171:TRP:O	47:M0:174:THR:HG22	1.99	0.63
51:M5:13:LYS:O	51:M5:16:SER:OG	2.11	0.63
57:N1:12:ARG:HH11	57:N1:13:TYR:HE1	1.47	0.63
64:N8:88:ASP:HA	64:N8:91:LEU:HB2	2.74	0.63
2:S0:74:VAL:HG22	2:S0:96:THR:HG23	2.57	0.63
4:S2:81:MET:HB2	4:S2:101:VAL:HG12	1.80	0.63
9:S7:50:ASP:HA	9:S7:56:LYS:HA	1.81	0.63
36:1:2254:U:H2'	36:1:2261:G:N2	2.13	0.63
36:1:367:A:OP1	85:1:3420:OHX:N2	2.32	0.63
36:1:612:U:H2'	36:1:613:G:H8	1.63	0.63
1:2:1041:G:H2'	1:2:1042:G:C8	2.34	0.63
1:2:176:C:OP1	85:2:1951:OHX:N3	2.31	0.63
85:2:1909:OHX:N4	85:2:2025:OHX:N2	2.46	0.63
37:3:112:G:OP2	85:3:208:OHX:N1	2.32	0.63
39:L2:193:ARG:NH2	36:5:2181:C:OP1	197.21	0.63
36:5:3042:U:OP2	36:5:3092:C:N4	2.32	0.63
36:5:419:G:O6	85:5:3407:OHX:N3	2.32	0.63
36:5:3074:G:OP1	85:5:3623:OHX:N4	2.32	0.63
36:5:821:U:O2'	36:5:912:G:OP1	2.14	0.63
39:L2:204:MET:HG2	36:5:914:A:C2	195.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1173:C:H2'	1:6:1174:C:H6	1.64	0.63
1:6:915:A:OP1	85:6:1925:OHX:N6	2.32	0.63
13:C1:87:ARG:HH21	13:C1:104:HIS:CE1	2.16	0.63
24:D2:26:LEU:HD21	24:D2:60:LYS:HD3	1.81	0.63
1:2:1136:U:OP1	25:D3:62:LYS:NZ	2.32	0.63
42:L5:140:ARG:HB2	36:5:1080:A:OP1	228.59	0.63
47:M0:156:ARG:HH11	47:M0:156:ARG:HG3	2.74	0.63
53:M7:27:LYS:HD3	53:M7:63:PHE:HB3	1.95	0.63
69:O3:30:ILE:HB	69:O3:81:VAL:HG12	1.79	0.63
74:O8:26:LYS:HE2	36:5:1751:G:H5''	128.75	0.63
9:S7:103:SER:O	9:S7:106:SER:OG	2.16	0.63
36:1:1389:G:OP2	85:1:3509:OHX:N4	2.32	0.62
36:1:2236:G:OP1	85:1:3655:OHX:N6	2.32	0.62
36:1:3182:G:H2'	36:1:3183:A:C8	2.34	0.62
36:5:1724:U:H1'	36:5:1725:C:C6	2.35	0.62
15:C3:136:PRO:O	15:C3:138:ASN:N	2.42	0.62
19:C7:47:ARG:NH1	19:C7:48:ASN:OD1	2.64	0.62
4:S2:143:TYR:O	24:D2:98:GLN:NE2	2.93	0.62
40:L3:146:ARG:O	40:L3:150:ARG:N	2.31	0.62
41:L4:193:LYS:HA	41:L4:198:ARG:HA	1.80	0.62
42:L5:52:VAL:HA	42:L5:147:ASP:HB3	2.18	0.62
42:L5:55:PHE:CZ	42:L5:158:ARG:HG3	2.34	0.62
85:1:3495:OHX:N3	44:L7:217:PRO:O	2.31	0.62
48:M1:54:VAL:HG23	48:M1:59:ILE:HD11	2.28	0.62
78:Q2:4:VAL:HG22	78:Q2:93:LEU:HB2	1.81	0.62
1:2:1426:C:H5''	35:SM:93:ARG:HH12	1.63	0.62
34:SR:72:THR:HG21	34:SR:114:ASP:HA	3.11	0.62
34:SR:112:SER:OG	34:SR:155:ARG:NH1	2.29	0.62
36:1:3242:G:N2	36:1:3245:A:OP2	2.32	0.62
36:1:407:A:C2	38:4:17:A:H1'	2.34	0.62
1:2:915:A:OP1	85:2:1972:OHX:N3	2.32	0.62
57:N1:92:ARG:NH1	36:5:2736:A:OP1	235.77	0.62
36:5:1817:G:OP1	85:5:3684:OHX:N1	2.31	0.62
36:5:86:G:O2'	36:5:98:G:O6	2.15	0.62
22:D0:74:GLU:HG2	1:6:1429:G:H1'	377.74	0.62
13:C1:131:ILE:HG22	13:C1:132:SER:HB3	2.80	0.62
17:C5:126:VAL:O	17:C5:127:ARG:HB2	2.46	0.62
17:C5:51:SER:C	17:C5:53:PRO:HD2	4.18	0.62
24:D2:73:GLY:HA3	24:D2:128:PHE:CE1	2.72	0.62
27:D5:58:ARG:HA	27:D5:103:ARG:HB2	5.71	0.62
44:L7:25:GLN:HA	44:L7:29:GLU:H	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:197:LEU:HG	51:M5:199:LEU:HG	1.81	0.62
62:N6:5:SER:HB3	62:N6:8:VAL:HG13	3.53	0.62
71:O5:83:LYS:HA	38:8:38:U:H5	65.70	0.62
78:Q2:71:ARG:HE	78:Q2:80:ARG:HE	1.45	0.62
1:2:1046:G:OP1	3:S1:157:GLN:NE2	2.31	0.62
6:S4:50:ASN:O	6:S4:53:LYS:NZ	2.27	0.62
36:1:1696:A:OP2	85:1:3697:OHX:N3	2.32	0.62
36:1:3335:A:H2'	36:1:3336:A:C8	2.34	0.62
36:1:715:A:N7	64:N8:115:LYS:NZ	2.48	0.62
1:2:1087:A:H2'	1:2:1088:A:C8	2.34	0.62
1:2:1230:A:H2'	1:2:1258:U:H5	1.64	0.62
1:2:1331:A:OP1	19:C7:45:ARG:NH2	2.32	0.62
1:2:732:G:O6	85:2:2008:OHX:N5	2.32	0.62
36:5:1471:U:H2'	36:5:1472:U:H6	1.64	0.62
36:5:2960:C:H2'	36:5:2961:G:C8	2.35	0.62
52:M6:68:ARG:NH1	36:5:2988:C:OP1	217.72	0.62
43:L6:78:ARG:NH1	36:5:3272:C:OP2	247.40	0.62
1:6:86:A:OP2	85:6:2042:OHX:N1	2.31	0.62
1:6:333:A:C6	1:6:334:G:C6	2.88	0.62
43:L6:66:SER:O	43:L6:68:PRO:HA	4.13	0.62
36:1:2514:U:H5'	45:L8:68:ARG:HG3	1.80	0.62
61:N5:103:TYR:HB3	61:N5:135:ILE:HD11	3.24	0.62
69:O3:51:TYR:HB2	69:O3:98:VAL:HG23	1.81	0.62
79:Q3:56:THR:HG22	79:Q3:63:THR:HG23	2.06	0.62
2:S0:83:GLN:H	2:S0:204:TYR:HH	10.68	0.62
5:S3:113:LEU:HD21	5:S3:117:ARG:NH1	2.13	0.62
36:1:1158:A:O5'	36:1:1158:A:H8	1.81	0.62
85:1:3475:OHX:N1	85:1:3737:OHX:N2	2.47	0.62
36:1:717:C:OP1	36:1:751:A:O2'	2.17	0.62
1:2:1738:U:H2'	1:2:1739:C:C6	2.34	0.62
1:2:66:U:OP1	8:S6:136:LYS:NZ	2.30	0.62
1:2:826:U:H2'	1:2:827:C:C6	2.34	0.62
38:4:103:G:O6	85:4:203:OHX:N4	2.32	0.62
36:5:1387:G:OP1	85:5:3705:OHX:N3	2.32	0.62
36:5:59:G:H2'	38:8:33:A:O2'	1.98	0.62
16:C4:131:GLY:O	16:C4:133:ARG:N	3.28	0.62
40:L3:348:ARG:H	40:L3:351:LEU:HD12	1.63	0.62
42:L5:39:GLN:HG3	42:L5:40:HIS:O	2.61	0.62
56:N0:11:GLY:HA2	56:N0:59:VAL:HG23	1.80	0.62
58:N2:96:VAL:HG12	58:N2:97:SER:H	2.84	0.62
63:N7:24:VAL:HG21	63:N7:87:LEU:HD23	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:86:ARG:HG2	71:O5:90:ARG:NH2	2.39	0.62
73:O7:17:THR:HG22	73:O7:18:LEU:H	1.66	0.62
79:Q3:28:LYS:HE2	1:6:983:A:H1'	244.86	0.62
5:S3:64:ARG:NH2	5:S3:65:ARG:HD3	8.75	0.62
7:S5:222:LYS:HG3	7:S5:225:ARG:CZ	2.30	0.62
1:2:591:A:H2'	1:2:592:A:H8	1.63	0.62
38:4:67:U:H2'	38:4:68:G:H8	1.63	0.62
44:L7:241:LYS:NZ	36:5:576:C:OP1	274.40	0.62
1:6:1208:A:N1	1:6:1455:G:N2	2.47	0.62
1:6:482:U:H3	1:6:505:A:H61	1.47	0.62
1:6:709:C:O2	1:6:730:G:N2	2.32	0.62
5:S3:208:ILE:HD12	19:C7:16:LEU:HD21	1.81	0.62
23:D1:51:VAL:HG11	23:D1:78:LEU:HD21	4.14	0.62
47:M0:86:HIS:HB3	47:M0:139:ARG:CG	2.61	0.62
53:M7:16:SER:HB2	53:M7:149:VAL:HG22	3.00	0.62
55:M9:13:SER:OG	55:M9:38:ARG:NH1	4.14	0.62
61:N5:137:ASN:OD1	61:N5:137:ASN:N	2.32	0.62
6:S4:9:LEU:HB2	6:S4:30:ARG:HB2	1.83	0.62
10:S8:79:ALA:HB3	10:S8:103:GLN:HB3	1.81	0.62
36:1:1315:U:OP2	52:M6:44:SER:OG	2.10	0.62
36:1:2218:G:H2'	36:1:2219:A:C8	2.33	0.62
1:2:1147:A:H2'	1:2:1148:C:C6	2.34	0.62
1:2:922:G:H2'	1:2:923:A:C8	2.34	0.62
36:5:1393:A:N3	36:5:1419:A:O2'	2.30	0.62
36:5:2877:G:N7	85:5:3644:OHX:N3	2.47	0.62
1:6:1688:U:H2'	1:6:1689:A:C8	2.33	0.62
18:C6:39:VAL:HG12	18:C6:41:PRO:HD2	4.36	0.62
32:E0:31:LYS:NZ	1:6:544:A:O3'	418.72	0.62
60:N4:8:PHE:CE2	60:N4:39:LEU:HB3	2.35	0.62
63:N7:46:ILE:HD11	63:N7:49:TYR:HA	1.81	0.62
64:N8:3:SER:O	64:N8:6:THR:HG22	1.99	0.62
71:O5:95:PHE:CD2	36:5:136:G:H5'	62.96	0.62
6:S4:71:LYS:HG3	6:S4:91:THR:HB	1.81	0.62
36:1:2723:U:H2'	36:1:2724:U:C6	2.35	0.62
36:1:789:A:H2'	36:1:790:U:H6	1.64	0.62
22:D0:23:ARG:HB3	22:D0:117:VAL:HB	4.97	0.62
40:L3:76:VAL:HG12	40:L3:325:LYS:HA	1.81	0.62
44:L7:88:ARG:HA	44:L7:134:VAL:HG12	3.07	0.62
36:1:44:U:OP1	51:M5:84:PRO:HG2	2.00	0.62
61:N5:86:VAL:HG12	61:N5:120:LYS:HB3	3.09	0.62
2:S0:123:VAL:HG11	2:S0:133:ILE:HD11	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:112:SER:HG	34:SR:155:ARG:HH12	1.43	0.62
34:SR:234:LEU:HD21	34:SR:265:LEU:HD11	1.82	0.62
36:1:3364:C:OP1	85:1:3464:OHX:N5	2.33	0.62
36:1:715:A:C8	64:N8:115:LYS:HG3	2.33	0.62
14:C2:52:LEU:O	14:C2:85:LYS:NZ	2.33	0.62
18:C6:82:ARG:HH22	18:C6:114:ARG:HB2	1.65	0.62
19:C7:6:THR:OG1	19:C7:7:LYS:N	2.31	0.62
29:D7:6:ASP:OD1	29:D7:9:HIS:ND1	3.34	0.62
50:M4:13:ARG:NH2	36:5:3206:C:N3	316.19	0.62
69:O3:37:THR:HG23	69:O3:40:ASP:HB2	1.82	0.62
4:S2:67:GLN:HA	4:S2:70:ASP:HB2	1.83	0.62
6:S4:175:PHE:HE2	6:S4:198:LYS:HD3	5.37	0.62
6:S4:52:LEU:HB3	6:S4:54:TYR:HD2	2.83	0.62
36:1:239:G:O3'	71:O5:94:LYS:NZ	2.33	0.62
36:1:381:U:O4	85:1:3598:OHX:N4	2.33	0.62
36:1:668:G:OP1	85:1:3658:OHX:N2	2.32	0.62
1:2:1098:U:OP2	4:S2:168:ARG:NH2	2.33	0.62
1:2:1330:G:N1	5:S3:204:ASP:OD1	2.32	0.62
1:2:1482:C:OP2	1:2:1521:G:N2	2.32	0.62
1:2:1114:G:O6	85:2:1952:OHX:N5	2.33	0.62
37:3:43:U:OP1	48:M1:137:ARG:NE	2.23	0.62
42:L5:140:ARG:NH2	36:5:1080:A:OP2	228.65	0.62
36:5:1596:C:H2'	36:5:1597:C:H6	1.64	0.62
36:5:3306:U:O2'	36:5:3308:C:OP2	2.10	0.62
21:C9:30:VAL:O	21:C9:32:GLY:N	2.33	0.62
27:D5:43:ASP:O	27:D5:45:GLU:N	2.35	0.62
57:N1:12:ARG:HD2	57:N1:13:TYR:CE1	2.35	0.62
59:N3:87:ARG:HH12	59:N3:137:VAL:CG1	3.67	0.62
63:N7:88:ASP:HB3	63:N7:121:ARG:HH22	1.65	0.62
2:S0:79:ARG:NH1	2:S0:164:ASN:O	3.30	0.62
1:2:931:C:O2'	3:S1:118:GLN:O	2.16	0.62
4:S2:103:VAL:HG22	4:S2:113:LEU:HD23	1.82	0.62
8:S6:72:ARG:HG2	8:S6:98:ARG:HA	1.82	0.62
34:SR:255:ALA:H	34:SR:292:LEU:HD11	4.09	0.62
36:1:3115:C:O2'	36:1:3117:C:N4	2.30	0.62
36:1:3148:U:O4	85:1:3646:OHX:N2	2.33	0.62
36:1:3134:A:OP1	85:1:3437:OHX:N4	2.33	0.62
1:2:1509:C:H2'	1:2:1510:U:O4'	2.00	0.62
53:M7:69:ARG:NH1	36:5:3308:C:N3	189.89	0.62
64:N8:2:PRO:HD2	36:5:792:G:H5''	137.72	0.62
13:C1:83:THR:HG21	1:6:325:G:H4'	289.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:13:VAL:HG13	16:C4:77:THR:H	1.65	0.62
24:D2:25:VAL:HG22	24:D2:65:LEU:HD21	4.44	0.62
26:D4:88:THR:OG1	26:D4:88:THR:O	3.24	0.62
14:C2:50:LYS:HG3	33:E1:129:GLY:HA2	3.47	0.62
37:3:27:A:OP2	42:L5:57:ASN:HB2	2.00	0.62
47:M0:3:ARG:NH2	36:5:2854:U:OP2	290.21	0.62
57:N1:14:MET:HE1	57:N1:55:LYS:HB2	2.93	0.62
2:S0:163:ASN:O	2:S0:165:ARG:N	2.88	0.62
3:S1:183:GLN:N	3:S1:183:GLN:OE1	5.37	0.62
6:S4:141:THR:O	6:S4:144:GLY:N	2.33	0.62
36:1:263:C:H2'	36:1:264:G:O4'	2.00	0.61
36:1:3258:U:O2'	36:1:3260:G:OP1	2.12	0.61
36:1:356:C:OP2	85:1:3680:OHX:N1	2.33	0.61
36:5:1317:A:OP1	85:5:3601:OHX:N1	2.32	0.61
36:5:1709:C:H42	36:5:1735:G:H1	1.48	0.61
42:L5:12:TYR:OH	36:5:2688:U:OP1	299.78	0.61
36:5:3377:G:O6	85:5:3592:OHX:N1	2.33	0.61
36:5:656:A:H2'	36:5:657:A:C8	2.35	0.61
18:C6:49:TYR:HB3	18:C6:53:LEU:HD11	1.80	0.61
21:C9:37:VAL:HG22	21:C9:38:LYS:H	1.65	0.61
25:D3:12:ALA:O	25:D3:16:ARG:HG3	2.00	0.61
26:D4:109:LYS:O	26:D4:112:LYS:N	3.10	0.61
39:L2:29:LEU:O	39:L2:123:ARG:NE	2.46	0.61
39:L2:193:ARG:NH1	36:5:2174:G:OP2	190.70	0.61
40:L3:284:ARG:HH22	40:L3:296:THR:HG23	1.64	0.61
49:M3:42:ARG:O	49:M3:46:ILE:HG12	4.38	0.61
53:M7:53:ASP:O	85:M7:202:OHX:N3	2.33	0.61
56:N0:87:THR:O	56:N0:88:HIS:ND1	2.32	0.61
67:O1:49:VAL:HG22	67:O1:91:SER:HB2	1.80	0.61
69:O3:60:ARG:O	69:O3:62:SER:N	3.44	0.61
45:L8:230:LYS:NZ	72:O6:47:ILE:O	2.29	0.61
9:S7:122:HIS:HA	9:S7:125:ILE:HD12	2.23	0.61
34:SR:19:TRP:HB2	34:SR:38:ARG:HG3	2.25	0.61
36:1:2897:A:H2'	36:1:2899:C:H5''	1.82	0.61
36:1:685:G:OP2	49:M3:35:ARG:NH1	2.34	0.61
1:2:304:U:H2'	1:2:305:C:H6	1.65	0.61
38:4:91:C:H2'	38:4:92:A:C8	2.33	0.61
36:5:1378:U:OP1	85:5:3531:OHX:N3	2.33	0.61
36:5:1192:C:H5	85:5:3595:OHX:N4	1.98	0.61
1:6:140:A:N6	1:6:281:G:OP1	2.33	0.61
10:S8:16:ALA:HB2	1:6:354:C:H5''	298.12	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C2:87:PRO:HA	14:C2:140:PHE:HE1	1.86	0.61
21:C9:86:ARG:HB2	21:C9:89:ARG:HB2	2.19	0.61
28:D6:87:ARG:NH2	28:D6:91:ASP:O	2.89	0.61
40:L3:47:LEU:HG	40:L3:335:ILE:HD11	1.81	0.61
40:L3:57:VAL:HG23	40:L3:358:TRP:HE3	1.65	0.61
41:L4:217:LYS:NZ	36:5:210:U:O2	66.62	0.61
49:M3:5:LYS:HB2	49:M3:7:LEU:HG	1.81	0.61
51:M5:49:ARG:HA	51:M5:53:TYR:HB3	1.81	0.61
53:M7:10:ASN:HD22	53:M7:13:LYS:HG3	1.65	0.61
41:L4:300:ARG:O	54:M8:39:ARG:NH1	2.33	0.61
71:O5:93:THR:O	71:O5:96:GLU:N	2.97	0.61
2:S0:185:ARG:HB2	23:D1:45:ALA:HB3	1.82	0.61
3:S1:116:LYS:HB3	3:S1:117:TRP:HE3	1.64	0.61
36:1:2913:C:H2'	36:1:2914:G:H8	1.65	0.61
85:1:3475:OHX:N3	85:1:3737:OHX:N6	2.48	0.61
1:2:332:U:OP2	10:S8:56:ARG:NH2	2.32	0.61
54:M8:38:ARG:HH21	36:5:1347:U:H3'	189.81	0.61
36:5:3163:A:H61	36:5:3287:U:H3	1.48	0.61
1:6:1665:U:O4	85:6:1978:OHX:N6	2.34	0.61
13:C1:37:ASN:O	1:6:247:A:O2'	318.87	0.61
17:C5:85:ILE:HA	17:C5:89:MET:SD	2.40	0.61
22:D0:37:VAL:HG11	22:D0:112:VAL:HG11	4.21	0.61
26:D4:47:VAL:HG23	26:D4:48:TYR:HD2	1.64	0.61
27:D5:54:VAL:HA	27:D5:57:TYR:CE1	2.83	0.61
44:L7:186:HIS:O	44:L7:190:THR:HG23	2.20	0.61
62:N6:3:LYS:HG3	62:N6:8:VAL:HG13	1.81	0.61
45:L8:26:LEU:HD22	63:N7:66:THR:HG21	1.82	0.61
45:L8:172:LYS:HD3	72:O6:43:LEU:HD23	1.81	0.61
74:O8:4:GLU:HG2	74:O8:5:ILE:H	1.65	0.61
8:S6:9:VAL:HG22	60:N4:76:VAL:HG13	1.82	0.61
36:1:1592:G:OP2	70:O4:37:LYS:NZ	2.24	0.61
36:1:2208:A:N1	85:1:3581:OHX:N2	2.48	0.61
36:1:2683:U:H2'	36:1:2684:C:H6	1.63	0.61
36:1:3276:G:H5'	43:L6:48:ARG:NH2	2.14	0.61
36:1:3344:A:H2	36:1:3361:G:H21	1.45	0.61
36:5:1062:A:H5''	36:5:1063:G:H5'	1.82	0.61
55:M9:42:ARG:NH2	36:5:1601:U:OP2	105.18	0.61
36:5:3296:A:H2'	36:5:3297:U:H6	1.66	0.61
1:6:1239:U:O4	85:6:1951:OHX:N2	2.34	0.61
21:C9:86:ARG:NH2	1:6:1601:G:OP1	378.67	0.61
15:C3:33:VAL:HG11	15:C3:66:ILE:HD11	3.93	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:117:LYS:HE2	20:C8:128:PHE:HB2	2.21	0.61
23:D1:17:CYS:SG	23:D1:56:SER:N	2.72	0.61
40:L3:81:THR:OG1	40:L3:81:THR:O	3.91	0.61
41:L4:361:HIS:O	56:N0:28:ARG:NH2	2.81	0.61
42:L5:205:SER:HB3	42:L5:236:LEU:HD23	3.89	0.61
48:M1:108:GLU:HG2	48:M1:122:ILE:HG21	1.95	0.61
51:M5:136:ASP:OD2	51:M5:138:GLN:HG2	2.44	0.61
52:M6:49:ARG:NH1	36:5:1193:A:OP2	280.91	0.61
62:N6:88:GLU:HA	62:N6:94:SER:HA	1.82	0.61
73:O7:21:ARG:NH2	73:O7:41:ALA:O	2.21	0.61
4:S2:205:ARG:NH2	1:6:7:G:N7	369.51	0.61
36:1:438:A:HO2'	36:1:495:G:HO2'	1.47	0.61
36:5:1743:G:O6	85:5:3604:OHX:N1	2.33	0.61
36:5:2264:U:OP2	85:5:3458:OHX:N4	2.33	0.61
36:5:3113:A:OP2	85:5:3513:OHX:N4	2.34	0.61
21:C9:30:VAL:HG12	21:C9:54:PHE:HD2	1.65	0.61
53:M7:59:PRO:HG3	53:M7:76:PHE:CD1	2.63	0.61
44:L7:73:GLY:O	57:N1:143:THR:HB	3.01	0.61
36:1:2916:U:H1'	59:N3:44:SER:HB3	1.82	0.61
61:N5:105:VAL:HG11	61:N5:126:LEU:HD13	1.80	0.61
67:O1:19:ARG:HD3	67:O1:35:GLU:HG3	2.38	0.61
72:O6:59:ASP:O	72:O6:63:ASN:ND2	4.62	0.61
79:Q3:18:TYR:H	36:5:2131:A:H61	227.16	0.61
2:S0:61:ALA:HA	2:S0:181:VAL:HG12	1.83	0.61
6:S4:160:VAL:HG13	6:S4:169:ILE:HG23	1.83	0.61
9:S7:78:THR:HA	9:S7:81:LEU:HB2	2.45	0.61
36:1:2984:C:H2'	36:1:2985:C:H6	1.64	0.61
36:1:3326:G:H2'	36:1:3327:G:H8	1.65	0.61
36:1:1055:A:N3	37:3:81:U:O2'	2.33	0.61
38:4:126:A:O2'	38:4:128:U:OP1	2.19	0.61
36:5:150:A:H2'	36:5:151:A:H5'	1.81	0.61
36:5:2254:U:H2'	36:5:2261:G:N2	2.16	0.61
40:L3:334:ARG:NH2	36:5:3304:U:O3'	213.08	0.61
36:5:528:U:H2'	36:5:529:A:C8	2.36	0.61
36:5:600:G:N2	36:5:603:A:OP2	2.34	0.61
1:6:66:U:O2'	1:6:67:A:H5''	2.00	0.61
37:7:3:U:H2'	37:7:4:U:H6	1.65	0.61
18:C6:133:GLY:HA3	18:C6:136:SER:HB3	1.82	0.61
20:C8:134:ARG:NH1	1:6:1559:A:N1	362.37	0.61
1:2:933:A:OP1	28:D6:70:LYS:NZ	2.33	0.61
39:L2:118:GLU:HG3	39:L2:126:LEU:HD11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:204:MET:HB3	39:L2:208:ASP:HB2	2.55	0.61
47:M0:89:VAL:HG22	47:M0:136:PHE:CE1	2.56	0.61
50:M4:24:LYS:HE2	50:M4:25:LYS:NZ	2.16	0.61
55:M9:134:HIS:CE1	55:M9:137:ALA:HB2	2.35	0.61
2:S0:148:ASP:OD1	2:S0:149:LEU:N	2.40	0.61
36:1:2593:A:H4'	36:1:2594:C:O5'	2.00	0.61
36:1:585:A:H5''	69:O3:70:LYS:HE2	1.82	0.61
1:2:138:A:OP2	1:2:1706:C:O2'	2.17	0.61
38:8:82:U:O2	38:8:87:G:H4'	2.01	0.61
14:C2:81:ASP:O	14:C2:83:GLU:N	3.10	0.61
15:C3:87:ASP:OD2	15:C3:88:LEU:N	2.33	0.61
22:D0:57:ARG:HG3	22:D0:89:ARG:CZ	2.30	0.61
42:L5:105:ILE:O	42:L5:109:THR:HG23	2.00	0.61
46:L9:113:GLU:OE1	46:L9:115:ARG:NE	3.22	0.61
54:M8:165:ILE:HD12	54:M8:166:LEU:H	4.72	0.61
57:N1:127:GLN:HG3	36:5:1095:U:N3	260.96	0.61
62:N6:54:ASP:OD2	62:N6:115:ARG:NH2	2.96	0.61
9:S7:129:LEU:HD21	9:S7:172:VAL:HG11	1.82	0.61
1:2:118:U:OP1	10:S8:52:ASN:ND2	2.34	0.61
36:1:1307:G:OP1	52:M6:59:ARG:NH1	2.33	0.61
36:1:156:G:O2'	36:1:157:A:H4'	2.01	0.61
36:1:625:G:H2'	36:1:626:U:C6	2.36	0.61
1:2:357:G:OP2	85:2:1938:OHX:N6	2.33	0.61
1:2:480:G:N2	1:2:509:G:H1'	2.16	0.61
1:2:751:G:H2'	1:2:752:A:C8	2.34	0.61
36:5:591:G:N2	36:5:612:U:OP1	2.33	0.61
18:C6:99:GLU:O	18:C6:102:LYS:N	3.33	0.61
40:L3:277:SER:HB2	40:L3:329:PRO:HG3	1.82	0.61
52:M6:121:PRO:HD2	56:N0:162:THR:O	2.67	0.61
36:1:1655:G:H5''	70:O4:58:ARG:HH12	1.65	0.61
34:SR:123:ILE:HG21	34:SR:169:ILE:HG21	2.94	0.61
34:SR:37:SER:OG	34:SR:38:ARG:N	2.72	0.61
36:5:22:G:H1'	38:8:104:A:N3	2.16	0.61
36:5:2234:G:O6	85:5:3464:OHX:N1	2.34	0.61
1:6:639:U:H1'	1:6:640:U:C5	2.36	0.61
15:C3:22:ALA:HB1	15:C3:23:PRO:HA	1.93	0.61
39:L2:70:ARG:NH2	36:5:2522:G:O6	176.40	0.61
40:L3:204:ALA:O	40:L3:207:SER:OG	2.15	0.61
42:L5:84:PRO:O	42:L5:86:TYR:N	2.33	0.61
49:M3:171:ARG:O	49:M3:174:ARG:HB3	2.00	0.61
51:M5:23:GLN:HG2	51:M5:122:ASN:ND2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:61:LYS:HB3	78:Q2:61:LYS:NZ	2.15	0.61
5:S3:42:THR:OG1	5:S3:44:THR:O	5.53	0.61
7:S5:57:SER:HB2	30:D8:53:ILE:HB	2.93	0.61
36:1:900:G:H1'	36:1:1589:A:N6	2.14	0.61
36:1:2219:A:H2'	36:1:2220:A:C8	2.35	0.61
36:1:3057:U:H5'	36:1:3086:A:H61	1.65	0.61
36:1:624:G:OP2	85:1:3670:OHX:N3	2.33	0.61
1:2:1394:G:O6	85:2:1976:OHX:N6	2.34	0.61
1:2:1529:C:OP1	7:S5:112:ARG:NH1	2.28	0.61
1:2:283:U:H5''	8:S6:188:ARG:HD3	1.82	0.61
1:2:371:G:N1	1:2:613:G:O6	2.19	0.61
1:2:855:A:C2	1:2:857:U:H1'	2.35	0.61
38:4:95:G:OP2	73:O7:72:ARG:NH1	2.34	0.61
40:L3:128:LYS:NZ	36:5:3151:U:OP1	203.12	0.61
8:S6:13:GLN:HE22	1:6:151:G:H21	312.74	0.61
3:S1:214:LYS:NZ	1:6:886:U:OP1	287.79	0.61
1:2:1553:G:O6	17:C5:43:ARG:NH1	2.33	0.61
32:E0:50:VAL:HA	32:E0:54:ARG:HA	3.58	0.61
53:M7:30:ARG:HA	53:M7:119:VAL:HG11	2.63	0.61
44:L7:121:LYS:HB2	57:N1:133:ALA:HB3	1.81	0.61
58:N2:58:GLU:HB2	58:N2:63:VAL:HG13	5.44	0.61
63:N7:124:ALA:O	63:N7:126:LYS:N	2.37	0.61
68:O2:77:ALA:HB3	68:O2:81:ASP:OD2	3.27	0.61
74:O8:24:THR:HG23	74:O8:44:LYS:HB2	4.07	0.61
5:S3:68:GLU:OE2	12:C0:67:THR:OG1	4.83	0.61
36:1:2117:A:HO2'	36:1:3080:G:HO2'	1.49	0.60
1:2:800:U:H2'	1:2:801:G:H8	1.65	0.60
53:M7:69:ARG:NH2	36:5:2991:A:N3	194.53	0.60
36:5:3255:U:H2'	36:5:3256:G:C8	2.36	0.60
1:6:886:U:H2'	1:6:887:A:C8	2.34	0.60
37:7:3:U:H2'	37:7:4:U:C6	2.36	0.60
17:C5:24:LYS:O	17:C5:28:MET:HB2	2.01	0.60
39:L2:96:LEU:HD21	39:L2:107:VAL:HG12	2.67	0.60
41:L4:145:ILE:O	85:L4:401:OHX:N5	2.34	0.60
41:L4:337:GLU:O	41:L4:339:LEU:N	2.31	0.60
46:L9:22:SER:OG	46:L9:23:ARG:N	2.34	0.60
53:M7:25:SER:O	53:M7:29:THR:HG23	2.08	0.60
63:N7:22:LYS:NZ	63:N7:132:SER:O	2.30	0.60
70:O4:29:ILE:HD11	70:O4:31:ARG:HH21	1.65	0.60
74:O8:44:LYS:HG2	74:O8:53:THR:HB	1.93	0.60
4:S2:41:LEU:HD12	4:S2:68:ILE:HD13	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:84:LYS:NZ	1:6:1613:U:OP2	366.80	0.60
36:1:1331:U:OP1	85:1:3401:OHX:N6	2.35	0.60
36:1:2885:C:N4	36:1:2886:U:O4	2.33	0.60
1:2:1370:U:O2'	1:2:1371:A:OP2	2.16	0.60
36:5:2850:G:HO2'	36:5:2851:A:H8	1.49	0.60
8:S6:160:ARG:NH2	1:6:68:A:OP1	345.79	0.60
1:6:75:U:O2'	1:6:76:A:O5'	2.17	0.60
13:C1:91:LEU:HD22	13:C1:100:TYR:HB3	3.17	0.60
16:C4:21:ALA:HA	16:C4:26:THR:HG22	1.82	0.60
18:C6:48:VAL:HG21	18:C6:81:ILE:HG13	1.83	0.60
42:L5:61:ILE:HG23	42:L5:79:TYR:CE1	2.77	0.60
65:N9:8:THR:OG1	65:N9:9:ALA:N	3.20	0.60
79:Q3:28:LYS:HG2	79:Q3:29:LEU:HD23	1.84	0.60
1:2:920:U:OP1	3:S1:85:LYS:NZ	2.34	0.60
6:S4:141:THR:OG1	6:S4:145:ARG:HB2	2.28	0.60
36:1:2209:U:O2'	36:1:2210:G:OP1	2.18	0.60
36:1:2898:G:H5''	36:1:2899:C:H5'	1.82	0.60
36:1:664:U:H2'	36:1:665:A:C8	2.35	0.60
85:2:1909:OHX:N3	85:2:2025:OHX:N1	2.48	0.60
21:C9:68:ARG:NH1	1:6:1521:G:O6	414.15	0.60
1:6:1023:A:N7	85:6:1934:OHX:N6	2.49	0.60
1:6:542:A:C8	1:6:543:C:H2'	2.36	0.60
1:6:871:G:H2'	1:6:872:G:C8	2.36	0.60
27:D5:96:SER:O	27:D5:98:GLN:N	2.34	0.60
40:L3:116:ARG:NH2	40:L3:174:LYS:HD3	2.16	0.60
36:1:684:G:OP2	49:M3:28:GLN:NE2	2.34	0.60
57:N1:83:ARG:NH2	57:N1:85:LEU:HD11	2.16	0.60
64:N8:21:ARG:NH1	36:5:1369:A:OP1	183.09	0.60
54:M8:178:ARG:HE	64:N8:50:PRO:HG2	1.66	0.60
64:N8:59:ARG:NH1	36:5:90:C:OP1	151.85	0.60
69:O3:89:LEU:HD22	69:O3:90:PRO:HD3	1.83	0.60
3:S1:125:VAL:HG11	3:S1:173:THR:HG22	3.01	0.60
34:SR:260:ILE:HB	34:SR:274:LEU:HB2	1.89	0.60
36:1:2513:U:HO2'	36:1:2592:G:H1	1.47	0.60
36:1:1387:G:OP1	85:1:3695:OHX:N6	2.35	0.60
36:1:603:A:H2'	36:1:604:G:O4'	2.00	0.60
1:2:1537:C:N3	85:2:2033:OHX:N3	2.49	0.60
1:2:639:U:OP1	9:S7:117:THR:OG1	2.12	0.60
1:2:895:G:H1	1:2:917:U:H3	1.48	0.60
38:4:124:G:H3'	38:4:125:U:C5'	2.31	0.60
36:5:2537:U:O2'	36:5:2538:U:O4'	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:156:LEU:HD13	36:5:3243:A:C8	264.25	0.60
36:5:32:U:H2'	36:5:33:G:C8	2.36	0.60
1:6:1130:G:OP2	85:6:1967:OHX:N1	2.35	0.60
1:6:837:G:H2'	1:6:838:G:C8	2.36	0.60
16:C4:125:SER:HB2	1:6:926:A:H2	281.44	0.60
23:D1:40:ASP:HB3	23:D1:46:ILE:HD11	1.84	0.60
41:L4:174:ALA:O	41:L4:178:LEU:HB2	3.23	0.60
41:L4:20:LEU:HD13	41:L4:256:THR:HG23	2.57	0.60
41:L4:74:ILE:HG12	41:L4:94:CYS:SG	3.48	0.60
54:M8:40:THR:C	54:M8:42:ALA:H	2.04	0.60
56:N0:1:MET:HE1	56:N0:31:ALA:HA	1.82	0.60
10:S8:172:ARG:HE	10:S8:175:GLN:HE21	1.50	0.60
11:S9:171:ARG:HE	11:S9:174:ARG:HB2	5.12	0.60
85:1:3475:OHX:N1	85:1:3737:OHX:N4	2.49	0.60
1:2:1241:G:OP1	17:C5:77:ARG:NH2	2.30	0.60
36:5:372:A:H2'	36:5:373:A:C8	2.36	0.60
15:C3:124:ARG:NH2	1:6:967:A:OP2	319.74	0.60
56:N0:50:LYS:NZ	37:7:76:A:N3	299.58	0.60
29:D7:2:VAL:O	29:D7:3:LEU:HB2	2.19	0.60
41:L4:25:VAL:HG22	41:L4:262:TRP:HB2	1.83	0.60
41:L4:294:GLU:N	41:L4:294:GLU:OE1	2.32	0.60
42:L5:294:ALA:HB1	47:M0:217:PHE:HB3	1.82	0.60
46:L9:111:PHE:HD1	46:L9:127:PRO:HA	2.17	0.60
51:M5:31:ARG:NH1	51:M5:124:ASP:OD1	2.48	0.60
61:N5:132:ALA:HA	61:N5:135:ILE:HG22	2.76	0.60
62:N6:17:LYS:HD3	62:N6:21:THR:HG21	1.83	0.60
63:N7:76:ASN:OD1	63:N7:77:TYR:N	2.35	0.60
64:N8:46:ASP:OD1	64:N8:46:ASP:N	2.32	0.60
65:N9:59:LYS:H	65:N9:59:LYS:HD3	1.66	0.60
68:O2:109:LEU:HD21	68:O2:119:VAL:HG11	1.83	0.60
7:S5:92:ARG:HG2	7:S5:92:ARG:HH11	2.95	0.60
11:S9:65:LYS:HA	11:S9:70:LEU:HD21	1.84	0.60
36:1:1095:U:O2	57:N1:129:LYS:N	2.33	0.60
36:1:1599:G:H1	36:1:1608:C:H42	1.47	0.60
36:5:1025:A:H3'	36:5:1026:A:H4'	1.84	0.60
36:5:2761:G:H1'	36:5:2800:G:H21	1.66	0.60
35:SM:68:ARG:NH2	1:6:1460:A:OP2	332.45	0.60
1:6:1716:C:O2'	1:6:1717:G:H5''	2.01	0.60
13:C1:39:GLY:HA3	1:6:246:G:H21	325.42	0.60
1:6:869:A:H2'	1:6:870:C:O4'	2.01	0.60
16:C4:25:ASP:N	16:C4:55:SER:HB3	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:104:ASN:O	19:C7:107:SER:OG	2.13	0.60
39:L2:97:ASN:N	39:L2:97:ASN:OD1	2.35	0.60
40:L3:115:LYS:NZ	40:L3:129:ALA:O	2.34	0.60
40:L3:296:THR:HG22	40:L3:297:SER:N	2.98	0.60
41:L4:265:GLU:N	41:L4:265:GLU:OE1	2.34	0.60
41:L4:82:THR:HG23	41:L4:84:ARG:N	3.12	0.60
63:N7:26:VAL:HG21	63:N7:96:VAL:HB	1.82	0.60
79:Q3:49:ARG:HB2	79:Q3:55:TRP:CZ3	2.61	0.60
2:S0:119:ARG:HE	4:S2:240:LEU:HD23	2.58	0.60
8:S6:176:GLN:HG3	8:S6:177:ARG:H	1.88	0.60
36:1:1256:G:O6	36:1:1261:G:N2	2.35	0.60
36:1:383:G:N2	36:1:386:A:OP2	2.34	0.60
36:1:920:A:OP1	36:1:923:C:N4	2.34	0.60
1:2:463:U:H2'	1:2:464:A:C8	2.37	0.60
38:4:155:A:OP1	45:L8:185:ARG:NH2	2.34	0.60
36:5:1355:A:H1'	36:5:1356:U:OP2	2.01	0.60
36:5:3057:U:H5'	36:5:3086:A:H61	1.66	0.60
1:6:973:A:H2'	1:6:974:A:C8	2.36	0.60
18:C6:42:GLU:HA	18:C6:45:ARG:HB2	1.82	0.60
20:C8:5:VAL:O	20:C8:6:GLN:NE2	2.35	0.60
39:L2:59:ALA:O	39:L2:76:PHE:N	2.80	0.60
40:L3:212:ASN:OD1	40:L3:354:VAL:N	2.35	0.60
49:M3:44:ALA:O	49:M3:46:ILE:N	3.38	0.60
51:M5:150:TRP:CZ2	51:M5:151:ILE:HG12	2.37	0.60
52:M6:171:LYS:O	52:M6:175:THR:HG22	4.82	0.60
59:N3:80:ARG:HB2	59:N3:99:ALA:HB3	1.83	0.60
60:N4:52:THR:O	60:N4:56:ARG:HG3	2.01	0.60
64:N8:125:VAL:O	64:N8:146:GLU:N	2.29	0.60
69:O3:75:HIS:HB3	69:O3:80:VAL:HB	1.84	0.60
3:S1:28:GLU:OE2	3:S1:94:LYS:NZ	2.35	0.60
4:S2:144:TRP:CE2	4:S2:173:PRO:HG3	2.37	0.60
7:S5:29:ILE:O	7:S5:34:GLN:NE2	2.35	0.60
34:SR:26:SER:OG	34:SR:75:ALA:O	2.19	0.60
36:1:3096:C:H2'	36:1:3097:C:C6	2.36	0.60
85:1:3483:OHX:N1	85:1:3656:OHX:N4	2.50	0.60
1:2:539:G:OP2	1:2:539:G:H8	1.85	0.60
1:2:538:A:H5'	1:2:543:C:H42	1.67	0.60
36:5:1750:A:H4'	36:5:1751:G:H5'	1.83	0.60
36:5:299:G:N7	85:5:3693:OHX:N1	2.50	0.60
36:5:393:U:OP2	85:5:3454:OHX:N4	2.35	0.60
85:5:3611:OHX:N5	38:8:139:U:O4	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:411:U:O4	85:5:3606:OHX:N1	2.34	0.60
1:6:899:G:H2'	1:6:900:A:H8	1.66	0.60
42:L5:270:LYS:HB3	37:7:1:G:O2'	322.21	0.60
24:D2:104:LEU:HB2	24:D2:124:LYS:O	2.02	0.60
30:D8:15:VAL:HA	30:D8:28:VAL:HA	3.79	0.60
39:L2:201:GLY:HA2	39:L2:204:MET:SD	2.72	0.60
40:L3:95:THR:O	40:L3:98:GLY:N	2.24	0.60
41:L4:203:ARG:NH1	41:L4:226:GLU:OE2	2.59	0.60
51:M5:68:ARG:HG3	36:5:291:C:OP1	145.49	0.60
56:N0:8:GLN:HB2	56:N0:64:ILE:HD11	1.83	0.60
73:O7:58:THR:O	73:O7:61:THR:HG23	2.02	0.60
73:O7:71:SER:OG	73:O7:72:ARG:N	2.35	0.60
5:S3:179:GLN:OE1	5:S3:180:GLY:N	4.52	0.60
7:S5:64:VAL:HG22	7:S5:89:ILE:HD11	2.45	0.60
1:2:1202:A:H1'	1:2:1207:C:H42	1.67	0.60
1:2:1456:C:H5''	1:2:1457:C:H5''	1.82	0.60
1:2:1606:C:H2'	1:2:1607:G:C8	2.37	0.60
1:2:802:G:H21	24:D2:107:SER:HB3	1.66	0.60
38:4:151:C:C4	61:N5:24:LEU:HD11	2.37	0.60
24:D2:36:LYS:NZ	24:D2:39:GLN:OE1	2.34	0.60
36:1:2522:G:O6	39:L2:70:ARG:NH2	2.34	0.60
47:M0:115:MET:O	47:M0:115:MET:HG3	1.99	0.60
47:M0:54:SER:HB2	47:M0:135:ILE:HD11	2.57	0.60
49:M3:36:ARG:C	49:M3:38:ALA:H	3.28	0.60
56:N0:132:THR:OG1	56:N0:133:ALA:N	2.35	0.60
70:O4:99:LYS:O	70:O4:103:LYS:HG2	5.02	0.60
71:O5:13:SER:N	71:O5:16:GLN:OE1	3.32	0.60
4:S2:38:VAL:HG22	4:S2:39:THR:H	1.67	0.60
35:SM:35:ALA:O	35:SM:37:VAL:N	3.65	0.60
34:SR:169:ILE:HG13	34:SR:181:TRP:HB2	1.84	0.60
36:1:1071:U:O2'	36:1:1072:G:OP2	2.19	0.60
36:1:1230:G:H1	36:1:1279:C:N4	2.00	0.60
36:1:211:A:OP1	41:L4:220:ARG:HD2	2.02	0.60
36:1:2233:A:H2'	36:1:2234:G:O4'	2.02	0.60
1:2:1748:G:O6	85:2:1983:OHX:N4	2.35	0.60
1:2:856:A:H1'	9:S7:64:VAL:HG11	1.83	0.60
36:5:1534:A:OP1	85:5:3425:OHX:N1	2.35	0.60
36:5:1856:C:H2'	36:5:1857:C:C6	2.37	0.60
51:M5:69:GLY:O	36:5:290:G:H4'	145.30	0.60
85:5:3524:OHX:N6	85:5:3721:OHX:N2	2.50	0.60
19:C7:2:GLY:N	1:6:1311:U:O3'	392.20	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:194:U:O2	1:6:195:G:O2'	2.17	0.60
20:C8:130:GLY:O	20:C8:145:ARG:NH1	2.34	0.60
21:C9:76:LEU:HD22	21:C9:80:TYR:CE2	2.37	0.60
1:2:1037:C:O2	24:D2:16:ASN:ND2	2.35	0.60
28:D6:75:VAL:O	28:D6:79:ILE:N	2.34	0.60
39:L2:207:VAL:HG11	36:5:916:G:O6	185.61	0.60
46:L9:171:ASP:OD1	46:L9:173:ARG:HD3	2.02	0.60
47:M0:174:THR:OG1	47:M0:175:ASN:O	5.59	0.60
49:M3:36:ARG:NH1	36:5:686:G:OP2	74.77	0.60
62:N6:71:SER:OG	62:N6:72:SER:N	2.35	0.60
4:S2:80:VAL:HA	4:S2:102:VAL:HG22	1.84	0.60
5:S3:109:LEU:HD21	5:S3:115:ILE:HA	1.83	0.60
5:S3:115:ILE:HD12	5:S3:116:ARG:H	4.65	0.60
6:S4:146:THR:HG21	1:6:123:G:H21	341.31	0.60
8:S6:131:LYS:O	8:S6:133:LEU:N	2.35	0.60
36:1:2946:A:H5''	36:1:2947:G:H5'	1.83	0.59
1:2:1466:G:O2'	1:2:1602:C:OP1	2.20	0.59
1:2:61:A:H8	1:2:269:G:HO2'	1.50	0.59
1:2:896:U:O4'	16:C4:38:THR:HG21	2.02	0.59
1:2:47:A:N7	1:2:98:U:O2'	2.35	0.59
36:5:3057:U:O2'	36:5:3059:G:OP1	2.19	0.59
36:5:655:C:H2'	36:5:656:A:H8	1.67	0.59
64:N8:34:MET:HB2	36:5:95:A:H5''	162.79	0.59
34:SR:102:ARG:NH2	1:6:1341:A:O2'	458.75	0.59
1:6:1783:C:H2'	1:6:1784:C:H6	1.66	0.59
11:S9:65:LYS:HE3	1:6:650:U:H5'	420.53	0.59
18:C6:37:THR:O	18:C6:37:THR:OG1	3.54	0.59
22:D0:53:LYS:HB2	22:D0:92:ASP:HB2	2.34	0.59
39:L2:174:ARG:NH2	36:5:2179:C:O3'	213.35	0.59
47:M0:4:ARG:NH2	47:M0:99:ILE:HG22	5.98	0.59
52:M6:62:THR:HG22	52:M6:65:ASN:H	1.67	0.59
59:N3:86:ARG:HD2	59:N3:92:PHE:CZ	2.37	0.59
67:O1:54:GLU:N	67:O1:54:GLU:OE2	2.33	0.59
74:O8:32:ASN:O	74:O8:32:ASN:ND2	2.35	0.59
6:S4:66:MET:HG3	1:6:454:U:C2	375.25	0.59
8:S6:137:ARG:NH1	1:6:144:U:H5	311.83	0.59
10:S8:32:GLN:HG3	10:S8:33:PRO:HD2	4.34	0.59
36:1:2273:G:O6	85:1:3677:OHX:N5	2.35	0.59
1:2:1335:U:H2'	1:2:1336:A:C8	2.37	0.59
1:2:122:U:O4	85:2:1927:OHX:N3	2.35	0.59
18:C6:66:ARG:NH1	1:6:1351:G:OP1	435.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:157:LYS:NZ	24:D2:92:ASN:O	2.93	0.59
33:E1:144:CYS:O	33:E1:146:SER:N	2.55	0.59
39:L2:13:GLY:O	39:L2:15:ILE:N	5.00	0.59
48:M1:16:LYS:HB2	48:M1:72:ARG:HG2	1.84	0.59
49:M3:113:VAL:HA	49:M3:116:LEU:HD12	1.84	0.59
57:N1:68:THR:OG1	57:N1:69:LYS:N	2.34	0.59
59:N3:23:MET:HB2	59:N3:98:ASN:O	2.02	0.59
70:O4:3:GLN:HB3	70:O4:30:LEU:HD12	1.84	0.59
36:1:1010:G:N2	47:M0:193:ASP:OD2	2.35	0.59
36:1:160:G:O6	85:1:3734:OHX:N6	2.35	0.59
1:2:346:G:O6	85:2:2004:OHX:N5	2.35	0.59
85:5:3524:OHX:N5	85:5:3721:OHX:N1	2.50	0.59
1:6:1160:A:H2'	1:6:1161:C:C6	2.38	0.59
10:S8:31:ARG:NH2	1:6:333:A:OP1	297.75	0.59
39:L2:132:ASN:OD1	39:L2:132:ASN:N	2.33	0.59
39:L2:204:MET:HB2	39:L2:208:ASP:HB2	1.84	0.59
41:L4:200:THR:OG1	41:L4:201:GLN:N	2.32	0.59
41:L4:20:LEU:HD11	41:L4:252:GLU:HG2	1.84	0.59
52:M6:12:LYS:HG3	52:M6:40:GLU:HB3	2.24	0.59
62:N6:125:LYS:O	62:N6:126:LEU:HG	2.01	0.59
3:S1:70:LEU:HB3	3:S1:79:HIS:HB3	5.14	0.59
3:S1:70:LEU:O	3:S1:74:GLN:N	2.25	0.59
6:S4:179:LYS:N	6:S4:194:THR:O	2.35	0.59
36:1:1231:A:OP2	85:1:3621:OHX:N6	2.36	0.59
1:2:1711:C:H2'	1:2:1712:A:H5''	1.83	0.59
1:2:348:U:O4	85:2:2006:OHX:N5	2.35	0.59
38:4:127:U:H2'	38:4:128:U:H5'	1.85	0.59
36:5:182:U:H2'	36:5:183:G:C8	2.38	0.59
36:5:2274:U:OP2	85:5:3487:OHX:N6	2.35	0.59
36:5:549:U:H2'	36:5:550:A:C8	2.37	0.59
20:C8:14:ILE:HD11	20:C8:21:ASN:HB3	6.08	0.59
13:C1:99:ARG:NH1	25:D3:8:GLY:O	2.34	0.59
39:L2:117:GLU:CD	39:L2:121:GLY:H	2.05	0.59
41:L4:330:TYR:CE1	44:L7:49:ALA:HA	2.37	0.59
44:L7:88:ARG:HB3	44:L7:108:LEU:HB3	2.59	0.59
35:SM:26:VAL:HG11	48:M1:49:LYS:HE3	2.18	0.59
51:M5:35:VAL:HG13	51:M5:65:ARG:HB2	1.82	0.59
54:M8:54:LEU:HB3	54:M8:58:ASN:HB2	1.83	0.59
46:L9:4:ILE:HG21	56:N0:143:PHE:CE1	3.98	0.59
64:N8:47:LYS:HE3	64:N8:48:TYR:CZ	2.37	0.59
70:O4:72:VAL:HG12	36:5:1640:G:OP2	189.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:O7:64:MET:O	73:O7:68:LYS:HB3	4.50	0.59
4:S2:90:THR:C	4:S2:92:ALA:H	2.06	0.59
36:1:1468:A:N6	36:1:1508:C:O2	2.35	0.59
36:1:1650:G:O6	85:1:3676:OHX:N2	2.36	0.59
36:1:1856:C:H2'	36:1:1857:C:H6	1.67	0.59
36:1:3033:A:H2'	36:1:3034:C:H6	1.65	0.59
36:1:1544:G:O6	85:1:3594:OHX:N4	2.36	0.59
85:1:3483:OHX:N3	85:1:3656:OHX:N4	2.50	0.59
36:1:501:A:H61	36:1:612:U:H3	1.49	0.59
36:1:718:G:C2	36:1:721:G:H1'	2.37	0.59
1:2:158:U:O2'	1:2:160:C:OP2	2.16	0.59
1:2:531:C:H2'	1:2:532:U:H5''	1.83	0.59
36:5:1841:A:O2'	36:5:1842:A:H5''	2.02	0.59
36:5:314:U:H2'	36:5:315:C:C6	2.38	0.59
1:6:1699:G:H2'	1:6:1700:C:H5'	1.85	0.59
25:D3:20:ARG:NE	1:6:311:U:OP2	324.50	0.59
20:C8:99:HIS:CD2	20:C8:101:LEU:HD21	2.37	0.59
22:D0:58:LEU:HD12	22:D0:88:LYS:HD2	1.98	0.59
1:2:687:G:H5'	24:D2:119:LYS:HG2	1.84	0.59
24:D2:5:SER:O	24:D2:7:LEU:N	3.20	0.59
25:D3:38:PHE:CZ	1:6:359:A:H1'	332.53	0.59
28:D6:7:SER:O	28:D6:9:GLY:N	3.16	0.59
40:L3:205:VAL:C	40:L3:207:SER:H	2.23	0.59
40:L3:227:GLU:HB2	40:L3:270:ARG:HB3	2.42	0.59
53:M7:127:ARG:HB3	53:M7:139:TYR:O	2.03	0.59
36:1:1764:U:H5''	55:M9:43:LYS:HE2	1.84	0.59
56:N0:23:LYS:HA	57:N1:146:ASN:HD21	3.11	0.59
58:N2:51:GLY:O	58:N2:52:ASN:ND2	2.22	0.59
64:N8:116:GLY:O	64:N8:137:LYS:NZ	5.02	0.59
78:Q2:12:CYS:SG	78:Q2:74:CYS:CB	3.24	0.59
8:S6:136:LYS:HG3	8:S6:173:PRO:HB3	2.28	0.59
10:S8:84:HIS:CE1	10:S8:86:SER:HB2	2.37	0.59
11:S9:151:ASP:OD1	11:S9:151:ASP:N	3.01	0.59
36:1:3174:A:H2'	36:1:3175:U:H5'	1.84	0.59
36:1:733:G:O6	85:1:3602:OHX:N2	2.36	0.59
1:2:635:A:H2'	1:2:636:A:C8	2.38	0.59
36:5:2101:C:O2'	36:5:2102:U:OP1	2.16	0.59
36:5:90:C:H2'	36:5:91:G:H5'	1.83	0.59
1:6:1202:A:OP1	85:6:1984:OHX:N2	2.36	0.59
15:C3:65:VAL:O	15:C3:67:THR:N	3.32	0.59
41:L4:140:HIS:CD2	41:L4:247:PHE:H	2.48	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:184:LYS:NZ	36:5:3111:U:OP1	337.08	0.59
48:M1:15:GLU:HG2	48:M1:16:LYS:HE2	1.84	0.59
53:M7:112:LEU:HA	53:M7:151:THR:O	2.39	0.59
55:M9:108:LYS:HA	55:M9:111:ASP:HB2	1.85	0.59
36:1:1321:G:O3'	56:N0:117:ARG:NH2	2.36	0.59
57:N1:105:PHE:O	57:N1:109:VAL:HG23	2.70	0.59
66:O0:40:LYS:HB3	66:O0:101:LEU:HD21	1.84	0.59
67:O1:13:THR:HG22	67:O1:72:ARG:HD3	1.84	0.59
69:O3:72:THR:HG23	69:O3:83:ALA:HA	1.84	0.59
72:O6:70:ARG:HD3	72:O6:84:LYS:HG2	2.78	0.59
76:Q0:106:ARG:HB2	76:Q0:106:ARG:HH11	3.81	0.59
2:S0:119:ARG:HB3	2:S0:119:ARG:NH1	2.17	0.59
4:S2:137:ILE:HG12	4:S2:138:PRO:HD2	1.85	0.59
11:S9:64:GLU:HA	11:S9:69:ARG:HD3	2.26	0.59
36:1:2503:G:H1'	36:1:2504:U:H5	1.67	0.59
36:1:2567:C:H2'	36:1:2568:C:H5'	1.85	0.59
36:1:409:A:OP2	85:1:3593:OHX:N5	2.36	0.59
36:1:863:C:OP1	85:1:3419:OHX:N6	2.35	0.59
1:2:1160:A:H2'	1:2:1161:C:C6	2.37	0.59
1:2:1291:G:O5'	1:2:1291:G:H8	1.85	0.59
1:2:1523:G:OP1	1:2:1523:G:H2'	2.02	0.59
37:3:79:A:C2	37:3:102:A:C4	2.91	0.59
1:6:800:U:H2'	1:6:801:G:H8	1.67	0.59
71:O5:49:LYS:NZ	38:8:61:A:OP1	52.74	0.59
13:C1:6:THR:OG1	13:C1:6:THR:O	3.90	0.59
18:C6:79:TYR:HA	18:C6:82:ARG:HD3	1.84	0.59
25:D3:27:ASN:OD1	25:D3:31:LYS:HE3	3.16	0.59
42:L5:54:ARG:NH2	42:L5:147:ASP:OD1	3.31	0.59
42:L5:107:ARG:NH2	42:L5:169:GLY:O	2.36	0.59
46:L9:43:VAL:HG22	46:L9:55:VAL:HG12	4.95	0.59
55:M9:148:ASP:OD1	55:M9:151:ARG:NH2	2.36	0.59
55:M9:76:SER:O	55:M9:81:ARG:NH1	2.36	0.59
75:O9:9:ILE:O	75:O9:13:MET:HG3	2.23	0.59
7:S5:146:THR:HG23	7:S5:157:ARG:HB3	3.95	0.59
8:S6:70:PRO:O	8:S6:98:ARG:NH1	2.36	0.59
36:1:1108:U:H2'	36:1:1109:U:C6	2.37	0.59
36:1:239:G:O6	85:1:3571:OHX:N3	2.35	0.59
36:1:2667:A:N6	36:1:2687:G:O2'	2.36	0.59
36:1:65:A:H3'	36:1:111:C:H41	1.67	0.59
36:5:1015:U:O2'	36:5:1017:C:OP1	2.19	0.59
42:L5:46:THR:HG21	36:5:1078:U:H4'	237.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:206:LYS:HB3	36:5:1334:U:H5''	236.67	0.59
85:5:3524:OHX:N5	85:5:3721:OHX:N2	2.51	0.59
24:D2:76:SER:OG	1:6:1102:G:OP1	352.44	0.59
1:6:340:U:H2'	1:6:341:A:C8	2.37	0.59
36:5:408:A:H61	38:8:15:G:H1'	1.67	0.59
17:C5:68:PRO:O	85:C5:201:OHX:N1	6.11	0.59
20:C8:56:LYS:HD3	20:C8:61:LEU:HD23	1.83	0.59
40:L3:116:ARG:HH22	40:L3:174:LYS:HD3	1.67	0.59
36:1:2948:C:O2'	40:L3:242:THR:HG22	2.02	0.59
41:L4:3:ARG:NH1	41:L4:27:SER:OG	2.36	0.59
43:L6:93:VAL:HG22	43:L6:96:VAL:HB	1.83	0.59
50:M4:70:PHE:HE2	50:M4:72:LEU:HD23	1.68	0.59
51:M5:79:ALA:HB1	51:M5:81:TYR:CE2	3.07	0.59
62:N6:37:LYS:HE2	62:N6:37:LYS:H	1.68	0.59
71:O5:85:THR:HB	71:O5:88:LEU:HB2	1.94	0.59
1:2:66:U:C5	8:S6:173:PRO:HG3	2.38	0.59
10:S8:6:ASP:OD1	10:S8:8:ARG:HB3	2.03	0.59
34:SR:272:ASP:OD1	34:SR:273:ASP:N	2.35	0.59
36:1:132:C:H2'	36:1:133:U:H5''	1.85	0.59
36:1:2623:G:H2'	36:1:2624:G:C8	2.38	0.59
36:1:3155:U:H3'	36:1:3156:U:H4'	1.85	0.59
36:1:873:C:H5''	36:1:874:U:O5'	2.03	0.59
36:5:240:U:O2'	36:5:241:G:H8	1.85	0.59
8:S6:179:VAL:HG21	1:6:140:A:H1'	328.29	0.59
13:C1:21:ASN:N	13:C1:21:ASN:OD1	2.78	0.59
25:D3:97:ASP:O	25:D3:100:ASP:HB2	2.47	0.59
41:L4:206:LEU:HD12	41:L4:248:VAL:HG22	1.85	0.59
37:3:27:A:P	42:L5:57:ASN:H	2.26	0.59
46:L9:151:VAL:O	46:L9:155:SER:OG	2.15	0.59
49:M3:68:LYS:HE2	36:5:699:A:OP1	97.06	0.59
52:M6:65:ASN:HB3	52:M6:68:ARG:HD3	2.46	0.59
55:M9:109:TYR:HB3	55:M9:115:ILE:HG12	4.67	0.59
72:O6:25:LYS:HB2	72:O6:28:TYR:CD2	2.36	0.59
36:1:1725:C:H5''	79:Q3:36:ARG:NH1	2.18	0.59
5:S3:22:ASN:O	5:S3:26:THR:OG1	2.78	0.59
11:S9:96:VAL:HA	11:S9:99:LEU:HD22	1.83	0.59
36:1:156:G:OP2	72:O6:25:LYS:HB3	2.03	0.59
1:2:1107:G:H3'	1:2:1108:G:H21	1.68	0.59
36:5:1348:U:H5''	36:5:1355:A:H61	1.67	0.59
36:5:246:U:H2'	36:5:247:C:H5''	1.85	0.59
36:5:116:A:H5''	36:5:265:A:C2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:48:ARG:NH2	36:5:3043:C:OP2	251.30	0.59
36:5:795:G:O6	85:5:3438:OHX:N6	2.36	0.59
60:N4:71:ARG:HH21	1:6:1714:A:P	250.29	0.59
1:6:328:A:H2'	1:6:329:G:C8	2.38	0.59
1:6:882:U:H2'	1:6:883:C:C6	2.38	0.59
1:6:973:A:H2'	1:6:974:A:H8	1.68	0.59
1:6:978:A:H2'	1:6:979:A:O4'	2.03	0.59
18:C6:90:VAL:HG21	18:C6:106:LYS:HG3	4.35	0.59
21:C9:132:LEU:O	21:C9:136:ALA:N	2.87	0.59
41:L4:70:ALA:HB2	36:5:2401:A:H5'	170.71	0.59
44:L7:202:LEU:HD12	44:L7:202:LEU:H	1.68	0.59
46:L9:90:MET:HG2	46:L9:181:VAL:HA	1.91	0.59
46:L9:47:LYS:HZ2	50:M4:5:SER:HB2	1.66	0.59
53:M7:78:VAL:HG22	53:M7:79:THR:H	4.19	0.59
60:N4:91:LYS:O	60:N4:95:SER:HB2	5.14	0.59
62:N6:35:LEU:HD11	62:N6:45:ILE:HG22	2.20	0.59
68:O2:103:LYS:O	68:O2:106:VAL:HG22	2.02	0.59
78:Q2:21:THR:HB	78:Q2:76:LYS:HD2	3.67	0.59
2:S0:105:GLY:N	2:S0:135:GLU:OE2	2.28	0.59
11:S9:149:ARG:NE	1:6:765:G:N7	428.77	0.59
36:1:2913:C:H2'	36:1:2914:G:C8	2.36	0.58
36:1:3268:A:O2'	36:1:3269:U:O2	2.21	0.58
36:1:509:U:O4	85:1:3544:OHX:N5	2.36	0.58
1:2:1453:G:H2'	1:2:1454:G:C8	2.38	0.58
36:5:1243:G:O6	36:5:1244:A:N6	2.35	0.58
36:5:247:C:C2	36:5:248:U:H1'	2.38	0.58
36:5:2659:G:O6	85:5:3410:OHX:N4	2.36	0.58
36:5:956:U:H2'	36:5:957:C:C6	2.38	0.58
13:C1:110:HIS:HD2	13:C1:138:ASN:HD21	2.39	0.58
26:D4:55:VAL:HG12	26:D4:75:VAL:HG13	7.62	0.58
39:L2:128:ARG:NH1	36:5:2177:G:OP2	197.54	0.58
41:L4:269:SER:C	41:L4:271:LYS:H	2.06	0.58
41:L4:304:GLN:O	41:L4:306:THR:N	2.32	0.58
36:1:1334:U:O2'	44:L7:151:ARG:NH2	2.36	0.58
59:N3:133:SER:O	85:6:1972:OHX:N3	296.00	0.58
36:1:964:G:HO2'	64:N8:41:HIS:HE2	1.43	0.58
78:Q2:38:GLN:O	78:Q2:38:GLN:NE2	2.69	0.58
3:S1:175:GLU:HG3	3:S1:193:ILE:HD12	1.84	0.58
6:S4:23:LEU:H	6:S4:23:LEU:HD22	1.98	0.58
35:SM:64:LYS:H	35:SM:64:LYS:HD3	1.68	0.58
36:1:3121:U:H1'	36:1:3122:A:H5''	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:13:U:OP2	61:N5:22:LYS:NZ	2.27	0.58
1:2:1459:C:OP2	20:C8:138:THR:OG1	2.19	0.58
1:2:1586:A:H2'	1:2:1587:A:O4'	2.02	0.58
1:2:383:G:N7	85:2:2009:OHX:N4	2.51	0.58
56:N0:84:ARG:HG3	36:5:1295:G:OP1	294.68	0.58
36:5:132:C:H2'	36:5:133:U:H5''	1.84	0.58
36:5:2344:U:H2'	36:5:2345:A:C8	2.38	0.58
36:5:2923:U:H2'	36:5:2924:U:C6	2.38	0.58
36:5:297:G:N2	36:5:297:G:OP2	2.36	0.58
36:5:3053:G:N7	85:5:3676:OHX:N3	2.51	0.58
1:6:1161:C:H2'	1:6:1162:C:H6	1.68	0.58
1:6:489:C:O2'	1:6:490:C:O4'	2.21	0.58
16:C4:71:CYS:O	16:C4:76:ILE:N	2.91	0.58
17:C5:52:LYS:HG3	17:C5:53:PRO:HD3	1.85	0.58
19:C7:89:SER:O	19:C7:95:ARG:NH1	9.29	0.58
51:M5:80:THR:HG21	51:M5:87:GLN:HA	1.85	0.58
57:N1:30:TYR:OH	57:N1:94:GLU:OE2	3.00	0.58
60:N4:71:ARG:NH2	1:6:1713:G:O3'	251.03	0.58
36:1:2138:A:C4	73:O7:3:LYS:HB3	2.38	0.58
74:O8:26:LYS:NZ	74:O8:28:ASN:OD1	2.93	0.58
5:S3:222:VAL:HG11	34:SR:229:LYS:HA	3.10	0.58
5:S3:64:ARG:O	5:S3:67:ASN:N	2.34	0.58
36:1:353:G:O2'	36:1:364:G:O6	2.17	0.58
36:1:829:U:H3	36:1:895:A:N6	2.01	0.58
1:2:1470:C:OP1	1:2:1540:G:O2'	2.22	0.58
1:2:1586:A:H1'	1:2:1611:A:N6	2.19	0.58
1:2:867:G:O6	85:2:1910:OHX:N2	2.36	0.58
1:2:8:U:O2'	85:2:1943:OHX:N1	2.36	0.58
36:5:1329:U:O2'	36:5:1330:A:OP1	2.21	0.58
36:5:1546:A:H2'	36:5:1547:G:C8	2.39	0.58
36:5:2102:U:H2'	36:5:2103:U:C6	2.39	0.58
1:6:1742:U:H2'	1:6:1743:U:C6	2.38	0.58
16:C4:20:TYR:HB3	16:C4:27:PHE:HB2	1.93	0.58
18:C6:82:ARG:NH1	18:C6:114:ARG:HB2	3.59	0.58
20:C8:30:TYR:OH	20:C8:40:ARG:NH1	3.62	0.58
25:D3:8:GLY:O	25:D3:11:SER:OG	3.40	0.58
27:D5:49:ARG:O	27:D5:53:GLU:HB2	2.36	0.58
36:1:2402:A:H5''	41:L4:67:THR:OG1	2.04	0.58
48:M1:132:ASN:HA	48:M1:154:THR:HG21	1.83	0.58
57:N1:77:ASN:HB3	57:N1:84:TYR:HD2	1.67	0.58
61:N5:80:ASN:HD21	61:N5:126:LEU:HB2	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:44:MET:HB3	67:O1:77:ARG:CZ	4.24	0.58
64:N8:14:HIS:CE1	68:O2:36:LYS:HE2	2.39	0.58
78:Q2:14:GLY:O	78:Q2:16:THR:N	2.36	0.58
3:S1:32:ILE:HG13	3:S1:96:LEU:HD21	1.84	0.58
4:S2:140:ARG:NH2	4:S2:229:LEU:HD13	2.19	0.58
34:SR:248:ASN:HD21	34:SR:298:GLY:HA3	2.41	0.58
36:1:2419:A:H2'	36:1:2420:C:C6	2.38	0.58
36:1:297:G:OP2	36:1:297:G:N2	2.36	0.58
36:1:565:U:H2'	36:1:566:G:H8	1.66	0.58
1:2:1107:G:H3'	1:2:1108:G:N2	2.18	0.58
54:M8:38:ARG:NH2	36:5:1348:U:OP2	187.00	0.58
36:5:1549:U:O4	85:5:3706:OHX:N2	2.37	0.58
36:5:2623:G:H2'	36:5:2624:G:H8	1.69	0.58
36:5:2697:A:H2'	36:5:2698:G:H8	1.69	0.58
36:5:2718:U:O4	85:5:3737:OHX:N6	2.36	0.58
36:5:3094:A:H2'	36:5:3095:U:C6	2.39	0.58
36:5:727:G:OP2	36:5:742:G:N2	2.36	0.58
16:C4:132:ARG:NH1	1:6:1788:G:OP2	295.05	0.58
16:C4:61:MET:O	16:C4:64:ALA:N	3.11	0.58
47:M0:170:LYS:NZ	47:M0:175:ASN:O	2.29	0.58
63:N7:62:VAL:O	63:N7:66:THR:OG1	2.62	0.58
2:S0:13:ASP:HA	2:S0:16:LEU:HD12	1.84	0.58
2:S0:41:ARG:HE	2:S0:45:VAL:HB	1.67	0.58
3:S1:48:VAL:HG13	3:S1:61:LEU:HD21	1.85	0.58
5:S3:220:PRO:O	5:S3:221:SER:OG	2.34	0.58
8:S6:4:ASN:HB3	8:S6:110:ALA:HA	2.26	0.58
9:S7:20:VAL:O	9:S7:24:PHE:N	2.89	0.58
36:1:1155:C:H2'	36:1:1156:C:C6	2.38	0.58
36:1:1807:G:O2'	36:1:2559:U:O4	2.19	0.58
1:2:1726:G:N7	85:2:1977:OHX:N4	2.51	0.58
1:2:463:U:H2'	1:2:464:A:H8	1.69	0.58
36:5:2440:G:O2'	36:5:2441:A:OP1	2.20	0.58
36:5:252:U:H4'	36:5:253:A:C5'	2.34	0.58
76:Q0:124:LYS:NZ	36:5:2897:A:OP2	324.28	0.58
36:5:2400:G:OP1	85:5:3614:OHX:N1	2.36	0.58
1:6:628:G:N1	1:6:970:A:OP2	2.30	0.58
14:C2:56:GLU:OE1	14:C2:124:LYS:NZ	3.07	0.58
18:C6:31:VAL:O	18:C6:33:GLY:N	2.36	0.58
20:C8:87:ASN:OD1	20:C8:88:ARG:N	2.34	0.58
24:D2:25:VAL:HG23	24:D2:63:VAL:HB	1.86	0.58
45:L8:161:GLU:OE1	51:M5:26:ARG:NH1	2.43	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:48:VAL:HG21	46:L9:52:LEU:HD13	3.14	0.58
50:M4:13:ARG:HD2	50:M4:65:LEU:O	2.03	0.58
52:M6:22:VAL:HG21	52:M6:120:VAL:HG11	1.85	0.58
53:M7:88:VAL:O	53:M7:92:GLN:HG2	2.02	0.58
70:O4:47:CYS:HB3	70:O4:84:CYS:SG	2.42	0.58
7:S5:120:ILE:HG23	27:D5:59:TYR:CE1	2.35	0.58
9:S7:101:LYS:HD3	1:6:639:U:H5'	365.67	0.58
36:1:109:A:H4'	36:1:110:G:OP1	2.04	0.58
36:1:2227:C:OP1	78:Q2:32:LYS:NZ	2.28	0.58
36:1:2666:C:OP2	36:1:2687:G:N1	2.24	0.58
36:1:300:G:O6	85:1:3689:OHX:N1	2.36	0.58
1:2:1689:A:H2'	1:2:1690:G:C8	2.38	0.58
36:5:1696:A:OP2	85:5:3689:OHX:N6	2.36	0.58
56:N0:161:LYS:NZ	36:5:3208:G:O3'	279.02	0.58
1:6:1579:U:H2'	1:6:1580:C:C6	2.39	0.58
24:D2:70:ASN:ND2	24:D2:130:TYR:O	2.26	0.58
28:D6:58:VAL:HG22	28:D6:59:TYR:H	4.08	0.58
41:L4:144:LYS:CG	41:L4:145:ILE:H	4.96	0.58
42:L5:269:SER:O	42:L5:270:LYS:HB2	4.62	0.58
46:L9:8:GLN:HB2	46:L9:55:VAL:HG23	1.85	0.58
46:L9:96:HIS:O	46:L9:98:PRO:HD3	2.04	0.58
63:N7:9:LYS:HD2	63:N7:83:THR:O	2.02	0.58
67:O1:46:THR:OG1	67:O1:48:ASP:O	2.20	0.58
71:O5:62:GLN:O	71:O5:66:VAL:HG23	2.10	0.58
9:S7:10:SER:HB3	9:S7:43:PHE:O	2.04	0.58
36:1:250:U:H5	36:1:251:G:N7	2.01	0.58
36:1:2623:G:H2'	36:1:2624:G:H8	1.69	0.58
36:1:3279:A:H8	36:1:3279:A:H5'	1.68	0.58
1:2:1067:C:H2'	1:2:1068:C:H6	1.69	0.58
1:2:1202:A:H1'	1:2:1207:C:N4	2.19	0.58
1:2:306:U:H2'	1:2:307:G:H8	1.69	0.58
1:2:730:G:H21	1:2:731:C:H5'	1.67	0.58
37:3:67:G:H2'	37:3:68:C:O4'	2.04	0.58
38:4:155:A:H4'	45:L8:185:ARG:HD3	1.84	0.58
55:M9:128:LYS:NZ	36:5:1721:U:O4	231.97	0.58
36:5:3166:C:H42	36:5:3284:G:H1	1.51	0.58
50:M4:77:ARG:NH2	36:5:524:U:OP1	341.03	0.58
36:5:850:U:H2'	36:5:851:C:C6	2.38	0.58
1:6:899:G:H2'	1:6:900:A:C8	2.39	0.58
19:C7:23:LYS:HD2	19:C7:34:LEU:HD11	4.94	0.58
26:D4:112:LYS:HZ2	26:D4:116:LYS:HD2	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:87:ARG:HD2	1:6:1797:A:C6	345.41	0.58
30:D8:36:THR:OG1	30:D8:37:SER:N	2.37	0.58
48:M1:92:ARG:HH22	48:M1:94:ARG:HH11	5.37	0.58
49:M3:87:ALA:O	49:M3:90:ALA:N	2.36	0.58
64:N8:64:GLN:HB2	64:N8:67:HIS:CD2	2.39	0.58
69:O3:86:ARG:NH2	36:5:497:C:O3'	214.62	0.58
78:Q2:35:LEU:HD23	78:Q2:35:LEU:H	1.67	0.58
78:Q2:63:LYS:HD2	36:5:2795:U:OP2	211.68	0.58
3:S1:100:PHE:HZ	3:S1:215:VAL:HG11	4.43	0.58
6:S4:120:SER:O	6:S4:164:LEU:HB2	2.33	0.58
6:S4:42:LEU:N	6:S4:84:ALA:O	2.37	0.58
6:S4:93:ASP:O	6:S4:95:THR:N	3.99	0.58
8:S6:78:THR:HG22	8:S6:79:LYS:H	1.82	0.58
36:1:1302:A:N1	36:1:2832:C:O2'	2.34	0.58
36:1:345:G:O2'	38:4:25:G:N3	2.36	0.58
1:2:1015:U:OP1	85:2:1923:OHX:N6	2.36	0.58
1:2:245:U:O4	85:2:1971:OHX:N5	2.37	0.58
1:2:585:A:H2'	1:2:586:G:H8	1.69	0.58
36:5:123:A:C6	36:5:150:A:C5	2.92	0.58
36:5:3279:A:H2'	36:5:3280:U:H5'	1.84	0.58
36:5:1586:G:OP1	85:5:3494:OHX:N3	2.36	0.58
1:6:245:U:O4	85:6:1977:OHX:N4	2.37	0.58
1:6:500:C:O2'	1:6:501:U:O4'	2.18	0.58
13:C1:87:ARG:HE	13:C1:104:HIS:CD2	2.21	0.58
21:C9:122:ARG:NH1	1:6:1499:G:OP1	420.67	0.58
39:L2:242:ARG:NH1	39:L2:246:LEU:HD12	4.87	0.58
40:L3:169:THR:HG23	40:L3:171:LEU:H	2.75	0.58
41:L4:150:LEU:HD13	41:L4:249:ILE:HG12	3.38	0.58
42:L5:64:ILE:HG22	42:L5:75:LEU:HB3	1.85	0.58
43:L6:54:TYR:CE2	43:L6:63:LEU:HD22	2.39	0.58
53:M7:126:ARG:O	53:M7:127:ARG:HB2	2.02	0.58
53:M7:31:GLU:CG	53:M7:60:PHE:HA	3.27	0.58
76:Q0:98:LYS:HD3	76:Q0:115:CYS:HB2	2.52	0.58
4:S2:203:LYS:HG2	4:S2:206:THR:HG22	5.70	0.58
6:S4:129:VAL:HG23	6:S4:139:VAL:HG12	2.63	0.58
11:S9:134:ILE:HD12	11:S9:134:ILE:N	4.91	0.58
36:1:1204:A:H2	36:1:2834:G:N3	2.02	0.58
1:2:1165:G:C6	1:2:1166:A:C6	2.91	0.58
1:2:1202:A:OP2	85:2:1989:OHX:N2	2.37	0.58
36:5:116:A:H5''	36:5:265:A:H2	1.68	0.58
36:5:1808:G:O6	85:5:3528:OHX:N3	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3053:G:O6	85:5:3676:OHX:N6	2.37	0.58
36:5:436:A:H3'	85:5:3743:OHX:N3	2.18	0.58
36:5:999:G:C6	36:5:1000:C:N4	2.72	0.58
1:6:1268:G:H1'	1:6:1448:G:H5''	1.86	0.58
1:6:486:G:N2	1:6:487:G:N7	2.51	0.58
17:C5:68:PRO:O	85:C5:201:OHX:N5	5.97	0.58
23:D1:78:LEU:HD23	23:D1:78:LEU:H	1.69	0.58
40:L3:221:THR:HG22	40:L3:222:LYS:O	2.04	0.58
41:L4:192:GLY:O	41:L4:195:ARG:N	2.37	0.58
42:L5:158:ARG:HB2	37:7:46:A:OP1	279.06	0.58
42:L5:289:LYS:HD3	47:M0:206:LEU:HD23	1.86	0.58
44:L7:24:GLU:O	44:L7:26:VAL:N	2.29	0.58
47:M0:216:TYR:O	85:M0:301:OHX:N4	66.75	0.58
49:M3:180:ARG:HH11	72:O6:11:LEU:HD21	1.69	0.58
49:M3:59:ARG:HD3	36:5:73:C:C2	92.10	0.58
54:M8:86:THR:HB	54:M8:105:ARG:HB2	2.37	0.58
62:N6:80:VAL:HG12	62:N6:101:PRO:HD3	1.86	0.58
6:S4:77:ARG:HD2	6:S4:82:TYR:CE1	5.02	0.58
18:C6:98:ASP:HB2	34:SR:58:VAL:HG23	6.42	0.58
36:1:2947:G:H4'	36:1:2947:G:OP2	2.02	0.58
36:1:900:G:H2'	36:1:901:G:H8	1.69	0.58
1:2:1648:A:H2'	1:2:1649:G:C8	2.39	0.58
1:2:702:G:O6	1:2:737:A:N6	2.36	0.58
36:5:1190:A:C8	36:5:1193:A:H1'	2.39	0.58
36:5:937:G:N3	36:5:963:G:H1'	2.18	0.58
1:6:1161:C:H2'	1:6:1162:C:C6	2.39	0.58
1:6:57:G:N2	1:6:91:G:H1'	2.19	0.58
16:C4:50:ALA:HB3	16:C4:53:ASP:HB2	1.86	0.58
17:C5:127:ARG:CZ	35:SM:66:ALA:HB2	4.42	0.58
23:D1:9:VAL:HG22	23:D1:10:GLU:H	1.97	0.58
24:D2:27:ILE:HG12	24:D2:61:ILE:HB	1.86	0.58
27:D5:90:LYS:HG3	27:D5:91:PRO:HD2	4.36	0.58
23:D1:85:TYR:CD1	29:D7:6:ASP:HB2	2.72	0.58
40:L3:105:VAL:HG21	40:L3:148:LEU:HD13	1.84	0.58
49:M3:75:PHE:O	49:M3:76:THR:OG1	2.15	0.58
36:1:269:G:H5''	51:M5:14:LYS:HE2	1.86	0.58
51:M5:150:TRP:CE2	51:M5:151:ILE:HG12	2.39	0.58
56:N0:155:ARG:NH2	56:N0:155:ARG:HG2	2.18	0.58
61:N5:100:LYS:NZ	61:N5:107:VAL:H	2.02	0.58
65:N9:59:LYS:NZ	65:N9:59:LYS:O	2.28	0.58
72:O6:54:GLU:HG2	72:O6:90:MET:HE1	2.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:O6:98:ARG:HD2	72:O6:98:ARG:H	1.69	0.58
34:SR:134:TRP:HA	34:SR:140:CYS:HA	1.86	0.58
35:SM:32:SER:OG	36:1:2666:C:O2'	2.22	0.57
36:1:2971:A:N3	36:1:2971:A:H3'	2.19	0.57
1:2:397:A:O3'	10:S8:50:GLY:HA2	2.03	0.57
51:M5:125:SER:HB3	36:5:2433:U:H1'	160.77	0.57
36:5:2700:G:O2'	36:5:2705:A:N1	2.33	0.57
36:5:3127:A:OP2	85:5:3663:OHX:N5	2.37	0.57
40:L3:174:LYS:N	36:5:3314:A:OP1	204.03	0.57
1:6:1207:C:H42	1:6:1456:C:H5	1.52	0.57
85:S9:201:OHX:N2	1:6:759:U:OP1	380.88	0.57
55:M9:172:ARG:NH1	1:6:852:C:OP1	322.15	0.57
42:L5:21:ARG:NH2	37:7:8:G:O6	288.16	0.57
53:M7:120:ASN:HD22	38:8:13:A:H1'	140.59	0.57
16:C4:87:GLY:HA3	16:C4:120:PRO:HG2	1.84	0.57
20:C8:23:ASP:HB3	20:C8:26:ILE:HG12	4.05	0.57
22:D0:22:ILE:HG22	22:D0:93:LEU:HB2	1.99	0.57
41:L4:146:PRO:O	85:L4:401:OHX:N5	2.37	0.57
47:M0:98:ARG:HB3	47:M0:120:GLY:HA3	2.37	0.57
49:M3:171:ARG:HB3	49:M3:171:ARG:HH21	1.69	0.57
59:N3:87:ARG:HH22	59:N3:137:VAL:HG21	1.69	0.57
63:N7:29:HIS:O	63:N7:31:GLU:N	2.37	0.57
64:N8:116:GLY:H	64:N8:137:LYS:HZ3	1.51	0.57
3:S1:129:THR:OG1	3:S1:130:SER:N	3.37	0.57
1:2:7:G:N7	4:S2:205:ARG:NH1	2.49	0.57
6:S4:210:ILE:O	6:S4:217:THR:HA	2.40	0.57
36:1:1724:U:H1'	36:1:1725:C:C6	2.39	0.57
1:2:1277:G:H2'	1:2:1278:G:O4'	2.04	0.57
1:2:864:U:C5	29:D7:22:LYS:HG2	2.39	0.57
36:5:3152:U:O2	85:5:3731:OHX:N5	2.37	0.57
40:L3:174:LYS:HG3	36:5:3314:A:H5"	199.76	0.57
38:8:16:G:O6	85:8:201:OHX:N6	2.37	0.57
19:C7:88:VAL:HG13	19:C7:95:ARG:HD3	5.41	0.57
26:D4:29:HIS:O	26:D4:31:ASN:N	3.62	0.57
39:L2:102:LEU:HD13	39:L2:166:ILE:HD11	3.34	0.57
36:1:2947:G:N3	40:L3:250:ALA:HB1	2.19	0.57
50:M4:43:LYS:HE3	56:N0:96:ASP:OD2	2.03	0.57
50:M4:90:VAL:O	50:M4:93:LYS:N	2.35	0.57
38:4:141:C:OP1	51:M5:109:ARG:NH1	2.37	0.57
57:N1:83:ARG:HD2	57:N1:85:LEU:HD21	4.56	0.57
61:N5:132:ALA:O	61:N5:136:ALA:N	2.80	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Q3:81:SER:HA	79:Q3:84:ARG:HB2	1.86	0.57
6:S4:191:ARG:HD3	6:S4:245:LYS:HD3	1.86	0.57
8:S6:27:PHE:HD1	8:S6:52:ILE:HD11	2.34	0.57
9:S7:143:LEU:HB2	9:S7:147:ASN:HB2	1.85	0.57
9:S7:184:GLU:HG2	9:S7:185:ILE:H	1.73	0.57
11:S9:129:ILE:HG12	11:S9:134:ILE:HG12	4.21	0.57
36:1:2094:C:H2'	36:1:2095:G:C8	2.39	0.57
36:1:3074:G:OP1	85:1:3576:OHX:N1	2.37	0.57
36:1:2924:U:O4	85:1:3554:OHX:N1	2.37	0.57
36:5:2102:U:H2'	36:5:2103:U:H6	1.68	0.57
36:5:2726:C:O2'	36:5:2727:A:H2'	2.04	0.57
1:6:1451:C:H2'	1:6:1452:U:H6	1.68	0.57
6:S4:21:ASP:HB2	1:6:773:C:OP1	388.65	0.57
4:S2:144:TRP:C	24:D2:98:GLN:HE22	3.79	0.57
1:2:523:G:OP2	26:D4:37:LYS:NZ	2.36	0.57
33:E1:123:ASN:OD1	33:E1:124:PRO:HD2	2.04	0.57
41:L4:3:ARG:HH11	41:L4:22:LEU:HD12	1.70	0.57
51:M5:61:ILE:HD13	51:M5:133:ILE:HA	1.86	0.57
59:N3:6:ALA:HB2	59:N3:126:TRP:CH2	2.62	0.57
51:M5:5:LYS:HE2	72:O6:37:THR:HG22	1.86	0.57
74:O8:42:LYS:HG2	74:O8:55:VAL:HG13	1.97	0.57
2:S0:169:SER:O	2:S0:173:ILE:HG12	2.04	0.57
3:S1:209:ASN:O	3:S1:210:ILE:HG13	3.36	0.57
4:S2:101:VAL:HG22	4:S2:115:ILE:HG12	1.86	0.57
8:S6:116:LYS:HD2	8:S6:125:THR:HG23	3.40	0.57
36:1:2403:G:H5'	36:1:2872:A:C8	2.40	0.57
36:1:898:U:OP1	85:1:3517:OHX:N2	2.38	0.57
36:1:956:U:OP1	85:1:3663:OHX:N1	2.37	0.57
1:2:1236:A:O4'	33:E1:138:ARG:NH2	2.37	0.57
1:2:273:G:H1	1:2:283:U:H3	1.50	0.57
1:2:641:G:H2'	1:2:642:G:C8	2.39	0.57
1:2:749:U:H5''	24:D2:83:ILE:HD12	1.86	0.57
36:5:1554:U:N3	36:5:1582:C:H5	2.02	0.57
36:5:3159:C:H2'	36:5:3160:U:C6	2.40	0.57
36:5:3333:G:N2	36:5:3369:G:H1'	2.20	0.57
1:6:139:C:H4'	1:6:140:A:O5'	2.04	0.57
1:6:1424:A:H2'	1:6:1425:A:O4'	2.04	0.57
1:6:560:U:H2'	1:6:561:G:C8	2.40	0.57
85:8:203:OHX:N2	85:8:211:OHX:N1	2.53	0.57
40:L3:123:TYR:CZ	40:L3:124:LYS:HG3	2.40	0.57
41:L4:44:LYS:HB3	41:L4:47:ARG:HH11	2.47	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:110:LEU:HA	42:L5:113:LEU:HB2	3.33	0.57
36:1:683:U:H5'	51:M5:200:TRP:CZ3	2.39	0.57
52:M6:65:ASN:OD1	52:M6:67:THR:HB	2.76	0.57
74:O8:8:ILE:HD12	74:O8:8:ILE:H	1.70	0.57
78:Q2:23:HIS:HD2	78:Q2:72:LEU:HB3	1.69	0.57
8:S6:135:PRO:HB2	8:S6:141:ILE:HG12	1.87	0.57
1:2:161:U:OP2	8:S6:87:ARG:NH2	2.36	0.57
9:S7:23:ALA:O	9:S7:27:LEU:HG	2.05	0.57
10:S8:56:ARG:NE	10:S8:174:GLY:O	2.62	0.57
36:1:65:A:H3'	36:1:111:C:N4	2.18	0.57
36:1:2339:C:OP2	59:N3:48:ARG:HG2	2.04	0.57
36:1:2358:A:H2'	36:1:2359:C:O4'	2.05	0.57
36:1:76:G:O2'	49:M3:100:ARG:NH1	2.35	0.57
1:2:256:A:H2'	1:2:257:A:O4'	2.04	0.57
1:2:97:C:H2'	1:2:98:U:C6	2.39	0.57
36:5:2730:G:OP2	85:5:3461:OHX:N4	2.37	0.57
36:5:71:A:C2	36:5:2778:G:H1'	2.40	0.57
36:5:284:A:H4'	36:5:285:A:C2	2.39	0.57
1:6:190:C:N4	1:6:196:G:O6	2.38	0.57
20:C8:28:ILE:HB	20:C8:58:ALA:HA	1.86	0.57
22:D0:42:VAL:HG22	22:D0:52:LYS:NZ	2.19	0.57
40:L3:167:ARG:O	85:L3:401:OHX:N5	24.21	0.57
42:L5:115:LEU:H	42:L5:115:LEU:HD22	1.81	0.57
45:L8:41:GLN:HG3	45:L8:42:PRO:HD2	1.87	0.57
51:M5:58:GLY:HA3	51:M5:142:ILE:HD11	1.85	0.57
79:Q3:5:THR:HG21	79:Q3:9:GLY:H	3.86	0.57
2:S0:119:ARG:HE	4:S2:240:LEU:HB3	1.69	0.57
5:S3:117:ARG:HE	35:SM:122:GLU:HB3	1.69	0.57
6:S4:153:ASN:HB2	6:S4:172:PHE:CZ	3.15	0.57
7:S5:100:ASN:HD22	7:S5:180:ARG:HD3	3.28	0.57
36:1:3107:U:OP1	76:Q0:114:LYS:NZ	2.37	0.57
85:1:3483:OHX:N5	85:1:3656:OHX:N2	2.53	0.57
36:1:839:C:H4'	36:1:1724:U:H2'	1.85	0.57
1:2:1051:G:O2'	1:2:1052:U:O5'	2.19	0.57
1:2:1358:G:H2'	1:2:1359:C:C6	2.40	0.57
1:2:480:G:H22	1:2:509:G:H1'	1.70	0.57
38:4:62:C:O2	85:4:206:OHX:N5	2.37	0.57
36:5:2442:G:H22	36:5:2506:U:H3	1.53	0.57
36:5:3268:A:H3'	36:5:3269:U:H3'	1.86	0.57
1:6:515:A:OP2	85:6:1956:OHX:N6	2.37	0.57
1:6:250:C:H2'	1:6:251:A:H8	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:463:U:H2'	1:6:464:A:C8	2.39	0.57
14:C2:97:LEU:HD11	14:C2:121:VAL:HG22	1.86	0.57
17:C5:86:VAL:O	17:C5:89:MET:HG3	2.04	0.57
18:C6:32:ASN:HD21	18:C6:69:VAL:H	2.29	0.57
22:D0:27:THR:HB	22:D0:88:LYS:HG3	1.85	0.57
32:E0:17:GLN:OE1	1:6:563:U:H4'	382.95	0.57
40:L3:205:VAL:HG11	40:L3:322:ILE:HD11	1.85	0.57
41:L4:341:SER:O	41:L4:342:LYS:HB3	4.62	0.57
49:M3:164:GLU:O	49:M3:166:ALA:N	2.36	0.57
51:M5:28:TRP:O	51:M5:32:GLN:HG2	2.05	0.57
53:M7:52:LEU:C	53:M7:54:HIS:H	2.08	0.57
58:N2:58:GLU:O	58:N2:60:GLY:N	2.35	0.57
58:N2:82:LYS:O	58:N2:86:LYS:N	2.28	0.57
59:N3:32:ARG:HB3	59:N3:64:LYS:O	2.05	0.57
36:1:155:G:H1'	72:O6:26:ILE:HD13	1.86	0.57
6:S4:196:VAL:HG12	6:S4:197:HIS:HB3	1.87	0.57
6:S4:105:VAL:HG22	6:S4:243:GLY:HA2	1.87	0.57
7:S5:76:ARG:HG3	7:S5:79:ASN:HD21	1.70	0.57
34:SR:123:ILE:HG22	34:SR:133:VAL:HG22	1.85	0.57
36:1:1064:A:H4'	36:1:1065:A:O5'	2.05	0.57
36:1:1278:A:HO2'	36:1:1279:C:H6	1.52	0.57
36:1:1171:G:N7	85:1:3495:OHX:N2	2.53	0.57
36:1:685:G:P	49:M3:35:ARG:HH11	2.27	0.57
36:1:835:G:HO2'	36:1:836:A:P	2.27	0.57
38:4:26:U:H2'	38:4:27:U:C6	2.39	0.57
36:5:549:U:O4	85:5:3516:OHX:N4	2.38	0.57
54:M8:146:SER:OG	85:5:3697:OHX:N2	161.33	0.57
1:6:1484:G:H2'	1:6:1485:C:H6	1.69	0.57
1:6:493:U:H2'	1:6:494:U:H5''	1.85	0.57
40:L3:47:LEU:HB3	40:L3:164:THR:HG22	1.86	0.57
43:L6:157:GLN:O	43:L6:160:SER:OG	2.80	0.57
46:L9:172:ILE:H	46:L9:172:ILE:HD13	1.69	0.57
47:M0:4:ARG:HH11	36:5:2828:G:HO2'	264.70	0.57
62:N6:53:ASP:HB2	62:N6:110:HIS:CD2	2.40	0.57
3:S1:180:THR:OG1	3:S1:181:LEU:N	4.23	0.57
4:S2:140:ARG:NH2	4:S2:226:THR:OG1	4.16	0.57
6:S4:31:PRO:HD2	6:S4:38:LEU:HD13	2.88	0.57
6:S4:45:ILE:HA	6:S4:61:VAL:HG11	1.98	0.57
34:SR:64:HIS:ND1	34:SR:86:ASP:OD2	2.25	0.57
36:1:3215:A:O5'	50:M4:121:MET:HE1	2.04	0.57
36:1:3233:C:H2'	36:1:3234:A:C8	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1230:A:H2'	1:2:1258:U:C5	2.39	0.57
1:2:1481:C:O2'	1:2:1482:C:O5'	2.19	0.57
1:2:1487:A:H2'	1:2:1488:G:C8	2.39	0.57
36:5:1307:G:C2	36:5:1308:A:C2	2.93	0.57
55:M9:20:ARG:NH1	36:5:1873:U:OP2	147.47	0.57
36:5:2434:U:H4'	36:5:2435:G:H5''	1.86	0.57
1:6:1714:A:H2'	1:6:1715:G:O4'	2.05	0.57
21:C9:102:ARG:NH2	1:6:1502:G:N7	405.39	0.57
27:D5:41:ILE:HG13	27:D5:42:LEU:HG	1.85	0.57
43:L6:176:PHE:HA	50:M4:114:ASP:HB2	2.87	0.57
45:L8:220:ALA:HA	45:L8:224:ASP:OD2	2.16	0.57
46:L9:75:VAL:HA	46:L9:78:MET:HE2	1.87	0.57
48:M1:133:ARG:NH1	48:M1:152:HIS:O	2.35	0.57
36:1:1610:G:OP2	61:N5:125:ARG:NH1	2.37	0.57
63:N7:4:PHE:CZ	66:O0:35:ARG:HA	2.40	0.57
63:N7:54:THR:OG1	63:N7:55:LYS:N	2.51	0.57
68:O2:82:LEU:HD12	68:O2:108:ILE:HG22	5.43	0.57
2:S0:126:PRO:HA	2:S0:133:ILE:HD11	2.68	0.57
34:SR:299:GLN:O	34:SR:314:GLN:HG3	2.95	0.57
36:1:199:A:H4'	36:1:200:C:OP1	2.04	0.57
36:1:3033:A:H2'	36:1:3034:C:C6	2.39	0.57
36:1:1276:U:OP1	85:1:3621:OHX:N4	2.38	0.57
36:1:900:G:H2'	36:1:901:G:C8	2.39	0.57
1:2:839:U:H5''	13:C1:28:SER:HB3	1.86	0.57
37:3:11:A:N1	37:3:67:G:O2'	2.25	0.57
37:3:14:U:O4	37:3:67:G:N2	2.38	0.57
54:M8:10:HIS:NE2	36:5:1364:C:O2	202.66	0.57
36:5:2623:G:H2'	36:5:2624:G:C8	2.40	0.57
36:5:306:A:C2	36:5:2784:G:H1'	2.40	0.57
36:5:3035:A:OP2	85:5:3555:OHX:N5	2.38	0.57
1:6:621:A:N3	1:6:1107:G:H1'	2.20	0.57
36:1:2146:C:OP1	39:L2:200:ARG:NH1	2.38	0.57
36:1:609:G:H8	41:L4:310:THR:HG22	1.70	0.57
41:L4:337:GLU:C	41:L4:339:LEU:H	2.08	0.57
41:L4:98:ARG:HG2	41:L4:99:MET:N	2.53	0.57
45:L8:123:GLN:O	45:L8:125:ALA:N	4.09	0.57
47:M0:53:VAL:HG22	47:M0:134:ILE:HA	2.12	0.57
49:M3:55:ARG:O	49:M3:115:ARG:NH2	2.73	0.57
49:M3:138:VAL:HB	71:O5:118:ILE:HB	1.87	0.57
36:1:670:C:OP1	54:M8:147:ARG:NH2	2.38	0.57
55:M9:97:ARG:O	55:M9:101:VAL:HG23	3.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:235:LEU:HD13	23:D1:33:GLN:HE22	1.70	0.57
6:S4:62:LYS:NZ	6:S4:78:THR:O	8.96	0.57
36:1:2766:U:O4	85:1:3575:OHX:N2	2.38	0.57
36:1:706:A:H4'	36:1:781:G:O2'	2.04	0.57
1:2:1561:U:H2'	1:2:1562:G:H8	1.69	0.57
37:3:27:A:O5'	42:L5:57:ASN:ND2	2.32	0.57
36:5:2261:G:O2'	36:5:2263:C:N4	2.38	0.57
36:5:2278:C:H2'	36:5:2279:A:H5''	1.87	0.57
36:5:3057:U:H5'	36:5:3086:A:N6	2.20	0.57
79:Q3:17:ARG:NH1	36:5:860:G:OP1	219.56	0.57
1:6:1727:G:O6	85:6:2001:OHX:N6	2.38	0.57
37:7:28:C:H1'	37:7:55:A:H61	1.68	0.57
13:C1:3:THR:HG1	13:C1:82:ARG:HE	1.49	0.57
20:C8:30:TYR:HE2	20:C8:40:ARG:HH11	1.56	0.57
22:D0:104:THR:HG22	22:D0:116:VAL:HG11	3.81	0.57
23:D1:17:CYS:C	23:D1:19:ALA:H	2.07	0.57
40:L3:46:PHE:CE2	40:L3:205:VAL:HG22	2.40	0.57
40:L3:218:ILE:HB	40:L3:337:THR:HG22	1.87	0.57
48:M1:60:ARG:O	48:M1:63:GLU:HB2	2.05	0.57
36:1:2115:G:O2'	55:M9:82:LYS:HE3	2.05	0.57
63:N7:33:SER:HB2	63:N7:40:HIS:CE1	2.39	0.57
69:O3:59:VAL:O	69:O3:61:GLY:N	2.96	0.57
7:S5:43:PHE:CG	7:S5:44:ASN:N	2.92	0.57
9:S7:129:LEU:HD13	9:S7:169:PHE:HB3	2.80	0.57
1:2:106:U:H2'	1:2:107:C:O4'	2.04	0.56
1:2:693:U:H5'	1:2:694:U:H5''	1.87	0.56
36:5:2299:A:OP2	85:5:3462:OHX:N1	2.38	0.56
31:D9:44:ARG:HH22	1:6:1280:C:H5'	399.71	0.56
1:6:407:A:H2'	1:6:408:C:H6	1.69	0.56
15:C3:56:ASP:OD1	29:D7:52:THR:OG1	2.23	0.56
20:C8:30:TYR:O	20:C8:33:THR:OG1	2.16	0.56
21:C9:49:ASP:HB3	21:C9:53:TRP:HB3	1.86	0.56
24:D2:30:SER:HB2	24:D2:61:ILE:HG13	1.87	0.56
1:2:1792:G:O5'	28:D6:3:LYS:HA	2.05	0.56
33:E1:134:ASN:H	1:6:1251:U:H4'	442.19	0.56
40:L3:34:LYS:O	40:L3:184:ASN:ND2	2.38	0.56
48:M1:37:LEU:HD12	48:M1:67:VAL:HG13	5.37	0.56
56:N0:59:VAL:HG11	57:N1:141:VAL:HG21	2.18	0.56
62:N6:31:LEU:HB3	62:N6:101:PRO:HG3	2.53	0.56
71:O5:31:LEU:HD22	71:O5:47:VAL:HG11	1.86	0.56
71:O5:85:THR:HG22	71:O5:87:ALA:N	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:180:ARG:HD3	72:O6:11:LEU:HD21	1.87	0.56
79:Q3:15:GLY:O	79:Q3:23:ARG:NH1	4.49	0.56
34:SR:184:ASN:OD1	34:SR:185:GLN:N	4.83	0.56
34:SR:82:SER:OG	34:SR:92:TRP:NE1	2.89	0.56
36:1:3057:U:O2'	36:1:3059:G:OP1	2.22	0.56
36:1:1650:G:N7	85:1:3676:OHX:N6	2.53	0.56
36:1:735:A:H2'	36:1:736:A:C8	2.40	0.56
1:2:1274:C:N4	35:SM:94:HIS:O	2.38	0.56
1:2:274:G:H3'	1:2:275:C:C6	2.41	0.56
36:5:2960:C:H2'	36:5:2961:G:H8	1.71	0.56
40:L3:21:ARG:NH2	36:5:2991:A:O3'	200.81	0.56
49:M3:175:SER:OG	36:5:769:G:OP1	143.26	0.56
19:C7:13:SER:HA	19:C7:54:THR:HG22	2.15	0.56
1:2:1235:C:H2'	33:E1:138:ARG:NH2	2.20	0.56
39:L2:129:ALA:O	39:L2:131:GLY:N	2.61	0.56
39:L2:114:SER:HB2	39:L2:169:ILE:CD1	2.59	0.56
40:L3:296:THR:HG22	40:L3:297:SER:H	2.33	0.56
42:L5:119:TYR:OH	42:L5:135:VAL:N	2.37	0.56
45:L8:148:ALA:HA	45:L8:201:THR:HG22	2.07	0.56
47:M0:19:LYS:HE2	47:M0:26:VAL:HG13	3.73	0.56
48:M1:107:ASP:N	48:M1:107:ASP:OD1	2.38	0.56
48:M1:8:PRO:HD2	48:M1:10:ARG:HG2	2.41	0.56
49:M3:153:ASP:OD2	49:M3:157:ARG:NH2	2.38	0.56
53:M7:48:LEU:HD12	53:M7:92:GLN:HB3	1.86	0.56
59:N3:48:ARG:HG2	36:5:2339:C:P	246.04	0.56
60:N4:9:SER:HA	60:N4:52:THR:HG22	1.85	0.56
74:O8:32:ASN:O	74:O8:34:ALA:N	2.38	0.56
79:Q3:35:ALA:HB3	79:Q3:37:TYR:CE2	3.40	0.56
36:1:2179:C:O3'	39:L2:174:ARG:NH2	2.38	0.56
36:1:439:C:HO2'	36:1:619:A:H2	1.54	0.56
1:2:1236:A:H2'	1:2:1237:G:H8	1.69	0.56
36:5:2676:A:H4'	36:5:2677:G:O5'	2.06	0.56
36:5:964:G:H2'	36:5:965:A:H8	1.70	0.56
1:6:1451:C:H2'	1:6:1452:U:C6	2.40	0.56
1:6:1680:G:O6	85:6:2043:OHX:N4	2.39	0.56
1:6:862:A:H4'	1:6:863:A:O5'	2.06	0.56
85:7:203:OHX:N1	85:7:211:OHX:N5	2.54	0.56
22:D0:72:ASN:ND2	22:D0:73:GLY:H	3.72	0.56
24:D2:15:ASN:ND2	24:D2:71:LYS:HA	2.20	0.56
40:L3:140:ASP:OD2	40:L3:140:ASP:N	3.02	0.56
41:L4:10:SER:OG	41:L4:14:GLU:HG2	5.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:141:ARG:N	41:L4:177:ASP:OD1	2.30	0.56
57:N1:71:SER:OG	36:5:2736:A:O3'	230.22	0.56
6:S4:123:LEU:HD12	6:S4:161:LYS:HA	1.87	0.56
9:S7:43:PHE:HB2	9:S7:61:PHE:O	2.06	0.56
10:S8:8:ARG:NH2	10:S8:21:PHE:HB3	2.19	0.56
11:S9:39:LYS:HB3	11:S9:43:TYR:CE2	3.31	0.56
36:1:1286:A:O2'	36:1:1287:A:OP2	2.17	0.56
36:1:3133:C:H2'	36:1:3134:A:O4'	2.05	0.56
36:1:568:G:H2'	36:1:569:A:O4'	2.05	0.56
36:1:664:U:H3	36:1:798:G:H1	1.53	0.56
1:2:1142:A:OP1	28:D6:2:PRO:HB3	2.06	0.56
1:2:1147:A:H2'	1:2:1148:C:H6	1.69	0.56
1:2:304:U:H2'	1:2:305:C:C6	2.41	0.56
37:3:1:G:H21	42:L5:269:SER:HG	1.53	0.56
36:5:2897:A:H2'	36:5:2899:C:H5''	1.86	0.56
36:5:3092:C:O2'	36:5:3094:A:OP2	2.15	0.56
36:5:3343:G:H21	36:5:3362:A:H2	1.49	0.56
73:O7:55:ARG:NH2	36:5:347:G:N7	109.65	0.56
1:6:187:G:H4'	1:6:188:A:OP1	2.05	0.56
1:2:1498:G:OP1	21:C9:75:LYS:HD3	2.06	0.56
39:L2:238:ILE:O	36:5:2154:U:O2'	212.49	0.56
44:L7:47:ARG:NH2	44:L7:179:LEU:HD11	2.21	0.56
45:L8:60:ARG:O	45:L8:64:ILE:HG13	2.22	0.56
50:M4:23:ILE:HG22	50:M4:29:ALA:HA	1.86	0.56
56:N0:77:VAL:HG11	56:N0:106:LEU:HG	2.52	0.56
60:N4:80:ARG:O	60:N4:80:ARG:HG2	2.06	0.56
69:O3:49:ILE:HG12	69:O3:100:ILE:HG13	2.39	0.56
79:Q3:73:THR:HB	79:Q3:76:ALA:H	2.14	0.56
2:S0:20:ALA:O	2:S0:169:SER:OG	2.21	0.56
3:S1:169:SER:O	3:S1:173:THR:HG23	2.78	0.56
3:S1:184:LEU:O	3:S1:188:LEU:N	2.90	0.56
3:S1:51:SER:HA	3:S1:57:ALA:H	1.70	0.56
4:S2:152:HIS:H	4:S2:152:HIS:CD2	2.58	0.56
17:C5:130:ARG:HD3	35:SM:74:LYS:HG2	1.87	0.56
36:1:888:A:H2'	36:1:889:U:O4'	2.06	0.56
1:2:1257:U:H2'	12:C0:2:LEU:HD12	1.87	0.56
1:2:1648:A:H2'	1:2:1649:G:H8	1.71	0.56
36:5:1877:U:C5'	36:5:1878:G:H5'	2.35	0.56
36:5:2217:U:H2'	36:5:2218:G:H8	1.70	0.56
36:5:3358:U:H2'	36:5:3359:A:H8	1.69	0.56
36:5:1502:C:OP1	85:5:3415:OHX:N3	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:523:G:O2'	1:6:529:A:N6	2.38	0.56
16:C4:123:SER:HB2	1:6:885:G:N2	286.34	0.56
48:M1:137:ARG:HD3	37:7:28:C:OP1	303.79	0.56
13:C1:14:GLN:HB3	13:C1:54:ILE:HG13	4.37	0.56
40:L3:199:PHE:C	40:L3:201:LYS:H	2.23	0.56
40:L3:230:THR:HA	40:L3:235:THR:HB	1.87	0.56
41:L4:24:ALA:O	41:L4:26:PHE:N	3.08	0.56
36:1:598:A:H1'	41:L4:322:GLN:HE22	1.71	0.56
46:L9:67:ALA:HA	46:L9:70:THR:HG23	1.88	0.56
49:M3:35:ARG:O	49:M3:39:ARG:HB2	3.40	0.56
50:M4:55:ARG:HD3	56:N0:70:THR:OG1	3.01	0.56
52:M6:175:THR:HA	52:M6:178:VAL:HB	1.86	0.56
71:O5:45:LYS:O	71:O5:49:LYS:HG2	4.66	0.56
10:S8:22:ARG:CZ	10:S8:25:ARG:HD2	3.53	0.56
34:SR:184:ASN:O	34:SR:185:GLN:NE2	6.26	0.56
36:1:107:A:H1'	36:1:325:A:N3	2.21	0.56
36:1:1409:G:N7	85:1:3603:OHX:N3	2.54	0.56
1:2:1062:A:OP2	85:2:2043:OHX:N4	2.38	0.56
37:3:11:A:N6	42:L5:13:SER:O	2.38	0.56
38:4:67:U:H5''	73:O7:84:SER:O	2.05	0.56
36:5:2818:U:H6	36:5:2818:U:H5'	1.70	0.56
36:5:2971:A:H3'	36:5:2971:A:N3	2.20	0.56
36:5:345:G:H1'	38:8:24:G:H22	1.69	0.56
36:5:408:A:N6	38:8:15:G:H1'	2.20	0.56
21:C9:69:LYS:NZ	1:6:1369:U:OP2	438.17	0.56
1:6:1239:U:O4	85:6:1951:OHX:N5	2.38	0.56
1:6:578:U:O2	85:6:2008:OHX:N3	2.38	0.56
14:C2:74:LEU:HD11	33:E1:106:TYR:HD1	1.69	0.56
23:D1:77:GLY:O	23:D1:78:LEU:HD13	6.85	0.56
40:L3:41:VAL:HA	40:L3:185:GLY:CA	2.50	0.56
43:L6:7:PRO:HD3	68:O2:74:PHE:HE1	2.75	0.56
47:M0:210:ILE:HG23	47:M0:217:PHE:CD2	2.55	0.56
50:M4:96:ALA:HA	50:M4:101:LYS:HE3	4.55	0.56
50:M4:21:VAL:HB	50:M4:63:VAL:HG13	1.91	0.56
61:N5:108:LEU:HG	61:N5:127:THR:HG22	3.18	0.56
63:N7:100:THR:HG22	63:N7:106:GLN:HB3	4.36	0.56
64:N8:114:GLY:HA3	64:N8:133:LEU:HD12	3.74	0.56
64:N8:93:SER:OG	64:N8:93:SER:O	2.22	0.56
3:S1:158:SER:O	3:S1:162:ARG:HG3	2.05	0.56
3:S1:137:ILE:HD12	3:S1:172:LEU:HD22	1.87	0.56
6:S4:125:LYS:HE3	6:S4:157:ASN:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:43:PRO:HA	6:S4:82:TYR:O	2.06	0.56
35:SM:140:ASP:OD1	35:SM:140:ASP:N	2.39	0.56
36:1:643:U:O2'	36:1:1153:A:N1	2.31	0.56
85:1:3540:OHX:N6	85:1:3711:OHX:N1	2.54	0.56
1:2:1160:A:OP2	18:C6:142:TYR:OH	2.23	0.56
1:2:851:U:H2'	1:2:852:C:C6	2.41	0.56
45:L8:128:LYS:HG3	36:5:120:G:C5	98.68	0.56
36:5:1236:G:N2	36:5:1244:A:OP1	2.34	0.56
36:5:54:C:O2'	36:5:1547:G:H1'	2.05	0.56
36:5:2761:G:H1'	36:5:2800:G:N2	2.21	0.56
1:6:329:G:H2'	1:6:330:G:H8	1.71	0.56
1:6:626:U:H2'	1:6:627:C:H6	1.70	0.56
24:D2:70:ASN:HB2	24:D2:130:TYR:O	2.46	0.56
28:D6:5:ARG:NH2	1:6:1793:G:O2'	336.62	0.56
40:L3:266:ARG:HH22	36:5:2392:C:HO2'	208.61	0.56
41:L4:361:HIS:CG	41:L4:362:ASP:N	2.84	0.56
44:L7:51:TYR:HA	44:L7:54:GLU:HB3	1.88	0.56
44:L7:92:ILE:HD11	54:M8:4:ASP:HB2	1.86	0.56
46:L9:37:ASN:ND2	46:L9:39:LYS:HD3	4.63	0.56
56:N0:151:PRO:C	56:N0:153:PRO:HD3	2.75	0.56
61:N5:80:ASN:ND2	61:N5:126:LEU:HB2	2.39	0.56
71:O5:118:ILE:O	71:O5:119:LYS:HB2	2.31	0.56
4:S2:218:ILE:O	4:S2:221:THR:OG1	2.22	0.56
9:S7:91:ILE:HD12	9:S7:92:PHE:H	3.37	0.56
35:SM:23:LYS:HZ2	35:SM:24:GLU:H	7.71	0.56
36:1:2746:A:H2	42:L5:146:LEU:HB3	1.70	0.56
36:1:2986:U:H2'	36:1:2987:A:C8	2.41	0.56
36:1:1171:G:O6	85:1:3495:OHX:N2	2.38	0.56
36:1:945:C:OP1	68:O2:33:ARG:HG3	2.06	0.56
1:2:1474:G:H2'	1:2:1475:A:C8	2.40	0.56
1:2:505:A:N3	1:2:505:A:H2'	2.20	0.56
41:L4:221:ASN:OD1	36:5:211:A:H3'	79.03	0.56
39:L2:18:SER:HB2	36:5:2173:U:H5''	183.01	0.56
36:5:2407:C:H1'	36:5:2818:U:O2	2.05	0.56
36:5:2822:U:H2'	36:5:2823:G:O4'	2.06	0.56
36:5:964:G:H2'	36:5:965:A:C8	2.41	0.56
1:6:366:A:OP1	1:6:758:U:O2'	2.13	0.56
1:6:73:U:H2'	1:6:74:U:C6	2.41	0.56
1:6:846:G:H2'	1:6:847:A:C8	2.41	0.56
12:C0:74:GLU:O	12:C0:77:ARG:HB3	2.06	0.56
17:C5:34:VAL:HG21	17:C5:45:PHE:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:87:PRO:HB2	26:D4:90:ARG:HG3	1.86	0.56
40:L3:229:VAL:HG11	40:L3:249:VAL:HG23	1.88	0.56
43:L6:18:LEU:H	43:L6:18:LEU:HD22	1.71	0.56
51:M5:118:SER:HB3	51:M5:132:VAL:HG13	1.88	0.56
65:N9:20:GLY:O	65:N9:21:ILE:HB	2.29	0.56
3:S1:180:THR:HG22	3:S1:181:LEU:H	1.70	0.56
3:S1:97:LEU:HD13	3:S1:98:THR:H	1.71	0.56
6:S4:153:ASN:HB2	6:S4:172:PHE:HZ	2.66	0.56
7:S5:222:LYS:HA	7:S5:225:ARG:HH11	4.59	0.56
9:S7:107:ARG:HH22	1:6:741:C:H2'	345.28	0.56
9:S7:130:VAL:HG11	9:S7:154:LEU:HD21	3.44	0.56
36:1:2357:A:H2'	36:1:2358:A:H8	1.71	0.56
37:3:112:G:H2'	37:3:113:C:C6	2.41	0.56
36:5:1064:A:H4'	36:5:1065:A:O5'	2.05	0.56
1:6:1533:C:H4'	1:6:1539:G:N1	2.21	0.56
42:L5:56:THR:HG21	37:7:26:C:H5''	295.34	0.56
15:C3:84:ILE:HG22	15:C3:135:LEU:HD21	1.88	0.56
16:C4:29:HIS:HB3	16:C4:41:ARG:HG3	1.88	0.56
39:L2:47:GLN:HA	39:L2:84:THR:HG22	2.47	0.56
42:L5:61:ILE:HG12	42:L5:79:TYR:HD1	1.71	0.56
43:L6:158:TYR:CE1	50:M4:115:PHE:HA	2.41	0.56
49:M3:75:PHE:O	49:M3:79:GLU:HB2	2.06	0.56
49:M3:79:GLU:HG3	49:M3:109:PHE:CD2	2.40	0.56
46:L9:4:ILE:HG23	56:N0:142:GLN:OE1	3.70	0.56
62:N6:89:LYS:NZ	36:5:375:A:O5'	76.07	0.56
72:O6:57:LEU:O	72:O6:61:ILE:HG13	2.06	0.56
36:1:1750:A:H4'	36:1:1751:G:H5'	1.88	0.56
36:1:2273:G:N7	85:1:3677:OHX:N6	2.54	0.56
36:1:2677:G:H2'	36:1:2679:A:H2	1.69	0.56
36:1:1733:G:OP2	85:1:3451:OHX:N6	2.39	0.56
36:1:1019:G:O6	85:1:3595:OHX:N2	2.38	0.56
85:1:3509:OHX:N6	85:1:3695:OHX:N4	2.54	0.56
36:1:52:A:H5''	36:1:53:G:OP2	2.06	0.56
1:2:1183:A:C6	1:2:1184:A:N1	2.74	0.56
1:2:625:C:H2'	1:2:626:U:C6	2.41	0.56
1:2:853:G:O6	55:M9:173:ARG:NH2	2.39	0.56
38:4:87:G:OP2	71:O5:7:TYR:OH	2.18	0.56
36:5:192:C:H2'	36:5:193:C:C6	2.41	0.56
36:5:2826:U:O4	85:5:3403:OHX:N6	2.39	0.56
36:5:3041:U:H2'	36:5:3042:U:H6	1.70	0.56
36:5:2823:G:N7	85:5:3455:OHX:N2	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2248:C:OP2	85:5:3480:OHX:N6	2.39	0.56
55:M9:92:GLN:NE2	36:5:856:G:OP1	218.36	0.56
1:6:1650:U:H2'	1:6:1651:A:C8	2.41	0.56
1:6:250:C:H2'	1:6:251:A:C8	2.41	0.56
6:S4:187:ARG:NH1	1:6:753:A:N7	374.69	0.56
21:C9:61:VAL:O	21:C9:65:ILE:HG13	2.06	0.56
23:D1:69:LEU:O	23:D1:73:ALA:N	2.84	0.56
30:D8:14:LYS:O	30:D8:29:ARG:N	3.71	0.56
36:1:2148:U:O2'	39:L2:182:ALA:HB2	2.06	0.56
65:N9:14:ARG:NH1	65:N9:18:ARG:HD3	3.35	0.56
65:N9:17:HIS:CD2	65:N9:21:ILE:HG12	3.74	0.56
66:O0:74:ASN:OD1	66:O0:74:ASN:N	2.84	0.56
63:N7:14:VAL:HG13	70:O4:86:LYS:HG2	1.86	0.56
36:1:73:C:C4	72:O6:15:LYS:HD3	2.41	0.56
36:1:2896:A:H4'	76:Q0:95:VAL:HG11	1.88	0.56
3:S1:72:ASP:OD2	16:C4:114:ARG:NH1	2.38	0.56
5:S3:59:LEU:HG	5:S3:63:GLY:HA2	1.87	0.56
18:C6:99:GLU:N	34:SR:58:VAL:O	3.05	0.56
36:1:2796:G:N7	78:Q2:63:LYS:NZ	2.54	0.56
36:1:501:A:H2'	36:1:502:U:C6	2.41	0.56
36:1:912:G:N7	39:L2:9:ARG:NH2	2.54	0.56
1:2:1508:U:O4	85:2:1909:OHX:N6	2.38	0.56
1:2:1682:U:O2'	1:2:1683:C:H5'	2.06	0.56
1:2:311:U:OP1	25:D3:24:TRP:NE1	2.31	0.56
1:2:478:A:O2'	11:S9:124:HIS:ND1	2.28	0.56
36:5:1615:C:H2'	36:5:1616:U:H6	1.69	0.56
36:5:3089:C:H2'	36:5:3090:U:O4'	2.06	0.56
40:L3:102:LEU:O	36:5:3147:G:H4'	240.98	0.56
50:M4:77:ARG:NE	36:5:525:C:OP2	343.91	0.56
1:6:1680:G:O6	85:6:2043:OHX:N1	2.39	0.56
1:6:1150:G:O6	85:6:1969:OHX:N5	2.39	0.56
1:6:906:A:H2'	1:6:907:A:C8	2.41	0.56
13:C1:78:THR:OG1	13:C1:78:THR:O	2.21	0.56
18:C6:38:LEU:O	18:C6:45:ARG:NE	2.39	0.56
20:C8:42:TYR:HA	20:C8:85:PHE:HE1	1.71	0.56
42:L5:285:ARG:NH1	37:7:62:U:O3'	341.04	0.56
46:L9:91:ARG:NH2	46:L9:141:LYS:O	4.94	0.56
47:M0:46:PHE:CD1	47:M0:140:THR:HA	2.40	0.56
48:M1:141:ARG:NE	48:M1:143:ARG:O	2.39	0.56
36:1:2433:U:H1'	51:M5:125:SER:HB3	1.88	0.56
63:N7:41:ALA:O	63:N7:43:VAL:HG13	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:O2:67:SER:HB2	68:O2:68:PRO:HD2	1.88	0.56
72:O6:63:ASN:O	72:O6:65:GLY:N	4.95	0.56
76:Q0:106:ARG:HB2	76:Q0:106:ARG:NH1	3.78	0.56
46:L9:93:VAL:HG22	76:Q0:82:LEU:HD13	2.23	0.56
3:S1:144:ARG:HG2	3:S1:206:PRO:HB3	2.77	0.56
9:S7:151:LYS:HG3	9:S7:182:VAL:HG12	4.36	0.56
20:C8:145:ARG:HB2	35:SM:68:ARG:NH2	2.21	0.56
36:1:1461:A:O2'	36:1:1462:A:H5'	2.06	0.55
36:1:1636:U:H5''	63:N7:73:LYS:HZ2	1.72	0.55
36:1:2970:C:HO2'	36:1:2971:A:H2	1.53	0.55
36:1:98:G:O6	49:M3:11:LYS:HE2	2.06	0.55
1:2:1483:A:H2'	1:2:1484:G:C8	2.40	0.55
1:2:1670:G:N7	85:2:2001:OHX:N5	2.54	0.55
1:2:190:C:O2'	1:2:191:C:H5'	2.05	0.55
36:5:1786:G:H2'	36:5:1787:A:C8	2.41	0.55
36:5:2209:U:H4'	36:5:2210:G:OP1	2.06	0.55
8:S6:190:GLN:HE22	1:6:265:A:H62	338.65	0.55
38:8:53:A:H2'	38:8:54:A:H8	1.71	0.55
17:C5:75:PRO:HA	17:C5:93:VAL:HB	2.14	0.55
2:S0:52:LYS:HB3	23:D1:82:VAL:HG22	1.88	0.55
39:L2:83:HIS:CE1	39:L2:86:GLN:HB2	2.40	0.55
40:L3:21:ARG:HG2	40:L3:269:GLN:HG2	2.16	0.55
36:1:121:A:C2	45:L8:129:PRO:HB3	2.41	0.55
45:L8:134:TYR:CE2	45:L8:190:VAL:HG11	5.22	0.55
56:N0:74:ASN:HD21	56:N0:144:LEU:HD21	1.70	0.55
61:N5:60:TYR:OH	71:O5:26:LYS:HG3	2.07	0.55
70:O4:44:CYS:HA	70:O4:51:LEU:HD21	3.92	0.55
79:Q3:38:ASP:OD1	79:Q3:45:LYS:HB3	2.06	0.55
1:2:1473:U:O2'	7:S5:103:ASN:OD1	2.22	0.55
11:S9:92:LYS:O	11:S9:94:ASP:N	2.39	0.55
36:1:1620:U:H2'	36:1:1621:A:C8	2.42	0.55
36:1:1688:U:H2'	36:1:1689:U:C6	2.41	0.55
36:1:1747:G:OP1	74:O8:42:LYS:NZ	2.29	0.55
36:1:2768:U:H2'	36:1:2769:A:C8	2.41	0.55
36:1:3246:G:O6	85:1:3644:OHX:N4	2.39	0.55
1:2:1469:A:H2'	1:2:1470:C:C6	2.41	0.55
1:2:1590:G:H2'	1:2:1591:C:H6	1.71	0.55
1:2:471:A:OP2	85:2:1954:OHX:N4	2.40	0.55
36:5:3227:A:C6	36:5:3228:C:C4	2.94	0.55
36:5:568:G:N7	85:5:3441:OHX:N2	2.54	0.55
18:C6:7:VAL:HG12	18:C6:22:VAL:HB	5.92	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:88:LYS:NZ	19:C7:82:ASP:OD1	4.32	0.55
39:L2:95:SER:OG	39:L2:97:ASN:OD1	2.25	0.55
42:L5:29:ASP:O	42:L5:31:TYR:N	3.49	0.55
52:M6:18:ARG:O	52:M6:22:VAL:HG13	2.07	0.55
52:M6:12:LYS:HA	52:M6:40:GLU:O	2.07	0.55
64:N8:93:SER:O	64:N8:95:SER:N	3.62	0.55
71:O5:21:LEU:HG	71:O5:54:VAL:HG11	2.38	0.55
77:Q1:6:ARG:O	77:Q1:10:THR:HG23	2.06	0.55
2:S0:183:ARG:HG2	2:S0:191:ARG:HG2	9.72	0.55
2:S0:71:GLU:N	2:S0:71:GLU:OE2	2.37	0.55
6:S4:161:LYS:HB3	6:S4:170:THR:O	4.99	0.55
7:S5:57:SER:OG	7:S5:167:ARG:NH2	2.39	0.55
36:1:1128:U:H2'	36:1:1129:A:O4'	2.07	0.55
36:1:2960:C:OP1	85:1:3538:OHX:N4	2.39	0.55
36:1:3160:U:H2'	36:1:3161:C:C6	2.41	0.55
36:1:2627:C:OP1	85:1:3647:OHX:N6	2.39	0.55
36:1:2907:G:OP1	85:1:3727:OHX:N1	2.38	0.55
1:2:1247:U:OP2	85:2:2031:OHX:N2	2.39	0.55
1:2:794:U:O2'	1:2:795:U:O2	2.23	0.55
36:5:1119:C:OP2	85:5:3489:OHX:N2	2.39	0.55
68:O2:59:SER:OG	36:5:1405:U:OP2	185.33	0.55
36:5:2520:A:H2'	36:5:2521:U:C6	2.40	0.55
85:5:3480:OHX:N2	85:5:3703:OHX:N5	2.54	0.55
73:O7:10:LYS:NZ	36:5:819:U:OP1	164.59	0.55
1:6:1584:G:H22	1:6:1611:A:P	2.26	0.55
1:6:1767:G:OP1	1:6:1770:U:H4'	2.06	0.55
1:6:647:G:H22	1:6:687:G:H1	1.52	0.55
85:7:203:OHX:N4	85:7:211:OHX:N6	2.55	0.55
20:C8:20:THR:OG1	20:C8:21:ASN:N	2.39	0.55
39:L2:112:ILE:HD13	79:Q3:79:VAL:HG22	1.88	0.55
40:L3:211:GLN:NE2	40:L3:283:TYR:O	2.38	0.55
63:N7:36:HIS:CD2	63:N7:74:VAL:HG11	2.67	0.55
70:O4:25:THR:OG1	70:O4:27:GLY:N	3.14	0.55
74:O8:5:ILE:HG22	74:O8:54:LEU:HD13	1.88	0.55
9:S7:126:LEU:HB2	9:S7:173:TYR:HE2	4.72	0.55
11:S9:34:PHE:CE1	11:S9:105:LEU:HB3	2.41	0.55
34:SR:20:VAL:HG11	34:SR:310:ILE:HG12	2.39	0.55
34:SR:282:SER:H	34:SR:285:ALA:HB3	1.74	0.55
34:SR:22:SER:OG	34:SR:70:ASP:HA	2.97	0.55
36:1:209:A:H4'	36:1:211:A:N7	2.22	0.55
36:1:2254:U:H2'	36:1:2261:G:H22	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2987:A:H2'	36:1:2988:C:C6	2.42	0.55
36:1:3151:U:OP2	40:L3:132:LYS:NZ	2.32	0.55
36:1:739:G:O6	85:1:3454:OHX:N3	2.40	0.55
36:1:78:U:O4	36:1:107:A:H2	1.88	0.55
1:2:1681:A:H1'	8:S6:66:GLY:HA3	1.88	0.55
1:2:741:C:O2'	1:2:742:U:O4'	2.24	0.55
36:5:2412:G:H2'	36:5:2413:A:C8	2.41	0.55
36:5:2541:U:H4'	36:5:2542:U:OP1	2.06	0.55
85:5:3524:OHX:N3	85:5:3721:OHX:N1	2.53	0.55
14:C2:118:ALA:HA	1:6:1227:A:H3'	462.01	0.55
21:C9:3:GLY:HA3	1:6:1364:G:N2	430.39	0.55
1:6:630:A:H5''	1:6:631:G:OP2	2.06	0.55
1:6:961:U:H2'	1:6:962:C:C6	2.42	0.55
14:C2:42:ALA:HB2	14:C2:124:LYS:HD2	2.29	0.55
15:C3:128:TYR:O	15:C3:131:THR:N	2.69	0.55
30:D8:54:LEU:HD12	30:D8:55:VAL:H	3.52	0.55
39:L2:56:ALA:HB2	39:L2:130:SER:HA	2.21	0.55
40:L3:19:ARG:HB3	40:L3:232:ARG:HH12	2.04	0.55
40:L3:75:ALA:HB2	36:5:3049:A:C2	245.93	0.55
42:L5:22:ARG:HG2	42:L5:28:THR:OG1	2.05	0.55
42:L5:84:PRO:O	42:L5:87:GLY:N	2.39	0.55
36:1:779:G:OP1	54:M8:185:LYS:NZ	2.39	0.55
56:N0:12:ARG:HH11	56:N0:22:PRO:HD2	1.71	0.55
56:N0:77:VAL:HG13	56:N0:126:VAL:HG22	1.88	0.55
36:1:1809:A:OP1	63:N7:65:ARG:NH2	2.40	0.55
65:N9:31:SER:C	65:N9:33:LYS:H	2.09	0.55
73:O7:64:MET:O	73:O7:68:LYS:HG3	2.07	0.55
78:Q2:71:ARG:HB2	78:Q2:71:ARG:HH11	1.70	0.55
3:S1:126:THR:HG22	3:S1:136:ARG:HE	1.92	0.55
3:S1:58:SER:HA	3:S1:62:LYS:HD3	1.86	0.55
7:S5:62:VAL:HG13	7:S5:89:ILE:HG21	1.88	0.55
9:S7:9:LEU:HD21	9:S7:17:GLU:HB3	1.89	0.55
11:S9:37:LYS:HG2	11:S9:126:ARG:HH22	1.71	0.55
35:SM:23:LYS:HD2	35:SM:23:LYS:H	1.72	0.55
34:SR:90:ARG:HG2	34:SR:102:ARG:HG2	2.50	0.55
36:1:1579:C:N4	36:1:1580:A:H62	2.05	0.55
36:1:2104:A:H2'	36:1:2105:G:H8	1.71	0.55
36:1:209:A:H4'	36:1:211:A:C8	2.42	0.55
36:1:3041:U:OP1	59:N3:12:ARG:NH1	2.39	0.55
1:2:1546:G:OP1	20:C8:123:ARG:NH1	2.39	0.55
1:2:1570:A:OP1	85:2:2033:OHX:N5	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:472:U:H5''	11:S9:11:THR:HG23	1.87	0.55
1:2:75:U:H2'	1:2:76:A:O4'	2.06	0.55
36:5:1204:A:H2'	36:5:1205:A:H5'	1.89	0.55
36:5:1524:A:O2'	36:5:1526:U:OP2	2.18	0.55
39:L2:130:SER:OG	36:5:2179:C:O2'	215.75	0.55
51:M5:44:ARG:HH22	36:5:269:G:P	125.09	0.55
36:5:1734:G:O6	85:5:3471:OHX:N5	2.39	0.55
1:6:837:G:H2'	1:6:838:G:H8	1.72	0.55
1:6:913:G:H3'	1:6:914:G:H5'	1.89	0.55
12:C0:76:LEU:O	12:C0:80:LEU:N	2.47	0.55
13:C1:99:ARG:HB2	25:D3:12:ALA:HB2	1.89	0.55
25:D3:142:LYS:O	25:D3:144:ARG:NH1	10.42	0.55
41:L4:299:ILE:HG22	41:L4:300:ARG:O	2.07	0.55
41:L4:309:ARG:NH2	41:L4:312:VAL:HB	2.22	0.55
42:L5:109:THR:O	42:L5:112:LYS:N	2.39	0.55
49:M3:115:ARG:NH1	49:M3:146:PRO:O	2.39	0.55
51:M5:112:ASN:OD1	51:M5:112:ASN:N	3.02	0.55
51:M5:42:PRO:HG3	51:M5:61:ILE:HG13	1.89	0.55
54:M8:181:SER:HB3	36:5:2790:A:OP2	183.05	0.55
36:1:585:A:H4'	69:O3:72:THR:HB	1.87	0.55
71:O5:87:ALA:HA	71:O5:90:ARG:HG3	1.88	0.55
78:Q2:47:GLN:HE22	78:Q2:54:THR:H	3.55	0.55
10:S8:57:ALA:HB2	10:S8:177:GLY:HA2	1.88	0.55
36:1:1064:A:H5''	36:1:1066:G:O4'	2.07	0.55
36:1:1245:A:N6	36:1:1272:C:O2'	2.40	0.55
36:1:3251:U:H2'	36:1:3252:G:C8	2.42	0.55
36:1:1769:G:N7	85:1:3708:OHX:N2	2.55	0.55
37:3:94:C:H2'	37:3:95:A:H8	1.72	0.55
40:L3:53:MET:HE1	36:5:3047:U:O2'	235.53	0.55
36:5:3278:C:O2'	36:5:3279:A:OP2	2.20	0.55
36:5:994:G:O2'	36:5:1053:A:N6	2.35	0.55
1:6:1624:C:H2'	1:6:1625:C:C6	2.41	0.55
10:S8:33:PRO:HA	1:6:331:A:H5'	276.63	0.55
12:C0:56:LYS:HG3	12:C0:67:THR:HB	1.88	0.55
18:C6:125:GLU:OE2	18:C6:135:ARG:NH2	3.54	0.55
18:C6:37:THR:O	18:C6:45:ARG:NH1	3.57	0.55
26:D4:57:VAL:HG13	26:D4:60:PHE:HE2	1.71	0.55
20:C8:5:VAL:HG23	27:D5:42:LEU:HD23	1.89	0.55
27:D5:57:TYR:CE2	27:D5:68:ARG:HD3	5.47	0.55
45:L8:228:GLU:OE2	45:L8:231:LYS:NZ	5.37	0.55
47:M0:55:ASN:ND2	47:M0:162:GLN:OE1	2.58	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:70:THR:HG21	53:M7:81:ALA:HB3	3.28	0.55
55:M9:123:LEU:O	55:M9:127:SER:OG	2.23	0.55
66:O0:99:ASP:HB2	66:O0:103:THR:HG23	1.88	0.55
69:O3:19:SER:OG	69:O3:20:LYS:N	4.07	0.55
72:O6:42:SER:OG	72:O6:43:LEU:N	2.90	0.55
6:S4:31:PRO:HB2	6:S4:38:LEU:HD22	1.88	0.55
7:S5:36:ALA:HB1	7:S5:42:LEU:HD21	1.89	0.55
11:S9:122:VAL:O	11:S9:125:ALA:HB3	2.06	0.55
11:S9:38:ASN:HB2	11:S9:41:GLU:H	1.72	0.55
34:SR:22:SER:OG	34:SR:69:GLN:O	4.24	0.55
36:1:1727:G:OP1	79:Q3:44:LYS:NZ	2.34	0.55
36:1:2357:A:H2'	36:1:2358:A:C8	2.41	0.55
85:1:3509:OHX:N3	85:1:3695:OHX:N1	2.55	0.55
36:1:1221:A:OP2	85:1:3650:OHX:N6	2.40	0.55
1:2:1402:G:H2'	1:2:1403:C:H6	1.72	0.55
1:2:1555:A:OP2	17:C5:47:ARG:NH2	2.40	0.55
1:2:207:U:O2	10:S8:178:ARG:NH1	2.40	0.55
1:2:830:U:HO2'	1:2:831:U:H6	1.53	0.55
38:4:104:A:C8	38:4:105:A:C8	2.95	0.55
21:C9:122:ARG:NH2	1:6:1500:C:OP1	418.51	0.55
6:S4:108:ARG:HH22	1:6:788:A:H3'	393.34	0.55
1:6:828:U:H2'	1:6:829:A:H5''	1.89	0.55
17:C5:122:THR:HG21	1:6:1455:G:OP1	369.24	0.55
18:C6:50:GLU:OE1	18:C6:112:TYR:OH	3.38	0.55
19:C7:17:ILE:HD12	19:C7:57:LEU:HD12	2.30	0.55
24:D2:23:ARG:HD2	24:D2:66:ASN:HA	3.10	0.55
4:S2:230:TRP:CE2	24:D2:68:ARG:HD3	2.64	0.55
25:D3:86:PHE:HD1	25:D3:107:PHE:HZ	2.45	0.55
27:D5:94:LYS:HG2	27:D5:95:HIS:HB3	1.88	0.55
42:L5:103:LEU:O	42:L5:106:ALA:N	3.10	0.55
46:L9:122:LYS:HG2	46:L9:123:ILE:N	2.98	0.55
46:L9:20:ILE:HG23	46:L9:25:VAL:HG22	1.87	0.55
47:M0:11:TYR:O	47:M0:13:LYS:N	2.96	0.55
53:M7:24:VAL:HG12	53:M7:86:LYS:HG2	1.89	0.55
57:N1:57:TYR:CD1	57:N1:89:LEU:HD21	2.42	0.55
63:N7:41:ALA:HB2	63:N7:77:TYR:HE1	1.72	0.55
65:N9:14:ARG:NH2	65:N9:18:ARG:HD3	2.21	0.55
66:O0:28:LYS:HE2	36:5:1713:G:O6	237.02	0.55
74:O8:76:ASN:OD1	74:O8:77:ARG:N	3.73	0.55
2:S0:185:ARG:H	23:D1:44:ARG:HA	1.72	0.55
7:S5:149:VAL:HG12	7:S5:156:ARG:O	3.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:129:ILE:HA	11:S9:134:ILE:HD11	2.69	0.55
36:1:71:A:C2	36:1:2778:G:H1'	2.42	0.55
36:1:2992:U:OP1	36:1:3310:A:O2'	2.17	0.55
36:1:2234:G:N7	85:1:3581:OHX:N1	2.54	0.55
36:1:944:C:H4'	68:O2:33:ARG:NH1	2.20	0.55
37:3:3:U:H2'	37:3:4:U:C6	2.42	0.55
36:5:2801:A:O2'	36:5:2802:A:H2'	2.07	0.55
36:5:425:G:O6	85:5:3417:OHX:N3	2.40	0.55
36:5:535:G:O6	85:5:3588:OHX:N6	2.39	0.55
36:5:979:U:H1'	36:5:980:A:N9	2.20	0.55
13:C1:69:LYS:HB3	13:C1:71:LEU:HD21	3.17	0.55
22:D0:55:PRO:HA	22:D0:91:ILE:HG12	1.89	0.55
31:D9:25:SER:HB3	85:D9:102:OHX:N3	2.21	0.55
40:L3:265:ALA:C	40:L3:266:ARG:HG2	2.33	0.55
41:L4:328:ASN:OD1	44:L7:48:ASN:ND2	2.93	0.55
42:L5:261:THR:H	42:L5:264:GLN:NE2	3.67	0.55
43:L6:105:TYR:CE1	43:L6:134:ARG:HD2	2.42	0.55
47:M0:68:ALA:HA	47:M0:158:LYS:HG3	1.89	0.55
36:1:3308:C:O2	53:M7:69:ARG:HD3	2.06	0.55
54:M8:36:LEU:O	54:M8:40:THR:OG1	2.16	0.55
60:N4:6:ASP:O	60:N4:8:PHE:N	3.01	0.55
36:1:3276:G:H1	69:O3:60:ARG:HH12	1.53	0.55
69:O3:6:ARG:HG3	69:O3:8:TYR:CD1	3.06	0.55
70:O4:58:ARG:CG	70:O4:58:ARG:HH11	2.71	0.55
72:O6:26:ILE:O	72:O6:29:LYS:N	2.36	0.55
75:O9:21:ARG:CZ	75:O9:24:PRO:HG3	2.37	0.55
2:S0:84:ARG:HD3	2:S0:203:PHE:O	4.58	0.55
9:S7:123:ASP:OD1	9:S7:138:LYS:NZ	2.40	0.55
36:1:1294:A:O2'	36:1:1295:G:H5''	2.06	0.55
36:1:1344:G:H1	36:1:1360:C:N4	2.04	0.55
36:1:2214:A:N1	36:1:2429:G:O2'	2.37	0.55
36:1:3147:G:OP1	85:1:3644:OHX:N6	2.39	0.55
36:1:2318:U:O4	85:1:3577:OHX:N2	2.40	0.55
1:2:347:G:H5'	13:C1:80:MET:SD	2.46	0.55
1:2:83:G:OP2	85:2:1944:OHX:N5	2.40	0.55
36:5:21:G:OP2	38:8:36:G:N2	2.40	0.55
36:5:2533:G:N2	36:5:2546:C:O2	2.39	0.55
36:5:2249:G:OP1	85:5:3703:OHX:N6	2.39	0.55
36:5:655:C:H2'	36:5:656:A:C8	2.42	0.55
37:7:29:C:H42	37:7:49:G:H1	1.55	0.55
16:C4:56:SER:O	16:C4:59:ALA:N	3.09	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:55:GLY:HA2	17:C5:58:LYS:HD3	1.88	0.55
21:C9:73:VAL:HG21	21:C9:102:ARG:HG3	2.67	0.55
22:D0:20:ILE:HG13	22:D0:96:PRO:HA	3.12	0.55
26:D4:104:SER:HB3	26:D4:107:GLN:HB2	1.89	0.55
28:D6:51:ARG:NH2	30:D8:60:GLU:OE1	7.60	0.55
42:L5:152:ARG:NH1	42:L5:152:ARG:HG3	2.52	0.55
43:L6:166:LYS:N	43:L6:169:ASP:OD2	2.38	0.55
45:L8:180:VAL:HG22	45:L8:181:LYS:O	3.31	0.55
47:M0:62:SER:HA	47:M0:65:LEU:HD12	3.16	0.55
60:N4:38:SER:O	60:N4:42:GLN:HG3	2.19	0.55
49:M3:128:ARG:NH1	71:O5:109:ILE:O	3.65	0.55
78:Q2:6:LYS:HE2	78:Q2:94:GLY:HA2	1.89	0.55
3:S1:184:LEU:HD22	3:S1:187:LYS:HD2	1.88	0.55
4:S2:89:GLN:NE2	4:S2:94:GLN:HG3	2.22	0.55
5:S3:72:LEU:HD22	12:C0:65:TYR:HD1	2.19	0.55
36:1:1108:U:H2'	36:1:1109:U:H6	1.71	0.55
36:1:1170:A:H2'	36:1:1171:G:O4'	2.06	0.55
36:1:1176:C:H2'	36:1:1177:G:N2	2.21	0.55
36:1:3358:U:H2'	36:1:3359:A:O4'	2.06	0.55
1:2:488:G:OP1	1:2:488:G:H4'	2.07	0.55
1:2:885:G:H21	16:C4:123:SER:HB2	1.72	0.55
36:5:2157:G:N1	36:5:2178:A:OP2	2.30	0.55
36:5:2180:G:H2'	36:5:2181:C:C6	2.42	0.55
36:5:225:C:H2'	36:5:226:C:H6	1.71	0.55
36:5:873:C:H4'	36:5:874:U:OP2	2.06	0.55
39:L2:207:VAL:HG11	36:5:916:G:C6	185.13	0.55
1:6:1050:G:N2	1:6:1068:C:O2	2.31	0.55
1:6:106:U:H2'	1:6:107:C:O4'	2.07	0.55
1:6:138:A:N3	1:6:138:A:H5''	2.22	0.55
21:C9:91:TYR:OH	1:6:1469:A:OP1	363.93	0.55
10:S8:56:ARG:NH2	1:6:332:U:OP2	286.98	0.55
1:6:811:A:C2	1:6:858:G:H1'	2.42	0.55
27:D5:66:VAL:HG22	27:D5:71:ILE:HG22	5.81	0.55
28:D6:37:LYS:HA	28:D6:71:LEU:O	2.05	0.55
45:L8:45:ASN:ND2	45:L8:47:SER:HB3	2.22	0.55
46:L9:26:LYS:HG3	46:L9:35:THR:HG22	3.42	0.55
48:M1:23:VAL:O	48:M1:25:GLU:N	2.38	0.55
51:M5:178:HIS:O	51:M5:180:PHE:N	2.40	0.55
53:M7:92:GLN:HA	53:M7:95:LEU:HD12	1.87	0.55
64:N8:28:HIS:ND1	64:N8:32:ARG:HG3	4.26	0.55
54:M8:176:ARG:NH1	64:N8:46:ASP:OD1	3.30	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:N9:43:HIS:NE2	65:N9:47:LEU:HD11	2.21	0.55
77:Q1:13:LEU:HD11	77:Q1:17:ARG:CZ	2.37	0.55
3:S1:39:GLU:HB3	3:S1:73:LEU:O	2.07	0.55
5:S3:219:ALA:HB1	5:S3:220:PRO:HD2	1.88	0.55
34:SR:159:ASN:O	34:SR:161:LYS:N	4.30	0.55
34:SR:198:ASN:O	34:SR:215:GLY:HA3	2.21	0.55
36:1:1439:U:H2'	36:1:1440:G:H8	1.72	0.54
85:1:3495:OHX:N4	44:L7:217:PRO:HA	2.22	0.54
1:2:1798:U:C6	28:D6:97:PRO:HB3	2.42	0.54
1:2:545:A:H4'	1:2:546:U:OP1	2.08	0.54
1:2:549:G:OP2	85:2:1904:OHX:N2	2.40	0.54
36:5:1258:U:O2	36:5:1260:A:H8	1.90	0.54
36:5:1757:A:H2'	36:5:1758:G:C8	2.42	0.54
39:L2:200:ARG:NH1	36:5:2146:C:OP1	213.61	0.54
36:5:2171:G:H2'	36:5:2172:A:H8	1.72	0.54
36:5:247:C:N3	36:5:248:U:H1'	2.22	0.54
36:5:2612:U:H2'	36:5:2613:U:O4'	2.07	0.54
57:N1:22:HIS:ND1	36:5:2701:U:OP2	270.02	0.54
78:Q2:41:ARG:HH21	36:5:2785:A:H4'	162.26	0.54
41:L4:271:LYS:NZ	36:5:695:C:OP1	103.35	0.54
1:6:1382:A:O2'	1:6:1383:G:H5''	2.07	0.54
38:8:157:U:O2'	38:8:158:U:H5'	2.07	0.54
18:C6:140:LYS:NZ	1:6:1192:C:O2'	361.79	0.54
25:D3:30:LYS:O	25:D3:34:LEU:HG	2.06	0.54
30:D8:32:PHE:CE2	30:D8:40:ILE:HD13	6.16	0.54
40:L3:347:SER:HB3	40:L3:350:ALA:H	1.73	0.54
44:L7:52:GLN:O	44:L7:56:GLU:HG2	2.07	0.54
45:L8:156:ASP:HB2	45:L8:183:LYS:HD3	1.88	0.54
46:L9:47:LYS:HB2	50:M4:7:VAL:HB	1.89	0.54
51:M5:96:ARG:NH2	51:M5:104:GLU:OE1	3.47	0.54
53:M7:136:ILE:O	53:M7:137:ASN:ND2	2.57	0.54
60:N4:49:ILE:O	60:N4:52:THR:OG1	2.25	0.54
67:O1:41:LYS:HG3	67:O1:47:ASP:H	4.59	0.54
71:O5:5:LYS:O	71:O5:9:LEU:HG	2.36	0.54
3:S1:109:LYS:O	3:S1:112:SER:OG	2.64	0.54
3:S1:62:LYS:HD2	3:S1:91:VAL:HG11	1.89	0.54
4:S2:237:VAL:HB	4:S2:242:ILE:HD11	2.68	0.54
6:S4:159:THR:HG22	6:S4:173:ILE:HB	1.89	0.54
6:S4:88:ASP:OD1	6:S4:122:LYS:NZ	2.38	0.54
34:SR:172:ALA:HB2	34:SR:202:LEU:HD22	1.89	0.54
34:SR:258:THR:HB	34:SR:275:ARG:NH1	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3200:G:O6	85:1:3666:OHX:N4	2.40	0.54
36:1:609:G:C8	41:L4:310:THR:HG22	2.42	0.54
36:1:955:U:H2'	36:1:956:U:H6	1.72	0.54
1:2:327:U:H4'	13:C1:14:GLN:HE22	1.72	0.54
36:5:1018:G:H2'	36:5:1019:G:O4'	2.07	0.54
36:5:1540:U:OP1	85:5:3597:OHX:N2	2.40	0.54
36:5:1729:A:H4'	36:5:1730:G:OP2	2.07	0.54
69:O3:96:ALA:HB2	36:5:3173:G:C2	230.48	0.54
36:5:3285:C:H3'	36:5:3286:G:H5''	1.88	0.54
36:5:3155:U:OP1	85:5:3731:OHX:N4	2.40	0.54
36:5:847:A:H2'	36:5:848:A:C8	2.41	0.54
36:5:926:A:H2'	36:5:927:C:C6	2.42	0.54
1:6:1579:U:OP2	85:6:2036:OHX:N6	2.40	0.54
1:6:1690:G:H1	1:6:1711:C:H42	1.52	0.54
1:6:852:C:H2'	1:6:853:G:C8	2.42	0.54
1:6:870:C:H42	1:6:957:G:H1	1.55	0.54
1:6:965:U:H5'	1:6:966:A:C8	2.41	0.54
14:C2:49:THR:O	14:C2:53:THR:OG1	3.58	0.54
21:C9:66:TYR:HE2	21:C9:129:GLN:HG3	4.55	0.54
24:D2:103:ILE:HD13	24:D2:126:LEU:HB2	1.89	0.54
31:D9:14:TYR:OH	1:6:1553:G:O2'	401.73	0.54
43:L6:129:GLU:HG2	43:L6:130:ILE:H	3.21	0.54
45:L8:91:PHE:CZ	45:L8:185:ARG:HB3	2.90	0.54
51:M5:21:PHE:O	51:M5:25:VAL:HG23	2.26	0.54
52:M6:10:ASP:HB2	52:M6:117:ARG:HG3	1.88	0.54
61:N5:58:ASP:OD1	71:O5:25:LYS:NZ	2.37	0.54
85:1:3406:OHX:N2	73:O7:46:SER:OG	2.41	0.54
2:S0:191:ARG:O	2:S0:193:GLN:N	2.39	0.54
4:S2:94:GLN:O	4:S2:96:THR:HG22	2.08	0.54
5:S3:162:GLN:O	5:S3:164:VAL:N	2.89	0.54
10:S8:36:THR:OG1	10:S8:96:LEU:O	2.24	0.54
10:S8:56:ARG:HH22	1:6:332:U:P	287.92	0.54
11:S9:110:GLN:HA	11:S9:129:ILE:HD11	1.89	0.54
11:S9:171:ARG:HH11	11:S9:174:ARG:HB3	5.39	0.54
36:1:1635:G:N2	36:1:1638:A:OP2	2.36	0.54
36:1:1808:G:OP2	63:N7:133:LYS:NZ	2.40	0.54
36:1:1863:G:N1	36:1:1866:C:OP2	2.34	0.54
36:1:2572:C:O2'	36:1:2573:G:O4'	2.25	0.54
36:1:821:U:OP2	85:1:3517:OHX:N3	2.40	0.54
1:2:1183:A:C4	17:C5:100:LYS:HD3	2.42	0.54
1:2:1483:A:C2	1:2:1607:G:H1'	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2425:G:H2'	36:5:2426:U:O4'	2.07	0.54
78:Q2:10:THR:OG1	36:5:2714:G:OP2	218.83	0.54
36:5:284:A:H4'	36:5:285:A:N3	2.22	0.54
36:5:3027:A:H2'	36:5:3028:G:O4'	2.07	0.54
40:L3:154:TYR:CD1	36:5:3242:G:H2'	260.79	0.54
36:5:3242:G:H5'	36:5:3245:A:C8	2.36	0.54
8:S6:13:GLN:NE2	1:6:151:G:H21	312.86	0.54
38:8:43:A:OP1	85:8:212:OHX:N3	2.40	0.54
16:C4:19:ILE:HB	16:C4:83:ILE:HD12	1.89	0.54
17:C5:77:ARG:HB3	17:C5:102:PHE:CE1	2.66	0.54
20:C8:28:ILE:HA	20:C8:31:ALA:HB3	1.89	0.54
1:2:1590:G:OP1	21:C9:91:TYR:HB2	2.07	0.54
24:D2:107:SER:HA	1:6:804:A:C8	367.73	0.54
27:D5:39:ALA:HB1	27:D5:71:ILE:N	2.22	0.54
28:D6:84:VAL:HG13	28:D6:85:ARG:H	1.72	0.54
29:D7:37:CYS:O	29:D7:39:GLY:N	2.39	0.54
39:L2:225:ILE:HG21	39:L2:234:LYS:HA	1.89	0.54
41:L4:288:ARG:O	41:L4:291:ASN:N	3.30	0.54
48:M1:110:ILE:O	48:M1:112:LEU:N	2.65	0.54
54:M8:60:PRO:HG3	54:M8:144:ARG:HG2	2.30	0.54
57:N1:158:THR:OG1	57:N1:159:PHE:N	2.40	0.54
67:O1:25:PHE:O	67:O1:27:LYS:N	2.64	0.54
68:O2:24:ARG:HD3	68:O2:25:TYR:CZ	2.43	0.54
70:O4:74:ARG:CZ	70:O4:74:ARG:HB3	2.34	0.54
71:O5:70:TYR:O	71:O5:73:LYS:HG2	2.07	0.54
76:Q0:114:LYS:HG2	76:Q0:115:CYS:N	2.42	0.54
2:S0:76:ILE:HG12	2:S0:98:ILE:HB	2.14	0.54
8:S6:137:ARG:HB3	8:S6:140:ASN:HB2	2.19	0.54
20:C8:125:ILE:HG12	35:SM:61:ILE:HG23	1.89	0.54
36:1:2158:A:H4'	36:1:2159:U:H5''	1.89	0.54
36:1:2355:G:H4'	53:M7:139:TYR:CE2	2.42	0.54
36:1:3278:C:H2'	36:1:3278:C:O2	2.07	0.54
36:1:3306:U:H2'	36:1:3307:A:H5''	1.89	0.54
85:1:3509:OHX:N6	85:1:3695:OHX:N2	2.56	0.54
36:1:517:G:P	44:L7:60:ARG:HH22	2.30	0.54
36:1:897:U:H2'	36:1:898:U:H6	1.72	0.54
1:2:1388:A:H4'	1:2:1389:C:O5'	2.06	0.54
1:2:1390:U:OP2	19:C7:49:LYS:HD2	2.07	0.54
1:2:1393:C:H42	1:2:1405:G:H1	1.56	0.54
36:5:2704:A:OP2	85:5:3401:OHX:N5	2.41	0.54
36:5:1930:A:O2'	85:5:3430:OHX:N3	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:647:G:O5'	1:6:647:G:H8	1.90	0.54
18:C6:55:VAL:HG21	18:C6:105:LEU:HG	1.96	0.54
20:C8:17:LEU:O	20:C8:19:ASN:N	3.14	0.54
22:D0:58:LEU:HD12	22:D0:88:LYS:HB3	1.89	0.54
25:D3:69:ARG:NH1	25:D3:116:ASP:OD1	2.76	0.54
39:L2:188:LYS:O	39:L2:192:LYS:HD2	2.07	0.54
49:M3:100:ARG:O	49:M3:101:ARG:HB3	4.69	0.54
52:M6:73:PHE:CD1	52:M6:78:ARG:HD3	2.43	0.54
36:1:972:A:OP1	54:M8:12:ARG:NH2	2.41	0.54
55:M9:175:GLN:HA	55:M9:178:ALA:HB3	1.89	0.54
55:M9:21:LYS:O	55:M9:53:LYS:HB2	2.07	0.54
56:N0:12:ARG:NH1	56:N0:22:PRO:HD2	2.23	0.54
5:S3:58:VAL:O	5:S3:66:ILE:HG12	2.08	0.54
6:S4:150:PRO:HB2	6:S4:154:ILE:HD12	1.89	0.54
8:S6:156:PHE:CD2	60:N4:93:ARG:HD2	5.97	0.54
9:S7:33:GLU:O	9:S7:35:LYS:N	3.53	0.54
34:SR:132:LYS:HG2	34:SR:143:THR:HG23	1.90	0.54
36:1:1019:G:H2'	36:1:1020:G:O4'	2.06	0.54
36:1:1686:U:O2	36:1:1688:U:H1'	2.07	0.54
36:1:2734:A:OP1	85:1:3543:OHX:N3	2.41	0.54
36:1:3266:G:H2'	36:1:3267:A:C8	2.43	0.54
36:1:2976:A:OP1	85:1:3657:OHX:N6	2.41	0.54
1:2:306:U:H2'	1:2:307:G:C8	2.43	0.54
1:2:585:A:H2'	1:2:586:G:C8	2.43	0.54
1:2:641:G:H2'	1:2:642:G:H8	1.72	0.54
37:3:27:A:OP1	42:L5:57:ASN:N	2.40	0.54
36:5:1792:C:H5"	36:5:1793:C:OP2	2.06	0.54
36:5:2157:G:N2	36:5:2177:G:O2'	2.41	0.54
1:6:1727:G:O6	85:6:1914:OHX:N2	2.41	0.54
1:6:749:U:H2'	1:6:750:U:C6	2.43	0.54
12:C0:50:THR:HG22	12:C0:55:VAL:HG22	1.94	0.54
15:C3:23:PRO:HD2	15:C3:26:PHE:HB3	1.89	0.54
18:C6:63:ILE:HD12	18:C6:65:ILE:HD11	1.88	0.54
20:C8:33:THR:HA	20:C8:38:VAL:HG23	2.51	0.54
21:C9:57:ARG:HH11	21:C9:57:ARG:HB2	1.73	0.54
27:D5:57:TYR:HB3	27:D5:60:VAL:HG12	1.89	0.54
27:D5:70:LYS:HG3	27:D5:71:ILE:H	1.73	0.54
39:L2:33:ASP:O	39:L2:37:ARG:HG2	2.06	0.54
39:L2:29:LEU:HA	39:L2:76:PHE:HE1	2.64	0.54
36:1:2524:A:C4	45:L8:46:LEU:HD21	2.42	0.54
36:1:3261:C:OP1	50:M4:126:GLN:NE2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:16:GLY:O	63:N7:19:ALA:N	2.41	0.54
63:N7:3:LYS:O	63:N7:5:LEU:N	2.40	0.54
66:O0:26:GLY:O	66:O0:30:THR:HG23	2.14	0.54
79:Q3:49:ARG:HD3	79:Q3:51:ALA:H	1.73	0.54
79:Q3:83:ILE:HG22	79:Q3:87:ARG:HH12	1.73	0.54
3:S1:157:GLN:NE2	1:6:874:C:H5''	324.61	0.54
2:S0:140:ASN:ND2	4:S2:60:SER:O	2.24	0.54
6:S4:176:ASP:H	6:S4:179:LYS:HD2	1.70	0.54
6:S4:35:PRO:HD2	6:S4:83:PRO:HG2	1.88	0.54
8:S6:109:LEU:HD13	8:S6:111:LEU:HD21	1.88	0.54
34:SR:112:SER:HB2	34:SR:153:GLN:HA	2.49	0.54
36:1:1109:U:H2'	36:1:1110:U:C6	2.42	0.54
36:1:1308:A:H8	36:1:1308:A:OP2	1.91	0.54
36:1:225:C:H2'	36:1:226:C:H6	1.72	0.54
36:1:2419:A:H2'	36:1:2420:C:H6	1.72	0.54
36:1:2443:A:N6	36:1:2504:U:C4	2.76	0.54
36:1:2910:A:N1	85:1:3410:OHX:N1	2.56	0.54
36:1:3082:C:H2'	36:1:3083:G:C8	2.42	0.54
1:2:324:U:OP1	13:C1:133:LYS:NZ	2.40	0.54
36:5:1013:G:C2	36:5:1014:U:H1'	2.43	0.54
36:5:1033:U:H2'	36:5:1034:U:H5'	1.90	0.54
36:5:1069:C:H2'	36:5:1070:U:H6	1.73	0.54
36:5:1249:G:H2'	36:5:1250:G:C8	2.42	0.54
36:5:3280:U:O2'	36:5:3281:U:H5''	2.08	0.54
36:5:1345:G:N7	85:5:3570:OHX:N5	2.56	0.54
1:6:607:G:OP2	1:6:613:G:N1	2.40	0.54
1:6:845:G:H2'	1:6:846:G:H8	1.73	0.54
1:2:1544:U:OP1	20:C8:136:GLN:NE2	2.40	0.54
1:2:1500:C:OP1	21:C9:122:ARG:NH2	2.40	0.54
22:D0:63:LEU:HD23	22:D0:84:MET:HB3	6.07	0.54
27:D5:71:ILE:CG2	27:D5:76:ALA:HB2	3.70	0.54
44:L7:229:PHE:HD1	44:L7:229:PHE:C	2.52	0.54
46:L9:48:VAL:HG11	46:L9:52:LEU:HD13	1.89	0.54
46:L9:65:VAL:O	46:L9:67:ALA:N	2.41	0.54
36:1:290:G:H4'	51:M5:69:GLY:O	2.07	0.54
51:M5:94:TYR:CE1	51:M5:96:ARG:HB2	2.42	0.54
52:M6:27:LEU:HD13	52:M6:98:ALA:O	2.48	0.54
54:M8:93:ILE:HG23	36:5:784:A:C6	150.77	0.54
65:N9:5:LYS:HG3	65:N9:6:ASN:H	1.73	0.54
68:O2:120:THR:O	68:O2:122:PRO:HD3	2.07	0.54
49:M3:128:ARG:NH2	71:O5:109:ILE:O	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:O7:65:ARG:HG3	73:O7:65:ARG:NH1	2.23	0.54
3:S1:112:SER:OG	3:S1:113:MET:N	2.39	0.54
3:S1:52:THR:OG1	3:S1:53:GLY:N	3.99	0.54
5:S3:168:ILE:HG22	5:S3:189:MET:HB2	1.89	0.54
6:S4:191:ARG:CZ	6:S4:245:LYS:HD2	4.88	0.54
7:S5:142:PRO:HG2	7:S5:170:GLN:HE22	2.11	0.54
35:SM:72:ARG:NH1	1:6:1460:A:O2'	322.24	0.54
36:1:1017:C:O2'	36:1:1018:G:OP2	2.23	0.54
36:1:1715:A:H4'	36:1:1716:U:OP1	2.06	0.54
1:2:1796:C:O5'	28:D6:5:ARG:NH1	2.40	0.54
1:2:482:U:H2'	1:2:483:A:C8	2.42	0.54
1:2:485:A:H2'	1:2:486:G:O4'	2.08	0.54
37:3:11:A:O2'	37:3:13:A:OP2	2.24	0.54
36:5:2278:C:C2	36:5:2307:G:N2	2.75	0.54
47:M0:24:ARG:NH2	36:5:2648:G:OP1	266.17	0.54
36:5:1114:U:OP2	85:5:3511:OHX:N5	2.41	0.54
1:6:138:A:N6	1:6:266:A:H61	2.06	0.54
38:8:103:G:O6	85:8:205:OHX:N5	2.41	0.54
38:8:80:A:H2	38:8:83:C:H41	1.56	0.54
12:C0:28:ASN:OD1	12:C0:28:ASN:N	2.88	0.54
17:C5:48:GLY:O	17:C5:52:LYS:HD3	2.08	0.54
22:D0:70:THR:HG23	1:6:1280:C:O2'	388.76	0.54
23:D1:17:CYS:SG	23:D1:19:ALA:HB3	2.48	0.54
24:D2:114:GLU:O	24:D2:117:ARG:HB3	2.39	0.54
32:E0:38:LEU:HD23	32:E0:42:ARG:HG3	1.88	0.54
40:L3:211:GLN:HE21	40:L3:284:ARG:HA	1.91	0.54
40:L3:293:ASN:HB2	40:L3:305:ILE:N	3.02	0.54
42:L5:286:VAL:HG13	47:M0:206:LEU:HD21	2.80	0.54
43:L6:129:GLU:HG2	43:L6:130:ILE:N	3.92	0.54
44:L7:228:SER:O	44:L7:229:PHE:HB3	4.26	0.54
52:M6:127:LEU:HD11	56:N0:168:PRO:HG3	1.88	0.54
56:N0:28:ARG:HH11	56:N0:99:ARG:NE	2.05	0.54
57:N1:51:GLY:HA3	57:N1:92:ARG:HG3	3.01	0.54
68:O2:33:ARG:HH11	36:5:944:C:H4'	161.76	0.54
2:S0:109:ASN:O	2:S0:112:THR:HG22	2.08	0.54
3:S1:201:THR:HG21	3:S1:207:LEU:HD22	1.88	0.54
6:S4:117:GLU:O	6:S4:120:SER:OG	2.18	0.54
7:S5:162:VAL:HG23	7:S5:166:ARG:HB3	2.32	0.54
7:S5:42:LEU:HB2	7:S5:46:TRP:O	2.07	0.54
7:S5:56:ALA:O	7:S5:57:SER:OG	2.23	0.54
1:2:169:A:OP1	8:S6:137:ARG:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:171:SER:OG	34:SR:179:LYS:HB2	2.08	0.54
36:1:1103:A:N3	36:1:1103:A:H2'	2.21	0.54
36:1:2219:A:H2'	36:1:2220:A:H8	1.71	0.54
36:1:3294:A:H2'	36:1:3295:A:O4'	2.07	0.54
36:1:1790:G:O6	85:1:3707:OHX:N4	2.40	0.54
1:2:356:G:OP2	85:2:1914:OHX:N6	2.40	0.54
1:2:535:A:OP1	11:S9:168:ARG:NH1	2.37	0.54
36:5:1613:A:H2'	36:5:1614:C:C6	2.43	0.54
36:5:3082:C:OP2	85:5:3443:OHX:N4	2.41	0.54
36:5:818:C:N3	36:5:920:A:H5'	2.22	0.54
85:6:1914:OHX:N2	85:6:2001:OHX:N6	2.55	0.54
1:6:993:A:H2'	1:6:994:G:O4'	2.08	0.54
21:C9:126:GLU:CD	21:C9:126:GLU:H	2.11	0.54
21:C9:52:GLY:HA2	21:C9:55:TYR:CD2	2.61	0.54
25:D3:30:LYS:HE3	25:D3:34:LEU:HD11	1.90	0.54
29:D7:11:THR:C	29:D7:13:ALA:H	2.11	0.54
31:D9:19:ARG:O	31:D9:20:GLN:HB3	2.07	0.54
32:E0:14:VAL:O	32:E0:18:THR:HG23	2.07	0.54
39:L2:159:SER:O	39:L2:162:ALA:N	3.05	0.54
41:L4:203:ARG:HH21	41:L4:240:PRO:HB3	2.30	0.54
41:L4:282:SER:OG	41:L4:283:THR:N	2.69	0.54
42:L5:48:LYS:HD2	42:L5:145:PHE:CE2	4.93	0.54
44:L7:88:ARG:HH12	44:L7:92:ILE:HA	2.15	0.54
46:L9:90:MET:HB2	46:L9:144:ILE:HG22	1.89	0.54
47:M0:30:LYS:HG3	47:M0:63:GLU:HB3	3.56	0.54
47:M0:80:SER:O	47:M0:84:ALA:HB2	2.54	0.54
52:M6:45:GLY:O	52:M6:136:THR:OG1	2.22	0.54
63:N7:132:SER:O	63:N7:132:SER:OG	2.21	0.54
66:O0:81:VAL:HG23	66:O0:83:LYS:HB2	1.90	0.54
66:O0:58:TYR:OH	70:O4:97:GLU:OE2	2.17	0.54
78:Q2:12:CYS:SG	78:Q2:74:CYS:HB2	2.85	0.54
3:S1:118:GLN:OE1	3:S1:208:GLN:NE2	3.25	0.54
5:S3:105:MET:HG2	5:S3:122:VAL:HG21	2.14	0.54
6:S4:121:TYR:CD2	6:S4:161:LYS:HE3	2.43	0.54
7:S5:152:GLY:O	7:S5:154:ALA:N	2.41	0.54
7:S5:23:VAL:O	7:S5:34:GLN:NE2	2.55	0.54
7:S5:62:VAL:HG13	7:S5:89:ILE:HG12	2.07	0.54
8:S6:57:ASP:HA	8:S6:106:LEU:HA	1.89	0.54
1:2:1274:C:C5	35:SM:95:SER:HA	2.43	0.54
36:1:3192:U:H2'	36:1:3193:C:C6	2.43	0.54
36:1:3281:U:H2'	36:1:3282:U:C6	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:590:G:C2	36:1:610:G:H2'	2.42	0.54
1:2:1389:C:H4'	19:C7:49:LYS:HA	1.88	0.54
37:3:20:A:H2'	37:3:21:G:H8	1.73	0.54
38:4:45:C:OP1	75:O9:12:LYS:NZ	2.41	0.54
36:5:238:A:H2'	36:5:239:G:O4'	2.08	0.54
36:5:600:G:O6	85:5:3629:OHX:N4	2.40	0.54
1:6:1229:G:O2'	1:6:1255:G:N2	2.35	0.54
1:6:1648:A:H2'	1:6:1649:G:C8	2.43	0.54
1:6:1701:A:H3'	1:6:1702:A:H5''	1.90	0.54
73:O7:81:GLY:O	38:8:95:G:H1'	40.74	0.54
16:C4:85:ALA:HB2	16:C4:94:PRO:HA	2.85	0.54
32:E0:42:ARG:HB3	32:E0:42:ARG:HH11	1.73	0.54
39:L2:116:VAL:HG11	39:L2:134:VAL:HG11	2.33	0.54
39:L2:60:LYS:HD3	39:L2:73:GLU:OE1	3.50	0.54
40:L3:291:GLU:OE1	40:L3:292:ALA:N	2.39	0.54
40:L3:293:ASN:HB2	40:L3:305:ILE:H	2.38	0.54
40:L3:46:PHE:CE2	40:L3:205:VAL:HG13	3.25	0.54
42:L5:235:SER:O	42:L5:239:ILE:HG13	2.07	0.54
48:M1:59:ILE:HG21	48:M1:65:ILE:HD11	1.89	0.54
61:N5:103:TYR:HE1	61:N5:139:ILE:HD12	1.72	0.54
78:Q2:25:VAL:HG22	78:Q2:72:LEU:HD22	1.91	0.54
4:S2:116:LYS:HG2	4:S2:127:ALA:HB3	2.09	0.54
1:2:399:A:OP1	10:S8:49:ARG:NH2	2.40	0.54
10:S8:82:VAL:HG12	10:S8:196:LEU:HD11	1.90	0.54
34:SR:112:SER:HB3	34:SR:153:GLN:HA	1.90	0.54
36:1:1686:U:O4	58:N2:82:LYS:NZ	2.40	0.54
1:2:1141:G:H2'	1:2:1142:A:C8	2.43	0.54
1:2:1151:A:H2'	1:2:1152:A:H8	1.73	0.54
1:2:1232:U:O4	33:E1:97:LYS:HD3	2.08	0.54
1:2:1529:C:H2'	1:2:1530:C:C6	2.43	0.54
64:N8:21:ARG:HH11	36:5:1369:A:H5''	184.13	0.54
36:5:2651:G:H4'	36:5:2652:U:OP2	2.07	0.54
34:SR:63:GLY:HA2	1:6:1341:A:OP1	449.83	0.54
1:6:1713:G:O5'	1:6:1713:G:H8	1.91	0.54
10:S8:2:GLY:N	1:6:393:C:OP2	292.03	0.54
1:6:454:U:H3'	1:6:455:C:H6	1.73	0.54
33:E1:121:CYS:HB2	33:E1:130:VAL:HG11	5.07	0.54
40:L3:209:PHE:HB3	40:L3:282:ILE:CD1	2.75	0.54
47:M0:77:THR:HG22	47:M0:82:ARG:HA	2.06	0.54
48:M1:152:HIS:HD2	48:M1:153:LYS:H	4.75	0.54
50:M4:47:ASP:OD2	50:M4:48:GLY:N	3.12	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:N6:114:ASP:O	62:N6:118:LEU:N	2.37	0.54
69:O3:18:ARG:HA	69:O3:23:ASN:HA	2.36	0.54
76:Q0:96:CYS:HB3	76:Q0:101:ALA:H	1.71	0.54
3:S1:140:ILE:HG22	3:S1:213:ARG:HB2	1.90	0.54
3:S1:34:ALA:HB3	3:S1:41:ARG:HA	1.88	0.54
1:2:448:C:OP1	6:S4:29:PRO:HD3	2.08	0.54
35:SM:58:GLU:O	35:SM:62:ARG:HB2	2.75	0.54
36:1:72:C:C2	36:1:74:G:H1'	2.43	0.53
36:1:94:G:H2'	36:1:95:A:C8	2.43	0.53
1:2:1070:C:H2'	1:2:1071:U:H6	1.74	0.53
1:2:1186:U:OP2	1:2:1456:C:H1'	2.07	0.53
1:2:514:G:N1	1:2:543:C:H5	2.04	0.53
1:2:811:A:C2	1:2:858:G:H1'	2.43	0.53
36:5:1432:C:O2'	36:5:1433:A:H3'	2.08	0.53
36:5:1700:G:H2'	36:5:1701:C:C6	2.43	0.53
36:5:437:G:H1	36:5:622:A:N6	2.06	0.53
19:C7:49:LYS:HG3	1:6:1389:C:H5'	419.68	0.53
1:6:152:U:C2	1:6:163:G:N2	2.76	0.53
18:C6:30:LYS:HZ1	1:6:1366:U:H5'	424.60	0.53
19:C7:34:LEU:O	19:C7:38:ILE:HG22	2.08	0.53
22:D0:98:GLN:O	22:D0:102:ARG:HB3	2.83	0.53
13:C1:94:ILE:HD13	25:D3:16:ARG:HD2	1.88	0.53
25:D3:95:PHE:CE1	25:D3:135:LEU:HB3	2.43	0.53
26:D4:78:SER:OG	26:D4:79:VAL:N	2.39	0.53
46:L9:147:SER:HB2	46:L9:187:ILE:HD11	2.44	0.53
46:L9:89:LYS:HG2	46:L9:145:VAL:HG22	2.46	0.53
49:M3:50:PRO:O	49:M3:52:ASP:N	2.39	0.53
51:M5:190:THR:O	51:M5:194:GLN:HG2	2.08	0.53
46:L9:4:ILE:HD11	56:N0:148:LEU:HD21	3.90	0.53
56:N0:77:VAL:HG22	56:N0:126:VAL:HG22	3.35	0.53
57:N1:69:LYS:HZ2	57:N1:70:SER:HB3	3.23	0.53
58:N2:67:SER:OG	58:N2:68:THR:N	2.40	0.53
59:N3:87:ARG:NH2	59:N3:121:GLU:OE1	2.22	0.53
63:N7:102:GLU:OE1	63:N7:103:GLN:N	2.40	0.53
67:O1:5:LYS:HD3	67:O1:89:LEU:HD13	3.98	0.53
38:4:52:A:N1	75:O9:35:ILE:HD13	2.23	0.53
4:S2:227:PRO:HA	4:S2:230:TRP:NE1	2.61	0.53
6:S4:61:VAL:O	6:S4:65:LEU:HD12	2.96	0.53
10:S8:25:ARG:O	10:S8:28:GLU:HG2	2.49	0.53
36:1:1151:U:O4	36:1:1200:A:N6	2.41	0.53
36:1:2393:G:O2'	36:1:2394:G:OP2	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:34:A:H5'	51:M5:86:ASN:HD22	1.73	0.53
1:2:1350:U:H2'	1:2:1351:G:C8	2.43	0.53
1:2:355:G:OP2	85:2:1914:OHX:N4	2.41	0.53
38:4:62:C:H4'	38:4:63:G:O5'	2.09	0.53
36:5:1650:G:H2'	36:5:1651:U:O4'	2.08	0.53
36:5:1716:U:H3'	36:5:1716:U:P	2.48	0.53
36:5:2400:G:O2'	36:5:2401:A:OP1	2.26	0.53
1:6:1138:A:H2'	1:6:1139:A:H8	1.73	0.53
1:6:1579:U:H2'	1:6:1580:C:H6	1.73	0.53
1:6:1793:G:H1'	1:6:1794:A:H2'	1.89	0.53
1:6:377:G:O6	85:6:1966:OHX:N4	2.40	0.53
1:6:197:A:H2'	1:6:198:A:C8	2.42	0.53
32:E0:31:LYS:HD3	1:6:545:A:H2'	416.87	0.53
48:M1:137:ARG:NH1	37:7:28:C:OP1	301.44	0.53
13:C1:74:THR:HB	13:C1:122:ILE:HD13	4.69	0.53
7:S5:73:THR:HG23	18:C6:114:ARG:HG3	1.90	0.53
20:C8:2:SER:HB2	20:C8:3:LEU:HD13	1.88	0.53
40:L3:92:TYR:HE1	40:L3:159:ARG:HD2	2.00	0.53
42:L5:129:TYR:OH	42:L5:175:HIS:O	2.20	0.53
46:L9:89:LYS:O	46:L9:182:SER:N	2.34	0.53
47:M0:9:TYR:CG	47:M0:97:LEU:HD13	2.43	0.53
53:M7:3:ARG:O	53:M7:18:ARG:NH2	2.40	0.53
56:N0:155:ARG:NH2	56:N0:172:TYR:H	4.83	0.53
59:N3:26:ALA:O	59:N3:115:THR:HG22	2.08	0.53
60:N4:39:LEU:O	60:N4:42:GLN:N	2.73	0.53
1:2:1113:A:H5''	77:Q1:6:ARG:HH22	1.73	0.53
4:S2:158:THR:HG21	4:S2:221:THR:HG22	2.71	0.53
5:S3:38:GLU:HG3	5:S3:49:ILE:HB	1.90	0.53
10:S8:151:LYS:HD3	10:S8:151:LYS:O	2.08	0.53
14:C2:55:GLY:N	35:SM:172:UNK:O	2.38	0.53
36:1:1919:G:O2'	36:1:1933:A:N6	2.38	0.53
36:1:2536:A:H2'	36:1:2537:U:C5	2.44	0.53
36:1:1192:C:N3	85:1:3587:OHX:N3	2.57	0.53
36:1:553:U:H2'	36:1:554:A:O4'	2.08	0.53
1:2:770:A:OP2	85:2:2017:OHX:N6	2.41	0.53
1:2:484:C:H42	1:2:503:G:H22	1.55	0.53
36:5:1135:A:C2	36:5:1136:A:C8	2.97	0.53
36:5:2561:A:O2'	36:5:2562:A:H8	1.91	0.53
36:5:787:G:H2'	36:5:788:C:C6	2.43	0.53
15:C3:64:ARG:NH2	1:6:861:U:OP1	347.38	0.53
22:D0:28:SER:OG	22:D0:29:THR:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:27:ILE:HB	24:D2:61:ILE:HB	4.56	0.53
39:L2:105:GLY:HA3	39:L2:160:SER:HB3	1.90	0.53
40:L3:41:VAL:CA	40:L3:185:GLY:HA3	2.44	0.53
45:L8:121:SER:O	45:L8:123:GLN:N	2.43	0.53
46:L9:101:VAL:HG12	46:L9:136:PHE:HE1	1.73	0.53
46:L9:182:SER:OG	46:L9:183:HIS:N	3.05	0.53
56:N0:8:GLN:HG3	56:N0:26:ARG:HE	1.72	0.53
58:N2:14:THR:HG23	58:N2:66:VAL:HG13	2.00	0.53
61:N5:88:MET:HG2	61:N5:120:LYS:H	3.13	0.53
49:M3:9:ILE:HG13	64:N8:49:HIS:CE1	2.42	0.53
64:N8:64:GLN:O	64:N8:67:HIS:HB2	2.42	0.53
66:O0:13:LYS:HB3	66:O0:100:ILE:HG22	2.09	0.53
67:O1:55:LEU:HB2	67:O1:95:PRO:HD3	1.90	0.53
78:Q2:77:CYS:O	78:Q2:79:THR:N	2.50	0.53
3:S1:105:PHE:CD2	3:S1:213:ARG:HA	2.43	0.53
6:S4:104:ASP:OD2	6:S4:108:ARG:HG3	3.96	0.53
36:1:2309:A:H4'	85:1:3677:OHX:N1	2.23	0.53
36:1:3361:G:O6	85:1:3699:OHX:N6	2.42	0.53
85:1:3509:OHX:N5	85:1:3695:OHX:N2	2.56	0.53
1:2:1507:G:H2'	1:2:1508:U:C6	2.43	0.53
1:2:1776:A:H2'	1:2:1777:G:C8	2.44	0.53
1:2:1:U:C4	11:S9:54:ARG:HG3	2.43	0.53
1:2:715:U:O2	1:2:723:G:N2	2.41	0.53
36:5:1881:A:OP2	85:5:3534:OHX:N6	2.41	0.53
36:5:441:U:H2'	36:5:442:G:C8	2.44	0.53
68:O2:37:GLY:HA3	36:5:639:G:P	185.39	0.53
36:5:887:G:H2'	36:5:888:A:C8	2.44	0.53
1:6:1672:G:H2'	1:6:1673:G:C8	2.43	0.53
1:6:1699:G:N1	1:6:1701:A:H5''	2.24	0.53
1:6:992:A:OP1	85:6:1908:OHX:N1	2.42	0.53
38:8:27:U:H2'	38:8:28:C:H6	1.73	0.53
15:C3:91:LEU:HB3	15:C3:122:ILE:HG12	1.89	0.53
20:C8:126:ARG:HG2	20:C8:133:VAL:HA	1.90	0.53
21:C9:23:GLN:HG3	21:C9:55:TYR:CZ	5.05	0.53
26:D4:8:ARG:NH1	26:D4:28:LEU:HD11	3.42	0.53
29:D7:19:HIS:HB2	1:6:1071:U:O3'	357.50	0.53
40:L3:60:LEU:HD21	40:L3:62:ARG:HB2	1.91	0.53
43:L6:131:LYS:HE2	43:L6:131:LYS:HA	5.46	0.53
43:L6:43:LEU:HD11	43:L6:85:ILE:HG13	1.91	0.53
44:L7:44:ILE:HD13	44:L7:180:SER:HB2	1.90	0.53
45:L8:100:GLU:OE1	45:L8:108:ARG:NH1	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:122:LYS:C	45:L8:124:ASP:H	2.66	0.53
46:L9:87:LYS:HZ1	46:L9:191:LEU:HD21	17.19	0.53
54:M8:135:GLN:CD	54:M8:135:GLN:H	2.46	0.53
64:N8:7:LYS:O	64:N8:10:LYS:N	2.35	0.53
64:N8:85:ASP:OD1	64:N8:86:LYS:N	2.37	0.53
64:N8:94:ALA:HB1	64:N8:121:VAL:HA	1.91	0.53
65:N9:47:LEU:HA	65:N9:50:THR:HG22	3.22	0.53
74:O8:12:LEU:O	74:O8:15:THR:OG1	2.18	0.53
6:S4:192:ILE:HG13	6:S4:243:GLY:HA3	2.24	0.53
9:S7:67:LEU:HD22	9:S7:71:HIS:CE1	2.43	0.53
36:1:118:U:H3	36:1:122:A:H5'	1.73	0.53
36:1:2700:G:O2'	36:1:2705:A:N1	2.35	0.53
36:1:2960:C:H2'	36:1:2961:G:H8	1.73	0.53
36:1:2762:A:OP2	85:1:3470:OHX:N4	2.41	0.53
36:1:433:A:H8	36:1:433:A:O5'	1.92	0.53
1:2:1370:U:H4'	1:2:1371:A:H5''	1.89	0.53
1:2:1554:U:H2'	1:2:1555:A:O4'	2.09	0.53
1:2:74:U:O2'	1:2:75:U:OP2	2.25	0.53
36:5:209:A:H4'	36:5:211:A:C8	2.43	0.53
36:5:2314:U:OP2	36:5:2314:U:H4'	2.08	0.53
36:5:848:A:C5	36:5:849:C:H1'	2.43	0.53
36:5:945:C:H2'	36:5:946:U:C6	2.44	0.53
22:D0:57:ARG:HH12	1:6:1383:G:H1'	453.13	0.53
18:C6:34:SER:HB3	18:C6:38:LEU:HD12	1.91	0.53
19:C7:28:PHE:HA	19:C7:55:THR:HG21	2.99	0.53
28:D6:38:ARG:HE	28:D6:83:ILE:HG13	1.73	0.53
14:C2:73:LYS:NZ	33:E1:108:VAL:HG13	2.24	0.53
33:E1:98:VAL:HG22	33:E1:99:LYS:H	1.73	0.53
39:L2:114:SER:HB2	39:L2:169:ILE:HD12	2.71	0.53
39:L2:40:TYR:HA	39:L2:91:GLY:HA3	1.89	0.53
40:L3:219:ALA:HB2	40:L3:336:VAL:HG13	1.91	0.53
40:L3:298:PHE:CD2	40:L3:357:LYS:HG2	2.43	0.53
36:1:3267:A:H2'	43:L6:69:PHE:CZ	2.43	0.53
44:L7:223:PHE:HA	44:L7:227:GLY:O	2.09	0.53
46:L9:114:VAL:HB	46:L9:124:ARG:HB2	1.90	0.53
50:M4:17:VAL:HG12	50:M4:72:LEU:HB3	1.89	0.53
4:S2:234:PRO:O	4:S2:235:LEU:HB2	2.09	0.53
9:S7:138:LYS:HD3	9:S7:150:GLN:OE1	5.67	0.53
9:S7:89:HIS:CD2	9:S7:165:LYS:HG2	2.88	0.53
10:S8:138:ASN:O	10:S8:142:LYS:HG2	2.09	0.53
10:S8:110:ARG:NH1	10:S8:160:PHE:HB3	3.83	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:255:ALA:HA	34:SR:260:ILE:HA	3.21	0.53
36:1:679:U:O4	85:1:3510:OHX:N1	2.42	0.53
1:2:1192:C:O2'	18:C6:140:LYS:NZ	2.36	0.53
1:2:1474:G:H2'	1:2:1475:A:H8	1.73	0.53
1:2:151:G:O6	26:D4:124:ARG:NH2	2.41	0.53
1:2:720:G:H1'	1:2:721:U:H5''	1.91	0.53
1:2:912:U:H5'	1:2:913:G:H8	1.73	0.53
1:2:995:A:H2'	1:2:996:U:O4'	2.07	0.53
37:3:41:G:N3	37:3:44:C:N4	2.56	0.53
36:5:1284:C:O2'	36:5:1285:G:OP1	2.25	0.53
36:5:1364:C:O2'	36:5:1365:G:H5'	2.09	0.53
36:5:1701:C:H2'	36:5:1702:U:O4'	2.09	0.53
36:5:207:U:H3	36:5:222:A:H61	1.55	0.53
36:5:3255:U:H2'	36:5:3256:G:H8	1.74	0.53
85:5:3611:OHX:N5	38:8:140:G:O6	2.42	0.53
85:5:3480:OHX:N6	85:5:3703:OHX:N5	2.57	0.53
51:M5:176:LYS:HE3	36:5:66:A:N3	96.39	0.53
1:6:235:G:H2'	1:6:236:A:C8	2.43	0.53
1:6:964:U:H4'	1:6:965:U:O4'	2.08	0.53
37:7:111:U:O2'	85:7:206:OHX:N2	2.41	0.53
12:C0:12:HIS:NE2	12:C0:49:LEU:HD21	2.24	0.53
20:C8:4:VAL:HG21	27:D5:82:HIS:CG	2.79	0.53
20:C8:48:LYS:HD3	21:C9:35:ASP:OD2	2.09	0.53
22:D0:61:LYS:HG3	22:D0:86:ILE:HB	1.90	0.53
26:D4:122:GLY:O	26:D4:125:LEU:N	4.58	0.53
41:L4:118:LYS:O	41:L4:121:ALA:HB3	2.24	0.53
41:L4:145:ILE:HD11	41:L4:148:ILE:HG13	1.88	0.53
41:L4:16:THR:HG22	41:L4:18:ASN:H	1.73	0.53
56:N0:148:LEU:HD12	56:N0:149:LYS:N	2.24	0.53
63:N7:83:THR:HG23	63:N7:85:TYR:N	2.24	0.53
78:Q2:71:ARG:HH21	78:Q2:80:ARG:NH1	4.08	0.53
5:S3:65:ARG:HA	5:S3:68:GLU:HG3	1.91	0.53
1:2:856:A:N6	9:S7:96:ARG:HB3	2.23	0.53
11:S9:118:LEU:HD23	11:S9:158:PHE:CZ	2.94	0.53
34:SR:108:SER:OG	34:SR:109:ASP:N	2.46	0.53
36:1:1194:G:H2'	36:1:1195:A:C8	2.43	0.53
36:1:2842:U:OP1	36:1:2844:C:N4	2.40	0.53
85:1:3540:OHX:N3	85:1:3711:OHX:N5	2.56	0.53
36:1:651:G:OP1	85:1:3624:OHX:N4	2.42	0.53
1:2:1687:U:H1'	1:2:1715:G:N2	2.23	0.53
1:2:755:A:H2'	1:2:756:A:C8	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1471:U:H2'	36:5:1472:U:C6	2.44	0.53
36:5:1556:C:H2'	36:5:2169:G:H1	1.74	0.53
36:5:2186:U:H2'	36:5:2187:G:O4'	2.09	0.53
36:5:2948:C:O2'	36:5:2949:U:H5'	2.08	0.53
36:5:34:A:H2'	36:5:35:A:C8	2.44	0.53
1:6:1235:C:H2'	1:6:1236:A:H8	1.72	0.53
1:6:1591:C:H2'	1:6:1592:A:C8	2.44	0.53
1:6:1696:G:H2'	1:6:1698:G:O6	2.09	0.53
1:6:176:C:OP1	85:6:1950:OHX:N6	2.41	0.53
38:8:74:U:O2	85:8:207:OHX:N5	2.41	0.53
38:8:59:A:H4'	38:8:60:U:H5''	1.90	0.53
18:C6:82:ARG:HH22	18:C6:114:ARG:HG3	4.11	0.53
19:C7:32:LYS:HD2	19:C7:47:ARG:HH11	1.74	0.53
1:2:1500:C:H5'	21:C9:106:GLN:NE2	2.23	0.53
21:C9:57:ARG:NH1	1:6:1479:A:OP1	391.36	0.53
39:L2:30:ARG:NH2	39:L2:33:ASP:OD2	2.41	0.53
40:L3:146:ARG:HA	40:L3:149:ALA:HB3	1.90	0.53
47:M0:47:PRO:HB3	47:M0:171:TRP:CZ2	2.47	0.53
48:M1:92:ARG:HG3	48:M1:172:LEU:HB2	5.18	0.53
49:M3:54:LEU:HD12	49:M3:75:PHE:HE2	1.74	0.53
51:M5:120:TRP:CZ2	51:M5:122:ASN:HA	2.44	0.53
51:M5:186:GLY:O	51:M5:188:ARG:N	2.42	0.53
52:M6:189:ASP:O	52:M6:193:GLN:HG3	2.23	0.53
52:M6:46:GLU:HG2	52:M6:49:ARG:HG3	1.89	0.53
53:M7:108:ASP:OD1	53:M7:111:LYS:HG3	2.09	0.53
54:M8:170:ARG:O	54:M8:171:LYS:HB2	2.08	0.53
55:M9:101:VAL:HA	55:M9:104:ARG:NH1	2.24	0.53
36:1:1679:A:OP1	58:N2:94:ARG:NH1	2.42	0.53
36:1:93:C:C2	64:N8:55:LYS:HE2	2.44	0.53
65:N9:28:LYS:HD3	65:N9:29:TYR:H	1.72	0.53
4:S2:89:GLN:HG3	4:S2:93:GLY:O	3.91	0.53
5:S3:192:PRO:O	5:S3:195:SER:OG	2.80	0.53
7:S5:37:GLN:HG2	18:C6:53:LEU:HD13	1.91	0.53
36:1:1498:A:H5'	36:1:1602:A:H1'	1.90	0.53
36:1:3375:A:O2'	36:1:3378:C:H5'	2.09	0.53
36:1:1535:A:OP1	85:1:3412:OHX:N4	2.42	0.53
38:4:45:C:H2'	38:4:46:G:O4'	2.08	0.53
36:5:1294:A:O2'	36:5:1295:G:H5''	2.08	0.53
36:5:2641:U:H5''	36:5:2642:A:OP1	2.09	0.53
36:5:2923:U:H2'	36:5:2924:U:H6	1.72	0.53
73:O7:48:ASN:HB2	36:5:53:G:OP1	121.04	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:O7:15:SER:HB2	36:5:817:A:C8	139.29	0.53
1:6:585:A:H2'	1:6:586:G:C8	2.44	0.53
37:7:114:U:H2'	37:7:115:G:H8	1.74	0.53
17:C5:98:ASN:ND2	17:C5:121:ILE:O	2.31	0.53
26:D4:10:ARG:HD2	1:6:778:G:O6	429.16	0.53
32:E0:59:GLY:O	32:E0:61:SER:N	3.83	0.53
40:L3:116:ARG:HD3	40:L3:122:TRP:CG	3.24	0.53
41:L4:144:LYS:O	85:L4:401:OHX:N1	6.07	0.53
41:L4:230:VAL:O	41:L4:232:SER:N	3.53	0.53
42:L5:208:MET:HG2	42:L5:223:PHE:CE2	2.44	0.53
42:L5:65:ILE:HG22	42:L5:66:SER:O	2.09	0.53
44:L7:233:GLU:OE1	56:N0:35:VAL:HG22	4.30	0.53
50:M4:24:LYS:NZ	50:M4:61:GLY:O	2.31	0.53
66:O0:12:GLN:O	66:O0:16:LEU:HG	5.53	0.53
5:S3:92:GLN:CD	5:S3:92:GLN:H	2.10	0.53
7:S5:61:TYR:HE2	7:S5:164:PRO:HG2	4.06	0.53
7:S5:142:PRO:HG2	7:S5:217:LEU:HD12	2.60	0.53
36:1:2534:G:H1	36:1:2545:C:H42	1.57	0.53
36:1:3195:U:O2'	36:1:3196:U:H5'	2.09	0.53
36:1:3318:G:OP2	36:1:3318:G:H2'	2.09	0.53
36:1:621:A:O2'	85:1:3703:OHX:N1	2.41	0.53
36:1:631:U:H2'	36:1:632:G:C8	2.43	0.53
1:2:1327:C:H2'	1:2:1328:G:H8	1.73	0.53
1:2:1754:A:O2'	85:2:1936:OHX:N5	2.41	0.53
1:2:538:A:H8	1:2:543:C:N4	2.06	0.53
1:2:632:U:OP2	13:C1:102:LYS:NZ	2.33	0.53
36:5:1443:G:O6	85:5:3512:OHX:N5	2.41	0.53
39:L2:200:ARG:NH2	36:5:2186:U:OP2	217.57	0.53
85:5:3539:OHX:N4	85:5:3742:OHX:N2	2.56	0.53
1:6:434:G:N7	85:6:1936:OHX:N5	2.56	0.53
1:6:30:G:H2'	1:6:31:C:C6	2.44	0.53
1:6:755:A:O2'	1:6:756:A:H5''	2.09	0.53
85:7:203:OHX:N3	85:7:211:OHX:N5	2.57	0.53
1:2:346:G:H5'	13:C1:79:LYS:HE2	1.90	0.53
16:C4:133:ARG:HB3	16:C4:136:ARG:HE	1.74	0.53
21:C9:105:LEU:HB3	21:C9:122:ARG:NE	2.61	0.53
26:D4:94:TYR:HD2	26:D4:96:LEU:HD12	3.08	0.53
39:L2:113:VAL:HG12	39:L2:166:ILE:HA	2.87	0.53
41:L4:237:GLN:O	41:L4:246:ARG:HG3	2.85	0.53
43:L6:52:VAL:HG22	43:L6:67:GLY:HA2	1.91	0.53
54:M8:81:VAL:HG13	54:M8:101:VAL:HG22	4.00	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:38:ALA:O	59:N3:58:VAL:HB	2.09	0.53
36:1:2800:G:O6	64:N8:42:ARG:NH2	2.41	0.53
68:O2:20:HIS:O	68:O2:21:HIS:HB2	2.31	0.53
73:O7:28:HIS:ND1	73:O7:31:LYS:HB2	2.54	0.53
7:S5:43:PHE:H	7:S5:46:TRP:H	2.09	0.53
10:S8:104:ILE:HG13	10:S8:165:LEU:HB2	2.27	0.53
11:S9:113:VAL:HG21	11:S9:134:ILE:HD12	1.91	0.53
11:S9:172:VAL:HG22	1:6:511:A:H5''	458.80	0.53
4:S2:176:SER:HA	11:S9:53:ARG:HH12	1.74	0.53
1:2:782:U:H4'	1:2:783:G:OP2	2.07	0.53
36:5:1230:G:H1	36:5:1279:C:H42	1.55	0.53
36:5:589:A:H1'	36:5:1337:A:H5''	1.91	0.53
36:5:2101:C:H2'	36:5:2102:U:C6	2.44	0.53
36:5:2902:A:OP1	36:5:3032:A:H1'	2.09	0.53
36:5:378:A:OP2	85:5:3707:OHX:N6	2.42	0.53
36:5:561:C:H2'	36:5:562:C:H6	1.73	0.53
36:5:651:G:O5'	36:5:651:G:H8	1.92	0.53
1:6:1045:C:C2	1:6:1074:G:C2	2.97	0.53
1:6:1466:G:O2'	1:6:1602:C:OP1	2.27	0.53
85:6:1914:OHX:N5	85:6:2001:OHX:N6	2.57	0.53
20:C8:76:PRO:HD2	20:C8:77:THR:HG22	4.10	0.53
1:2:1478:G:OP1	21:C9:39:THR:HG21	2.09	0.53
24:D2:15:ASN:OD1	24:D2:72:CYS:N	3.50	0.53
32:E0:18:THR:HG21	1:6:584:C:H1'	389.95	0.53
39:L2:3:ARG:HG2	39:L2:4:VAL:H	1.74	0.53
47:M0:87:LEU:HD23	47:M0:138:VAL:HG13	1.90	0.53
47:M0:156:ARG:NH1	47:M0:156:ARG:HG3	3.11	0.53
36:1:1546:A:N7	51:M5:71:ARG:NH1	2.57	0.53
52:M6:98:ALA:HA	52:M6:101:ARG:NH1	2.79	0.53
52:M6:105:PHE:CD1	52:M6:109:PRO:HG3	3.27	0.53
55:M9:17:VAL:HG12	55:M9:18:GLY:H	1.74	0.53
71:O5:21:LEU:HD11	71:O5:55:LEU:HD21	1.89	0.53
3:S1:146:GLN:O	3:S1:148:ASN:N	2.34	0.53
9:S7:112:ARG:NH2	9:S7:117:THR:OG1	3.05	0.53
11:S9:126:ARG:O	11:S9:130:THR:HG22	2.09	0.53
36:1:1069:C:H2'	36:1:1070:U:C6	2.44	0.52
36:1:1103:A:OP2	36:1:1103:A:H4'	2.08	0.52
36:1:1235:U:O4	36:1:1263:A:N6	2.42	0.52
36:1:1545:A:N7	51:M5:105:ARG:NH1	2.58	0.52
36:1:2413:A:H2'	36:1:2414:G:C8	2.44	0.52
36:1:2442:G:N2	36:1:2505:U:O2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:317:A:C2	36:1:318:A:C4	2.96	0.52
1:2:1236:A:H2'	1:2:1237:G:C8	2.43	0.52
1:2:647:G:H22	1:2:687:G:H1	1.57	0.52
1:2:912:U:H4'	1:2:913:G:H3'	1.91	0.52
57:N1:70:SER:OG	36:5:2737:C:OP1	232.34	0.52
36:5:3197:G:H2'	36:5:3198:U:H5''	1.91	0.52
36:5:3245:A:H2	36:5:3246:G:C2	2.26	0.52
1:6:1058:U:H4'	1:6:1059:U:OP1	2.08	0.52
24:D2:71:LYS:NZ	1:6:1099:U:OP1	375.50	0.52
1:6:1177:C:H4'	1:6:1189:A:N1	2.23	0.52
1:6:542:A:H1'	1:6:543:C:H5'	1.90	0.52
22:D0:96:PRO:HD2	22:D0:99:ILE:HG13	5.10	0.52
26:D4:11:LYS:HB2	26:D4:24:VAL:HG23	2.29	0.52
39:L2:211:HIS:O	39:L2:213:GLY:N	3.99	0.52
36:1:2608:G:OP1	39:L2:2:GLY:HA3	2.09	0.52
40:L3:188:ILE:O	40:L3:192:VAL:HG12	2.09	0.52
45:L8:91:PHE:CE1	45:L8:185:ARG:HD2	2.45	0.52
36:1:327:A:OP2	49:M3:31:LYS:NZ	2.43	0.52
45:L8:72:PRO:HG2	51:M5:18:VAL:HA	2.59	0.52
52:M6:156:LEU:HB3	36:5:3243:A:N7	267.71	0.52
53:M7:10:ASN:HD22	53:M7:13:LYS:NZ	2.07	0.52
66:O0:18:ILE:HG22	66:O0:19:LYS:HD3	4.86	0.52
77:Q1:1:MET:HE2	77:Q1:5:TRP:HB2	2.78	0.52
2:S0:204:TYR:OH	2:S0:207:PRO:O	2.26	0.52
7:S5:90:ILE:O	7:S5:94:THR:HG23	2.17	0.52
8:S6:156:PHE:O	60:N4:93:ARG:NH1	6.74	0.52
1:2:331:A:H4'	10:S8:31:ARG:O	2.09	0.52
11:S9:30:LEU:HD21	11:S9:102:GLU:HG3	1.91	0.52
36:1:1772:U:H5''	36:1:1773:C:H5'	1.89	0.52
36:1:1856:C:H2'	36:1:1857:C:C6	2.43	0.52
36:1:2807:U:O3'	36:1:2808:A:H3'	2.09	0.52
36:1:3068:U:OP2	55:M9:62:ARG:NH1	2.38	0.52
36:1:2310:U:OP1	85:1:3677:OHX:N2	2.43	0.52
1:2:1101:G:H5''	24:D2:76:SER:HB2	1.89	0.52
1:2:1214:U:OP1	1:2:1246:C:H1'	2.09	0.52
1:2:1291:G:H2'	1:2:1292:G:H8	1.73	0.52
1:2:1609:U:OP2	18:C6:14:LYS:NZ	2.42	0.52
1:2:1611:A:O2'	7:S5:95:ASN:O	2.26	0.52
1:2:542:A:O2'	1:2:543:C:O5'	2.20	0.52
1:2:582:U:H3'	1:2:583:C:H6	1.74	0.52
1:2:872:G:H2'	1:2:873:U:O4'	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1064:A:H62	36:5:1096:U:H3	1.58	0.52
36:5:2134:G:C2	36:5:2135:U:C6	2.97	0.52
36:5:993:G:N3	36:5:2637:A:H2'	2.24	0.52
36:5:2921:U:H2'	36:5:2923:U:OP2	2.09	0.52
36:5:2945:G:H8	36:5:2950:G:O6	1.92	0.52
40:L3:104:THR:HG23	36:5:3147:G:O2'	235.46	0.52
36:5:1940:G:N2	36:5:3362:A:H8	2.06	0.52
85:6:1914:OHX:N2	85:6:2001:OHX:N4	2.57	0.52
1:6:291:G:H2'	1:6:292:U:C6	2.44	0.52
1:6:578:U:H4'	1:6:579:A:H5'	1.91	0.52
1:6:754:A:N6	1:6:793:A:H62	2.06	0.52
1:6:891:A:H2'	1:6:892:A:C8	2.44	0.52
42:L5:14:SER:OG	37:7:68:C:OP1	299.88	0.52
38:8:53:A:H2'	38:8:54:A:C8	2.43	0.52
12:C0:31:LYS:HE3	12:C0:36:ASP:OD1	2.09	0.52
23:D1:24:ILE:HD13	23:D1:31:SER:HB2	2.25	0.52
42:L5:111:GLN:C	42:L5:113:LEU:H	2.12	0.52
42:L5:233:ALA:O	42:L5:235:SER:N	2.42	0.52
42:L5:242:SER:O	42:L5:245:GLU:HB2	3.22	0.52
43:L6:80:ASN:HB2	36:5:3272:C:O2	248.05	0.52
44:L7:107:ARG:HH12	44:L7:200:ASN:HA	1.74	0.52
46:L9:49:ASN:OD1	46:L9:51:GLN:N	5.70	0.52
47:M0:86:HIS:HB3	47:M0:139:ARG:HD3	1.91	0.52
49:M3:59:ARG:HG2	36:5:73:C:O2'	93.43	0.52
50:M4:136:ALA:O	50:M4:138:ALA:N	4.09	0.52
50:M4:20:VAL:HG22	50:M4:66:THR:OG1	2.09	0.52
50:M4:39:ILE:HD12	50:M4:43:LYS:HB3	1.92	0.52
54:M8:158:HIS:H	54:M8:186:VAL:CG1	2.25	0.52
60:N4:5:ILE:HD12	60:N4:10:GLY:HA2	1.92	0.52
6:S4:246:LEU:HD12	6:S4:246:LEU:H	1.74	0.52
7:S5:216:GLU:OE2	7:S5:219:ARG:HD3	2.99	0.52
7:S5:72:HIS:CD2	7:S5:107:LYS:HG2	2.44	0.52
36:1:1951:C:N4	36:1:2095:G:H1	2.02	0.52
36:1:2108:C:H1'	36:1:3344:A:C8	2.44	0.52
36:1:337:G:OP2	41:L4:196:ASN:ND2	2.40	0.52
36:1:938:C:OP1	36:1:962:A:O2'	2.27	0.52
1:2:1758:U:O4	85:2:1901:OHX:N6	2.42	0.52
1:2:795:U:H5	1:2:796:A:C4	2.28	0.52
1:2:955:A:H4'	1:2:1073:G:O2'	2.09	0.52
1:2:992:A:H2'	1:2:993:A:H5'	1.90	0.52
38:4:149:A:H8	38:4:149:A:O5'	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1232:C:C5	36:5:1261:G:H2'	2.44	0.52
36:5:139:G:H2'	36:5:140:C:C6	2.44	0.52
21:C9:60:SER:OG	1:6:1480:G:OP1	398.76	0.52
21:C9:37:VAL:HG11	21:C9:100:ILE:HD11	2.50	0.52
25:D3:63:GLN:HB3	25:D3:64:PRO:HA	1.90	0.52
41:L4:274:TYR:HE1	41:L4:276:LEU:HD23	1.74	0.52
36:1:1349:G:H4'	41:L4:291:ASN:HD21	1.74	0.52
41:L4:92:ASN:OD1	41:L4:92:ASN:N	2.59	0.52
44:L7:179:LEU:HD22	44:L7:183:ASP:OD2	2.09	0.52
54:M8:66:ARG:HH21	36:5:744:A:P	168.51	0.52
56:N0:104:GLU:O	56:N0:107:TYR:N	3.21	0.52
57:N1:12:ARG:HB3	57:N1:13:TYR:CD1	2.44	0.52
70:O4:8:ARG:HB2	70:O4:34:HIS:NE2	2.25	0.52
2:S0:148:ASP:H	2:S0:164:ASN:HD21	2.70	0.52
3:S1:149:GLN:HE21	3:S1:151:LYS:HG3	2.43	0.52
5:S3:162:GLN:N	5:S3:163:PRO:HD2	2.52	0.52
7:S5:42:LEU:HB2	7:S5:45:LYS:HD3	4.76	0.52
36:1:249:U:H1'	36:1:250:U:O2	2.09	0.52
36:1:2808:A:N7	36:1:2955:U:H4'	2.24	0.52
36:1:562:C:H2'	36:1:563:U:H6	1.74	0.52
1:2:1274:C:H5	35:SM:96:ARG:N	2.07	0.52
1:2:1427:A:O2'	1:2:1428:G:OP1	2.22	0.52
1:2:1622:G:H2'	1:2:1623:C:C6	2.44	0.52
1:2:16:G:H2'	1:2:17:C:C6	2.44	0.52
1:2:296:U:H2'	1:2:297:U:C6	2.45	0.52
36:5:1103:A:H3'	36:5:1104:G:H5'	1.92	0.52
36:5:112:U:O2'	36:5:113:C:OP2	2.25	0.52
47:M0:157:TYR:OH	36:5:1206:G:OP1	311.96	0.52
36:5:1554:U:H4'	36:5:1555:U:OP1	2.09	0.52
36:5:1692:U:H2'	36:5:1693:C:C6	2.44	0.52
36:5:2976:A:OP1	85:5:3657:OHX:N3	2.42	0.52
1:6:475:A:H2'	1:6:476:U:O4'	2.09	0.52
16:C4:117:ASP:OD1	16:C4:119:THR:HG23	2.09	0.52
1:2:886:U:O2'	16:C4:121:VAL:O	2.23	0.52
16:C4:42:VAL:HA	16:C4:46:MET:SD	2.50	0.52
16:C4:51:ASP:O	16:C4:54:GLU:HB2	2.09	0.52
18:C6:45:ARG:O	18:C6:48:VAL:HG12	2.55	0.52
19:C7:32:LYS:HD2	19:C7:47:ARG:NH1	2.24	0.52
19:C7:95:ARG:HB2	19:C7:96:SER:HA	5.00	0.52
32:E0:14:VAL:HA	32:E0:17:GLN:HG2	2.23	0.52
39:L2:113:VAL:HG23	39:L2:134:VAL:HG13	2.96	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:226:PHE:CE1	40:L3:268:GLY:HA2	4.24	0.52
42:L5:62:CYS:HB3	42:L5:105:ILE:HG13	1.90	0.52
49:M3:58:VAL:CG1	36:5:75:G:H5''	87.82	0.52
53:M7:29:THR:HA	53:M7:32:THR:HG23	1.91	0.52
36:1:784:A:O3'	54:M8:92:ARG:NH1	2.42	0.52
56:N0:7:TYR:CD1	56:N0:61:ILE:HD11	2.44	0.52
56:N0:89:ASN:ND2	57:N1:156:TYR:HB3	2.24	0.52
67:O1:80:ASN:OD1	67:O1:81:GLU:N	2.43	0.52
71:O5:4:VAL:HG13	71:O5:50:SER:HB3	2.09	0.52
72:O6:56:ARG:O	72:O6:60:LEU:HB2	2.09	0.52
75:O9:44:TRP:CZ2	75:O9:45:ARG:HG3	3.33	0.52
3:S1:196:GLU:O	3:S1:199:ASN:HB2	2.10	0.52
3:S1:30:PHE:HB3	3:S1:96:LEU:HD22	3.87	0.52
5:S3:46:THR:O	5:S3:84:ILE:HG12	2.56	0.52
6:S4:106:LYS:HG3	6:S4:108:ARG:NH1	2.24	0.52
10:S8:9:HIS:HD2	10:S8:10:LYS:HB2	1.74	0.52
11:S9:119:ALA:O	11:S9:124:HIS:ND1	4.95	0.52
36:1:1861:G:O6	85:1:3532:OHX:N2	2.43	0.52
36:1:2772:C:H4'	36:1:2773:C:H5'	1.92	0.52
36:1:3022:G:O2'	36:1:3031:G:O6	2.20	0.52
36:1:634:C:H4'	68:O2:47:ARG:NH1	2.24	0.52
36:1:642:U:OP1	64:N8:22:ILE:HG23	2.10	0.52
1:2:1153:G:H1	1:2:1625:C:N4	2.04	0.52
1:2:329:G:H2'	1:2:330:G:H8	1.74	0.52
44:L7:208:SER:HB2	36:5:1334:U:H1'	241.33	0.52
36:5:1346:G:H1	36:5:1358:C:H42	1.56	0.52
36:5:1728:G:H5''	36:5:1730:G:O4'	2.09	0.52
36:5:2101:C:HO2'	36:5:2102:U:P	2.33	0.52
36:5:2105:G:H2'	36:5:2106:A:C8	2.44	0.52
85:5:3524:OHX:N3	85:5:3721:OHX:N4	2.58	0.52
44:L7:60:ARG:HH22	36:5:517:G:P	306.60	0.52
12:C0:32:HIS:CD2	12:C0:33:GLU:H	4.33	0.52
39:L2:145:LYS:O	39:L2:146:THR:OG1	2.27	0.52
39:L2:207:VAL:HG12	36:5:2415:C:H4'	187.11	0.52
41:L4:6:VAL:HG21	41:L4:255:PHE:CZ	2.45	0.52
43:L6:56:LYS:HG2	43:L6:57:HIS:O	3.10	0.52
51:M5:187:ARG:O	51:M5:190:THR:HG23	3.36	0.52
52:M6:54:TYR:HD2	52:M6:58:LEU:HD22	2.40	0.52
61:N5:105:VAL:HG12	61:N5:106:ASP:H	2.13	0.52
62:N6:57:LEU:HB3	62:N6:105:VAL:HG12	1.91	0.52
62:N6:73:VAL:HA	62:N6:80:VAL:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:O3:14:LEU:HD11	69:O3:31:LYS:HB3	3.68	0.52
4:S2:68:ILE:O	4:S2:72:LEU:HB2	2.09	0.52
6:S4:11:ARG:HB3	6:S4:12:LEU:HD23	1.91	0.52
9:S7:12:ALA:HB3	9:S7:13:PRO:HD3	1.97	0.52
36:1:1511:U:H5''	36:1:1512:U:H5	1.73	0.52
36:1:1581:C:H2'	36:1:1582:C:H5''	1.90	0.52
36:1:174:C:H2'	36:1:175:C:C6	2.44	0.52
36:1:2381:G:C2	36:1:2382:G:C8	2.98	0.52
36:1:2841:G:H2'	36:1:2844:C:H42	1.74	0.52
36:1:955:U:H2'	36:1:956:U:C6	2.44	0.52
1:2:1527:C:H2'	1:2:1528:U:H6	1.74	0.52
1:2:962:C:N4	1:2:963:A:N1	2.56	0.52
37:3:112:G:OP2	85:3:208:OHX:N5	2.42	0.52
36:5:2507:C:O2'	36:5:2508:U:OP1	2.27	0.52
36:5:2514:U:H6	36:5:2514:U:OP1	1.93	0.52
36:5:2689:A:C8	36:5:2702:A:N6	2.78	0.52
36:5:2808:A:O2'	85:5:3414:OHX:N6	2.43	0.52
85:5:3539:OHX:N6	85:5:3742:OHX:N5	2.58	0.52
1:6:703:G:H2'	1:6:704:C:C6	2.45	0.52
1:6:628:G:N2	1:6:970:A:OP2	2.43	0.52
19:C7:17:ILE:HD11	19:C7:54:THR:HA	1.91	0.52
27:D5:93:SER:OG	27:D5:94:LYS:N	2.42	0.52
31:D9:33:LYS:O	31:D9:36:LEU:HD23	2.10	0.52
39:L2:133:TYR:CE1	39:L2:135:ILE:HD11	5.02	0.52
42:L5:152:ARG:HG3	42:L5:152:ARG:HH11	2.10	0.52
44:L7:229:PHE:CD1	44:L7:229:PHE:C	3.04	0.52
46:L9:70:THR:HG21	36:5:3122:A:N1	324.42	0.52
53:M7:124:LYS:HD2	53:M7:140:GLU:OE1	2.10	0.52
53:M7:41:LEU:O	53:M7:45:GLN:HG3	2.10	0.52
56:N0:50:LYS:HG2	37:7:77:G:O5'	303.74	0.52
66:O0:20:SER:OG	66:O0:96:GLY:HA3	2.10	0.52
2:S0:31:VAL:HG12	2:S0:33:GLN:H	1.73	0.52
2:S0:41:ARG:HD2	2:S0:42:PRO:O	2.10	0.52
8:S6:142:ARG:HA	8:S6:147:LEU:HD12	2.38	0.52
10:S8:117:TYR:CE1	10:S8:150:ALA:HB2	2.44	0.52
36:1:407:A:H5'	36:1:1396:C:O2'	2.10	0.52
36:1:764:U:O4	85:1:3499:OHX:N5	2.42	0.52
36:1:922:U:OP2	73:O7:3:LYS:HD2	2.10	0.52
1:2:513:U:OP1	11:S9:133:HIS:NE2	2.35	0.52
36:5:501:A:H2'	36:5:502:U:C6	2.45	0.52
31:D9:19:ARG:NH2	1:6:1597:A:OP2	407.05	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1773:C:H2'	1:6:1774:G:H8	1.74	0.52
38:8:106:C:H5''	38:8:108:C:OP2	2.09	0.52
17:C5:43:ARG:NH2	1:6:1552:U:OP2	402.88	0.52
19:C7:71:PHE:CD1	19:C7:73:LEU:HB3	2.45	0.52
5:S3:11:LEU:HD12	22:D0:86:ILE:HG12	2.33	0.52
23:D1:71:ARG:HG3	23:D1:83:TRP:CZ2	2.44	0.52
30:D8:10:ALA:HA	30:D8:33:LEU:HB2	4.88	0.52
40:L3:331:ASN:N	40:L3:331:ASN:OD1	2.69	0.52
40:L3:56:ILE:HD11	40:L3:359:ILE:HG12	1.91	0.52
36:1:598:A:OP1	44:L7:41:ARG:NH1	2.43	0.52
45:L8:108:ARG:O	45:L8:112:GLU:N	2.88	0.52
54:M8:71:LEU:HD13	54:M8:99:THR:HG21	1.92	0.52
61:N5:37:THR:OG1	61:N5:38:LEU:N	2.43	0.52
63:N7:97:SER:O	63:N7:100:THR:OG1	3.21	0.52
66:O0:22:LYS:HD3	66:O0:94:GLU:HG3	3.76	0.52
68:O2:124:GLY:O	68:O2:126:LEU:N	3.41	0.52
77:Q1:15:ARG:NH1	1:6:1126:G:OP1	279.53	0.52
6:S4:49:ARG:HB3	6:S4:55:ALA:HB3	5.25	0.52
7:S5:77:TYR:CE2	7:S5:87:CYS:HB2	2.94	0.52
8:S6:129:VAL:O	60:N4:80:ARG:NH1	12.36	0.52
34:SR:222:LEU:O	34:SR:231:MET:HB2	2.09	0.52
36:1:1158:A:H2'	36:1:1159:A:H4'	1.91	0.52
36:1:1819:U:O4	85:1:3578:OHX:N4	2.42	0.52
36:1:2960:C:H2'	36:1:2961:G:C8	2.45	0.52
36:1:419:G:O6	85:1:3409:OHX:N6	2.43	0.52
1:2:422:G:N7	85:2:1986:OHX:N5	2.57	0.52
1:2:384:G:O6	85:2:2009:OHX:N6	2.43	0.52
1:2:275:C:H2'	1:2:276:C:C5	2.44	0.52
36:5:10:C:O2'	36:5:1558:A:N6	2.40	0.52
36:5:1659:U:H2'	36:5:1660:C:C6	2.45	0.52
36:5:2941:A:OP1	36:5:2943:G:O2'	2.27	0.52
85:5:3504:OHX:N4	85:5:3594:OHX:N2	2.57	0.52
35:SM:83:LYS:NZ	1:6:1190:C:N3	340.22	0.52
12:C0:51:SER:OG	1:6:1219:A:N3	432.24	0.52
1:6:12:U:H1'	1:6:1300:A:N3	2.25	0.52
19:C7:60:ARG:NH2	1:6:1400:A:H5'	410.55	0.52
26:D4:20:ARG:NH1	26:D4:22:GLN:OE1	3.06	0.52
40:L3:358:TRP:CZ2	40:L3:360:ASP:HA	2.71	0.52
44:L7:144:ILE:HD12	44:L7:189:ILE:HG13	1.90	0.52
46:L9:122:LYS:HG2	46:L9:123:ILE:H	3.08	0.52
47:M0:93:PRO:HB2	47:M0:125:LEU:HB3	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:23:VAL:HG12	52:M6:84:LEU:HD21	1.98	0.52
53:M7:9:THR:OG1	53:M7:151:THR:OG1	2.27	0.52
57:N1:14:MET:SD	57:N1:58:GLN:HG2	3.02	0.52
5:S3:29:LEU:HD22	5:S3:58:VAL:HG22	3.38	0.52
6:S4:11:ARG:HH11	6:S4:21:ASP:H	2.56	0.52
6:S4:173:ILE:HD11	6:S4:235:TYR:CE1	2.44	0.52
11:S9:34:PHE:HD1	11:S9:111:THR:HG21	1.75	0.52
11:S9:69:ARG:O	11:S9:73:GLY:N	2.90	0.52
34:SR:267:PRO:HD2	34:SR:269:TYR:CE1	3.91	0.52
36:1:1308:A:OP2	36:1:1308:A:C8	2.63	0.52
36:1:2279:A:H8	36:1:2283:G:HO2'	1.56	0.52
36:1:230:U:H2'	36:1:231:G:O4'	2.10	0.52
36:1:627:U:H2'	36:1:628:A:C8	2.45	0.52
36:1:679:U:H2'	36:1:680:G:C8	2.45	0.52
36:1:845:G:O6	85:1:3458:OHX:N5	2.43	0.52
36:1:980:A:H2'	36:1:981:U:C2	2.44	0.52
1:2:618:U:O4	1:2:1086:A:N6	2.43	0.52
1:2:1387:G:O2'	1:2:1410:A:N6	2.43	0.52
1:2:339:C:OP2	10:S8:10:LYS:NZ	2.41	0.52
1:2:542:A:N1	32:E0:28:LYS:HD2	2.25	0.52
1:2:703:G:H2'	1:2:704:C:H5'	1.92	0.52
1:2:829:A:O2'	1:2:830:U:OP2	2.25	0.52
37:3:92:A:C5	37:3:93:C:H1'	2.44	0.52
70:O4:4:ARG:HD2	36:5:1485:G:N2	151.96	0.52
36:5:166:C:H2'	36:5:167:U:H6	1.73	0.52
36:5:1880:U:H2'	36:5:1881:A:C8	2.42	0.52
40:L3:252:ILE:HG12	36:5:2393:G:H4'	212.76	0.52
36:5:3296:A:H2'	36:5:3297:U:C6	2.44	0.52
79:Q3:2:ALA:HB2	36:5:853:G:N7	252.17	0.52
36:5:873:C:OP2	36:5:874:U:O2'	2.23	0.52
44:L7:98:LYS:NZ	36:5:986:U:OP1	246.75	0.52
1:6:417:A:H4'	1:6:418:G:O5'	2.10	0.52
85:8:203:OHX:N6	85:8:211:OHX:N3	2.58	0.52
12:C0:15:LEU:HG	12:C0:68:LEU:HD22	1.91	0.52
13:C1:78:THR:HA	13:C1:84:ILE:HG22	2.17	0.52
20:C8:46:VAL:HG13	20:C8:72:ILE:HB	2.57	0.52
21:C9:54:PHE:CE1	21:C9:104:VAL:HG23	2.45	0.52
25:D3:125:VAL:HG13	25:D3:126:LYS:HG3	2.83	0.52
26:D4:61:ARG:NH2	1:6:530:C:O2	409.90	0.52
28:D6:10:ARG:HB2	28:D6:34:LYS:HA	1.91	0.52
7:S5:82:PHE:CE1	30:D8:49:ARG:HD2	3.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:77:THR:HG23	40:L3:326:GLY:O	2.09	0.52
44:L7:97:PRO:HG3	36:5:1139:G:OP1	230.88	0.52
45:L8:130:TYR:CD1	45:L8:202:GLU:HB3	2.44	0.52
46:L9:65:VAL:C	46:L9:67:ALA:H	2.13	0.52
47:M0:31:ILE:HD13	47:M0:65:LEU:HB3	1.90	0.52
49:M3:58:VAL:O	49:M3:69:VAL:HG22	2.39	0.52
50:M4:70:PHE:CE2	50:M4:72:LEU:HD23	2.45	0.52
52:M6:38:ALA:O	52:M6:41:LEU:HB2	2.09	0.52
53:M7:31:GLU:HG3	53:M7:60:PHE:HA	2.90	0.52
58:N2:90:ARG:O	58:N2:91:ASP:HB2	2.64	0.52
67:O1:62:ARG:HB2	67:O1:66:GLY:O	2.09	0.52
36:1:2766:U:H5''	78:Q2:37:ALA:HB1	1.91	0.52
78:Q2:52:GLY:O	78:Q2:54:THR:HG23	2.56	0.52
2:S0:140:ASN:OD1	2:S0:140:ASN:N	2.42	0.52
5:S3:23:GLU:OE2	31:D9:46:LYS:NZ	2.40	0.52
7:S5:149:VAL:CG1	7:S5:156:ARG:HG3	4.05	0.52
9:S7:150:GLN:HB3	9:S7:181:ILE:HD12	1.92	0.52
34:SR:211:ILE:HD11	34:SR:225:LEU:HD13	1.92	0.52
34:SR:225:LEU:O	34:SR:228:LYS:HG3	2.34	0.52
36:1:1079:A:C6	36:1:1080:A:C6	2.98	0.52
36:1:162:G:H1	36:1:259:C:H42	1.57	0.52
36:1:1740:U:H1'	36:1:1741:A:H2	1.73	0.52
36:1:187:A:N3	36:1:208:C:O2'	2.37	0.52
36:1:289:A:O2'	51:M5:93:LYS:O	2.27	0.52
36:1:3054:U:OP2	85:1:3423:OHX:N3	2.43	0.52
85:1:3569:OHX:N4	85:1:3582:OHX:N3	2.57	0.52
36:1:594:U:H2'	36:1:609:G:O6	2.10	0.52
1:2:1503:A:H2'	1:2:1504:G:O4'	2.10	0.52
1:2:1469:A:OP2	85:2:2039:OHX:N2	2.43	0.52
1:2:417:A:H4'	1:2:418:G:O5'	2.10	0.52
1:2:495:C:H3'	1:2:496:G:O4'	2.10	0.52
1:2:544:A:H5''	1:2:545:A:OP2	2.10	0.52
1:2:803:A:N3	9:S7:104:ARG:NE	2.57	0.52
38:4:127:U:C2'	38:4:128:U:H5'	2.40	0.52
36:5:1194:G:OP1	85:5:3517:OHX:N6	2.43	0.52
36:5:776:U:H5	36:5:2719:U:O2	1.93	0.52
36:5:2936:A:H2'	36:5:2937:G:C8	2.45	0.52
36:5:3041:U:H2'	36:5:3042:U:C6	2.44	0.52
36:5:3316:A:H5''	36:5:3318:G:N2	2.25	0.52
1:6:1332:C:H42	1:6:1419:G:H1	1.58	0.52
1:6:431:C:H2'	1:6:432:G:H8	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:550:A:OP2	85:6:1904:OHX:N2	2.43	0.52
1:6:719:U:C4	1:6:721:U:H5	2.28	0.52
1:6:811:A:HO2'	1:6:858:G:H8	1.56	0.52
38:8:78:G:H2'	38:8:79:A:O4'	2.10	0.52
16:C4:105:LEU:HA	16:C4:108:SER:HB3	1.92	0.52
39:L2:70:ARG:HD2	39:L2:72:ARG:HE	3.92	0.52
41:L4:141:ARG:HB3	41:L4:176:SER:OG	4.11	0.52
41:L4:36:HIS:O	41:L4:40:THR:HG23	2.12	0.52
44:L7:175:LYS:HE2	44:L7:176:TYR:CE1	2.85	0.52
45:L8:41:GLN:HG3	45:L8:44:ARG:HH12	1.74	0.52
53:M7:25:SER:HB3	53:M7:28:ASN:HB2	2.66	0.52
53:M7:29:THR:HG22	53:M7:87:SER:OG	2.09	0.52
59:N3:26:ALA:HB3	59:N3:101:VAL:HG13	1.92	0.52
63:N7:54:THR:HG23	63:N7:57:HIS:H	1.75	0.52
72:O6:40:VAL:O	72:O6:44:VAL:HG23	2.10	0.52
64:N8:128:ARG:HB3	72:O6:8:ALA:CB	2.94	0.52
36:1:2717:U:H4'	78:Q2:13:LYS:HD2	1.92	0.52
2:S0:22:THR:HG22	2:S0:169:SER:HB3	1.91	0.52
3:S1:70:LEU:HA	3:S1:73:LEU:HB2	4.65	0.52
5:S3:214:GLU:O	5:S3:216:PRO:HD3	2.10	0.52
9:S7:31:SER:O	9:S7:35:LYS:HB3	2.32	0.52
36:1:124:U:H2'	36:1:125:C:H6	1.75	0.51
36:1:1835:A:H3'	36:1:1836:C:C6	2.45	0.51
36:1:1919:G:H1'	36:1:1934:G:N2	2.25	0.51
36:1:2586:G:C5	45:L8:241:LYS:HB2	2.45	0.51
36:1:2701:U:OP2	57:N1:22:HIS:ND1	2.40	0.51
36:1:2724:U:OP1	57:N1:57:TYR:OH	2.22	0.51
36:1:2947:G:C2	40:L3:250:ALA:HB1	2.45	0.51
36:1:980:A:H2'	36:1:981:U:N1	2.25	0.51
1:2:1483:A:OP2	1:2:1521:G:N2	2.30	0.51
1:2:1518:C:OP1	85:2:1999:OHX:N5	2.43	0.51
1:2:583:C:H2'	1:2:584:C:H6	1.75	0.51
1:2:704:C:H3'	1:2:704:C:OP2	2.09	0.51
38:4:79:A:H2'	38:4:80:A:H1'	1.92	0.51
36:5:145:G:O6	85:5:3521:OHX:N5	2.43	0.51
36:5:1921:A:H2'	36:5:1922:A:C8	2.44	0.51
36:5:269:G:N2	36:5:295:A:OP2	2.26	0.51
36:5:3231:U:H2'	36:5:3232:G:C8	2.45	0.51
36:5:1331:U:OP2	85:5:3402:OHX:N3	2.42	0.51
43:L6:17:ALA:O	36:5:592:A:H5'	212.75	0.51
36:5:90:C:C2'	36:5:91:G:H5'	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1529:C:H2'	1:6:1530:C:C6	2.45	0.51
1:6:1698:G:H1'	1:6:1699:G:OP1	2.11	0.51
1:6:304:U:H2'	1:6:305:C:C6	2.45	0.51
85:7:203:OHX:N4	85:7:211:OHX:N2	2.58	0.51
14:C2:60:VAL:HG22	14:C2:122:VAL:HG22	2.69	0.51
17:C5:49:MET:O	17:C5:51:SER:N	4.38	0.51
19:C7:115:LEU:HD13	19:C7:116:LYS:H	1.74	0.51
20:C8:41:ARG:CZ	21:C9:46:PRO:HG3	3.59	0.51
39:L2:12:ALA:O	39:L2:14:SER:N	3.95	0.51
39:L2:70:ARG:HD2	39:L2:72:ARG:HG2	1.91	0.51
43:L6:2:SER:N	36:5:1385:C:HO2'	137.28	0.51
44:L7:29:GLU:O	44:L7:32:ALA:HB3	3.50	0.51
46:L9:150:SER:HB3	46:L9:153:ASP:HB2	2.60	0.51
48:M1:108:GLU:HB3	48:M1:110:ILE:HG12	1.91	0.51
48:M1:109:HIS:N	48:M1:123:PHE:O	3.02	0.51
49:M3:19:GLN:NE2	36:5:801:A:H61	130.95	0.51
52:M6:52:LEU:O	52:M6:55:HIS:N	2.41	0.51
53:M7:119:VAL:HB	53:M7:146:ILE:HG23	1.92	0.51
36:1:200:C:OP1	62:N6:60:ARG:NH1	2.43	0.51
62:N6:86:THR:HG22	62:N6:96:PRO:HA	2.43	0.51
71:O5:47:VAL:O	71:O5:51:ILE:HG13	2.41	0.51
72:O6:5:THR:HG23	72:O6:12:ASN:HB2	1.92	0.51
4:S2:168:ARG:NE	1:6:1098:U:OP2	384.24	0.51
6:S4:248:ILE:O	6:S4:252:ARG:N	2.91	0.51
7:S5:56:ALA:O	7:S5:58:LEU:N	3.66	0.51
36:1:2592:G:H4'	36:1:2594:C:C2	2.45	0.51
36:1:2680:A:C2	48:M1:57:PHE:HB3	2.45	0.51
56:N0:137:ARG:NH2	36:5:1214:U:OP2	330.02	0.51
36:5:1320:C:H2'	36:5:1321:G:H8	1.75	0.51
36:5:1463:U:H2'	36:5:1464:G:O4'	2.11	0.51
36:5:24:G:H2'	36:5:25:U:O4'	2.09	0.51
78:Q2:9:LYS:O	36:5:2713:U:H3'	224.02	0.51
36:5:3364:C:H2'	36:5:3365:U:H6	1.75	0.51
36:5:3395:G:O2'	85:5:3686:OHX:N1	2.43	0.51
36:5:956:U:H2'	36:5:957:C:H6	1.74	0.51
36:5:993:G:OP1	85:5:3413:OHX:N6	2.43	0.51
1:6:1419:G:H2'	1:6:1420:C:O4'	2.09	0.51
8:S6:143:LYS:HE2	1:6:143:G:OP1	305.88	0.51
1:6:722:G:HO2'	1:6:723:G:H8	1.57	0.51
16:C4:31:THR:OG1	16:C4:35:GLY:HA2	2.42	0.51
26:D4:47:VAL:HG23	26:D4:48:TYR:CD2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:144:ASN:ND2	39:L2:161:ASP:OD1	3.63	0.51
40:L3:105:VAL:HG11	40:L3:148:LEU:HD13	2.66	0.51
41:L4:25:VAL:O	41:L4:127:ALA:HB2	2.63	0.51
41:L4:142:VAL:HB	41:L4:145:ILE:HD13	3.54	0.51
41:L4:232:SER:O	41:L4:233:LEU:HB2	2.09	0.51
41:L4:26:PHE:CD1	41:L4:130:ALA:HB2	3.36	0.51
42:L5:86:TYR:CD1	42:L5:247:ILE:HA	2.71	0.51
49:M3:44:ALA:C	49:M3:46:ILE:H	3.14	0.51
50:M4:38:ILE:HD11	56:N0:150:PHE:CE2	2.44	0.51
54:M8:176:ARG:HG3	36:5:2763:U:H5'	181.66	0.51
62:N6:36:SER:HB2	62:N6:37:LYS:HE2	4.07	0.51
64:N8:73:LEU:HD21	64:N8:78:LEU:HA	1.91	0.51
68:O2:47:ARG:HB2	36:5:1146:C:OP1	213.84	0.51
70:O4:46:ASP:OD1	70:O4:46:ASP:N	4.14	0.51
61:N5:45:LYS:HG2	71:O5:75:TYR:CD2	2.45	0.51
3:S1:180:THR:HG22	3:S1:181:LEU:HD13	1.92	0.51
5:S3:64:ARG:HH22	5:S3:65:ARG:HD3	8.81	0.51
11:S9:93:LEU:O	11:S9:96:VAL:HG22	2.39	0.51
34:SR:201:THR:CB	34:SR:242:SER:HA	2.41	0.51
36:1:1633:C:H2'	36:1:1634:G:H8	1.76	0.51
36:1:1919:G:N7	85:1:3550:OHX:N5	2.58	0.51
1:2:1367:G:C2	1:2:1368:G:C8	2.98	0.51
1:2:1558:U:O2'	1:2:1559:A:OP1	2.22	0.51
1:2:413:U:H2'	1:2:414:C:C6	2.46	0.51
54:M8:38:ARG:NE	36:5:1347:U:OP2	193.16	0.51
55:M9:64:ARG:NH2	36:5:1672:U:OP1	172.77	0.51
55:M9:85:ARG:NH2	36:5:1916:U:O3'	230.47	0.51
39:L2:193:ARG:HD2	36:5:2182:A:OP1	191.62	0.51
56:N0:169:SER:HA	36:5:3185:U:O2	301.77	0.51
1:6:1171:A:H2'	1:6:1172:G:C8	2.46	0.51
1:6:852:C:H2'	1:6:853:G:H8	1.75	0.51
1:2:325:G:H4'	13:C1:83:THR:HG21	1.93	0.51
19:C7:30:THR:HG22	34:SR:127:ARG:HH22	5.51	0.51
24:D2:46:TYR:HB3	24:D2:69:LEU:HD22	1.91	0.51
29:D7:41:LEU:HD23	29:D7:41:LEU:H	2.81	0.51
29:D7:7:LEU:O	29:D7:10:PRO:HD3	3.04	0.51
39:L2:188:LYS:HD2	39:L2:189:TYR:CZ	5.89	0.51
43:L6:56:LYS:H	43:L6:64:LEU:HB3	1.75	0.51
43:L6:89:THR:HG21	50:M4:115:PHE:HB2	1.91	0.51
44:L7:36:ALA:HA	44:L7:39:GLU:HG3	1.91	0.51
48:M1:141:ARG:O	48:M1:145:LYS:HE2	2.61	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:54:LEU:HD12	49:M3:75:PHE:CE2	2.45	0.51
53:M7:172:GLN:NE2	69:O3:60:ARG:O	2.43	0.51
60:N4:39:LEU:HG	60:N4:44:LYS:HG3	1.92	0.51
62:N6:35:LEU:HD23	62:N6:106:ILE:HD12	2.27	0.51
71:O5:10:ARG:NH2	38:8:65:A:O3'	33.10	0.51
71:O5:64:GLU:HA	71:O5:67:ARG:HB2	2.48	0.51
75:O9:44:TRP:CZ3	75:O9:45:ARG:HG3	2.46	0.51
2:S0:48:ILE:HD13	2:S0:161:PRO:HB2	2.90	0.51
4:S2:140:ARG:HB2	4:S2:222:TYR:CE1	2.45	0.51
8:S6:24:ILE:O	8:S6:26:VAL:N	2.43	0.51
34:SR:249:ARG:HH12	34:SR:315:VAL:HG21	3.85	0.51
36:1:1240:A:H3'	36:1:1241:U:C5'	2.40	0.51
36:1:1259:A:O2'	36:1:1281:G:OP1	2.28	0.51
36:1:1791:C:H2'	36:1:1792:C:C6	2.46	0.51
36:1:1800:A:H2'	36:1:1801:U:O4'	2.11	0.51
36:1:2356:A:OP1	53:M7:138:LYS:HE3	2.10	0.51
36:1:2651:G:H4'	36:1:2652:U:OP2	2.11	0.51
36:1:439:C:H3'	36:1:440:A:C8	2.45	0.51
36:1:439:C:H5'	36:1:440:A:C8	2.45	0.51
36:1:860:G:OP2	39:L2:181:LYS:NZ	2.43	0.51
85:2:1922:OHX:N1	85:2:1977:OHX:N5	2.58	0.51
36:5:1944:U:H2'	36:5:1945:A:H8	1.75	0.51
36:5:196:G:N7	85:5:3446:OHX:N3	2.59	0.51
36:5:2768:U:H2'	36:5:2769:A:C8	2.45	0.51
36:5:3110:C:H2'	36:5:3111:U:C6	2.46	0.51
85:5:3514:OHX:N6	85:5:3705:OHX:N2	2.59	0.51
1:6:1271:G:H2'	1:6:1272:U:O4'	2.10	0.51
1:6:1458:G:H5''	1:6:1459:C:OP2	2.10	0.51
1:6:1765:A:OP2	85:6:1980:OHX:N4	2.43	0.51
1:6:867:G:O6	85:6:1912:OHX:N1	2.43	0.51
1:6:975:C:H2'	1:6:976:G:O4'	2.10	0.51
10:S8:69:SER:HB3	13:C1:20:PHE:HZ	1.74	0.51
16:C4:16:VAL:O	16:C4:30:VAL:HA	2.11	0.51
21:C9:17:ALA:O	21:C9:21:PHE:N	2.88	0.51
21:C9:64:HIS:CE1	21:C9:79:LEU:HD22	3.83	0.51
24:D2:94:LEU:HD11	24:D2:102:VAL:HG23	1.91	0.51
24:D2:28:ARG:HG3	24:D2:29:PRO:HB3	1.93	0.51
27:D5:42:LEU:HD22	27:D5:47:TYR:HB2	6.22	0.51
11:S9:123:HIS:CE1	32:E0:37:ARG:HD2	3.51	0.51
41:L4:361:HIS:CG	41:L4:362:ASP:H	2.47	0.51
36:1:1169:A:H4'	44:L7:219:LYS:HD3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:36:LEU:HD12	47:M0:87:LEU:HB3	4.36	0.51
48:M1:91:LEU:HB3	48:M1:95:ASN:HD22	1.76	0.51
51:M5:143:ARG:CZ	71:O5:92:LEU:HD23	2.40	0.51
51:M5:44:ARG:HH12	36:5:269:G:P	125.26	0.51
52:M6:54:TYR:CD2	52:M6:58:LEU:HD22	2.73	0.51
56:N0:129:ILE:HG23	56:N0:134:ASP:HB2	2.97	0.51
64:N8:77:LYS:O	64:N8:79:TRP:N	2.46	0.51
67:O1:44:MET:HB3	67:O1:77:ARG:NH1	4.01	0.51
70:O4:5:VAL:HG22	70:O4:6:THR:H	1.80	0.51
2:S0:177:LEU:O	2:S0:181:VAL:HG13	2.09	0.51
8:S6:130:PRO:HA	60:N4:81:PRO:HG2	1.91	0.51
36:1:1132:C:H2'	36:1:1133:A:C8	2.44	0.51
36:1:2112:U:H4'	36:1:2113:A:H5'	1.93	0.51
36:1:3333:G:N2	36:1:3369:G:O2'	2.42	0.51
85:1:3540:OHX:N3	85:1:3711:OHX:N3	2.59	0.51
36:1:914:A:C5	39:L2:199:THR:HG21	2.46	0.51
1:2:1073:G:H4'	15:C3:10:GLY:HA2	1.93	0.51
1:2:872:G:O6	85:2:2005:OHX:N3	2.44	0.51
44:L7:196:LYS:HE2	36:5:1100:U:OP2	244.99	0.51
36:5:1235:U:H4'	36:5:1236:G:H5'	1.91	0.51
36:5:1367:G:HO2'	36:5:1368:U:H6	1.58	0.51
70:O4:36:LYS:NZ	36:5:1594:A:OP1	150.29	0.51
69:O3:92:LYS:HG2	36:5:3173:G:O6	221.41	0.51
36:5:1806:A:OP2	85:5:3528:OHX:N5	2.43	0.51
1:6:1095:U:O4	85:6:2034:OHX:N2	2.43	0.51
1:6:1512:G:H2'	1:6:1513:G:H8	1.76	0.51
1:6:1417:A:OP1	85:6:1941:OHX:N4	2.44	0.51
1:6:990:C:OP2	85:6:1975:OHX:N2	2.43	0.51
38:8:88:A:H2'	38:8:89:A:O4'	2.10	0.51
15:C3:33:VAL:O	15:C3:37:ILE:HG12	3.76	0.51
17:C5:16:SER:HA	17:C5:21:ASP:HA	2.45	0.51
28:D6:47:ALA:O	28:D6:50:VAL:HG12	2.10	0.51
40:L3:227:GLU:HG3	40:L3:270:ARG:NE	4.88	0.51
40:L3:306:THR:HG21	40:L3:316:GLU:HG2	1.93	0.51
41:L4:146:PRO:HG2	41:L4:150:LEU:HD21	1.91	0.51
41:L4:76:ARG:HA	41:L4:87:GLN:O	2.10	0.51
45:L8:165:PHE:HZ	51:M5:3:ALA:HB1	3.15	0.51
45:L8:24:ASN:N	45:L8:25:PRO:HD2	2.25	0.51
48:M1:94:ARG:C	48:M1:96:PHE:H	2.41	0.51
51:M5:199:LEU:HD13	51:M5:203:ARG:CZ	3.07	0.51
50:M4:109:ARG:HD3	52:M6:199:TYR:CE2	3.07	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:16:GLY:O	63:N7:18:TYR:N	2.44	0.51
67:O1:72:ARG:NH2	67:O1:104:LEU:HB2	3.35	0.51
36:1:3173:G:C2	69:O3:96:ALA:HB2	2.46	0.51
78:Q2:6:LYS:HD2	78:Q2:94:GLY:HA3	5.20	0.51
6:S4:100:ARG:O	6:S4:102:VAL:HG12	3.28	0.51
7:S5:117:THR:HG21	7:S5:194:LEU:HD13	3.05	0.51
9:S7:154:LEU:HD21	9:S7:183:PHE:HD1	1.75	0.51
36:1:999:G:O2'	36:1:1000:C:H5'	2.11	0.51
36:1:2273:G:O2'	36:1:2274:U:OP2	2.28	0.51
36:1:269:G:N2	36:1:295:A:OP2	2.37	0.51
36:1:3139:A:OP1	40:L3:274:SER:HB2	2.11	0.51
36:1:385:A:H2'	36:1:386:A:C8	2.46	0.51
36:1:435:C:H2'	36:1:436:A:H8	1.76	0.51
36:1:511:G:H2'	36:1:512:U:O4'	2.11	0.51
1:2:1291:G:N2	1:2:1324:G:H22	2.09	0.51
38:4:93:U:H2'	38:4:94:C:C6	2.44	0.51
70:O4:37:LYS:NZ	36:5:1591:G:OP1	160.13	0.51
36:5:2722:U:H2'	36:5:2723:U:H6	1.76	0.51
1:6:1273:G:O5'	1:6:1274:C:H3'	2.11	0.51
1:6:1752:U:OP2	85:6:1915:OHX:N5	2.43	0.51
42:L5:8:LYS:HD2	37:7:15:C:O2'	313.57	0.51
12:C0:77:ARG:HA	12:C0:82:LEU:HD12	1.93	0.51
12:C0:73:VAL:O	12:C0:77:ARG:HG3	4.92	0.51
20:C8:97:ASP:N	20:C8:97:ASP:OD2	2.44	0.51
39:L2:227:ARG:HG2	39:L2:239:ALA:HB2	1.91	0.51
39:L2:70:ARG:CZ	39:L2:72:ARG:HH21	6.01	0.51
39:L2:59:ALA:HB3	39:L2:76:PHE:HB2	2.27	0.51
36:1:3304:U:O3'	40:L3:334:ARG:NH2	2.43	0.51
43:L6:86:ALA:H	69:O3:107:ILE:C	2.14	0.51
46:L9:41:ILE:HD13	46:L9:67:ALA:HB1	3.77	0.51
46:L9:23:ARG:HH21	46:L9:42:ASP:H	1.58	0.51
47:M0:77:THR:OG1	47:M0:78:THR:N	2.43	0.51
51:M5:192:LYS:O	51:M5:196:THR:OG1	2.70	0.51
52:M6:18:ARG:O	52:M6:22:VAL:HG12	3.43	0.51
55:M9:4:LEU:O	55:M9:7:GLN:HG2	5.53	0.51
63:N7:51:LEU:HD12	63:N7:65:ARG:HD2	2.63	0.51
54:M8:170:ARG:NH2	64:N8:58:MET:O	2.44	0.51
49:M3:159:VAL:HB	64:N8:96:LYS:HD3	2.03	0.51
63:N7:3:LYS:HD3	66:O0:36:GLN:HA	3.14	0.51
71:O5:32:LYS:HG2	71:O5:44:ILE:HD11	1.93	0.51
3:S1:222:LYS:HD3	3:S1:223:PHE:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:127:MET:HE1	5:S3:155:GLY:HA3	1.92	0.51
5:S3:60:GLY:O	5:S3:62:ASN:N	3.17	0.51
9:S7:42:GLN:HG2	9:S7:43:PHE:H	1.75	0.51
36:1:1400:G:C2	36:1:1401:A:C8	2.98	0.51
36:1:2213:A:H2'	36:1:2214:A:C8	2.45	0.51
36:1:2352:A:C6	36:1:2353:G:C6	2.99	0.51
36:1:2621:G:C6	36:1:2622:C:C4	2.99	0.51
36:1:2836:C:H5	36:1:2852:C:N4	1.99	0.51
36:1:2897:A:OP2	76:Q0:124:LYS:NZ	2.39	0.51
36:1:2943:G:OP2	40:L3:2:SER:HB2	2.11	0.51
36:1:3152:U:O2'	36:1:3153:U:H5'	2.10	0.51
36:1:670:C:P	54:M8:147:ARG:NH2	2.84	0.51
1:2:1581:C:O2'	1:2:1582:U:H5'	2.11	0.51
1:2:45:U:O2	1:2:434:G:H1'	2.11	0.51
1:2:68:A:O2'	1:2:69:G:OP2	2.24	0.51
37:3:26:C:H5'	42:L5:56:THR:HB	1.91	0.51
37:3:30:G:C6	37:3:31:U:C4	2.99	0.51
38:4:70:G:N2	38:4:87:G:O2'	2.42	0.51
51:M5:49:ARG:HH21	36:5:115:A:P	100.07	0.51
36:5:1528:G:H1	36:5:1832:C:H42	1.57	0.51
53:M7:138:LYS:NZ	36:5:2356:A:OP1	147.82	0.51
36:5:3231:U:H2'	36:5:3232:G:H8	1.75	0.51
85:5:3559:OHX:N1	85:5:3704:OHX:N2	2.59	0.51
14:C2:30:VAL:HB	14:C2:132:GLU:HG3	2.31	0.51
15:C3:65:VAL:C	15:C3:67:THR:H	2.91	0.51
19:C7:46:LEU:HD22	19:C7:46:LEU:O	2.11	0.51
42:L5:122:VAL:HG23	42:L5:123:GLU:H	4.16	0.51
44:L7:219:LYS:O	44:L7:228:SER:HB2	2.99	0.51
50:M4:113:THR:HB	50:M4:116:GLU:HG3	2.15	0.51
54:M8:30:VAL:O	54:M8:32:LEU:N	2.85	0.51
36:1:1498:A:OP1	55:M9:6:THR:HG21	2.11	0.51
65:N9:51:ALA:O	65:N9:54:LEU:N	2.62	0.51
67:O1:7:VAL:HG13	67:O1:77:ARG:O	3.52	0.51
69:O3:8:TYR:HB2	69:O3:100:ILE:O	2.10	0.51
70:O4:29:ILE:HD11	70:O4:31:ARG:NH2	2.26	0.51
71:O5:59:ASN:OD1	71:O5:63:ARG:HG3	2.10	0.51
2:S0:55:GLU:O	2:S0:58:VAL:HB	2.11	0.51
1:2:122:U:H5''	6:S4:77:ARG:NH2	2.24	0.51
7:S5:149:VAL:HG13	7:S5:151:GLY:N	4.94	0.51
10:S8:156:VAL:O	10:S8:159:GLN:HB2	2.76	0.51
11:S9:77:ILE:O	11:S9:81:VAL:HG23	3.65	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1095:U:H4'	36:1:1096:U:H5''	1.92	0.51
36:1:1246:G:OP1	36:1:1246:G:H8	1.94	0.51
36:1:126:U:H2'	36:1:127:G:O4'	2.10	0.51
36:1:1563:C:O2	36:1:1577:G:N2	2.42	0.51
36:1:1565:G:N2	36:1:1574:C:C2	2.79	0.51
36:1:1615:C:H2'	36:1:1616:U:C6	2.46	0.51
36:1:1781:C:H2'	36:1:1782:U:H6	1.75	0.51
36:1:2735:U:H2'	36:1:2736:A:C8	2.46	0.51
1:2:1070:C:H2'	1:2:1071:U:C6	2.46	0.51
1:2:350:U:H4'	1:2:351:C:H3'	1.93	0.51
36:5:1284:C:O2'	36:5:1285:G:H5'	2.11	0.51
36:5:1554:U:H3	36:5:1582:C:H5	1.57	0.51
36:5:1804:A:H2'	36:5:1805:C:C6	2.45	0.51
36:5:1947:G:H5''	36:5:1948:G:OP2	2.10	0.51
51:M5:12:ARG:HG2	36:5:268:A:C4	127.52	0.51
36:5:2785:A:H2'	36:5:2786:G:O4'	2.11	0.51
40:L3:120:LYS:NZ	36:5:3001:C:OP1	203.84	0.51
36:5:1656:A:O2'	85:5:3681:OHX:N2	2.44	0.51
36:5:400:G:H4'	36:5:401:U:O5'	2.11	0.51
85:6:1914:OHX:N1	85:6:2001:OHX:N4	2.59	0.51
1:6:827:C:H2'	1:6:828:U:C6	2.41	0.51
13:C1:110:HIS:HD2	13:C1:138:ASN:ND2	2.99	0.51
14:C2:50:LYS:O	14:C2:54:ARG:HG2	2.10	0.51
22:D0:118:VAL:HG22	22:D0:119:ALA:H	1.76	0.51
24:D2:53:ILE:HG23	24:D2:60:LYS:HB2	1.93	0.51
26:D4:124:ARG:O	26:D4:127:LYS:HB3	4.79	0.51
24:D2:26:LEU:HB2	29:D7:7:LEU:HD13	1.92	0.51
32:E0:30:PRO:O	32:E0:35:TYR:HB2	2.24	0.51
32:E0:50:VAL:HA	32:E0:53:LYS:O	2.11	0.51
41:L4:181:VAL:HG12	41:L4:182:LEU:H	1.74	0.51
41:L4:280:ILE:HD11	54:M8:23:ASN:HD21	1.76	0.51
41:L4:93:MET:CE	41:L4:93:MET:H	3.97	0.51
42:L5:205:SER:OG	42:L5:206:GLN:N	2.44	0.51
42:L5:45:ASN:O	42:L5:47:PRO:HD3	2.45	0.51
43:L6:44:ALA:HB1	36:5:3273:A:H4'	244.52	0.51
36:1:1334:U:H5''	44:L7:206:LYS:HB3	1.93	0.51
47:M0:194:GLY:O	47:M0:196:PHE:N	4.64	0.51
52:M6:33:ILE:O	52:M6:102:LEU:HD12	2.11	0.51
52:M6:51:LYS:HE3	52:M6:144:SER:HB2	1.92	0.51
63:N7:83:THR:HA	66:O0:58:TYR:HE2	2.25	0.51
67:O1:48:ASP:OD2	67:O1:50:ARG:NH2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:O7:19:CYS:O	73:O7:23:GLY:N	2.44	0.51
6:S4:187:ARG:HH22	1:6:753:A:N6	373.85	0.51
6:S4:191:ARG:HH11	6:S4:245:LYS:HD3	1.76	0.51
6:S4:65:LEU:C	6:S4:67:GLN:H	2.14	0.51
36:1:1674:G:N2	36:1:1773:C:O2	2.42	0.51
36:1:19:U:H3	38:4:140:G:H1	1.59	0.51
36:1:2179:C:N3	39:L2:173:GLY:N	2.37	0.51
36:1:2667:A:H2'	36:1:2668:U:O4'	2.10	0.51
36:1:2942:C:O2	85:1:3672:OHX:N3	2.44	0.51
1:2:1015:U:H5''	1:2:1016:C:OP2	2.11	0.51
70:O4:72:VAL:HG11	36:5:1639:C:H5''	193.34	0.51
36:5:3011:A:N3	36:5:3012:A:H1'	2.25	0.51
36:5:3017:A:H2'	36:5:3018:C:C6	2.46	0.51
43:L6:45:GLY:H	36:5:3273:A:H4'	244.18	0.51
39:L2:181:LYS:HB2	36:5:860:G:C6	212.58	0.51
1:6:1263:G:H2'	1:6:1264:G:O4'	2.11	0.51
1:6:383:G:N7	85:6:2003:OHX:N5	2.59	0.51
1:6:1645:G:OP2	85:6:2037:OHX:N3	2.44	0.51
85:7:203:OHX:N3	85:7:211:OHX:N6	2.58	0.51
13:C1:3:THR:OG1	13:C1:82:ARG:NE	2.40	0.51
15:C3:56:ASP:OD2	29:D7:51:GLN:N	4.96	0.51
1:2:1460:A:C8	17:C5:128:HIS:HB3	2.46	0.51
19:C7:71:PHE:HD1	19:C7:73:LEU:HB3	1.76	0.51
25:D3:107:PHE:CE2	25:D3:114:LYS:HB2	2.46	0.51
25:D3:102:VAL:HG12	25:D3:127:VAL:HG23	4.67	0.51
25:D3:89:ASN:HB2	25:D3:92:CYS:SG	2.91	0.51
39:L2:27:ALA:O	39:L2:128:ARG:NH2	2.50	0.51
41:L4:230:VAL:C	41:L4:232:SER:H	3.12	0.51
44:L7:47:ARG:HH22	44:L7:179:LEU:HD11	1.75	0.51
44:L7:80:GLN:OE1	57:N1:136:ARG:HB2	3.52	0.51
36:1:2550:U:C5	45:L8:37:GLY:HA3	2.45	0.51
47:M0:141:LYS:O	47:M0:143:SER:N	2.32	0.51
48:M1:82:ARG:HG3	48:M1:112:LEU:HB2	1.93	0.51
49:M3:93:ILE:O	49:M3:95:ILE:HG13	2.11	0.51
56:N0:8:GLN:HG3	56:N0:26:ARG:NE	2.25	0.51
62:N6:19:TYR:CE2	36:5:216:G:H4'	71.43	0.51
67:O1:13:THR:HG23	67:O1:72:ARG:NH1	2.25	0.51
72:O6:34:SER:HG	72:O6:37:THR:HG1	1.58	0.51
78:Q2:89:LYS:HB2	36:5:2653:C:OP1	237.26	0.51
4:S2:243:TYR:HB3	4:S2:246:GLU:HB2	1.91	0.51
4:S2:89:GLN:HA	4:S2:94:GLN:HA	2.86	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:115:ILE:HG21	35:SM:110:TRP:HA	1.93	0.51
34:SR:89:LEU:HD21	34:SR:110:VAL:HG11	1.92	0.51
34:SR:135:THR:HG23	34:SR:139:GLN:O	2.10	0.51
34:SR:282:SER:N	1:6:1394:G:OP1	416.75	0.51
36:1:1421:G:C2	36:1:1422:G:C8	2.99	0.51
36:1:3192:U:H2'	36:1:3193:C:H6	1.75	0.51
36:1:3136:G:OP2	85:1:3635:OHX:N6	2.44	0.51
1:2:1267:G:HO2'	1:2:1448:G:HO2'	1.58	0.51
1:2:391:A:OP2	10:S8:23:LYS:HD3	2.11	0.51
1:2:889:U:H2'	1:2:890:C:O4'	2.11	0.51
1:2:969:C:P	1:2:1032:G:H21	2.34	0.51
36:5:1807:G:C6	36:5:1808:G:N1	2.79	0.51
36:5:2211:U:H5	36:5:2234:G:O6	1.93	0.51
36:5:2514:U:OP1	36:5:2514:U:C6	2.64	0.51
36:5:3362:A:H2'	36:5:3363:U:O4'	2.09	0.51
1:6:1342:C:H2'	1:6:1343:U:C6	2.46	0.51
1:6:1595:U:H5	1:6:1596:C:C5	2.29	0.51
24:D2:105:THR:HG22	1:6:804:A:N3	366.45	0.51
38:8:150:G:O2'	38:8:152:G:OP1	2.26	0.51
15:C3:27:LYS:HE2	15:C3:27:LYS:H	1.76	0.51
23:D1:5:LYS:O	23:D1:7:GLN:N	2.44	0.51
27:D5:47:TYR:CZ	27:D5:51:LEU:HD11	3.31	0.51
27:D5:38:HIS:HA	27:D5:70:LYS:HG2	9.15	0.51
39:L2:152:SER:OG	39:L2:153:GLY:N	2.38	0.51
40:L3:332:ARG:O	40:L3:333:LYS:HB2	2.32	0.51
42:L5:59:ASP:OD1	42:L5:81:HIS:ND1	5.57	0.51
45:L8:123:GLN:C	45:L8:125:ALA:H	3.12	0.51
45:L8:46:LEU:O	45:L8:48:ARG:N	2.44	0.51
47:M0:116:ARG:HH21	36:5:2618:G:P	229.06	0.51
47:M0:72:ALA:HB2	47:M0:155:ALA:HB2	1.93	0.51
56:N0:104:GLU:O	56:N0:108:GLN:HG2	2.11	0.51
67:O1:16:LEU:O	67:O1:20:LEU:N	2.44	0.51
67:O1:46:THR:O	67:O1:48:ASP:N	3.72	0.51
3:S1:128:LYS:NZ	3:S1:132:ASP:HB3	2.26	0.51
7:S5:71:ALA:HB1	7:S5:91:GLU:HA	1.92	0.51
11:S9:80:LEU:HB3	11:S9:86:LEU:HB2	2.58	0.51
35:SM:64:LYS:O	35:SM:66:ALA:N	2.70	0.51
34:SR:301:LEU:N	34:SR:313:TRP:O	2.84	0.51
36:1:1243:G:N2	36:1:1244:A:N7	2.59	0.50
36:1:1636:U:H5''	63:N7:73:LYS:NZ	2.25	0.50
36:1:1675:G:H2'	36:1:1676:A:H8	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2933:A:C2	36:1:3014:U:H4'	2.46	0.50
36:1:3275:U:H5'	69:O3:68:TRP:HZ2	1.76	0.50
85:1:3569:OHX:N6	85:1:3582:OHX:N3	2.59	0.50
36:1:373:A:N1	36:1:394:G:H4'	2.25	0.50
36:1:551:A:O2'	36:1:552:G:O5'	2.29	0.50
36:1:807:A:H61	36:1:934:G:H22	1.59	0.50
1:2:542:A:HO2'	1:2:543:C:C5'	2.24	0.50
1:2:885:G:N2	16:C4:123:SER:HB2	2.26	0.50
36:1:409:A:H61	38:4:15:G:H1'	1.76	0.50
38:4:81:U:O2'	38:4:82:U:H5'	2.10	0.50
36:5:1336:U:OP2	85:5:3704:OHX:N5	2.44	0.50
58:N2:104:ARG:NH2	36:5:1758:G:H5'	119.74	0.50
36:5:1896:A:C6	36:5:1897:G:C6	2.99	0.50
85:5:3539:OHX:N4	85:5:3742:OHX:N1	2.60	0.50
1:6:1733:C:H2'	1:6:1734:U:H6	1.75	0.50
85:6:1975:OHX:N6	85:6:2025:OHX:N3	2.59	0.50
1:6:448:C:H2'	1:6:449:C:H6	1.74	0.50
1:6:813:U:H4'	1:6:814:A:OP2	2.11	0.50
1:2:1549:C:P	17:C5:39:ALA:H	2.33	0.50
22:D0:117:VAL:HG22	22:D0:118:VAL:H	1.77	0.50
22:D0:69:LYS:HE2	22:D0:80:GLU:HG3	3.36	0.50
25:D3:68:ILE:O	25:D3:70:LYS:NZ	2.35	0.50
1:2:523:G:P	26:D4:37:LYS:HZ2	2.34	0.50
39:L2:86:GLN:HG2	39:L2:88:ILE:HD12	1.94	0.50
42:L5:97:ALA:O	42:L5:101:THR:OG1	2.28	0.50
43:L6:171:PRO:C	43:L6:173:MET:H	2.60	0.50
44:L7:151:ARG:HD3	44:L7:207:LEU:HD23	1.93	0.50
47:M0:189:GLU:HB3	47:M0:200:LEU:HB3	2.47	0.50
49:M3:57:VAL:HG22	49:M3:147:ILE:HD13	3.11	0.50
62:N6:53:ASP:HB2	62:N6:110:HIS:HD2	1.73	0.50
63:N7:18:TYR:CE1	63:N7:47:GLU:HG3	4.11	0.50
71:O5:101:THR:HG23	71:O5:104:GLN:HB2	1.93	0.50
78:Q2:73:GLU:OE1	78:Q2:80:ARG:NH2	2.44	0.50
79:Q3:34:HIS:O	79:Q3:48:LYS:HE2	2.11	0.50
2:S0:190:ASP:OD1	2:S0:190:ASP:N	3.68	0.50
5:S3:76:ARG:HH11	5:S3:77:PHE:HA	1.76	0.50
11:S9:34:PHE:CD2	11:S9:105:LEU:HD23	2.46	0.50
11:S9:44:ARG:O	11:S9:48:GLN:HG3	2.11	0.50
36:1:1103:A:N6	36:1:1363:A:H1'	2.26	0.50
36:1:1930:A:O2'	85:1:3434:OHX:N4	2.44	0.50
36:1:3104:U:H5''	36:1:3128:G:O6	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:103:G:OP2	38:4:105:A:O2'	2.22	0.50
36:5:2395:G:H1	36:5:2985:C:H42	1.59	0.50
36:5:3354:U:H4'	36:5:3355:U:H5''	1.92	0.50
41:L4:84:ARG:HB2	36:5:365:A:H4'	123.57	0.50
1:6:521:A:H2'	1:6:522:U:O4'	2.12	0.50
1:6:696:C:H4'	1:6:697:C:C6	2.45	0.50
1:6:793:A:H3'	1:6:794:U:H5'	1.92	0.50
1:6:793:A:C3'	1:6:794:U:H5'	2.40	0.50
37:7:79:A:OP2	85:7:211:OHX:N5	2.44	0.50
38:8:100:U:OP2	85:8:205:OHX:N2	2.44	0.50
22:D0:105:GLN:HG3	22:D0:106:ILE:N	2.26	0.50
22:D0:118:VAL:HG13	22:D0:119:ALA:H	2.62	0.50
24:D2:93:LEU:O	24:D2:94:LEU:HD23	2.86	0.50
25:D3:137:LYS:HE3	25:D3:139:LYS:HD2	1.93	0.50
26:D4:84:LYS:HG3	26:D4:85:PHE:N	2.26	0.50
28:D6:31:PRO:HB2	28:D6:34:LYS:HB3	1.93	0.50
40:L3:153:LYS:HG2	40:L3:154:TYR:CZ	4.13	0.50
41:L4:128:ALA:HB1	41:L4:134:LEU:HD12	1.92	0.50
42:L5:155:THR:HA	42:L5:179:ARG:HD3	1.94	0.50
42:L5:106:ALA:HB2	42:L5:166:ALA:HA	1.93	0.50
45:L8:84:ARG:NE	45:L8:84:ARG:H	2.05	0.50
46:L9:7:GLU:OE1	46:L9:54:LYS:NZ	2.42	0.50
47:M0:4:ARG:NH2	47:M0:99:ILE:HG13	2.26	0.50
49:M3:73:ARG:HH21	36:5:108:A:H2	78.49	0.50
57:N1:83:ARG:NH1	57:N1:85:LEU:HD21	2.26	0.50
66:O0:84:LEU:HD12	66:O0:84:LEU:H	2.51	0.50
68:O2:19:ARG:HE	68:O2:33:ARG:HB3	2.52	0.50
79:Q3:8:VAL:HB	79:Q3:11:THR:HG22	1.94	0.50
6:S4:15:PRO:HA	6:S4:39:ARG:NH1	4.22	0.50
7:S5:127:GLN:HG2	7:S5:128:ASN:H	4.31	0.50
9:S7:133:THR:HG21	9:S7:162:ILE:HD11	1.92	0.50
34:SR:26:SER:HB2	34:SR:73:LEU:HD13	1.94	0.50
36:1:1495:U:H5	36:1:1835:A:N1	2.09	0.50
36:1:2273:G:N2	36:1:2311:G:H2'	2.27	0.50
36:1:2407:C:H2'	36:1:2408:U:C6	2.45	0.50
36:1:255:A:H2'	36:1:256:G:H8	1.76	0.50
36:1:3:U:H2'	36:1:4:U:O4'	2.11	0.50
1:2:1140:G:N7	85:2:1943:OHX:N4	2.60	0.50
36:5:1616:U:H2'	36:5:1617:G:C8	2.47	0.50
70:O4:63:ALA:HB2	36:5:1803:C:H5'	158.22	0.50
36:5:2836:C:H5	36:5:2852:C:N4	2.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2885:C:C2'	36:5:2886:U:H5'	2.41	0.50
36:5:989:A:H2'	36:5:990:U:O4'	2.12	0.50
85:6:1975:OHX:N4	85:6:2025:OHX:N3	2.59	0.50
1:6:330:G:H2'	1:6:331:A:C8	2.46	0.50
1:6:76:A:H2'	1:6:76:A:N3	2.25	0.50
16:C4:85:ALA:N	16:C4:119:THR:HG22	2.18	0.50
1:2:1788:G:OP2	16:C4:127:ARG:NH2	2.44	0.50
2:S0:185:ARG:HG3	23:D1:47:PRO:HD3	1.93	0.50
25:D3:7:ARG:HB2	25:D3:7:ARG:NH1	2.25	0.50
28:D6:79:ILE:HA	28:D6:84:VAL:HG11	1.93	0.50
7:S5:143:ARG:HD3	30:D8:55:VAL:HG11	2.11	0.50
41:L4:33:ASP:O	41:L4:37:THR:HG23	2.11	0.50
44:L7:25:GLN:HG2	44:L7:29:GLU:HB2	1.94	0.50
46:L9:44:THR:HG22	36:5:3186:A:C2	325.51	0.50
46:L9:47:LYS:HE3	46:L9:50:ASN:H	1.76	0.50
50:M4:21:VAL:HG12	50:M4:65:LEU:HD23	1.92	0.50
50:M4:42:LYS:O	50:M4:60:LEU:HB2	3.19	0.50
51:M5:59:PHE:CE2	51:M5:142:ILE:HD11	4.45	0.50
63:N7:5:LEU:HD22	63:N7:77:TYR:CE2	6.18	0.50
63:N7:10:VAL:HB	63:N7:83:THR:CG2	2.41	0.50
67:O1:52:ALA:HB3	67:O1:55:LEU:HB2	3.18	0.50
78:Q2:39:GLY:HA3	36:5:2765:C:O3'	173.49	0.50
7:S5:101:GLY:HA2	7:S5:104:ASN:ND2	2.25	0.50
7:S5:197:GLU:OE1	7:S5:209:TYR:N	2.44	0.50
36:1:1394:A:H4'	36:1:1420:C:H4'	1.94	0.50
36:1:1742:U:H2'	36:1:1743:G:H8	1.74	0.50
36:1:210:U:C2	36:1:230:U:H4'	2.45	0.50
36:1:3006:A:H2'	36:1:3007:U:O4'	2.12	0.50
36:1:612:U:O5'	43:L6:21:THR:HG21	2.12	0.50
36:1:685:G:OP1	49:M3:35:ARG:HD2	2.11	0.50
1:2:108:A:H2'	1:2:109:G:C8	2.47	0.50
1:2:494:U:O2'	1:2:495:C:O5'	2.29	0.50
36:5:1715:A:H4'	36:5:1716:U:OP1	2.11	0.50
36:5:1741:A:C6	36:5:1742:U:C2	2.99	0.50
85:5:3504:OHX:N6	85:5:3594:OHX:N2	2.60	0.50
85:5:3504:OHX:N3	85:5:3594:OHX:N5	2.59	0.50
1:6:1018:U:H2'	1:6:1019:A:C8	2.46	0.50
20:C8:123:ARG:NH1	1:6:1546:G:OP1	357.74	0.50
1:6:1787:C:N4	1:6:1788:G:O6	2.44	0.50
85:6:1975:OHX:N2	85:6:2025:OHX:N1	2.59	0.50
85:6:1975:OHX:N2	85:6:2025:OHX:N5	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:282:C:H2'	1:6:283:U:O4'	2.11	0.50
1:6:433:C:H5''	1:6:434:G:OP2	2.12	0.50
1:6:542:A:H8	1:6:543:C:H5'	1.77	0.50
37:7:106:U:H2'	37:7:107:C:O4'	2.11	0.50
13:C1:67:ARG:O	13:C1:127:GLN:HB3	2.69	0.50
14:C2:91:VAL:HG11	14:C2:97:LEU:HD23	3.33	0.50
16:C4:127:ARG:HD3	1:6:990:C:O2'	283.04	0.50
18:C6:42:GLU:O	18:C6:45:ARG:HB2	2.52	0.50
21:C9:37:VAL:O	21:C9:46:PRO:HB3	2.38	0.50
21:C9:23:GLN:HG3	21:C9:55:TYR:CE2	5.06	0.50
22:D0:26:LEU:O	22:D0:88:LYS:HG2	2.96	0.50
22:D0:95:ALA:HB1	22:D0:99:ILE:HG13	3.87	0.50
40:L3:153:LYS:HG2	40:L3:154:TYR:CE2	4.30	0.50
8:S6:25:ARG:NH2	40:L3:298:PHE:O	2.44	0.50
44:L7:186:HIS:CE1	44:L7:190:THR:HG21	3.42	0.50
46:L9:156:GLN:NE2	46:L9:160:ASP:OD1	2.45	0.50
47:M0:156:ARG:HD3	47:M0:163:GLN:O	2.11	0.50
48:M1:40:LEU:HD13	48:M1:79:ILE:HD13	1.94	0.50
51:M5:116:LEU:HD12	51:M5:151:ILE:HD12	4.28	0.50
52:M6:190:VAL:HA	52:M6:193:GLN:HE21	4.47	0.50
62:N6:87:LYS:HB2	62:N6:97:ILE:HD11	1.93	0.50
63:N7:42:LEU:HG	63:N7:101:PHE:HE1	1.77	0.50
64:N8:111:LYS:HA	64:N8:129:PHE:O	2.38	0.50
64:N8:21:ARG:HG2	36:5:641:C:OP1	182.13	0.50
69:O3:80:VAL:HG12	69:O3:81:VAL:H	2.61	0.50
73:O7:15:SER:O	73:O7:28:HIS:HD2	5.25	0.50
73:O7:26:SER:O	73:O7:34:CYS:HA	2.11	0.50
3:S1:121:ILE:HG12	3:S1:161:ILE:HG23	1.93	0.50
3:S1:229:MET:HA	3:S1:232:HIS:ND1	2.27	0.50
4:S2:38:VAL:O	4:S2:39:THR:OG1	2.28	0.50
5:S3:21:LEU:HD22	5:S3:25:PHE:CE2	2.46	0.50
6:S4:194:THR:O	6:S4:195:ILE:HB	2.12	0.50
10:S8:114:GLU:HG2	10:S8:120:THR:HA	1.92	0.50
36:1:1078:U:H1'	36:1:1082:U:O2	2.12	0.50
36:1:1237:G:H2'	36:1:1237:G:N3	2.25	0.50
36:1:1282:G:C6	36:1:1283:C:C4	3.00	0.50
36:1:1472:U:H5'	55:M9:4:LEU:HB2	1.93	0.50
36:1:2748:A:O2'	42:L5:48:LYS:HE2	2.12	0.50
36:1:1942:U:O2'	36:1:3345:G:O2'	2.21	0.50
85:1:3733:OHX:N4	43:L6:129:GLU:HA	2.27	0.50
36:1:625:G:H2'	36:1:626:U:H6	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:359:U:H4'	36:1:817:A:N6	2.26	0.50
36:1:953:G:N2	36:1:1116:G:H2'	2.25	0.50
1:2:284:G:N7	8:S6:188:ARG:NH1	2.59	0.50
37:3:72:A:O2'	37:3:74:C:OP1	2.23	0.50
47:M0:90:ARG:NH1	36:5:1043:C:O3'	313.39	0.50
51:M5:2:GLY:HA3	36:5:116:A:OP2	106.87	0.50
36:5:2524:A:O2'	36:5:2525:G:OP2	2.21	0.50
57:N1:49:GLN:HG2	36:5:2756:C:O4'	246.94	0.50
36:5:345:G:H1'	38:8:24:G:N2	2.26	0.50
17:C5:18:ARG:HD2	17:C5:36:LEU:O	3.21	0.50
21:C9:117:SER:HB2	21:C9:123:ARG:HD2	4.56	0.50
25:D3:92:CYS:O	25:D3:95:PHE:N	2.82	0.50
43:L6:26:ARG:HB2	36:5:502:U:O2'	253.12	0.50
46:L9:13:PRO:HG2	46:L9:16:VAL:HG11	3.56	0.50
49:M3:119:TYR:HD1	49:M3:145:PHE:CE2	2.30	0.50
51:M5:106:VAL:O	51:M5:109:ARG:N	2.45	0.50
54:M8:100:THR:HG23	54:M8:120:GLU:HB3	1.94	0.50
54:M8:83:VAL:O	54:M8:85:GLY:N	2.80	0.50
56:N0:155:ARG:HH21	56:N0:172:TYR:H	4.65	0.50
61:N5:58:ASP:O	61:N5:62:VAL:HG23	2.19	0.50
67:O1:31:ARG:O	67:O1:35:GLU:HB2	2.37	0.50
70:O4:44:CYS:N	70:O4:49:SER:O	2.83	0.50
36:1:1825:G:H5''	74:O8:48:SER:HB2	1.94	0.50
76:Q0:124:LYS:O	76:Q0:126:LYS:NZ	2.45	0.50
2:S0:190:ASP:C	2:S0:192:THR:H	4.39	0.50
2:S0:26:ALA:HB1	2:S0:29:VAL:HG13	1.92	0.50
4:S2:152:HIS:H	4:S2:152:HIS:HD2	2.27	0.50
4:S2:185:LYS:HE3	4:S2:189:GLN:NE2	2.26	0.50
7:S5:218:GLU:HA	7:S5:221:ALA:HB3	2.35	0.50
8:S6:52:ILE:HA	8:S6:111:LEU:HD23	1.94	0.50
8:S6:69:LEU:O	8:S6:99:GLY:HA3	2.20	0.50
1:2:512:A:H5''	11:S9:163:PRO:HG3	1.93	0.50
11:S9:172:VAL:HG13	1:6:512:A:OP2	455.67	0.50
36:1:1803:C:O3'	70:O4:70:LYS:NZ	2.45	0.50
36:1:1495:U:H2'	36:1:1842:A:C2	2.47	0.50
36:1:2830:G:H2'	36:1:2831:G:H8	1.75	0.50
36:1:2927:C:H2'	36:1:2928:C:C6	2.47	0.50
1:2:1537:C:C4	1:2:1572:G:N1	2.79	0.50
1:2:1607:G:H2'	1:2:1608:U:C6	2.47	0.50
36:5:1784:G:H2'	36:5:1785:U:O4'	2.12	0.50
36:5:2359:C:H2'	36:5:2360:C:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:920:A:OP1	36:5:922:U:H5	1.94	0.50
1:6:1202:A:H2'	1:6:1203:A:H5''	1.93	0.50
1:6:1224:A:H2'	1:6:1225:U:C6	2.46	0.50
16:C4:84:ARG:HA	16:C4:119:THR:HG22	2.70	0.50
41:L4:148:ILE:HA	41:L4:149:PRO:C	2.32	0.50
36:1:610:G:C8	41:L4:312:VAL:HG21	2.47	0.50
41:L4:39:PHE:CE1	41:L4:236:LEU:HD23	3.87	0.50
42:L5:244:HIS:O	42:L5:248:ARG:HG3	2.12	0.50
43:L6:55:LEU:HB3	43:L6:98:VAL:HG21	2.16	0.50
46:L9:24:ILE:HD11	46:L9:39:LYS:HE2	6.10	0.50
52:M6:162:VAL:O	52:M6:166:GLU:HG3	2.75	0.50
53:M7:94:LEU:HB3	53:M7:148:LEU:HD21	1.93	0.50
57:N1:78:LYS:HB3	57:N1:87:LYS:HG3	1.92	0.50
61:N5:67:ILE:HB	61:N5:83:VAL:HG12	2.42	0.50
63:N7:116:LYS:HA	63:N7:119:GLU:HB2	3.56	0.50
63:N7:3:LYS:HE2	63:N7:30:ASP:OD1	2.11	0.50
63:N7:36:HIS:HB2	63:N7:40:HIS:CE1	2.47	0.50
36:1:662:U:OP1	64:N8:8:THR:HG21	2.12	0.50
67:O1:36:ILE:HD12	67:O1:59:ILE:HD11	1.93	0.50
73:O7:21:ARG:HD2	73:O7:37:CYS:SG	2.52	0.50
2:S0:49:ASN:HB3	2:S0:52:LYS:HG3	1.92	0.50
11:S9:37:LYS:HG2	11:S9:126:ARG:NH2	2.25	0.50
36:1:1841:A:H5'	36:1:1849:C:OP1	2.12	0.50
36:1:2113:A:O2'	36:1:2116:G:N7	2.44	0.50
36:1:2369:G:H2'	36:1:2370:G:O4'	2.11	0.50
36:1:3213:A:H2'	36:1:3214:U:O4'	2.12	0.50
36:1:3159:C:OP1	85:1:3688:OHX:N1	2.45	0.50
36:1:501:A:H2'	36:1:502:U:H6	1.77	0.50
85:2:1922:OHX:N2	85:2:1977:OHX:N6	2.60	0.50
1:2:31:C:O3'	25:D3:139:LYS:NZ	2.36	0.50
1:2:487:G:H3'	1:2:488:G:H5''	1.93	0.50
1:2:967:A:H2'	1:2:968:U:O4'	2.12	0.50
36:5:2115:G:H22	36:5:2120:A:H1'	1.76	0.50
36:5:2406:C:H2'	36:5:2407:C:C6	2.47	0.50
67:O1:69:TYR:OH	36:5:3059:G:OP2	186.88	0.50
85:5:3480:OHX:N2	85:5:3703:OHX:N1	2.59	0.50
1:6:1523:G:O2'	1:6:1524:A:OP1	2.26	0.50
1:6:1762:A:H1'	1:6:1783:C:OP1	2.12	0.50
10:S8:188:GLU:OE2	13:C1:15:LYS:NZ	2.44	0.50
25:D3:14:LYS:O	25:D3:18:HIS:HB2	2.12	0.50
25:D3:28:ASN:O	25:D3:32:ARG:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:E1:126:CYS:O	33:E1:128:ALA:N	2.38	0.50
48:M1:96:PHE:CE1	48:M1:160:VAL:HG23	4.44	0.50
49:M3:171:ARG:NH2	49:M3:171:ARG:HB3	2.26	0.50
46:L9:47:LYS:NZ	50:M4:5:SER:HB2	2.26	0.50
51:M5:79:ALA:HB1	51:M5:81:TYR:CZ	2.46	0.50
53:M7:23:ARG:NE	53:M7:125:GLN:OE1	3.29	0.50
55:M9:15:VAL:CG1	55:M9:52:LYS:HE3	4.15	0.50
59:N3:67:PRO:O	59:N3:69:LEU:N	3.78	0.50
63:N7:11:ALA:O	63:N7:23:VAL:N	2.39	0.50
68:O2:69:SER:OG	68:O2:70:GLY:N	2.45	0.50
78:Q2:3:ASN:HA	78:Q2:92:GLU:O	2.11	0.50
79:Q3:87:ARG:HA	79:Q3:90:VAL:HG23	1.93	0.50
34:SR:129:LYS:HA	34:SR:151:VAL:HG23	1.94	0.50
36:1:1497:C:O2'	36:1:1602:A:N3	2.42	0.50
36:1:2539:C:H5'	36:1:2541:U:O4	2.12	0.50
36:1:2561:A:N1	45:L8:32:LYS:HB2	2.26	0.50
36:1:287:G:H5'	51:M5:179:LYS:O	2.11	0.50
36:1:3024:A:H5''	36:1:3025:C:OP2	2.12	0.50
36:1:3166:C:H2'	36:1:3167:A:O4'	2.12	0.50
36:1:787:G:H2'	36:1:788:C:C6	2.46	0.50
1:2:1076:A:H2'	1:2:1077:C:H6	1.76	0.50
1:2:1615:C:H4'	1:2:1616:G:O5'	2.12	0.50
1:2:1203:A:OP2	85:2:1989:OHX:N5	2.45	0.50
1:2:263:C:H4'	1:2:292:U:H5'	1.94	0.50
1:2:582:U:H3'	1:2:583:C:C6	2.47	0.50
1:2:882:U:H2'	1:2:883:C:C6	2.47	0.50
1:2:928:U:H4'	16:C4:124:ASP:OD1	2.12	0.50
1:2:978:A:H2'	1:2:979:A:O4'	2.12	0.50
36:5:2881:C:H2'	36:5:2882:U:C6	2.47	0.50
36:5:2902:A:H2'	36:5:2903:A:O4'	2.12	0.50
36:5:3264:G:C2	36:5:3265:C:H1'	2.47	0.50
85:5:3559:OHX:N5	85:5:3704:OHX:N6	2.60	0.50
1:6:1314:U:OP2	85:6:2038:OHX:N4	2.45	0.50
29:D7:28:PRO:HB3	1:6:959:U:H5'	351.47	0.50
15:C3:118:ILE:HA	15:C3:121:ARG:HH21	1.76	0.50
17:C5:114:HIS:ND1	17:C5:118:GLU:OE1	2.38	0.50
18:C6:127:LYS:HD2	18:C6:132:LYS:O	2.12	0.50
20:C8:64:GLU:C	20:C8:66:LEU:H	3.05	0.50
1:2:1542:G:H5''	21:C9:88:VAL:N	2.26	0.50
24:D2:50:PHE:HA	24:D2:62:VAL:O	2.12	0.50
39:L2:114:SER:O	39:L2:116:VAL:N	3.03	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:14:SER:C	39:L2:16:PHE:H	2.16	0.50
40:L3:153:LYS:NZ	40:L3:154:TYR:OH	4.21	0.50
48:M1:110:ILE:HG22	48:M1:115:LYS:O	2.11	0.50
49:M3:131:LYS:HE2	49:M3:131:LYS:H	1.77	0.50
52:M6:73:PHE:HB3	52:M6:78:ARG:HB3	2.32	0.50
53:M7:85:ALA:O	53:M7:87:SER:N	2.59	0.50
55:M9:156:ASN:OD1	55:M9:156:ASN:N	2.43	0.50
57:N1:25:VAL:HG11	57:N1:48:ILE:HD11	3.68	0.50
64:N8:61:PHE:HE1	36:5:283:G:N9	146.27	0.50
67:O1:21:HIS:ND1	36:5:3376:A:N3	190.85	0.50
61:N5:46:TYR:HD2	71:O5:75:TYR:HB3	1.77	0.50
4:S2:56:ILE:O	4:S2:60:SER:N	2.44	0.50
11:S9:41:GLU:OE2	11:S9:126:ARG:NH2	3.41	0.50
34:SR:232:TYR:HD2	34:SR:232:TYR:H	2.44	0.50
36:1:1630:U:OP1	63:N7:67:LYS:NZ	2.34	0.50
36:1:2300:G:OP2	85:1:3656:OHX:N2	2.45	0.50
36:1:2386:A:OP1	85:1:3561:OHX:N2	2.45	0.50
36:1:243:G:H2'	36:1:244:G:O4'	2.12	0.50
36:1:346:C:OP1	41:L4:52:VAL:HG22	2.12	0.50
1:2:1156:C:C2'	1:2:1157:A:H5'	2.42	0.50
1:2:1445:G:C5	33:E1:91:ILE:HB	2.47	0.50
1:2:1711:C:O2'	1:2:1712:A:OP1	2.27	0.50
1:2:21:U:H2'	1:2:22:A:H8	1.77	0.50
1:2:481:A:H61	1:2:505:A:H62	1.59	0.50
1:2:922:G:H2'	1:2:923:A:H8	1.76	0.50
38:4:139:U:H2'	38:4:140:G:C8	2.46	0.50
38:4:85:G:H3'	38:4:85:G:C8	2.46	0.50
36:5:1495:U:H4'	36:5:1514:G:H4'	1.94	0.50
36:5:2199:G:H1	36:5:2245:C:H42	1.60	0.50
36:5:2651:G:C4	36:5:2796:G:C2	2.99	0.50
36:5:3128:G:OP2	85:5:3663:OHX:N1	2.45	0.50
36:5:602:A:H2'	36:5:603:A:C8	2.46	0.50
36:5:612:U:H2'	36:5:613:G:H8	1.77	0.50
36:5:650:C:O5'	36:5:650:C:H6	1.95	0.50
1:6:1041:G:OP1	85:6:2029:OHX:N4	2.45	0.50
1:6:1484:G:H2'	1:6:1485:C:C6	2.47	0.50
38:8:139:U:H2'	38:8:140:G:H8	1.77	0.50
13:C1:36:LYS:NZ	13:C1:59:PRO:O	2.35	0.50
1:2:1228:G:P	14:C2:119:SER:HB3	2.51	0.50
17:C5:18:ARG:NH2	17:C5:38:PRO:HG3	2.27	0.50
24:D2:105:THR:HG23	24:D2:110:ILE:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:29:PRO:HB2	24:D2:58:SER:HB2	1.94	0.50
28:D6:10:ARG:NH1	28:D6:36:ILE:HA	3.32	0.50
1:2:1795:U:O4	28:D6:9:GLY:HA2	2.12	0.50
33:E1:82:LYS:O	33:E1:84:VAL:N	4.90	0.50
39:L2:80:GLU:N	39:L2:168:VAL:O	2.28	0.50
41:L4:26:PHE:HD1	41:L4:130:ALA:HB2	2.98	0.50
41:L4:280:ILE:CD1	54:M8:23:ASN:HD21	2.25	0.50
41:L4:345:GLU:O	41:L4:346:LYS:HB2	4.76	0.50
43:L6:60:ASP:OD1	43:L6:62:THR:OG1	2.32	0.50
45:L8:193:LYS:HB3	36:5:7:C:H5'	122.78	0.50
46:L9:13:PRO:O	46:L9:16:VAL:HG13	4.64	0.50
47:M0:53:VAL:O	47:M0:164:LYS:N	2.57	0.50
48:M1:162:TRP:CZ2	48:M1:166:LYS:HD2	2.47	0.50
57:N1:14:MET:CE	57:N1:55:LYS:HB2	3.12	0.50
58:N2:42:LYS:HA	58:N2:46:ALA:O	2.46	0.50
61:N5:93:TYR:CE2	38:8:131:A:H5'	105.65	0.50
61:N5:93:TYR:O	61:N5:96:LYS:N	2.82	0.50
62:N6:120:GLN:CD	62:N6:126:LEU:HA	8.74	0.50
63:N7:52:LYS:O	63:N7:65:ARG:NH1	2.45	0.50
64:N8:126:LYS:HA	64:N8:146:GLU:O	2.42	0.50
64:N8:125:VAL:HG21	64:N8:138:ILE:HD13	1.92	0.50
36:1:943:U:H3'	64:N8:13:GLY:HA2	1.93	0.50
65:N9:32:LEU:O	65:N9:35:VAL:HB	2.12	0.50
70:O4:47:CYS:SG	70:O4:48:GLY:N	2.85	0.50
71:O5:68:GLN:O	71:O5:71:LYS:N	2.45	0.50
74:O8:44:LYS:HE2	36:5:1748:G:OP1	137.98	0.50
36:1:1925:U:O2	79:Q3:19:GLY:HA2	2.12	0.50
79:Q3:49:ARG:HD3	79:Q3:51:ALA:N	2.27	0.50
3:S1:116:LYS:HB3	3:S1:117:TRP:CE3	2.47	0.50
5:S3:164:VAL:O	5:S3:168:ILE:HG13	2.11	0.50
7:S5:136:ALA:HA	7:S5:201:ALA:O	2.12	0.50
7:S5:145:ASP:OD2	7:S5:146:THR:N	2.40	0.50
9:S7:33:GLU:C	9:S7:35:LYS:H	2.92	0.50
34:SR:258:THR:HB	34:SR:275:ARG:HH12	1.77	0.50
34:SR:249:ARG:NH1	34:SR:315:VAL:HG21	3.71	0.50
36:1:2913:C:OP2	85:1:3586:OHX:N4	2.45	0.49
36:1:2988:C:P	52:M6:68:ARG:NH1	2.85	0.49
36:1:692:A:C4	36:1:693:A:C8	3.00	0.49
1:2:1575:G:H2'	1:2:1576:A:C8	2.47	0.49
1:2:1794:A:OP2	28:D6:4:LYS:NZ	2.34	0.49
1:2:1793:G:O2'	1:2:1795:U:OP2	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:335:U:O2'	13:C1:129:ARG:HD2	2.12	0.49
1:2:587:C:OP1	32:E0:26:LYS:NZ	2.34	0.49
1:2:641:G:N2	1:2:693:U:O2	2.42	0.49
1:2:625:C:O2'	1:2:939:A:N3	2.36	0.49
36:5:1094:U:O2'	36:5:1095:U:H3'	2.12	0.49
36:5:1249:G:H2'	36:5:1250:G:H8	1.76	0.49
36:5:188:U:H1'	36:5:208:C:H1'	1.94	0.49
36:5:2298:U:O4	36:5:2923:U:H5	1.94	0.49
36:5:2520:A:H2'	36:5:2521:U:H6	1.77	0.49
36:5:2916:U:H5	36:5:2935:U:HO2'	1.57	0.49
36:5:3238:G:N2	36:5:3250:U:H1'	2.27	0.49
36:5:999:G:H2'	36:5:1000:C:C6	2.46	0.49
37:7:87:G:OP2	85:7:209:OHX:N3	2.45	0.49
14:C2:44:GLY:HA3	1:6:1227:A:O2'	461.87	0.49
17:C5:45:PHE:CE2	17:C5:84:ILE:HD12	2.47	0.49
18:C6:129:PHE:CE1	22:D0:78:THR:HA	2.60	0.49
19:C7:104:ASN:O	19:C7:106:THR:HG22	6.38	0.49
20:C8:65:GLU:O	20:C8:69:ILE:HG13	2.10	0.49
1:2:1500:C:H5''	21:C9:102:ARG:HD3	1.94	0.49
21:C9:33:TYR:OH	21:C9:99:SER:OG	2.31	0.49
22:D0:109:GLU:OE1	22:D0:110:PRO:HD2	2.11	0.49
22:D0:28:SER:HB2	22:D0:112:VAL:HA	1.93	0.49
42:L5:64:ILE:CG2	42:L5:75:LEU:HB3	2.42	0.49
44:L7:102:VAL:HG13	44:L7:126:LEU:HD22	1.92	0.49
45:L8:239:GLY:O	45:L8:241:LYS:N	2.83	0.49
47:M0:210:ILE:HG12	47:M0:217:PHE:CZ	2.46	0.49
49:M3:26:PHE:HA	51:M5:201:ARG:HD2	2.69	0.49
50:M4:112:LEU:HB3	50:M4:116:GLU:HB2	2.89	0.49
50:M4:45:LEU:HD12	50:M4:56:GLN:O	2.12	0.49
51:M5:37:HIS:NE2	51:M5:63:ARG:HD2	2.26	0.49
51:M5:70:ASN:HB3	51:M5:92:LEU:O	2.12	0.49
54:M8:89:ASP:OD1	54:M8:90:ASP:N	2.45	0.49
55:M9:21:LYS:HE3	55:M9:55:VAL:HA	1.94	0.49
56:N0:135:VAL:O	56:N0:141:LYS:NZ	2.41	0.49
56:N0:9:VAL:HG22	56:N0:61:ILE:HD13	1.94	0.49
57:N1:57:TYR:CG	57:N1:89:LEU:HD21	2.48	0.49
59:N3:67:PRO:C	59:N3:69:LEU:H	3.04	0.49
69:O3:73:ARG:HG3	69:O3:82:ARG:HD2	2.60	0.49
73:O7:53:ALA:HA	73:O7:56:ARG:HH11	1.76	0.49
79:Q3:38:ASP:HA	79:Q3:45:LYS:HA	1.94	0.49
2:S0:74:VAL:HG23	2:S0:118:PRO:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:113:ILE:O	7:S5:117:THR:OG1	2.21	0.49
7:S5:57:SER:HB3	30:D8:53:ILE:HB	1.94	0.49
9:S7:173:TYR:CE1	9:S7:181:ILE:HD13	2.47	0.49
34:SR:5:GLU:HA	34:SR:317:THR:HA	2.83	0.49
34:SR:319:ASN:N	34:SR:319:ASN:OD1	2.56	0.49
36:1:1521:G:C2	36:1:1522:U:H5	2.30	0.49
36:1:2232:A:H2'	36:1:2233:A:C8	2.47	0.49
36:1:2673:A:H4'	48:M1:104:PHE:HA	1.94	0.49
85:1:3569:OHX:N2	85:1:3582:OHX:N1	2.60	0.49
36:1:348:A:H4'	36:1:367:A:H62	1.78	0.49
36:1:582:G:O6	85:1:3711:OHX:N2	2.45	0.49
36:1:5:G:H2'	36:1:6:A:O4'	2.13	0.49
1:2:158:U:H5'	1:2:158:U:H6	1.77	0.49
1:2:891:A:H2'	1:2:892:A:C8	2.47	0.49
36:5:2135:U:H2'	36:5:2136:C:C6	2.47	0.49
40:L3:247:ARG:NH2	36:5:2341:A:OP1	219.37	0.49
36:5:2412:G:C2	36:5:2413:A:C4	3.00	0.49
40:L3:241:LYS:NZ	36:5:2950:G:OP1	215.89	0.49
14:C2:119:SER:OG	1:6:1228:G:OP1	464.32	0.49
1:6:150:U:H2'	1:6:151:G:O4'	2.12	0.49
1:6:1590:G:H2'	1:6:1591:C:H6	1.76	0.49
1:6:476:U:OP1	1:6:477:A:O2'	2.23	0.49
1:6:5:U:HO2'	1:6:553:G:HO2'	1.58	0.49
1:6:720:G:N3	1:6:720:G:H5''	2.28	0.49
22:D0:106:ILE:HG23	22:D0:107:THR:HG23	1.92	0.49
24:D2:86:ILE:HG13	24:D2:87:GLU:H	1.77	0.49
39:L2:29:LEU:HA	39:L2:76:PHE:CE1	3.25	0.49
41:L4:44:LYS:O	41:L4:47:ARG:HD3	2.80	0.49
42:L5:183:TRP:CZ2	42:L5:188:GLU:HA	2.47	0.49
42:L5:56:THR:O	42:L5:58:LYS:N	2.42	0.49
45:L8:78:PHE:C	45:L8:80:TYR:H	2.15	0.49
49:M3:92:THR:HB	71:O5:114:ARG:HG2	1.95	0.49
51:M5:17:ASP:OD1	72:O6:55:ARG:NH2	2.90	0.49
53:M7:52:LEU:O	53:M7:54:HIS:N	2.45	0.49
54:M8:37:ALA:O	54:M8:46:LYS:NZ	2.40	0.49
55:M9:160:GLU:HA	55:M9:163:ARG:HB2	1.93	0.49
57:N1:78:LYS:HG3	57:N1:79:MET:N	2.51	0.49
58:N2:43:VAL:HG23	58:N2:49:ASN:HB3	2.79	0.49
68:O2:24:ARG:HG2	68:O2:25:TYR:CZ	2.73	0.49
3:S1:138:PHE:CD2	3:S1:214:LYS:HB3	2.70	0.49
7:S5:158:GLN:HG2	30:D8:66:LEU:HD11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:141:ARG:HE	24:D2:49:GLU:CD	2.16	0.49
9:S7:152:VAL:O	9:S7:183:PHE:HA	2.12	0.49
9:S7:55:LYS:HE2	9:S7:87:ASP:HA	1.94	0.49
11:S9:108:ARG:HH21	11:S9:145:SER:HB2	1.77	0.49
36:1:1847:A:O2'	36:1:1848:G:H5''	2.12	0.49
36:1:2392:C:H5''	36:1:2393:G:OP2	2.12	0.49
36:1:2861:U:H2'	36:1:2862:U:O4'	2.12	0.49
36:1:867:G:C6	36:1:868:C:C4	3.00	0.49
1:2:1278:G:H2'	1:2:1279:C:O4'	2.12	0.49
1:2:1380:U:H2'	1:2:1381:U:O4'	2.12	0.49
1:2:1617:U:H1'	30:D8:22:ARG:O	2.13	0.49
1:2:1788:G:OP1	16:C4:127:ARG:NH1	2.39	0.49
1:2:461:G:OP1	11:S9:2:PRO:HG2	2.13	0.49
1:2:700:C:H42	1:2:738:G:H1	1.60	0.49
1:2:717:C:H2'	1:2:718:U:H5''	1.95	0.49
38:4:133:G:O6	85:4:207:OHX:N5	2.45	0.49
36:5:152:U:H5''	36:5:153:U:OP2	2.12	0.49
51:M5:171:SER:O	36:5:288:C:H4'	123.67	0.49
36:5:3376:A:OP2	85:5:3437:OHX:N4	2.45	0.49
36:5:528:U:H2'	36:5:529:A:H8	1.76	0.49
36:5:794:U:H2'	36:5:795:G:H8	1.77	0.49
68:O2:33:ARG:HG3	36:5:945:C:OP1	170.69	0.49
57:N1:101:CYS:HB3	36:5:990:U:H1'	251.89	0.49
36:5:990:U:O4	85:5:3688:OHX:N6	2.45	0.49
1:6:1092:A:O2'	1:6:1093:A:H3'	2.12	0.49
17:C5:128:HIS:HA	1:6:1180:C:O2'	334.00	0.49
1:6:151:G:H2'	1:6:152:U:H6	1.78	0.49
1:6:138:A:H61	1:6:266:A:H61	1.59	0.49
1:6:486:G:H4'	1:6:486:G:OP1	2.12	0.49
1:6:5:U:H2'	1:6:6:G:H8	1.76	0.49
16:C4:16:VAL:HG22	16:C4:33:LEU:HA	1.95	0.49
24:D2:46:TYR:CD1	24:D2:69:LEU:HD13	2.48	0.49
27:D5:93:SER:HB3	27:D5:100:ILE:HG22	1.93	0.49
29:D7:54:VAL:O	29:D7:63:LEU:HB2	2.12	0.49
31:D9:36:LEU:HD12	31:D9:38:ILE:HG13	1.93	0.49
44:L7:136:TYR:O	44:L7:231:ASN:HA	2.51	0.49
44:L7:50:ALA:O	44:L7:53:LYS:N	2.45	0.49
45:L8:91:PHE:HZ	45:L8:185:ARG:HB3	2.20	0.49
46:L9:163:GLN:O	46:L9:166:ARG:HG3	2.94	0.49
48:M1:164:LYS:HE3	48:M1:171:VAL:HG12	2.63	0.49
51:M5:143:ARG:HH21	71:O5:92:LEU:HA	1.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:199:LEU:HB3	51:M5:203:ARG:HH21	1.78	0.49
36:1:1634:G:N7	63:N7:17:ARG:NH2	2.61	0.49
63:N7:53:VAL:HG21	63:N7:62:VAL:HG13	1.95	0.49
70:O4:86:LYS:O	70:O4:90:ILE:HG12	2.13	0.49
74:O8:21:LYS:HB3	74:O8:74:LYS:HD2	1.93	0.49
1:2:1113:A:H5''	77:Q1:6:ARG:NH2	2.27	0.49
78:Q2:47:GLN:HE22	78:Q2:54:THR:N	4.34	0.49
79:Q3:83:ILE:HG22	79:Q3:87:ARG:NH1	2.28	0.49
2:S0:59:LEU:HD12	23:D1:79:LEU:HD11	4.34	0.49
3:S1:121:ILE:HD13	3:S1:161:ILE:HG23	2.67	0.49
3:S1:124:ASN:N	3:S1:124:ASN:OD1	2.44	0.49
3:S1:131:ASP:O	3:S1:133:TYR:N	2.45	0.49
5:S3:64:ARG:HG2	5:S3:65:ARG:H	2.69	0.49
7:S5:99:MET:O	7:S5:100:ASN:HB2	2.29	0.49
35:SM:84:LYS:H	35:SM:84:LYS:HD2	1.76	0.49
34:SR:249:ARG:NH1	34:SR:298:GLY:O	2.61	0.49
36:1:1740:U:H4'	36:1:1741:A:H5'	1.93	0.49
36:1:2193:U:H5'	36:1:2194:G:H5'	1.95	0.49
36:1:3065:G:H2'	36:1:3066:U:O4'	2.13	0.49
36:1:3328:G:C2	36:1:3379:C:C2	3.00	0.49
85:1:3483:OHX:N5	85:1:3656:OHX:N6	2.60	0.49
1:2:1142:A:H2'	1:2:1143:A:C8	2.48	0.49
1:2:1317:C:H2'	1:2:1318:G:O4'	2.12	0.49
1:2:324:U:OP1	10:S8:13:ALA:HA	2.12	0.49
1:2:431:C:H3'	1:2:432:G:H8	1.78	0.49
1:2:452:A:OP2	85:2:1916:OHX:N5	2.45	0.49
1:2:997:G:H2'	1:2:998:A:O4'	2.12	0.49
38:4:81:U:O2	38:4:82:U:H3'	2.12	0.49
36:5:308:A:H5'	36:5:2223:A:O2'	2.11	0.49
36:5:3341:U:H5''	36:5:3342:A:OP2	2.12	0.49
36:5:3392:U:H2'	36:5:3393:U:C6	2.46	0.49
85:5:3504:OHX:N6	85:5:3594:OHX:N5	2.61	0.49
36:5:397:A:C2	36:5:399:A:C5	3.00	0.49
1:6:1166:A:H2'	1:6:1167:G:O4'	2.11	0.49
1:6:1230:A:H8	1:6:1258:U:C5	2.30	0.49
1:6:447:U:C4	1:6:448:C:C4	3.01	0.49
1:6:491:C:N4	1:6:497:G:H21	2.08	0.49
1:6:51:A:OP1	85:6:1922:OHX:N3	2.44	0.49
1:6:872:G:N2	1:6:1047:G:H4'	2.27	0.49
12:C0:23:ALA:O	12:C0:24:LYS:HB3	4.56	0.49
12:C0:54:TYR:HD2	12:C0:72:GLY:HA2	4.14	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:144:ALA:O	15:C3:147:SER:HB3	2.13	0.49
16:C4:18:ARG:HG2	16:C4:82:LYS:HB2	1.94	0.49
19:C7:106:THR:O	19:C7:109:LEU:HB3	2.13	0.49
24:D2:93:LEU:H	24:D2:93:LEU:HD23	2.13	0.49
26:D4:84:LYS:HB3	26:D4:85:PHE:HD2	6.41	0.49
26:D4:84:LYS:HD3	26:D4:85:PHE:HE2	4.44	0.49
27:D5:61:SER:HB2	27:D5:99:ALA:HB3	1.94	0.49
16:C4:114:ARG:HE	28:D6:62:TYR:HE1	1.59	0.49
7:S5:225:ARG:NH1	30:D8:58:GLU:OE1	5.85	0.49
33:E1:136:LYS:O	33:E1:138:ARG:N	2.46	0.49
40:L3:292:ALA:HB2	40:L3:302:LYS:HA	1.95	0.49
40:L3:46:PHE:HD2	40:L3:81:THR:HG22	1.77	0.49
41:L4:23:PRO:HB3	41:L4:259:ASP:OD1	3.37	0.49
44:L7:160:ARG:HD2	44:L7:203:TRP:CD1	2.47	0.49
46:L9:12:VAL:HG13	46:L9:16:VAL:HG23	1.95	0.49
36:1:1010:G:OP1	47:M0:39:LYS:NZ	2.46	0.49
54:M8:16:ARG:HH12	54:M8:55:SER:HB3	1.76	0.49
55:M9:163:ARG:CZ	55:M9:163:ARG:HB2	4.72	0.49
60:N4:82:ILE:HG22	60:N4:83:THR:H	1.77	0.49
62:N6:73:VAL:HA	62:N6:80:VAL:HG22	3.38	0.49
63:N7:35:SER:HG	63:N7:36:HIS:CE1	3.71	0.49
64:N8:58:MET:SD	36:5:2786:G:N2	155.84	0.49
68:O2:101:SER:OG	68:O2:104:ASN:HB2	2.12	0.49
69:O3:29:LEU:HD22	69:O3:75:HIS:CD2	2.47	0.49
2:S0:175:TYR:HE1	2:S0:197:ILE:HG22	2.29	0.49
3:S1:130:SER:OG	3:S1:131:ASP:N	2.45	0.49
10:S8:192:TYR:CE2	13:C1:13:PHE:HB2	3.33	0.49
36:1:108:A:O2'	36:1:109:A:H2'	2.13	0.49
36:1:2224:A:N1	36:1:2783:U:O2'	2.45	0.49
36:1:2898:G:H5''	36:1:2899:C:C5'	2.41	0.49
36:1:2902:A:H2'	36:1:2903:A:O4'	2.11	0.49
36:1:346:C:C4	36:1:348:A:C8	3.00	0.49
1:2:1085:G:N2	1:2:1087:A:H3'	2.28	0.49
1:2:1188:G:O2'	1:2:1430:U:OP1	2.27	0.49
1:2:936:G:N7	28:D6:15:ARG:NH1	2.59	0.49
55:M9:20:ARG:HD2	36:5:1874:A:OP2	141.77	0.49
36:5:207:U:H2'	36:5:208:C:H6	1.77	0.49
36:5:2440:G:H2'	36:5:2441:A:C8	2.47	0.49
36:5:3192:U:O4	85:5:3648:OHX:N6	2.45	0.49
36:5:541:U:H2'	36:5:542:G:C8	2.48	0.49
24:D2:71:LYS:HD2	1:6:1098:U:O2'	380.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1607:G:H2'	1:6:1608:U:C6	2.47	0.49
1:6:1621:U:H2'	1:6:1622:G:C8	2.47	0.49
85:6:1914:OHX:N5	85:6:2001:OHX:N3	2.60	0.49
1:6:846:G:H2'	1:6:847:A:H8	1.76	0.49
22:D0:42:VAL:HG22	22:D0:52:LYS:HZ1	1.77	0.49
40:L3:3:HIS:O	40:L3:3:HIS:ND1	3.45	0.49
40:L3:56:ILE:HD13	40:L3:76:VAL:HG21	1.94	0.49
40:L3:66:LYS:HZ1	59:N3:120:LYS:HE2	1.77	0.49
41:L4:5:GLN:HA	41:L4:20:LEU:O	2.12	0.49
41:L4:318:LEU:HD11	44:L7:146:GLN:HA	2.50	0.49
42:L5:113:LEU:HD21	42:L5:142:PHE:CD2	3.02	0.49
44:L7:214:TRP:CD2	44:L7:219:LYS:HE3	4.41	0.49
46:L9:20:ILE:HD12	46:L9:45:PHE:CD1	2.47	0.49
47:M0:129:VAL:HG12	47:M0:130:ASP:O	2.13	0.49
47:M0:49:CYS:HB2	47:M0:172:GLY:HA2	1.94	0.49
48:M1:141:ARG:HH21	48:M1:144:CYS:HB2	1.77	0.49
53:M7:62:ARG:O	53:M7:64:ASN:N	2.45	0.49
56:N0:117:ARG:NH2	36:5:1321:G:O3'	283.74	0.49
56:N0:42:TRP:CE2	56:N0:53:LYS:HB2	3.20	0.49
63:N7:10:VAL:HG23	63:N7:86:THR:HA	1.94	0.49
64:N8:133:LEU:HD11	64:N8:137:LYS:HE3	2.58	0.49
71:O5:13:SER:O	71:O5:16:GLN:N	2.59	0.49
4:S2:144:TRP:O	24:D2:98:GLN:NE2	3.82	0.49
5:S3:195:SER:HB2	5:S3:200:LYS:HG2	1.94	0.49
6:S4:10:LYS:O	6:S4:12:LEU:N	3.91	0.49
11:S9:28:LEU:HB3	32:E0:44:PHE:HZ	4.94	0.49
36:1:147:U:OP2	45:L8:136:LEU:N	2.45	0.49
36:1:1723:A:N1	36:1:1788:C:O2'	2.33	0.49
36:1:2337:C:H2'	36:1:2338:C:H6	1.76	0.49
36:1:2352:A:H2'	36:1:2353:G:C8	2.47	0.49
36:1:2675:C:N4	48:M1:22:SER:OG	2.45	0.49
36:1:2843:U:H5''	36:1:2844:C:OP2	2.12	0.49
36:1:3335:A:C2	36:1:3336:A:C4	3.00	0.49
36:1:1413:G:N7	85:1:3660:OHX:N4	2.60	0.49
1:2:495:C:H3'	1:2:496:G:C4'	2.43	0.49
1:2:814:A:O2'	1:2:816:G:OP2	2.31	0.49
38:4:25:G:C6	38:4:26:U:C2	3.00	0.49
38:4:93:U:H2'	38:4:94:C:H6	1.77	0.49
75:O9:45:ARG:NH2	36:5:1841:A:N3	128.86	0.49
36:5:2694:A:N6	36:5:2695:A:C6	2.81	0.49
36:5:878:G:C2	36:5:2980:U:H5'	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1005:A:H2'	1:6:1006:C:C6	2.48	0.49
1:6:151:G:N2	1:6:163:G:N2	2.60	0.49
1:6:23:G:C2	1:6:24:U:O2	2.65	0.49
13:C1:17:PRO:HG2	1:6:249:U:H3	294.51	0.49
1:6:371:G:H2'	1:6:372:G:C8	2.47	0.49
13:C1:96:LYS:NZ	1:6:374:U:OP1	346.97	0.49
1:6:542:A:C8	1:6:543:C:H5'	2.47	0.49
6:S4:22:LYS:HD3	1:6:757:A:H4'	378.57	0.49
1:6:109:G:O2'	1:6:796:A:N1	2.33	0.49
1:6:896:U:H2'	1:6:897:C:C6	2.47	0.49
51:M5:38:ARG:NH2	38:8:143:U:OP1	108.97	0.49
10:S8:69:SER:HB3	13:C1:20:PHE:CZ	2.48	0.49
15:C3:33:VAL:HG21	15:C3:66:ILE:HG12	1.94	0.49
17:C5:128:HIS:O	17:C5:130:ARG:HG2	2.13	0.49
18:C6:48:VAL:HG23	18:C6:82:ARG:HB3	1.95	0.49
20:C8:134:ARG:HB2	20:C8:136:GLN:OE1	2.12	0.49
40:L3:102:LEU:HD21	40:L3:150:ARG:HG2	1.94	0.49
40:L3:25:ILE:H	40:L3:25:ILE:HD13	1.77	0.49
41:L4:289:ILE:O	41:L4:292:SER:HB3	2.12	0.49
42:L5:58:LYS:HD3	42:L5:58:LYS:N	2.27	0.49
43:L6:13:GLU:OE2	68:O2:90:LYS:N	3.16	0.49
45:L8:68:ARG:HA	45:L8:236:GLY:O	5.12	0.49
49:M3:42:ARG:HD3	49:M3:51:LEU:HD22	3.24	0.49
54:M8:147:ARG:O	54:M8:150:VAL:HG22	2.12	0.49
56:N0:1:MET:HA	56:N0:118:PHE:CE1	5.14	0.49
59:N3:127:PRO:HA	59:N3:130:ALA:HB3	2.89	0.49
62:N6:74:TYR:CE2	62:N6:77:LYS:HD2	4.13	0.49
66:O0:38:LYS:HB3	66:O0:93:LEU:HD23	3.39	0.49
78:Q2:15:LYS:HG3	78:Q2:18:ARG:NH1	5.51	0.49
78:Q2:93:LEU:H	78:Q2:93:LEU:HD12	5.13	0.49
2:S0:64:ILE:HG23	2:S0:73:VAL:HG11	1.95	0.49
4:S2:212:LYS:O	4:S2:216:VAL:HG23	2.37	0.49
1:2:1327:C:O2'	5:S3:159:HIS:ND1	2.46	0.49
9:S7:96:ARG:CZ	9:S7:124:LYS:HB3	2.42	0.49
35:SM:64:LYS:O	35:SM:65:THR:OG1	2.15	0.49
17:C5:130:ARG:NH2	35:SM:70:ASN:HB3	2.25	0.49
34:SR:264:SER:O	34:SR:268:GLN:HA	2.12	0.49
36:1:1135:A:OP2	65:N9:5:LYS:HE3	2.13	0.49
36:1:1211:U:H2'	36:1:1212:A:C8	2.48	0.49
36:1:1895:A:O2'	36:1:3053:G:H4'	2.11	0.49
36:1:2245:C:H4'	39:L2:221:LYS:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:427:C:OP2	68:O2:15:LYS:NZ	2.40	0.49
36:1:678:G:O6	85:1:3510:OHX:N4	2.46	0.49
1:2:1148:C:H2'	1:2:1149:G:H8	1.78	0.49
1:2:1607:G:H2'	1:2:1608:U:H6	1.77	0.49
1:2:1645:G:H22	1:2:1756[A]:A:H2	1.61	0.49
85:2:1922:OHX:N4	85:2:1977:OHX:N6	2.60	0.49
1:2:819:G:H22	1:2:853:G:H2'	1.76	0.49
37:3:46:A:OP1	42:L5:158:ARG:HG2	2.12	0.49
38:4:122:U:H2'	38:4:123:G:H8	1.77	0.49
47:M0:4:ARG:NH2	36:5:1128:U:OP1	264.57	0.49
36:5:1767:C:O2'	36:5:1768:U:H5'	2.13	0.49
36:5:1933:A:OP2	85:5:3418:OHX:N6	2.45	0.49
36:5:2947:G:N2	36:5:2948:C:C2	2.81	0.49
85:5:3524:OHX:N6	85:5:3721:OHX:N4	2.60	0.49
85:5:3539:OHX:N3	85:5:3742:OHX:N1	2.60	0.49
36:5:412:G:C6	36:5:413:U:C4	3.01	0.49
72:O6:15:LYS:HG2	36:5:73:C:C2	95.57	0.49
36:5:968:G:H2'	36:5:969:C:C6	2.48	0.49
1:6:1499:G:H1	1:6:1508:U:H3	1.59	0.49
6:S4:6:LYS:HA	1:6:94:U:H4'	341.27	0.49
17:C5:68:PRO:HG2	17:C5:71:GLU:OE2	2.79	0.49
17:C5:64:LYS:HA	17:C5:73:PRO:HB3	1.93	0.49
18:C6:95:LYS:O	34:SR:59:ARG:NH2	2.46	0.49
21:C9:4:VAL:HG13	21:C9:5:SER:O	2.12	0.49
25:D3:23:ARG:HD2	25:D3:26:GLU:OE1	2.12	0.49
27:D5:46:LYS:HD3	27:D5:70:LYS:HD2	1.93	0.49
40:L3:187:SER:HB3	40:L3:190:GLU:OE1	2.13	0.49
36:1:1382:G:OP2	41:L4:188:ARG:NH1	2.45	0.49
41:L4:317:PRO:O	41:L4:324:LEU:HB2	2.61	0.49
36:1:2703:A:N6	42:L5:28:THR:O	2.45	0.49
42:L5:287:ALA:HA	42:L5:290:ILE:HD11	1.94	0.49
44:L7:150:LYS:HE2	44:L7:151:ARG:NH1	3.28	0.49
45:L8:143:ILE:HD11	45:L8:151:VAL:HG11	2.72	0.49
50:M4:72:LEU:HD13	50:M4:73:PRO:HD2	1.95	0.49
60:N4:23:ARG:HG2	60:N4:24:GLY:H	2.11	0.49
64:N8:6:THR:HG22	64:N8:9:ARG:HG2	2.38	0.49
64:N8:74:ASN:HB2	64:N8:76:ASP:HB2	1.95	0.49
38:4:37:A:OP2	71:O5:86:ARG:HG3	2.12	0.49
3:S1:172:LEU:O	3:S1:176:VAL:HG23	2.12	0.49
8:S6:58:LYS:HG2	8:S6:105:ASP:O	2.12	0.49
35:SM:52:PRO:O	35:SM:54:PRO:HD3	5.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:238:ASP:OD1	34:SR:238:ASP:N	2.46	0.49
36:1:1785:U:H2'	36:1:1786:G:C8	2.48	0.49
36:1:2916:U:O3'	59:N3:46:LEU:HA	2.12	0.49
36:1:3139:A:H8	36:1:3139:A:H5''	1.78	0.49
36:1:3164:C:O2'	36:1:3165:A:H8	1.96	0.49
36:1:430:U:OP2	85:1:3535:OHX:N4	2.46	0.49
1:2:1151:A:H2'	1:2:1152:A:C8	2.47	0.49
1:2:1675:C:H1'	10:S8:32:GLN:OE1	2.13	0.49
1:2:240:U:H4'	1:2:241:U:OP2	2.12	0.49
1:2:322:G:O4'	1:2:323:A:H8	1.96	0.49
36:5:1308:A:OP2	36:5:2368:A:H4'	2.12	0.49
36:5:733:G:N7	85:5:3568:OHX:N5	2.61	0.49
20:C8:139:LYS:HB2	1:6:1458:G:OP2	353.04	0.49
1:6:453:U:O4	85:6:1916:OHX:N4	2.46	0.49
1:6:263:C:H4'	1:6:292:U:H5'	1.94	0.49
37:7:36:C:O2	37:7:45:A:H1'	2.12	0.49
12:C0:29:GLN:HB3	12:C0:39:ASN:HB3	3.48	0.49
13:C1:84:ILE:HG13	13:C1:109:VAL:HG13	4.45	0.49
13:C1:20:PHE:CZ	13:C1:22:ASN:HA	3.33	0.49
13:C1:3:THR:HG22	13:C1:4:GLU:H	2.62	0.49
15:C3:135:LEU:HD22	15:C3:139:TRP:CD1	2.47	0.49
17:C5:20:VAL:HB	17:C5:25:LEU:HD21	2.05	0.49
20:C8:26:ILE:O	20:C8:31:ALA:HB2	3.27	0.49
25:D3:56:LYS:NZ	25:D3:93:LEU:O	2.94	0.49
25:D3:92:CYS:HA	25:D3:95:PHE:HD2	1.78	0.49
39:L2:26:ALA:HB3	39:L2:28:LYS:HE2	1.94	0.49
40:L3:282:ILE:HG23	40:L3:322:ILE:HG23	1.95	0.49
41:L4:138:ARG:HH21	41:L4:240:PRO:HD2	1.87	0.49
44:L7:214:TRP:O	44:L7:216:VAL:HG22	3.35	0.49
45:L8:159:PRO:HB2	45:L8:161:GLU:OE2	4.14	0.49
46:L9:94:TYR:CD2	46:L9:98:PRO:HA	2.68	0.49
51:M5:133:ILE:HG13	51:M5:133:ILE:O	2.13	0.49
55:M9:81:ARG:HG3	55:M9:88:ARG:NH1	2.27	0.49
61:N5:67:ILE:HD12	61:N5:121:LYS:HG3	2.02	0.49
72:O6:10:GLY:O	72:O6:13:LYS:HG2	4.88	0.49
75:O9:2:ALA:N	75:O9:5:LYS:HE2	4.59	0.49
3:S1:181:LEU:HD13	3:S1:181:LEU:H	1.78	0.49
4:S2:168:ARG:NH1	4:S2:170:ILE:HD11	2.28	0.49
6:S4:19:LEU:HD11	6:S4:108:ARG:HH21	2.84	0.49
6:S4:15:PRO:HA	6:S4:39:ARG:HH12	4.19	0.49
34:SR:305:TYR:HB2	34:SR:309:VAL:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:52:GLN:HG2	34:SR:53:LYS:HG3	4.54	0.49
36:1:112:U:O2'	36:1:113:C:P	2.70	0.49
36:1:1148:G:C2	36:1:1156:C:C2	3.01	0.49
36:1:1202:A:C2	36:1:2857:C:H5'	2.48	0.49
36:1:1222:G:O2'	36:1:1285:G:N1	2.08	0.49
36:1:1439:U:H2'	36:1:1440:G:C8	2.47	0.49
36:1:2321:A:H2'	36:1:2322:C:O4'	2.12	0.49
36:1:2644:C:O2	47:M0:116:ARG:HD3	2.13	0.49
36:1:267:G:O4'	51:M5:50:ARG:HD2	2.13	0.49
36:1:3169:U:H2'	36:1:3170:A:O4'	2.13	0.49
36:1:365:A:OP1	41:L4:84:ARG:HD3	2.12	0.49
36:1:350:C:N3	36:1:367:A:H2'	2.28	0.49
36:1:619:A:H4'	36:1:620:U:O4'	2.12	0.49
1:2:1664:C:H42	1:2:1737:G:H1	1.60	0.49
1:2:450:U:H2'	1:2:451:A:H8	1.78	0.49
1:2:803:A:C5	9:S7:104:ARG:HG3	2.48	0.49
1:2:992:A:H2	1:2:1012:U:N3	1.90	0.49
68:O2:61:LYS:NZ	36:5:1339:C:OP1	193.56	0.49
47:M0:7:ARG:NH1	36:5:2828:G:OP1	269.87	0.49
36:5:604:G:N7	85:5:3672:OHX:N2	2.61	0.49
41:L4:232:SER:O	36:5:694:C:H4'	100.30	0.49
49:M3:59:ARG:HD3	36:5:73:C:O2	91.00	0.49
1:6:404:G:H2'	1:6:405:C:C6	2.48	0.49
1:6:602:U:H2'	1:6:603:U:C6	2.48	0.49
17:C5:68:PRO:HG2	17:C5:71:GLU:HB3	1.95	0.49
19:C7:7:LYS:O	19:C7:11:ARG:HB2	2.25	0.49
21:C9:73:VAL:HG23	1:6:1499:G:OP2	417.49	0.49
24:D2:73:GLY:HA3	24:D2:128:PHE:CZ	2.75	0.49
1:2:958:U:P	29:D7:20:LYS:HE3	2.53	0.49
39:L2:117:GLU:HB3	39:L2:119:LYS:O	2.13	0.49
40:L3:19:ARG:HB3	40:L3:232:ARG:NH1	2.43	0.49
42:L5:269:SER:HA	37:7:22:A:C2	323.79	0.49
44:L7:219:LYS:HD3	36:5:1169:A:H4'	250.59	0.49
46:L9:159:ALA:O	46:L9:163:GLN:HB2	2.51	0.49
47:M0:156:ARG:HG2	47:M0:156:ARG:O	3.76	0.49
48:M1:139:THR:HG22	48:M1:146:GLY:O	2.13	0.49
48:M1:37:LEU:HD12	48:M1:67:VAL:HG23	1.94	0.49
50:M4:85:TRP:CD1	50:M4:90:VAL:HG13	2.48	0.49
52:M6:46:GLU:CB	52:M6:134:LYS:HE3	2.43	0.49
56:N0:2:ALA:HB1	36:5:1324:U:H5''	288.34	0.49
66:O0:10:ILE:HD11	66:O0:104:LEU:HD11	5.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1178:G:O6	69:O3:20:LYS:HD3	2.13	0.49
73:O7:66:TYR:O	73:O7:68:LYS:N	3.28	0.49
78:Q2:46:LYS:O	85:Q2:502:OHX:N3	3.13	0.49
2:S0:179:ARG:HD3	2:S0:183:ARG:NE	3.81	0.49
9:S7:73:VAL:HG12	9:S7:76:LYS:HB2	3.77	0.49
11:S9:123:HIS:CD2	32:E0:37:ARG:HD2	2.91	0.49
11:S9:142:ASN:O	11:S9:144:PRO:HD3	2.13	0.49
11:S9:26:ALA:O	11:S9:30:LEU:HD12	2.48	0.49
34:SR:255:ALA:HB2	34:SR:292:LEU:HD21	3.23	0.49
36:1:167:U:H2'	36:1:168:U:H6	1.78	0.49
36:1:185:C:H2'	36:1:186:U:H6	1.78	0.49
36:1:1922:A:N6	36:1:1929:G:O2'	2.45	0.49
36:1:2275:A:H2'	36:1:2276:G:O4'	2.13	0.49
36:1:3010:U:O4	85:1:3437:OHX:N2	2.46	0.49
85:1:3509:OHX:N3	85:1:3695:OHX:N4	2.60	0.49
85:1:3569:OHX:N4	85:1:3582:OHX:N1	2.61	0.49
1:2:1229:G:O2'	1:2:1255:G:N2	2.46	0.49
1:2:1365:C:N4	1:2:1366:U:O4	2.46	0.49
1:2:1650:U:H2'	1:2:1651:A:C8	2.47	0.49
1:2:577:G:H2'	35:SM:99:LYS:HZ1	1.76	0.49
1:2:629:U:C2	1:2:630:A:C8	3.01	0.49
1:2:793:A:H5''	1:2:794:U:C6	2.47	0.49
51:M5:49:ARG:HD3	36:5:115:A:OP1	105.13	0.49
36:5:1165:A:H2'	36:5:1166:G:O4'	2.12	0.49
45:L8:33:ASN:HA	36:5:2549:G:N2	212.48	0.49
36:5:2840:C:H2'	36:5:2841:G:O4'	2.13	0.49
76:Q0:102:ARG:HH21	36:5:2896:A:P	317.88	0.49
36:5:2931:C:H2'	36:5:2932:U:O4'	2.13	0.49
36:5:2951:G:O2'	36:5:2952:G:H5'	2.13	0.49
85:5:3539:OHX:N6	85:5:3742:OHX:N2	2.60	0.49
1:6:1773:C:H2'	1:6:1774:G:C8	2.48	0.49
1:6:235:G:H2'	1:6:236:A:H8	1.78	0.49
1:6:328:A:H2'	1:6:329:G:H8	1.76	0.49
25:D3:114:LYS:HE2	1:6:571:G:H5''	362.93	0.49
1:6:74:U:C2	1:6:76:A:H5''	2.47	0.49
13:C1:125:VAL:HG12	13:C1:139:VAL:HA	1.95	0.49
13:C1:5:LEU:HB3	13:C1:6:THR:HG23	1.95	0.49
13:C1:17:PRO:HG3	13:C1:63:LEU:HD11	1.95	0.49
17:C5:18:ARG:HH21	17:C5:38:PRO:HG3	1.77	0.49
18:C6:113:ASP:O	18:C6:114:ARG:HD3	2.13	0.49
18:C6:28:LEU:HD13	18:C6:30:LYS:HG3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:105:GLN:O	19:C7:109:LEU:N	2.88	0.49
20:C8:30:TYR:HE2	20:C8:40:ARG:NH1	2.10	0.49
26:D4:40:LEU:O	26:D4:44:LEU:HB2	2.31	0.49
41:L4:35:VAL:HG21	41:L4:244:LEU:HD21	1.95	0.49
42:L5:91:GLY:HA3	42:L5:94:ASN:ND2	3.80	0.49
44:L7:125:GLU:O	44:L7:128:LYS:HB2	2.13	0.49
45:L8:215:VAL:O	45:L8:219:ASP:HB2	2.13	0.49
47:M0:142:ASP:OD2	47:M0:178:ARG:NH2	3.95	0.49
49:M3:47:ALA:HB1	49:M3:48:PRO:HD2	1.95	0.49
49:M3:64:LYS:HG3	64:N8:69:TRP:CD1	2.47	0.49
51:M5:193:ARG:C	51:M5:195:ASN:H	2.15	0.49
52:M6:115:LYS:O	52:M6:117:ARG:NH1	2.90	0.49
36:1:973:A:OP1	54:M8:12:ARG:NH1	2.46	0.49
36:1:1722:U:H1'	55:M9:96:ILE:HG12	1.95	0.49
46:L9:4:ILE:HG21	56:N0:143:PHE:HE1	3.48	0.49
63:N7:36:HIS:HE2	63:N7:74:VAL:HG21	2.60	0.49
67:O1:13:THR:N	67:O1:72:ARG:HH11	2.11	0.49
67:O1:53:PRO:O	67:O1:57:GLN:HG3	2.12	0.49
70:O4:66:SER:HB3	70:O4:69:HIS:ND1	3.74	0.49
2:S0:28:ASN:O	2:S0:150:ASP:HB3	6.55	0.49
4:S2:157:LYS:HG2	4:S2:170:ILE:HG23	3.55	0.49
4:S2:177:GLY:HA2	4:S2:194:GLU:O	2.75	0.49
4:S2:235:LEU:HD13	23:D1:33:GLN:NE2	2.28	0.49
7:S5:130:ILE:O	7:S5:133:VAL:HB	2.13	0.49
9:S7:109:VAL:HG22	9:S7:110:GLN:H	1.78	0.49
10:S8:76:THR:HB	10:S8:105:ASP:CB	2.42	0.49
36:1:1299:U:H2'	36:1:1300:G:O4'	2.12	0.48
36:1:1798:A:H2'	36:1:1799:A:C8	2.48	0.48
36:1:1815:U:O2'	36:1:1816:A:OP2	2.23	0.48
36:1:1915:A:H2'	36:1:1916:U:C6	2.48	0.48
36:1:2207:A:C2'	36:1:2208:A:H5'	2.43	0.48
36:1:2557:A:C6	39:L2:64:ARG:HD2	2.48	0.48
36:1:874:U:H3	36:1:2978:U:H5''	1.78	0.48
36:1:3392:U:H2'	36:1:3393:U:H6	1.77	0.48
36:1:61:A:H2'	36:1:62:A:O4'	2.12	0.48
36:1:675:C:O2'	36:1:679:U:OP1	2.31	0.48
1:2:1196:A:H4'	1:2:1197:C:H5''	1.95	0.48
1:2:1287:A:O3'	1:2:1288:G:H8	1.96	0.48
1:2:17:C:H2'	1:2:18:C:C6	2.48	0.48
36:5:1863:G:N1	36:5:1866:C:OP2	2.35	0.48
36:5:3069:G:C6	36:5:3070:A:N7	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3296:A:O5'	36:5:3296:A:H8	1.96	0.48
85:5:3514:OHX:N3	85:5:3705:OHX:N1	2.61	0.48
85:6:1914:OHX:N1	85:6:2001:OHX:N3	2.61	0.48
1:6:301:A:H2'	1:6:302:U:O4'	2.13	0.48
42:L5:265:TYR:CE1	37:7:121:U:H5''	315.32	0.48
37:7:62:U:O4	37:7:63:A:N6	2.46	0.48
12:C0:11:ILE:HD13	12:C0:35:ILE:HG21	1.95	0.48
15:C3:92:ILE:HD11	15:C3:139:TRP:HH2	2.66	0.48
15:C3:22:ALA:HB1	15:C3:23:PRO:CA	2.43	0.48
20:C8:45:LEU:HD11	21:C9:36:ILE:HG22	2.24	0.48
21:C9:16:ASN:HA	21:C9:56:LYS:NZ	3.26	0.48
24:D2:82:LYS:O	24:D2:84:GLY:N	2.45	0.48
27:D5:68:ARG:HD3	27:D5:68:ARG:HA	1.64	0.48
43:L6:65:ILE:O	43:L6:76:LEU:HA	2.45	0.48
44:L7:176:TYR:CZ	44:L7:197:GLN:HG2	2.48	0.48
44:L7:96:PRO:O	44:L7:99:PRO:HD2	2.21	0.48
47:M0:12:GLN:HB3	47:M0:128:ARG:HH21	2.86	0.48
47:M0:182:LEU:HD21	47:M0:185:ARG:CZ	4.43	0.48
49:M3:8:PRO:HA	54:M8:164:ARG:O	2.12	0.48
51:M5:110:ALA:HB1	51:M5:113:LEU:HD23	1.94	0.48
62:N6:57:LEU:HD21	62:N6:65:GLY:HA2	2.40	0.48
66:O0:78:GLY:HA2	66:O0:87:VAL:HG13	1.94	0.48
69:O3:39:GLN:C	69:O3:41:ALA:H	2.17	0.48
77:Q1:21:ARG:HD2	1:6:1653:C:O3'	284.02	0.48
8:S6:103:GLY:H	8:S6:106:LEU:HD12	1.77	0.48
9:S7:46:ILE:HA	9:S7:59:ALA:O	2.39	0.48
1:2:694:U:H3	9:S7:98:ILE:HD12	1.79	0.48
1:2:334:G:O6	10:S8:5:ARG:NH2	2.44	0.48
11:S9:176:ASN:HD22	1:6:511:A:P	466.24	0.48
11:S9:51:LYS:O	11:S9:54:ARG:HB3	2.13	0.48
36:1:1043:C:O3'	47:M0:90:ARG:NH1	2.46	0.48
36:1:1347:U:P	41:L4:300:ARG:HH22	2.35	0.48
36:1:2696:A:H2'	36:1:2697:A:C8	2.48	0.48
36:1:744:A:N3	54:M8:141:ARG:NH1	2.60	0.48
37:3:11:A:H4'	37:3:13:A:C8	2.48	0.48
36:5:1577:G:H2'	36:5:1578:C:C6	2.48	0.48
36:5:186:U:OP2	85:5:3412:OHX:N4	2.46	0.48
57:N1:68:THR:OG1	36:5:2737:C:H4'	223.90	0.48
36:5:3067:C:H42	36:5:3074:G:H1	1.60	0.48
36:5:23:A:OP1	85:5:3409:OHX:N4	2.46	0.48
36:5:717:C:OP1	36:5:718:G:N2	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1114:G:O6	85:6:1967:OHX:N4	2.46	0.48
1:6:1394:G:H1	1:6:1404:C:N4	2.11	0.48
37:7:114:U:H2'	37:7:115:G:C8	2.48	0.48
42:L5:260:PHE:CE2	37:7:121:U:H5'	320.65	0.48
85:7:203:OHX:N1	85:7:211:OHX:N2	2.60	0.48
38:8:145:U:H2'	38:8:146:U:C6	2.48	0.48
41:L4:51:ALA:HB3	38:8:27:U:H4'	109.80	0.48
18:C6:38:LEU:O	18:C6:40:GLU:N	2.40	0.48
19:C7:103:ASP:OD1	19:C7:103:ASP:N	2.45	0.48
22:D0:34:LEU:HD21	22:D0:89:ARG:NH1	5.93	0.48
24:D2:36:LYS:O	24:D2:40:VAL:HG23	2.30	0.48
26:D4:36:SER:O	26:D4:40:LEU:HG	2.13	0.48
30:D8:21:SER:N	30:D8:67:ARG:HA	4.55	0.48
33:E1:98:VAL:HG11	33:E1:100:LEU:HD22	1.95	0.48
33:E1:105:TYR:HB3	33:E1:117:LEU:HD12	3.96	0.48
40:L3:43:LEU:HG	40:L3:181:ILE:HG21	2.12	0.48
43:L6:98:VAL:HA	43:L6:101:PHE:CD2	2.49	0.48
37:3:56:A:O2'	48:M1:148:VAL:HG13	2.12	0.48
52:M6:65:ASN:C	52:M6:67:THR:H	2.16	0.48
52:M6:80:PHE:O	52:M6:83:ALA:HB3	2.14	0.48
57:N1:154:VAL:HG23	57:N1:155:PRO:O	2.13	0.48
61:N5:24:LEU:HD22	61:N5:25:LYS:H	3.30	0.48
63:N7:2:ALA:O	63:N7:4:PHE:N	2.44	0.48
63:N7:36:HIS:CE1	63:N7:74:VAL:HG11	2.48	0.48
66:O0:16:LEU:HD11	66:O0:97:ASP:HB3	1.95	0.48
76:Q0:93:LYS:HD2	76:Q0:103:LEU:O	2.14	0.48
2:S0:120:LEU:HD12	2:S0:121:VAL:H	1.78	0.48
4:S2:53:ILE:O	4:S2:56:ILE:N	2.58	0.48
6:S4:104:ASP:HB2	6:S4:108:ARG:H	1.83	0.48
7:S5:144:GLU:HA	7:S5:162:VAL:HG12	1.96	0.48
11:S9:171:ARG:HH12	11:S9:174:ARG:HG3	1.79	0.48
34:SR:220:ILE:HD13	34:SR:243:LEU:HD21	1.95	0.48
36:1:1352:A:H4'	36:1:1353:U:OP1	2.13	0.48
36:1:1710:C:H2'	36:1:1711:C:C6	2.48	0.48
36:1:2872:A:C2'	36:1:2873:U:H5'	2.43	0.48
36:1:366:A:H5''	36:1:367:A:OP2	2.13	0.48
36:1:98:G:N7	49:M3:13:HIS:NE2	2.60	0.48
1:2:1201:G:O2'	85:2:1989:OHX:N4	2.47	0.48
1:2:1329:A:O5'	1:2:1329:A:H8	1.95	0.48
1:2:1357:A:C6	1:2:1367:G:C6	3.01	0.48
1:2:1755:A:H2	1:2:1756[A]:A:C4	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1922:OHX:N2	85:2:1977:OHX:N5	2.62	0.48
36:5:1046:A:H2'	36:5:1049:C:C5	2.47	0.48
36:5:119:U:H4'	36:5:120:G:H3'	1.95	0.48
36:5:1514:G:C6	36:5:1841:A:C5	3.02	0.48
36:5:2572:C:O2'	36:5:2573:G:OP2	2.25	0.48
36:5:2584:G:H3'	36:5:2585:G:H4'	1.94	0.48
36:5:3269:U:H5'	36:5:3271:G:O4'	2.12	0.48
36:5:3352:U:O2	85:5:3735:OHX:N1	2.46	0.48
36:5:980:A:H2'	36:5:981:U:N1	2.28	0.48
32:E0:28:LYS:HZ1	1:6:542:A:N6	428.89	0.48
1:6:76:A:H3'	85:6:2046:OHX:N1	2.28	0.48
16:C4:41:ARG:NH1	1:6:917:U:O2	266.54	0.48
1:6:918:U:H2'	1:6:919:A:C8	2.36	0.48
85:8:203:OHX:N5	85:8:211:OHX:N3	2.61	0.48
38:8:77:A:H2'	38:8:78:G:O4'	2.13	0.48
16:C4:81:VAL:HG21	16:C4:102:LEU:HD23	2.56	0.48
17:C5:81:ARG:NH1	17:C5:97:TYR:O	2.46	0.48
28:D6:12:LYS:HD3	28:D6:16:GLY:H	5.30	0.48
31:D9:24:CYS:SG	31:D9:26:SER:HB2	4.27	0.48
39:L2:70:ARG:HG3	39:L2:71:LEU:N	3.09	0.48
40:L3:372:THR:HB	40:L3:374:ALA:HB3	1.94	0.48
42:L5:177:GLU:O	42:L5:179:ARG:N	2.49	0.48
42:L5:99:TYR:CD2	42:L5:199:ILE:HG12	3.19	0.48
44:L7:191:VAL:HG12	44:L7:192:GLY:H	3.49	0.48
51:M5:160:GLU:OE1	51:M5:160:GLU:N	2.83	0.48
56:N0:66:GLU:HB3	56:N0:69:PRO:HG3	1.95	0.48
68:O2:43:ARG:HH11	68:O2:43:ARG:HG2	1.78	0.48
68:O2:50:ILE:HG13	68:O2:50:ILE:O	2.51	0.48
69:O3:85:PHE:CZ	69:O3:89:LEU:HD11	2.94	0.48
1:2:1424:A:H1'	4:S2:92:ALA:HB1	1.95	0.48
5:S3:72:LEU:HG	12:C0:20:VAL:HG21	2.39	0.48
6:S4:18:TRP:HH2	6:S4:31:PRO:HD3	1.82	0.48
6:S4:86:PHE:O	6:S4:87:MET:HB2	2.12	0.48
7:S5:146:THR:CG2	7:S5:157:ARG:HB3	3.05	0.48
36:1:22:G:H1'	38:4:104:A:N3	2.29	0.48
36:1:2830:G:H2'	36:1:2831:G:C8	2.48	0.48
36:1:2873:U:H4'	36:1:2874:G:OP1	2.13	0.48
36:1:3082:C:H2'	36:1:3083:G:H8	1.77	0.48
36:1:3306:U:O2'	36:1:3308:C:OP2	2.16	0.48
36:1:3325:G:H5''	67:O1:103:GLY:HA2	1.96	0.48
36:1:852:U:C5	79:Q3:2:ALA:HA	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1357:A:H2'	1:2:1358:G:C8	2.47	0.48
1:2:1483:A:C6	1:2:1484:G:C6	3.01	0.48
1:2:1720:G:O6	85:2:1960:OHX:N5	2.46	0.48
38:4:77:A:OP2	85:4:204:OHX:N2	2.46	0.48
36:5:1068:C:H2'	36:5:1069:C:C6	2.49	0.48
36:5:1222:G:H8	36:5:1222:G:OP2	1.96	0.48
36:5:1303:A:O4'	36:5:2885:C:O2'	2.32	0.48
36:5:173:G:H1'	36:5:174:C:H5'	1.95	0.48
36:5:2179:C:H4'	36:5:2180:G:OP2	2.13	0.48
36:5:2881:C:H2'	36:5:2882:U:H6	1.78	0.48
44:L7:217:PRO:O	85:5:3505:OHX:N3	259.98	0.48
1:6:1733:C:H2'	1:6:1734:U:C6	2.48	0.48
1:6:1672:G:N7	85:6:1914:OHX:N4	2.62	0.48
1:6:275:C:N4	1:6:276:C:H41	2.12	0.48
32:E0:28:LYS:HZ1	1:6:542:A:H61	429.04	0.48
1:6:894:U:H2'	1:6:895:G:C8	2.49	0.48
38:8:83:C:H4'	38:8:85:G:C2	2.48	0.48
14:C2:88:LEU:N	14:C2:140:PHE:HZ	2.11	0.48
15:C3:117:LEU:O	15:C3:120:SER:N	2.80	0.48
15:C3:56:ASP:HA	29:D7:47:PHE:HB3	1.97	0.48
18:C6:21:HIS:HB2	18:C6:66:ARG:HB3	3.38	0.48
18:C6:50:GLU:OE2	18:C6:82:ARG:NH2	3.16	0.48
19:C7:29:GLN:HB3	34:SR:85:TRP:HZ3	2.67	0.48
21:C9:42:GLY:HA2	21:C9:84:LYS:HE2	1.94	0.48
22:D0:87:HIS:HB3	22:D0:89:ARG:NH2	4.17	0.48
2:S0:3:LEU:HD11	23:D1:80:LYS:HB2	1.94	0.48
24:D2:111:MET:HG3	24:D2:112:ASP:O	3.67	0.48
26:D4:54:ALA:HB2	26:D4:79:VAL:HG22	1.95	0.48
40:L3:150:ARG:HG2	40:L3:150:ARG:HH11	1.85	0.48
41:L4:187:LEU:HD23	41:L4:198:ARG:O	2.36	0.48
42:L5:261:THR:O	42:L5:264:GLN:HB2	2.33	0.48
45:L8:128:LYS:HG3	36:5:120:G:N7	99.09	0.48
45:L8:213:LYS:O	45:L8:216:SER:OG	4.61	0.48
48:M1:91:LEU:HD12	48:M1:163:PHE:CE2	2.49	0.48
49:M3:131:LYS:HB2	49:M3:133:PRO:HD3	1.95	0.48
57:N1:68:THR:HG23	57:N1:71:SER:HB2	1.95	0.48
69:O3:70:LYS:O	69:O3:70:LYS:HG2	2.12	0.48
76:Q0:77:ILE:HG13	76:Q0:78:ILE:H	3.75	0.48
7:S5:75:GLY:O	7:S5:76:ARG:HD3	2.13	0.48
9:S7:99:LEU:HD12	9:S7:116:ARG:HG2	1.95	0.48
1:2:768:C:C2	11:S9:143:ILE:HG12	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1408:G:OP2	68:O2:31:ASN:ND2	2.46	0.48
36:1:150:A:C4	36:1:151:A:C8	3.02	0.48
36:1:2102:U:H2'	36:1:2103:U:C6	2.48	0.48
36:1:913:A:H2	36:1:2134:G:N3	2.12	0.48
36:1:2567:C:C2'	36:1:2568:C:H5'	2.42	0.48
36:1:2692:A:O5'	36:1:2692:A:H8	1.97	0.48
36:1:26:A:H2'	36:1:27:C:C6	2.49	0.48
36:1:3090:U:OP1	40:L3:270:ARG:NH2	2.47	0.48
36:1:347:G:C6	36:1:348:A:C6	3.02	0.48
1:2:1282:U:H2'	1:2:1283:U:C6	2.49	0.48
1:2:1452:U:C2	1:2:1453:G:C8	3.01	0.48
1:2:1615:C:O2'	1:2:1616:G:OP2	2.29	0.48
1:2:328:A:H2'	1:2:329:G:C8	2.48	0.48
36:5:1532:C:C2	36:5:1591:G:C2	3.01	0.48
36:5:173:G:HO2'	36:5:174:C:H6	1.59	0.48
36:5:239:G:N7	85:5:3636:OHX:N5	2.62	0.48
85:5:3480:OHX:N4	85:5:3703:OHX:N3	2.62	0.48
36:5:426:G:C6	36:5:427:C:N4	2.81	0.48
36:5:622:A:H2'	36:5:623:U:O4'	2.14	0.48
1:6:1407:U:O5'	1:6:1407:U:H6	1.97	0.48
1:6:647:G:N2	1:6:687:G:H22	2.10	0.48
1:6:82:U:H2'	1:6:83:G:O4'	2.14	0.48
1:6:872:G:H2'	1:6:873:U:O4'	2.13	0.48
42:L5:21:ARG:N	37:7:10:C:O2	285.54	0.48
12:C0:59:PHE:CZ	12:C0:62:GLN:HA	2.58	0.48
15:C3:113:PHE:CE1	15:C3:117:LEU:HD11	2.48	0.48
16:C4:24:ASN:O	16:C4:54:GLU:HB3	2.13	0.48
17:C5:122:THR:HG22	17:C5:123:TYR:HD1	5.69	0.48
17:C5:22:LEU:HA	17:C5:25:LEU:HD12	2.35	0.48
19:C7:37:GLU:OE1	34:SR:129:LYS:NZ	6.88	0.48
20:C8:96:LYS:HB2	20:C8:98:TYR:CE2	2.49	0.48
21:C9:33:TYR:HD1	21:C9:34:VAL:H	3.15	0.48
22:D0:20:ILE:HG22	22:D0:21:LYS:H	5.29	0.48
18:C6:129:PHE:HE1	22:D0:78:THR:HA	1.78	0.48
26:D4:63:GLN:HB3	26:D4:68:LYS:HB3	1.95	0.48
11:S9:28:LEU:HD13	32:E0:40:TYR:HA	2.63	0.48
39:L2:10:LYS:HA	39:L2:16:PHE:CD2	2.48	0.48
40:L3:258:ALA:O	40:L3:259:HIS:CD2	2.67	0.48
40:L3:46:PHE:CD2	40:L3:81:THR:HG22	2.48	0.48
40:L3:60:LEU:HG	40:L3:61:ASP:N	2.27	0.48
46:L9:103:ILE:HG13	46:L9:136:PHE:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:136:ASP:O	51:M5:142:ILE:HD13	2.12	0.48
45:L8:137:ASN:OD1	51:M5:2:GLY:HA2	3.32	0.48
51:M5:48:ALA:O	51:M5:53:TYR:HB3	2.72	0.48
57:N1:82:ASN:HA	65:N9:21:ILE:HD13	1.96	0.48
45:L8:50:VAL:HA	61:N5:30:ALA:HB1	3.62	0.48
63:N7:36:HIS:NE2	63:N7:74:VAL:HG11	2.28	0.48
71:O5:21:LEU:O	71:O5:24:LEU:N	3.23	0.48
73:O7:15:SER:HB3	73:O7:16:HIS:ND1	2.28	0.48
77:Q1:21:ARG:O	77:Q1:24:SER:OG	4.48	0.48
5:S3:84:ILE:HD13	5:S3:85:VAL:H	1.79	0.48
7:S5:166:ARG:NH1	7:S5:170:GLN:OE1	2.46	0.48
11:S9:171:ARG:HE	11:S9:174:ARG:CB	5.82	0.48
36:1:1188:U:OP1	36:1:1210:U:O2'	2.23	0.48
36:1:1357:G:C6	36:1:1358:C:C4	3.02	0.48
36:1:1547:G:O2'	36:1:1548:C:H5'	2.13	0.48
36:1:1573:G:N3	36:1:1573:G:H2'	2.29	0.48
36:1:2174:G:OP1	36:1:2174:G:H8	1.96	0.48
36:1:2278:C:H2'	36:1:2279:A:H5''	1.96	0.48
36:1:2651:G:C4	36:1:2796:G:C2	3.02	0.48
36:1:2865:U:OP1	47:M0:115:MET:HB3	2.14	0.48
36:1:3060:C:OP2	85:1:3576:OHX:N6	2.47	0.48
36:1:612:U:H2'	36:1:613:G:C8	2.46	0.48
36:1:794:U:O5'	36:1:794:U:H6	1.97	0.48
1:2:1273:G:H4'	1:2:1275:A:OP1	2.14	0.48
1:2:1301:U:OP1	4:S2:88:LYS:HB2	2.14	0.48
1:2:1335:U:H2'	1:2:1336:A:H8	1.78	0.48
1:2:1389:C:OP1	19:C7:45:ARG:HA	2.13	0.48
1:2:1402:G:H2'	1:2:1403:C:C6	2.47	0.48
1:2:1490:C:H4'	1:2:1491:U:OP1	2.14	0.48
1:2:1677:C:H2'	1:2:1678:A:O4'	2.13	0.48
1:2:1734:U:H2'	1:2:1735:U:H6	1.79	0.48
1:2:1654:G:H2'	1:2:1745:G:N2	2.29	0.48
1:2:14:C:O2	1:2:619:A:H2	1.97	0.48
38:4:149:A:H2'	38:4:150:G:C8	2.49	0.48
57:N1:129:LYS:HB3	36:5:1098:A:H5'	251.32	0.48
36:5:1272:C:H2'	36:5:1273:A:O4'	2.14	0.48
36:5:1387:G:C2	36:5:1388:U:C5	3.01	0.48
36:5:2344:U:H2'	36:5:2345:A:H8	1.78	0.48
36:5:2529:A:H2'	36:5:2530:G:O4'	2.14	0.48
46:L9:171:ASP:HA	36:5:2899:C:C5	322.84	0.48
36:5:343:U:OP2	85:5:3427:OHX:N3	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1862:U:OP2	85:5:3649:OHX:N2	2.47	0.48
36:5:8:C:H2'	36:5:9:U:O4'	2.13	0.48
1:6:1000:C:N4	1:6:1003:A:OP2	2.39	0.48
1:6:1335:U:H2'	1:6:1336:A:C8	2.49	0.48
1:6:1336:A:OP1	85:6:2032:OHX:N1	2.47	0.48
26:D4:37:LYS:NZ	1:6:522:U:OP1	417.32	0.48
1:6:919:A:H2'	1:6:920:U:C6	2.49	0.48
36:5:1055:A:H4'	37:7:100:C:O2	2.13	0.48
37:7:112:G:OP2	85:7:206:OHX:N2	2.47	0.48
12:C0:14:TYR:CE1	12:C0:18:GLU:HG3	2.49	0.48
12:C0:53:GLY:O	12:C0:55:VAL:N	2.41	0.48
15:C3:42:ARG:HG2	15:C3:80:LEU:HD21	4.48	0.48
17:C5:75:PRO:HG3	17:C5:93:VAL:HG11	2.48	0.48
21:C9:42:GLY:HA2	21:C9:84:LYS:HB2	2.50	0.48
21:C9:74:GLY:HA2	21:C9:77:ASN:ND2	2.29	0.48
25:D3:73:ARG:NH1	25:D3:82:LYS:HB3	4.13	0.48
26:D4:59:GLY:O	26:D4:60:PHE:HB2	2.13	0.48
44:L7:187:GLU:OE1	44:L7:193:PRO:HD2	2.49	0.48
38:4:155:A:H5'	45:L8:185:ARG:NE	2.28	0.48
46:L9:48:VAL:HG22	46:L9:49:ASN:OD1	2.13	0.48
46:L9:77:ASN:HB3	46:L9:151:VAL:HG21	1.95	0.48
47:M0:210:ILE:HA	47:M0:217:PHE:CE2	2.67	0.48
51:M5:106:VAL:HA	51:M5:109:ARG:HB3	1.95	0.48
51:M5:140:LYS:HA	51:M5:143:ARG:HB2	2.86	0.48
52:M6:10:ASP:HA	52:M6:36:VAL:HG23	1.95	0.48
54:M8:81:VAL:HG22	54:M8:101:VAL:HG22	1.95	0.48
55:M9:42:ARG:HH22	36:5:1601:U:P	103.51	0.48
56:N0:13:ARG:CZ	56:N0:51:VAL:HG22	6.64	0.48
61:N5:135:ILE:O	61:N5:139:ILE:HG22	2.13	0.48
72:O6:34:SER:OG	72:O6:34:SER:O	2.26	0.48
75:O9:21:ARG:NH1	75:O9:22:PRO:O	2.34	0.48
75:O9:44:TRP:CH2	75:O9:45:ARG:HG3	2.58	0.48
3:S1:142:PHE:O	3:S1:207:LEU:HA	2.42	0.48
5:S3:176:LEU:HD12	5:S3:176:LEU:H	1.98	0.48
9:S7:56:LYS:HB2	9:S7:88:ARG:HH11	2.07	0.48
36:1:1696:A:H2'	36:1:1697:A:C8	2.49	0.48
36:1:1134:G:O2'	36:1:2642:A:N3	2.39	0.48
36:1:590:G:O2'	41:L4:309:ARG:NH1	2.47	0.48
36:1:650:C:O2'	36:1:651:G:H5'	2.14	0.48
1:2:1533:C:H5'	20:C8:27:LYS:NZ	2.29	0.48
36:5:1232:C:H2'	36:5:1233:G:H8	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:181:U:H1'	36:5:236:G:N2	2.28	0.48
41:L4:82:THR:OG1	36:5:365:A:H1'	121.77	0.48
36:5:501:A:H2'	36:5:502:U:H6	1.78	0.48
1:6:1041:G:H2'	1:6:1042:G:C8	2.49	0.48
33:E1:143:LYS:HD3	1:6:1254:U:OP1	456.37	0.48
1:6:329:G:O6	85:6:2009:OHX:N3	2.46	0.48
26:D4:10:ARG:HB3	1:6:778:G:O6	428.05	0.48
1:6:823:G:C5	1:6:850:A:C2	3.01	0.48
12:C0:24:LYS:HD3	12:C0:63:TYR:CE1	3.91	0.48
13:C1:76:VAL:HA	13:C1:119:VAL:HG13	1.95	0.48
20:C8:15:LEU:HD22	20:C8:15:LEU:H	3.76	0.48
20:C8:63:GLN:HA	20:C8:66:LEU:HG	2.81	0.48
23:D1:53:TYR:OH	23:D1:72:LEU:O	3.55	0.48
7:S5:161:ASP:O	30:D8:44:VAL:HA	2.33	0.48
1:2:1199:G:C5	31:D9:40:ARG:HD3	2.48	0.48
42:L5:122:VAL:C	42:L5:124:GLU:H	3.20	0.48
45:L8:165:PHE:O	45:L8:169:LEU:HB2	2.52	0.48
45:L8:210:ALA:O	45:L8:214:LEU:N	2.88	0.48
46:L9:92:TYR:HE2	46:L9:144:ILE:HB	5.17	0.48
52:M6:27:LEU:O	52:M6:29:ASN:N	3.56	0.48
61:N5:73:MET:HE3	61:N5:73:MET:HA	1.96	0.48
63:N7:108:GLU:O	63:N7:112:LYS:HG3	2.12	0.48
70:O4:20:ILE:HD12	70:O4:32:ALA:HB1	1.96	0.48
2:S0:195:TRP:CD2	2:S0:197:ILE:HB	3.45	0.48
4:S2:128:GLY:O	4:S2:132:ALA:N	2.88	0.48
4:S2:152:HIS:N	4:S2:152:HIS:CD2	3.18	0.48
1:2:581:U:OP2	5:S3:143:ARG:NH1	2.46	0.48
1:2:858:G:OP1	9:S7:116:ARG:NH2	2.46	0.48
9:S7:47:ARG:HE	9:S7:61:PHE:HE2	2.27	0.48
35:SM:99:LYS:O	35:SM:100:THR:HB	2.14	0.48
34:SR:110:VAL:HA	34:SR:126:SER:HB2	1.94	0.48
34:SR:116:ASP:HA	34:SR:156:VAL:HG11	1.96	0.48
36:1:2257:C:H2'	36:1:2258:U:O4'	2.14	0.48
36:1:2444:C:H3'	36:1:2445:A:H5''	1.95	0.48
36:1:2655:U:H4'	36:1:2656:A:O4'	2.13	0.48
36:1:49:A:C2	36:1:279:U:H4'	2.49	0.48
36:1:2830:G:H1	36:1:2858:U:H3	1.62	0.48
36:1:3304:U:N3	40:L3:333:LYS:O	2.47	0.48
85:1:3616:OHX:N1	72:O6:28:TYR:O	2.47	0.48
85:1:3540:OHX:N6	85:1:3711:OHX:N5	2.61	0.48
36:1:40:A:N7	64:N8:29:PRO:O	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:863:C:H2'	36:1:864:G:O4'	2.13	0.48
36:1:865:U:C5	36:1:866:A:N7	2.81	0.48
1:2:313:U:C2	1:2:1118:G:N3	2.82	0.48
1:2:115:G:OP1	13:C1:67:ARG:NH1	2.47	0.48
1:2:1400:A:H4'	19:C7:60:ARG:NH2	2.28	0.48
1:2:1545:A:OP2	20:C8:134:ARG:HG3	2.13	0.48
1:2:373:G:N7	85:2:2038:OHX:N6	2.62	0.48
1:2:574:G:O6	25:D3:65:ASN:ND2	2.43	0.48
37:3:45:A:H2'	37:3:46:A:O4'	2.13	0.48
36:5:1523:U:OP2	36:5:1604:G:O2'	2.31	0.48
36:5:2619:G:C6	36:5:2620:G:C5	3.02	0.48
36:5:2631:U:H4'	36:5:2697:A:H2	1.77	0.48
36:5:2734:A:OP1	85:5:3550:OHX:N6	2.47	0.48
36:5:2796:G:H4'	36:5:2798:C:C6	2.49	0.48
36:5:3028:G:H2'	36:5:3029:A:O4'	2.12	0.48
36:5:778:U:O4	85:5:3591:OHX:N1	2.47	0.48
51:M5:84:PRO:HD2	36:5:44:U:OP1	166.35	0.48
51:M5:81:TYR:OH	36:5:908:G:H3'	165.19	0.48
1:6:1120:U:H2'	1:6:1121:C:C6	2.49	0.48
1:6:10:G:C2	1:6:11:A:C4	3.02	0.48
1:6:1227:A:H4'	1:6:1228:G:H5'	1.96	0.48
1:6:138:A:H2'	1:6:139:C:H5'	1.95	0.48
1:6:1697:G:H8	1:6:1705:C:C2	2.32	0.48
1:6:23:G:C6	1:6:24:U:N3	2.82	0.48
1:6:341:A:H2'	1:6:342:C:H6	1.77	0.48
1:6:629:U:OP2	1:6:969:C:N4	2.40	0.48
12:C0:70:GLU:O	12:C0:73:VAL:HB	2.14	0.48
14:C2:59:LEU:HA	14:C2:87:PRO:HB2	1.95	0.48
14:C2:91:VAL:HG12	14:C2:92:ALA:H	1.79	0.48
15:C3:76:LYS:HA	15:C3:81:ALA:HB2	1.95	0.48
17:C5:122:THR:HB	1:6:1558:U:H3	365.03	0.48
18:C6:120:ASP:OD1	18:C6:122:ARG:HG3	3.46	0.48
19:C7:10:LYS:HG2	19:C7:53:TYR:CE1	2.48	0.48
20:C8:133:VAL:HG22	1:6:1545:A:OP1	354.44	0.48
42:L5:261:THR:HG23	42:L5:264:GLN:HE21	4.79	0.48
45:L8:181:LYS:HD2	38:8:155:A:OP1	151.87	0.48
45:L8:181:LYS:HD2	38:8:155:A:P	151.61	0.48
45:L8:49:TYR:HD2	36:5:2587:U:H4'	177.82	0.48
46:L9:86:TYR:CE2	46:L9:151:VAL:HG22	2.55	0.48
51:M5:57:GLN:HB3	51:M5:139:HIS:CE1	3.67	0.48
54:M8:67:ILE:HD13	54:M8:81:VAL:HG21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:117:ARG:HH21	36:5:1322:U:P	282.55	0.48
60:N4:53:VAL:O	60:N4:57:LYS:HD2	5.42	0.48
61:N5:67:ILE:CD1	61:N5:121:LYS:HG3	2.43	0.48
63:N7:33:SER:OG	63:N7:34:LYS:N	3.88	0.48
67:O1:98:VAL:HG21	67:O1:104:LEU:HD11	1.95	0.48
62:N6:126:LEU:HB2	71:O5:71:LYS:NZ	47.06	0.48
72:O6:37:THR:O	72:O6:41:ARG:HB2	2.14	0.48
3:S1:164:ILE:O	3:S1:168:ILE:HG13	2.50	0.48
4:S2:106:ASP:OD1	4:S2:107:SER:N	2.57	0.48
5:S3:30:ALA:C	5:S3:32:GLU:H	2.17	0.48
5:S3:84:ILE:HD13	5:S3:85:VAL:N	2.28	0.48
6:S4:122:LYS:HG2	6:S4:123:LEU:O	5.10	0.48
6:S4:141:THR:O	6:S4:143:ASP:N	2.46	0.48
11:S9:8:TYR:O	85:S9:201:OHX:N1	2.47	0.48
36:1:1668:G:C6	36:1:1669:C:C4	3.02	0.48
36:1:2107:A:H2	36:1:3344:A:H8	1.61	0.48
36:1:3393:U:H2'	36:1:3394:U:C6	2.49	0.48
36:1:426:G:H5'	68:O2:50:ILE:HG22	1.94	0.48
36:1:726:G:N2	36:1:743:C:OP2	2.43	0.48
36:1:812:G:O6	85:1:3521:OHX:N1	2.46	0.48
1:2:192:U:O2'	1:2:193:U:O5'	2.29	0.48
1:2:643:G:H2'	1:2:644:C:C6	2.49	0.48
36:5:1070:U:C4	36:5:1071:U:C4	3.01	0.48
36:5:2255:A:H5'	36:5:2261:G:H22	1.78	0.48
36:5:2568:C:HO2'	36:5:2569:A:P	2.36	0.48
85:5:3480:OHX:N6	85:5:3703:OHX:N3	2.62	0.48
36:5:413:U:H2'	36:5:414:U:C6	2.48	0.48
36:5:549:U:H2'	36:5:550:A:H8	1.77	0.48
36:5:740:G:H2'	36:5:741:U:C6	2.48	0.48
1:6:105:A:H2'	1:6:106:U:O4'	2.14	0.48
1:6:486:G:N2	1:6:501:U:H3	2.09	0.48
5:S3:144:ALA:HB2	1:6:579:A:N1	391.86	0.48
1:6:749:U:H2'	1:6:750:U:H6	1.79	0.48
37:7:55:A:H2'	37:7:56:A:O4'	2.13	0.48
38:8:15:G:C6	38:8:16:G:N1	2.82	0.48
19:C7:100:LEU:HG	19:C7:118:PRO:HG2	3.35	0.48
21:C9:5:SER:OG	21:C9:7:ARG:HG3	3.59	0.48
24:D2:45:GLY:O	24:D2:68:ARG:HD2	2.33	0.48
39:L2:214:GLY:O	39:L2:215:ASN:HB2	4.62	0.48
40:L3:139:GLN:OE1	40:L3:142:ALA:HB3	2.13	0.48
40:L3:113:GLU:OE2	40:L3:167:ARG:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:347:SER:HB3	40:L3:349:LYS:H	3.26	0.48
42:L5:233:ALA:C	42:L5:235:SER:H	2.66	0.48
37:3:99:G:H4'	44:L7:128:LYS:HE3	1.96	0.48
45:L8:70:LYS:HB3	45:L8:233:TRP:CE3	3.64	0.48
52:M6:108:ILE:HG12	52:M6:108:ILE:O	4.70	0.48
54:M8:122:ILE:HG22	54:M8:123:THR:O	2.78	0.48
54:M8:123:THR:N	54:M8:126:GLN:OE1	4.49	0.48
55:M9:43:LYS:HZ3	36:5:1765:U:H5'	93.23	0.48
56:N0:109:ASP:OD1	56:N0:113:ARG:NH1	2.47	0.48
69:O3:15:SER:OG	69:O3:16:TYR:O	3.04	0.48
71:O5:28:LEU:HA	71:O5:31:LEU:HB2	2.93	0.48
73:O7:25:ARG:NH1	36:5:360:G:OP1	125.65	0.48
73:O7:88:ALA:HB3	85:O7:102:OHX:N4	2.29	0.48
3:S1:137:ILE:HD11	3:S1:172:LEU:HD22	2.86	0.48
3:S1:180:THR:O	3:S1:184:LEU:HB2	2.14	0.48
4:S2:67:GLN:O	4:S2:70:ASP:HB2	2.49	0.48
10:S8:73:SER:O	10:S8:74:LYS:HD2	2.71	0.48
11:S9:142:ASN:OD1	11:S9:142:ASN:N	2.47	0.48
36:1:1240:A:H61	36:1:1244:A:H5''	1.78	0.48
36:1:1245:A:H3'	36:1:1246:G:H5''	1.96	0.48
36:1:129:U:O4	85:1:3426:OHX:N5	2.47	0.48
36:1:2137:U:OP2	36:1:2142:A:N6	2.44	0.48
36:1:2726:C:O2'	36:1:2727:A:H2'	2.14	0.48
36:1:284:A:P	78:Q2:41:ARG:HH11	2.37	0.48
36:1:312:C:H1'	36:1:2778:G:N2	2.29	0.48
36:1:3143:C:O2'	85:1:3436:OHX:N2	2.47	0.48
85:1:3409:OHX:N5	38:4:2:A:OP2	2.47	0.48
1:2:1393:C:H2'	1:2:1394:G:O4'	2.14	0.48
1:2:1388:A:C5	1:2:1411:A:C6	3.02	0.48
1:2:189:C:H2'	1:2:190:C:H5'	1.96	0.48
1:2:393:C:H2'	1:2:394:C:C6	2.49	0.48
1:2:526:A:C6	1:2:527:A:C5	3.01	0.48
1:2:883:C:H2'	1:2:884:A:H8	1.79	0.48
36:5:166:C:H2'	36:5:167:U:C6	2.49	0.48
53:M7:82:ARG:HB3	36:5:2352:A:OP1	158.70	0.48
36:5:2862:U:H2'	36:5:2863:G:O4'	2.13	0.48
36:5:2947:G:H2'	36:5:2948:C:C6	2.49	0.48
52:M6:148:LYS:NZ	36:5:3006:A:OP2	250.41	0.48
36:5:3316:A:H5''	36:5:3318:G:H21	1.77	0.48
36:5:3362:A:C2	36:5:3363:U:C2	3.01	0.48
36:5:3393:U:H2'	36:5:3394:U:H6	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:315:LYS:NZ	36:5:609:G:OP2	240.11	0.48
1:6:789:A:H3'	1:6:790:U:H6	1.77	0.48
42:L5:207:TYR:CD2	37:7:33:U:C2	293.48	0.48
73:O7:76:ASN:ND2	38:8:94:C:H5''	46.60	0.48
13:C1:109:VAL:HG12	13:C1:137:PHE:HB2	1.95	0.48
17:C5:64:LYS:HG3	17:C5:73:PRO:HG3	1.95	0.48
17:C5:96:ILE:HD13	17:C5:116:LEU:O	2.14	0.48
1:2:1584:G:H5''	18:C6:122:ARG:HG2	1.95	0.48
17:C5:19:GLY:N	20:C8:93:THR:O	2.47	0.48
23:D1:17:CYS:HG	23:D1:20:THR:HG1	6.13	0.48
26:D4:59:GLY:O	26:D4:71:GLY:HA2	5.20	0.48
26:D4:87:PRO:HG2	26:D4:90:ARG:CZ	2.43	0.48
36:1:2606:G:OP1	39:L2:233:GLN:NE2	2.47	0.48
41:L4:317:PRO:HB2	41:L4:324:LEU:HA	3.71	0.48
41:L4:314:LYS:HD2	44:L7:162:PRO:HB3	2.55	0.48
44:L7:174:GLY:O	44:L7:177:GLY:N	3.41	0.48
44:L7:25:GLN:CD	44:L7:29:GLU:HB2	2.34	0.48
46:L9:22:SER:OG	46:L9:39:LYS:NZ	2.78	0.48
47:M0:12:GLN:HA	47:M0:59:GLN:OE1	2.82	0.48
47:M0:22:TYR:HB3	36:5:2647:A:H4'	265.60	0.48
37:3:39:C:N3	48:M1:70:THR:HG23	2.29	0.48
56:N0:30:PHE:CD2	56:N0:103:VAL:HG21	2.49	0.48
36:1:1428:A:OP2	64:N8:2:PRO:HA	2.14	0.48
69:O3:26:ASN:HA	69:O3:88:ASN:ND2	2.29	0.48
69:O3:24:ASN:ND2	69:O3:27:VAL:HG23	3.71	0.48
70:O4:37:LYS:CB	70:O4:58:ARG:HH21	2.26	0.48
71:O5:109:ILE:HD13	36:5:170:G:H4'	44.53	0.48
78:Q2:58:PHE:CD1	78:Q2:59:HIS:N	2.82	0.48
2:S0:10:THR:OG1	2:S0:10:THR:O	2.92	0.48
2:S0:120:LEU:HD13	2:S0:142:PRO:HB2	1.96	0.48
3:S1:138:PHE:HD2	3:S1:214:LYS:HB3	2.34	0.48
4:S2:67:GLN:OE1	4:S2:67:GLN:N	2.75	0.48
5:S3:166:ASP:O	5:S3:190:ARG:NH2	3.28	0.48
9:S7:99:LEU:HD12	9:S7:116:ARG:HB3	3.54	0.48
34:SR:222:LEU:HD23	34:SR:234:LEU:HD13	2.24	0.48
36:1:1128:U:H5'	47:M0:4:ARG:NH2	2.29	0.47
36:1:1445:U:H5''	36:1:1446:A:OP2	2.13	0.47
36:1:1917:C:H2'	36:1:1918:C:H6	1.79	0.47
36:1:2421:U:H2'	36:1:2422:C:O4'	2.14	0.47
36:1:2727:A:H4'	36:1:2728:G:OP2	2.14	0.47
36:1:3030:G:C6	36:1:3031:G:C4	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3284:G:OP1	85:1:3688:OHX:N6	2.47	0.47
36:1:3376:A:O3'	85:1:3717:OHX:N2	2.47	0.47
36:1:647:A:H8	36:1:647:A:OP2	1.97	0.47
36:1:729:C:H2'	36:1:730:C:H6	1.79	0.47
1:2:1482:C:OP2	1:2:1521:G:N1	2.46	0.47
1:2:1542:G:H5''	21:C9:87:GLY:C	2.35	0.47
1:2:1597:A:OP2	31:D9:32:ARG:NH2	2.47	0.47
1:2:319:U:H1'	1:2:323:A:C4	2.49	0.47
37:3:104:A:H2'	37:3:105:C:O4'	2.14	0.47
36:5:1711:C:H2'	36:5:1712:G:O4'	2.13	0.47
36:5:3203:U:H2'	36:5:3204:C:C6	2.48	0.47
36:5:2278:C:OP1	85:5:3594:OHX:N6	2.47	0.47
85:5:3570:OHX:N5	85:5:3647:OHX:N6	2.62	0.47
36:5:747:A:H2'	36:5:748:U:O4'	2.15	0.47
36:5:916:G:H4'	36:5:917:A:O5'	2.13	0.47
36:5:93:C:OP2	36:5:2764:C:O2'	2.20	0.47
1:6:1660:A:H2'	1:6:1661:U:C6	2.49	0.47
26:D4:109:LYS:HE2	1:6:458:G:OP1	360.18	0.47
12:C0:10:LYS:NZ	12:C0:36:ASP:HB3	2.29	0.47
12:C0:55:VAL:HG23	12:C0:67:THR:O	2.23	0.47
21:C9:108:LEU:HA	21:C9:111:ILE:HG22	1.96	0.47
22:D0:51:VAL:HB	22:D0:52:LYS:H	3.90	0.47
36:1:2186:U:OP2	39:L2:200:ARG:NH2	2.47	0.47
36:1:3242:G:N7	40:L3:150:ARG:HD2	2.28	0.47
40:L3:92:TYR:CE1	40:L3:159:ARG:HD2	2.69	0.47
41:L4:34:ILE:HD12	41:L4:120:TYR:CE1	2.82	0.47
41:L4:84:ARG:O	41:L4:87:GLN:HB2	2.61	0.47
42:L5:236:LEU:HA	42:L5:239:ILE:HD12	1.95	0.47
44:L7:89:ILE:HD12	44:L7:214:TRP:CH2	2.49	0.47
44:L7:90:LYS:HD2	44:L7:220:PHE:CZ	2.49	0.47
44:L7:55:TYR:O	44:L7:58:ALA:N	2.47	0.47
44:L7:89:ILE:HD12	44:L7:214:TRP:CZ3	2.49	0.47
47:M0:71:CYS:SG	47:M0:155:ALA:HA	4.03	0.47
48:M1:145:LYS:HB2	48:M1:145:LYS:HE2	1.74	0.47
48:M1:74:PRO:O	48:M1:77:GLU:HG3	2.14	0.47
52:M6:73:PHE:HD1	52:M6:78:ARG:HD3	1.79	0.47
53:M7:62:ARG:O	85:M7:201:OHX:N1	2.47	0.47
55:M9:143:ILE:HG12	36:5:2093:A:H5''	249.81	0.47
56:N0:74:ASN:O	56:N0:129:ILE:HB	2.14	0.47
59:N3:13:ILE:HG12	59:N3:13:ILE:O	2.17	0.47
64:N8:2:PRO:CD	36:5:792:G:H5''	137.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:N9:21:ILE:HA	65:N9:21:ILE:HD12	3.15	0.47
39:L2:108:PRO:HG2	79:Q3:86:LEU:HD13	1.95	0.47
2:S0:107:PHE:HB3	2:S0:139:VAL:HG11	2.79	0.47
3:S1:205:PHE:CG	3:S1:206:PRO:HD2	2.60	0.47
4:S2:102:VAL:HG11	4:S2:129:ILE:HG12	1.96	0.47
5:S3:177:MET:HG3	5:S3:178:ARG:H	4.76	0.47
6:S4:184:THR:O	6:S4:189:LEU:HD13	4.06	0.47
6:S4:72:VAL:N	6:S4:75:LYS:O	2.46	0.47
8:S6:116:LYS:HD2	8:S6:125:THR:HG21	1.95	0.47
10:S8:87:ASN:ND2	10:S8:89:GLU:HB3	5.25	0.47
35:SM:23:LYS:HD2	35:SM:23:LYS:N	2.28	0.47
34:SR:164:ASP:OD2	34:SR:166:SER:HB3	2.13	0.47
34:SR:236:ALA:O	34:SR:238:ASP:N	3.31	0.47
34:SR:256:THR:N	34:SR:259:GLY:O	2.85	0.47
36:1:1033:U:H2'	36:1:1034:U:C6	2.48	0.47
36:1:1273:A:O2'	36:1:1274:A:OP1	2.29	0.47
36:1:1278:A:O2'	36:1:1279:C:H6	1.96	0.47
36:1:1488:G:H5''	36:1:1838:G:O6	2.15	0.47
36:1:1618:G:H2'	36:1:1619:A:O4'	2.14	0.47
36:1:2503:G:HO2'	36:1:2504:U:H5	1.60	0.47
36:1:3060:C:H2'	36:1:3061:G:C8	2.48	0.47
36:1:3110:C:H2'	36:1:3111:U:H6	1.79	0.47
36:1:536:U:OP1	56:N0:146:LYS:NZ	2.30	0.47
36:1:703:G:C6	36:1:704:U:C4	3.02	0.47
36:1:910:G:H2'	36:1:911:C:C6	2.49	0.47
1:2:1081:A:H5''	1:2:1082:C:OP1	2.14	0.47
1:2:1172:G:H2'	1:2:1173:C:C6	2.49	0.47
1:2:1699:G:H2'	1:2:1700:C:H5''	1.95	0.47
1:2:788:A:H3'	6:S4:108:ARG:NH2	2.29	0.47
1:2:7:G:H4'	1:2:573:C:H4'	1.95	0.47
1:2:818:C:N4	1:2:819:G:O6	2.42	0.47
36:5:1668:G:C6	36:5:1669:C:C4	3.02	0.47
36:5:2113:A:N7	36:5:2114:C:C4	2.83	0.47
36:5:2294:U:O2	36:5:2296:A:C8	2.66	0.47
36:5:2294:U:H2'	36:5:2296:A:OP2	2.14	0.47
36:5:740:G:H2'	36:5:741:U:H6	1.79	0.47
1:6:1172:G:H2'	1:6:1173:C:C6	2.48	0.47
1:6:1230:A:H8	1:6:1258:U:C4	2.32	0.47
1:6:1761:U:O4	85:6:2041:OHX:N2	2.47	0.47
1:6:502:U:H3'	1:6:503:G:H8	1.79	0.47
37:7:94:C:H2'	37:7:95:A:H8	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:407:A:C2	38:8:17:A:H1'	2.49	0.47
38:8:67:U:H2'	38:8:68:G:H8	1.78	0.47
15:C3:132:VAL:O	15:C3:134:VAL:HG12	2.39	0.47
15:C3:94:LYS:O	15:C3:97:SER:N	3.08	0.47
17:C5:56:PHE:CE1	17:C5:60:LEU:HD11	6.44	0.47
18:C6:123:ARG:HG3	18:C6:124:PRO:HD2	1.96	0.47
20:C8:109:LEU:O	20:C8:113:LEU:HG	2.57	0.47
40:L3:142:ALA:O	40:L3:145:GLU:HB2	2.13	0.47
41:L4:138:ARG:NH1	41:L4:138:ARG:O	2.46	0.47
42:L5:263:GLU:O	42:L5:266:ALA:HB3	2.14	0.47
42:L5:41:LYS:HD3	42:L5:41:LYS:HA	3.13	0.47
44:L7:165:ASP:H	44:L7:168:ILE:HD12	3.71	0.47
45:L8:156:ASP:O	45:L8:183:LYS:HE3	7.51	0.47
46:L9:105:GLU:OE2	46:L9:108:GLY:HA2	2.14	0.47
48:M1:23:VAL:C	48:M1:25:GLU:H	2.17	0.47
51:M5:150:TRP:O	51:M5:153:ASP:HB2	2.50	0.47
52:M6:94:ARG:HH11	52:M6:94:ARG:HG2	1.78	0.47
55:M9:15:VAL:HG11	55:M9:52:LYS:HB2	3.68	0.47
56:N0:12:ARG:HB3	56:N0:24:LEU:HD23	2.65	0.47
58:N2:22:PRO:HB3	58:N2:107:PHE:CD1	2.49	0.47
62:N6:102:SER:O	62:N6:103:LYS:HD3	2.69	0.47
65:N9:28:LYS:HD3	65:N9:29:TYR:N	2.29	0.47
67:O1:43:HIS:O	67:O1:44:MET:HE2	6.03	0.47
74:O8:33:LYS:HD3	74:O8:33:LYS:HA	1.60	0.47
79:Q3:28:LYS:O	79:Q3:32:GLN:HG3	5.52	0.47
2:S0:200:ASP:HA	2:S0:203:PHE:CE1	2.49	0.47
3:S1:49:ASN:O	3:S1:57:ALA:HB2	2.14	0.47
6:S4:127:LYS:HG3	6:S4:142:HIS:HA	2.55	0.47
8:S6:7:TYR:CE1	8:S6:125:THR:HA	3.57	0.47
8:S6:67:VAL:HG21	8:S6:99:GLY:HA2	2.32	0.47
11:S9:171:ARG:NH1	11:S9:174:ARG:HD3	4.22	0.47
17:C5:127:ARG:NH2	35:SM:66:ALA:HB2	3.53	0.47
34:SR:132:LYS:HA	34:SR:142:ALA:O	2.63	0.47
36:1:1069:C:H2'	36:1:1070:U:H6	1.79	0.47
36:1:1222:G:N2	36:1:1285:G:O2'	2.47	0.47
36:1:1353:U:O2'	43:L6:8:LYS:O	2.32	0.47
36:1:144:A:H2'	36:1:145:G:O4'	2.14	0.47
36:1:3354:U:OP1	36:1:3356:G:H5'	2.14	0.47
36:1:2669:G:N7	85:1:3607:OHX:N4	2.62	0.47
1:2:365:G:N7	85:2:1984:OHX:N5	2.61	0.47
1:2:702:G:HO2'	1:2:703:G:H8	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:142:C:H4'	51:M5:60:VAL:HG21	1.95	0.47
36:5:1565:G:N2	36:5:1566:A:H1'	2.30	0.47
57:N1:17:ARG:HG2	36:5:2700:G:H5''	265.95	0.47
36:5:3112:G:N7	85:5:3420:OHX:N6	2.61	0.47
36:5:965:A:C5	36:5:966:U:C5	3.02	0.47
1:6:1051:G:O2'	1:6:1052:U:OP1	2.29	0.47
7:S5:166:ARG:NH2	1:6:1163:A:O3'	347.23	0.47
1:6:1255:G:H4'	1:6:1256:A:OP1	2.14	0.47
1:6:1500:C:H2'	1:6:1501:C:H6	1.80	0.47
14:C2:139:HIS:ND1	14:C2:139:HIS:O	2.47	0.47
1:2:927:C:H1'	16:C4:125:SER:CB	2.43	0.47
16:C4:91:THR:O	16:C4:93:THR:N	2.47	0.47
24:D2:41:MET:HG2	24:D2:129:VAL:HG21	2.01	0.47
25:D3:44:GLY:H	25:D3:78:LYS:NZ	2.18	0.47
26:D4:56:SER:HB3	26:D4:74:LEU:HB2	2.46	0.47
16:C4:132:ARG:O	28:D6:28:LYS:HG2	3.51	0.47
40:L3:255:CYS:O	40:L3:258:ALA:HA	2.14	0.47
44:L7:55:TYR:HE2	44:L7:141:TYR:CE2	2.77	0.47
45:L8:46:LEU:HD13	61:N5:30:ALA:HB2	1.95	0.47
50:M4:58:ILE:HD11	50:M4:62:GLN:HG3	4.04	0.47
51:M5:193:ARG:O	51:M5:195:ASN:N	2.47	0.47
52:M6:183:ALA:O	52:M6:186:ALA:N	3.13	0.47
8:S6:156:PHE:CE2	60:N4:93:ARG:HD2	6.29	0.47
61:N5:38:LEU:O	61:N5:39:LYS:HB2	4.36	0.47
63:N7:115:LYS:NZ	63:N7:119:GLU:OE2	2.51	0.47
67:O1:77:ARG:HD2	67:O1:89:LEU:HD23	1.96	0.47
68:O2:121:ASN:OD1	68:O2:121:ASN:N	2.46	0.47
71:O5:101:THR:HG23	71:O5:104:GLN:H	2.68	0.47
78:Q2:2:VAL:HA	36:5:2655:U:OP2	240.13	0.47
79:Q3:37:TYR:HB2	79:Q3:47:VAL:HB	1.95	0.47
2:S0:180:GLU:OE2	2:S0:183:ARG:NE	3.33	0.47
4:S2:90:THR:HG22	4:S2:94:GLN:N	3.88	0.47
1:2:66:U:H5'	8:S6:173:PRO:HA	1.97	0.47
1:2:333:A:OP1	10:S8:31:ARG:NH2	2.46	0.47
34:SR:120:SER:HA	34:SR:136:ILE:HD13	1.96	0.47
34:SR:228:LYS:O	34:SR:229:LYS:NZ	2.46	0.47
36:1:2680:A:C2	48:M1:24:GLY:HA2	2.49	0.47
36:1:3351:U:O2'	36:1:3352:U:OP1	2.25	0.47
36:1:346:C:P	41:L4:52:VAL:HG22	2.54	0.47
36:1:533:A:O2'	36:1:535:G:OP2	2.32	0.47
36:1:637:C:H1'	36:1:638:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:621:A:N3	1:2:1107:G:H1'	2.30	0.47
1:2:1191:U:H4'	18:C6:143:ARG:HB3	1.96	0.47
1:2:1449:U:H2'	1:2:1450:U:C6	2.49	0.47
38:4:107:G:OP2	85:4:211:OHX:N2	2.47	0.47
56:N0:139:TYR:OH	36:5:1213:G:OP1	323.49	0.47
36:5:191:U:H2'	36:5:192:C:C6	2.49	0.47
36:5:2985:C:H2'	36:5:2986:U:C6	2.50	0.47
36:5:3251:U:H2'	36:5:3252:G:C8	2.50	0.47
36:5:2284:C:O2	85:5:3683:OHX:N1	2.48	0.47
36:5:1544:G:O6	85:5:3706:OHX:N5	2.47	0.47
36:5:381:U:H2'	36:5:382:U:C6	2.50	0.47
36:5:495:G:H2'	36:5:496:C:O4'	2.14	0.47
1:6:1354:G:H5'	1:6:1355:C:OP2	2.14	0.47
10:S8:178:ARG:NH1	1:6:207:U:O2	288.11	0.47
1:6:53:G:H2'	1:6:54:C:O4'	2.14	0.47
1:6:540:G:O2'	1:6:542:A:H5'	2.14	0.47
1:6:919:A:H2'	1:6:920:U:H6	1.80	0.47
14:C2:87:PRO:HA	14:C2:140:PHE:CE1	2.50	0.47
15:C3:26:PHE:CE2	15:C3:28:LEU:HB2	3.12	0.47
17:C5:60:LEU:HD23	17:C5:76:VAL:HG21	3.25	0.47
19:C7:53:TYR:CE2	19:C7:56:HIS:HD2	3.96	0.47
21:C9:28:LEU:HA	21:C9:111:ILE:HD11	3.87	0.47
25:D3:56:LYS:NZ	25:D3:97:ASP:H	2.12	0.47
33:E1:135:HIS:HB2	33:E1:138:ARG:HB2	1.95	0.47
42:L5:231:ILE:HG21	42:L5:239:ILE:HD11	1.96	0.47
42:L5:8:LYS:HD2	42:L5:8:LYS:N	2.29	0.47
44:L7:90:LYS:HB2	44:L7:220:PHE:HE1	2.69	0.47
44:L7:92:ILE:HD11	54:M8:4:ASP:H	1.79	0.47
48:M1:16:LYS:HG2	48:M1:130:VAL:HG13	2.21	0.47
48:M1:144:CYS:O	48:M1:146:GLY:N	2.80	0.47
48:M1:17:LEU:N	48:M1:71:VAL:O	2.40	0.47
49:M3:180:ARG:O	49:M3:184:GLU:HB2	3.11	0.47
50:M4:136:ALA:C	50:M4:138:ALA:H	3.24	0.47
50:M4:37:GLU:HG2	50:M4:38:ILE:H	1.79	0.47
50:M4:39:ILE:HB	50:M4:43:LYS:HB2	2.12	0.47
54:M8:33:TYR:HA	54:M8:36:LEU:HB2	1.97	0.47
55:M9:46:LYS:HZ1	36:5:1766:G:H8	99.69	0.47
62:N6:63:LYS:HE3	62:N6:97:ILE:HD13	1.96	0.47
63:N7:22:LYS:HG3	63:N7:49:TYR:OH	3.14	0.47
63:N7:4:PHE:HB2	63:N7:9:LYS:HE3	1.97	0.47
68:O2:21:HIS:CD2	68:O2:24:ARG:HD2	3.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1327:C:O2'	69:O3:76:GLY:HA2	2.15	0.47
75:O9:47:THR:HG22	75:O9:48:LYS:O	2.79	0.47
7:S5:42:LEU:HD11	7:S5:45:LYS:HD3	1.96	0.47
9:S7:100:PRO:HG2	9:S7:108:GLN:NE2	13.19	0.47
9:S7:86:GLN:HG2	9:S7:87:ASP:H	1.78	0.47
34:SR:64:HIS:CE1	34:SR:84:SER:HB3	2.71	0.47
34:SR:95:ALA:C	34:SR:97:GLY:H	3.70	0.47
36:1:3340:G:O6	36:1:3342:A:N6	2.47	0.47
36:1:3377:G:O6	85:1:3573:OHX:N2	2.48	0.47
36:1:435:C:H2'	36:1:436:A:C8	2.50	0.47
36:1:559:A:O3'	50:M4:84:LYS:NZ	2.40	0.47
36:1:681:U:H5'	36:1:682:U:OP2	2.15	0.47
1:2:1026:A:N3	1:2:1790:A:O2'	2.42	0.47
1:2:1282:U:OP1	85:2:1993:OHX:N5	2.48	0.47
1:2:21:U:H2'	1:2:22:A:C8	2.49	0.47
1:2:734:A:H4'	1:2:735:C:H5'	1.97	0.47
1:2:827:C:H2'	1:2:828:U:O4'	2.15	0.47
37:3:49:G:N7	42:L5:58:LYS:HG3	2.29	0.47
51:M5:4:TYR:OH	36:5:148:G:OP2	110.21	0.47
36:5:172:G:H2'	36:5:172:G:N3	2.29	0.47
36:5:3101:G:C2	36:5:3134:A:N3	2.83	0.47
36:5:3155:U:H3'	36:5:3156:U:H5''	1.96	0.47
36:5:950:G:N7	36:5:1367:G:C6	2.82	0.47
1:6:1107:G:H3'	1:6:1108:G:H21	1.79	0.47
1:6:1531:G:H2'	1:6:1532:U:C6	2.49	0.47
1:6:228:G:H1	1:6:236:A:N6	2.10	0.47
1:6:696:C:H4'	1:6:697:C:H6	1.78	0.47
85:8:203:OHX:N5	85:8:211:OHX:N1	2.62	0.47
85:8:203:OHX:N2	85:8:211:OHX:N4	2.63	0.47
12:C0:54:TYR:CD2	12:C0:72:GLY:HA2	3.82	0.47
19:C7:88:VAL:HG22	19:C7:95:ARG:NH1	7.25	0.47
28:D6:17:HIS:ND1	28:D6:18:VAL:O	2.47	0.47
29:D7:19:HIS:HB3	29:D7:22:LYS:HG3	2.57	0.47
39:L2:159:SER:O	39:L2:161:ASP:N	3.27	0.47
39:L2:61:VAL:HG21	39:L2:76:PHE:CD2	2.49	0.47
42:L5:52:VAL:HG21	42:L5:65:ILE:HD12	1.97	0.47
43:L6:75:PRO:HA	43:L6:138:GLN:HE22	2.71	0.47
43:L6:72:ASN:OD1	43:L6:74:VAL:HG23	3.28	0.47
45:L8:160:ILE:HG23	45:L8:164:VAL:CG1	4.48	0.47
45:L8:75:ILE:HG22	45:L8:76:ALA:H	1.80	0.47
37:3:64:A:H3'	47:M0:204:GLY:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:90:ARG:HB3	47:M0:90:ARG:HH11	1.79	0.47
49:M3:94:GLY:HA3	71:O5:116:TYR:OH	2.15	0.47
50:M4:17:VAL:HG11	50:M4:74:ARG:HA	2.28	0.47
36:1:2701:U:P	57:N1:22:HIS:HD1	2.37	0.47
66:O0:73:GLY:O	66:O0:76:GLU:HG2	2.15	0.47
75:O9:7:PHE:CE2	38:8:113:U:C4	98.68	0.47
76:Q0:83:LYS:O	76:Q0:87:SER:HB2	3.13	0.47
78:Q2:12:CYS:HG	78:Q2:74:CYS:CB	2.30	0.47
78:Q2:10:THR:HA	78:Q2:20:HIS:CD2	2.49	0.47
3:S1:70:LEU:HB2	3:S1:82:ARG:O	4.98	0.47
4:S2:141:ARG:H	4:S2:141:ARG:HG2	2.10	0.47
6:S4:103:TYR:O	6:S4:182:TYR:OH	2.30	0.47
7:S5:30:PRO:HB2	7:S5:33:VAL:CG2	2.44	0.47
9:S7:141:ARG:NH2	9:S7:143:LEU:HD21	2.68	0.47
36:1:1035:G:C6	36:1:1036:A:C6	3.02	0.47
36:1:1479:U:O4	36:1:1480:G:C2	2.68	0.47
36:1:2898:G:N7	76:Q0:125:LYS:HE2	2.30	0.47
85:1:3569:OHX:N2	85:1:3582:OHX:N5	2.62	0.47
36:1:1409:G:O6	85:1:3603:OHX:N3	2.48	0.47
36:1:385:A:C6	36:1:386:A:C6	3.02	0.47
36:1:435:C:O2'	36:1:436:A:O4'	2.26	0.47
36:1:685:G:P	49:M3:35:ARG:NH1	2.87	0.47
1:2:1198:G:C6	1:2:1200:G:C2	3.02	0.47
1:2:312:A:C2	1:2:314:C:H2'	2.49	0.47
1:2:542:A:O2'	1:2:543:C:P	2.72	0.47
1:2:553:G:N2	1:2:571:G:O6	2.47	0.47
1:2:705:U:H2'	1:2:706:A:C8	2.50	0.47
36:5:1581:C:OP2	36:5:1581:C:H4'	2.12	0.47
36:5:1851:G:H8	36:5:1851:G:O5'	1.96	0.47
36:5:1899:G:N7	85:5:3447:OHX:N6	2.62	0.47
36:5:199:A:C4	36:5:201:A:C8	3.03	0.47
36:5:1017:C:H42	36:5:2671:A:P	2.37	0.47
36:5:277:G:H2'	36:5:278:U:H6	1.79	0.47
36:5:2812:C:H2'	36:5:2813:A:C8	2.49	0.47
36:5:3107:U:H2'	36:5:3108:G:C8	2.50	0.47
54:M8:107:THR:HG21	36:5:676:G:H3'	135.94	0.47
1:6:1267:G:H2'	1:6:1268:G:C8	2.49	0.47
1:6:1285:U:O2'	1:6:1286:U:OP1	2.31	0.47
1:6:1520:U:H6	1:6:1520:U:OP1	1.98	0.47
1:6:826:U:H2'	1:6:827:C:C6	2.50	0.47
38:8:139:U:H2'	38:8:140:G:C8	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:8:203:OHX:N6	85:8:211:OHX:N4	2.63	0.47
38:8:65:A:H2'	38:8:66:A:O4'	2.14	0.47
18:C6:30:LYS:HZ3	1:6:1366:U:P	427.76	0.47
18:C6:31:VAL:HG13	18:C6:67:VAL:HB	2.00	0.47
28:D6:44:ILE:HG22	28:D6:45:VAL:HG13	5.61	0.47
29:D7:75:GLU:HB3	29:D7:76:GLY:H	1.60	0.47
33:E1:88:PRO:HA	33:E1:89:LYS:HA	4.36	0.47
41:L4:349:THR:HG21	44:L7:64:GLN:HE22	1.80	0.47
43:L6:64:LEU:HD11	43:L6:76:LEU:HD23	2.65	0.47
46:L9:166:ARG:HH21	46:L9:166:ARG:HB2	5.59	0.47
46:L9:70:THR:HB	36:5:3112:G:O2'	329.30	0.47
49:M3:17:HIS:O	49:M3:20:GLU:HB2	2.86	0.47
49:M3:35:ARG:NH1	36:5:685:G:OP2	83.66	0.47
50:M4:77:ARG:O	50:M4:81:VAL:HG23	2.14	0.47
50:M4:86:ALA:O	50:M4:88:ALA:N	3.45	0.47
51:M5:16:SER:HB2	72:O6:48:ALA:HB1	1.95	0.47
55:M9:38:ARG:O	55:M9:42:ARG:HG3	4.18	0.47
55:M9:44:LEU:HA	55:M9:47:ASN:HB3	5.18	0.47
56:N0:71:LYS:O	56:N0:73:LYS:HG3	2.14	0.47
60:N4:71:ARG:O	60:N4:72:SER:OG	4.15	0.47
61:N5:105:VAL:HG13	61:N5:130:TYR:CG	2.75	0.47
64:N8:74:ASN:CB	64:N8:115:LYS:H	2.22	0.47
65:N9:23:LYS:HE3	65:N9:24:PRO:HD3	1.97	0.47
66:O0:42:ILE:HD11	66:O0:67:VAL:HG22	1.96	0.47
67:O1:80:ASN:HA	67:O1:90:PHE:CE2	5.27	0.47
68:O2:21:HIS:CE1	68:O2:24:ARG:HD2	2.49	0.47
2:S0:179:ARG:HD3	2:S0:183:ARG:HH11	1.80	0.47
3:S1:39:GLU:O	3:S1:41:ARG:HG3	3.67	0.47
1:2:1331:A:H61	5:S3:160:SER:C	2.16	0.47
5:S3:48:VAL:HG23	5:S3:84:ILE:HD11	1.97	0.47
8:S6:25:ARG:HG2	8:S6:28:PHE:CE2	6.59	0.47
9:S7:182:VAL:HG12	9:S7:183:PHE:H	1.79	0.47
10:S8:152:ILE:H	10:S8:152:ILE:HD13	4.73	0.47
10:S8:83:TYR:HB3	10:S8:101:ILE:HG21	2.99	0.47
11:S9:54:ARG:HA	11:S9:57:ARG:HE	2.55	0.47
36:1:1400:G:N3	36:1:1401:A:C8	2.83	0.47
36:1:2359:C:H2'	36:1:2360:C:C6	2.49	0.47
85:1:3540:OHX:N3	85:1:3711:OHX:N1	2.62	0.47
1:2:1450:U:H2'	1:2:1451:C:C6	2.50	0.47
1:2:86:A:O2'	1:2:147:A:N3	2.38	0.47
1:2:432:G:C6	1:2:433:C:C4	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:484:C:N4	1:2:503:G:H22	2.11	0.47
1:2:81:G:C6	1:2:82:U:N3	2.82	0.47
36:5:1595:U:C2	36:5:1596:C:C4	3.03	0.47
36:5:1719:G:H4'	36:5:1732:U:H4'	1.96	0.47
36:5:1772:U:H5''	36:5:1773:C:H5'	1.97	0.47
36:5:293:C:H2'	36:5:294:U:O4'	2.15	0.47
85:5:3539:OHX:N3	85:5:3742:OHX:N5	2.62	0.47
36:5:637:C:HO2'	36:5:638:C:H6	1.61	0.47
36:5:945:C:H2'	36:5:946:U:H6	1.79	0.47
1:6:1235:C:H2'	1:6:1236:A:C8	2.49	0.47
1:6:1279:C:H2'	1:6:1280:C:O4'	2.14	0.47
21:C9:64:HIS:NE2	1:6:1523:G:N7	409.87	0.47
1:6:230:C:N4	1:6:235:G:H1	2.12	0.47
10:S8:31:ARG:O	1:6:331:A:H4'	282.22	0.47
1:6:386:G:H2'	1:6:387:A:C8	2.49	0.47
38:8:56:G:H2'	38:8:57:C:C6	2.50	0.47
13:C1:29:LYS:O	13:C1:31:THR:N	2.48	0.47
14:C2:35:ALA:HA	14:C2:126:TRP:HA	2.50	0.47
17:C5:16:SER:HA	17:C5:20:VAL:O	2.14	0.47
19:C7:81:LYS:HB2	19:C7:81:LYS:HE3	1.78	0.47
23:D1:60:ARG:HA	23:D1:65:SER:HB2	1.95	0.47
26:D4:20:ARG:HB3	26:D4:76:TYR:CD2	2.89	0.47
28:D6:41:ILE:HD13	28:D6:41:ILE:H	1.79	0.47
30:D8:40:ILE:HG23	30:D8:62:GLU:HG3	4.59	0.47
39:L2:48:ILE:HD11	79:Q3:63:THR:HG22	1.96	0.47
41:L4:191:LYS:HG3	41:L4:194:TYR:CZ	4.53	0.47
41:L4:89:ALA:C	41:L4:91:GLY:H	2.15	0.47
42:L5:144:VAL:O	42:L5:173:VAL:HG13	2.14	0.47
42:L5:40:HIS:CE1	42:L5:42:ALA:HB3	2.59	0.47
45:L8:176:PRO:HB3	45:L8:219:ASP:OD2	2.67	0.47
46:L9:30:PRO:HG2	46:L9:83:THR:HA	3.14	0.47
47:M0:100:ASN:ND2	47:M0:118:ALA:O	2.47	0.47
49:M3:19:GLN:HE22	36:5:801:A:H61	130.93	0.47
52:M6:120:VAL:O	52:M6:122:GLN:N	2.47	0.47
53:M7:3:ARG:NH2	36:5:398:A:C8	127.34	0.47
54:M8:12:ARG:H	54:M8:12:ARG:HG2	3.92	0.47
54:M8:56:LYS:HA	54:M8:59:ARG:NH1	3.37	0.47
55:M9:117:LYS:HE3	55:M9:118:HIS:NE2	2.29	0.47
55:M9:127:SER:C	55:M9:129:GLY:H	2.17	0.47
55:M9:94:VAL:O	55:M9:97:ARG:HB2	2.74	0.47
42:L5:69:ILE:HG22	57:N1:31:LEU:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:82:ALA:N	59:N3:98:ASN:OD1	5.27	0.47
62:N6:27:ARG:HA	62:N6:30:LEU:HD12	1.97	0.47
64:N8:73:LEU:O	64:N8:112:ILE:HA	2.43	0.47
68:O2:19:ARG:NH1	68:O2:28:VAL:HG13	2.79	0.47
2:S0:167:LYS:HB3	2:S0:168:HIS:CD2	2.67	0.47
2:S0:184:LEU:O	2:S0:186:GLY:N	2.47	0.47
3:S1:148:ASN:OD1	1:6:1066:C:O2'	349.23	0.47
9:S7:160:GLN:HA	9:S7:163:ASP:OD2	2.46	0.47
35:SM:43:ASP:OD1	35:SM:45:SER:N	4.54	0.47
34:SR:256:THR:OG1	34:SR:257:ALA:N	3.48	0.47
36:1:1083:G:C6	36:1:1084:A:C6	3.02	0.47
36:1:1414:G:N7	85:1:3660:OHX:N2	2.62	0.47
36:1:150:A:OP1	51:M5:56:LYS:NZ	2.34	0.47
36:1:1665:C:H6	36:1:1665:C:O5'	1.98	0.47
36:1:2206:G:H8	36:1:2206:G:OP2	1.97	0.47
36:1:2507:C:H2'	36:1:2508:U:C6	2.49	0.47
36:1:2876:C:H2'	36:1:2877:G:O4'	2.14	0.47
36:1:3123:A:C5	36:1:3124:G:C8	3.02	0.47
36:1:401:U:H4'	36:1:403:C:C2	2.50	0.47
36:1:591:G:H22	43:L6:21:THR:HG22	1.80	0.47
1:2:1267:G:H21	1:2:1448:G:H5'	1.80	0.47
1:2:1629:G:H2'	1:2:1630:U:C6	2.50	0.47
1:2:1773:C:OP1	77:Q1:3:ALA:HB3	2.14	0.47
36:5:1496:C:P	36:5:1514:G:H5''	2.55	0.47
36:5:1597:C:H2'	36:5:1598:G:H8	1.80	0.47
41:L4:73:ARG:NH2	36:5:2814:G:OP1	172.18	0.47
36:5:2861:U:H2'	36:5:2862:U:C6	2.49	0.47
36:5:3136:G:C6	36:5:3137:C:C4	3.02	0.47
36:5:313:A:C6	36:5:314:U:C4	3.02	0.47
36:5:3165:A:H61	36:5:3285:C:N4	2.13	0.47
36:5:3264:G:N2	36:5:3265:C:H1'	2.29	0.47
1:6:1776:A:H2'	1:6:1777:G:C8	2.50	0.47
13:C1:105:LYS:HE2	1:6:306:U:H5''	324.69	0.47
1:6:539:G:H8	1:6:539:G:H5''	1.79	0.47
1:6:827:C:O2'	1:6:828:U:H5'	2.15	0.47
1:6:831:U:O2'	1:6:832:U:H5'	2.14	0.47
37:7:30:G:C5	37:7:31:U:C5	3.02	0.47
14:C2:56:GLU:HB3	14:C2:124:LYS:HE3	1.97	0.47
15:C3:129:TYR:O	15:C3:134:VAL:HG13	2.31	0.47
17:C5:123:TYR:OH	20:C8:126:ARG:NH1	2.46	0.47
21:C9:40:SER:O	21:C9:43:ASN:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:58:LEU:HA	23:D1:12:TYR:HE1	1.80	0.47
27:D5:39:ALA:O	27:D5:72:GLY:N	2.43	0.47
27:D5:40:VAL:HA	27:D5:75:LEU:HD11	1.96	0.47
28:D6:87:ARG:HD2	1:6:1797:A:N1	346.42	0.47
41:L4:262:TRP:CZ3	41:L4:271:LYS:HE3	3.36	0.47
42:L5:20:PHE:HD1	42:L5:30:TYR:CE1	2.33	0.47
43:L6:60:ASP:C	43:L6:62:THR:H	2.75	0.47
46:L9:109:ALA:HB1	46:L9:111:PHE:CE2	2.49	0.47
47:M0:85:PHE:HA	47:M0:140:THR:HG22	1.99	0.47
50:M4:15:VAL:HG13	56:N0:150:PHE:O	2.15	0.47
52:M6:65:ASN:O	52:M6:67:THR:N	2.48	0.47
53:M7:19:GLY:HA3	53:M7:22:LEU:HD11	1.97	0.47
54:M8:49:LEU:O	54:M8:52:LEU:HB2	2.15	0.47
56:N0:24:LEU:HD13	57:N1:148:PRO:HG3	2.96	0.47
63:N7:54:THR:O	63:N7:57:HIS:HB2	2.15	0.47
66:O0:40:LYS:HB3	66:O0:101:LEU:HD11	2.27	0.47
68:O2:101:SER:HA	68:O2:125:ARG:HH21	1.79	0.47
71:O5:83:LYS:HA	38:8:38:U:C5	66.40	0.47
49:M3:106:GLN:HB2	72:O6:20:MET:HG3	1.97	0.47
78:Q2:58:PHE:HD1	78:Q2:59:HIS:N	2.12	0.47
7:S5:77:TYR:HB3	7:S5:84:LYS:HA	1.96	0.47
7:S5:91:GLU:OE2	7:S5:107:LYS:NZ	3.35	0.47
8:S6:136:LYS:O	8:S6:175:ILE:HA	2.19	0.47
8:S6:14:LYS:HD3	8:S6:16:PHE:CZ	2.50	0.47
9:S7:152:VAL:O	9:S7:153:LEU:HD23	2.40	0.47
10:S8:102:VAL:HG11	10:S8:169:ILE:HD11	1.96	0.47
11:S9:163:PRO:HG3	11:S9:170:GLY:H	6.06	0.47
1:2:1274:C:C4	35:SM:96:ARG:HG3	2.50	0.47
36:1:1357:G:C2	36:1:1358:C:C2	3.02	0.47
36:1:915:A:H8	36:1:2136:C:O2'	1.98	0.47
36:1:2881:C:H2'	36:1:2882:U:H6	1.79	0.47
36:1:3106:A:H2'	36:1:3107:U:O4'	2.13	0.47
36:1:3119:U:OP2	85:1:3427:OHX:N4	2.46	0.47
85:1:3485:OHX:N2	52:M6:67:THR:HG21	2.30	0.47
36:1:677:A:C8	36:1:786:A:C6	3.03	0.47
1:2:1271:G:C6	1:2:1272:U:C4	3.02	0.47
1:2:31:C:OP1	25:D3:140:LYS:NZ	2.48	0.47
1:2:543:C:H5'	1:2:543:C:O2	2.15	0.47
1:2:968:U:OP1	1:2:1033:C:O2'	2.31	0.47
38:4:124:G:H1	38:4:129:C:N4	2.08	0.47
56:N0:158:LYS:HE3	36:5:1182:A:OP2	284.85	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1706:C:H2'	36:5:1707:A:O4'	2.15	0.47
36:5:2573:G:H5'	36:5:2574:G:OP2	2.14	0.47
36:5:3046:A:H2'	36:5:3047:U:O4'	2.15	0.47
36:5:1192:C:C5	85:5:3595:OHX:N6	2.82	0.47
36:5:563:U:H2'	36:5:564:G:H8	1.80	0.47
36:5:595:G:H1	36:5:609:G:H5''	1.80	0.47
1:6:1315:U:OP1	1:6:1328:G:N2	2.36	0.47
1:6:1525:A:H2'	1:6:1526:A:O4'	2.15	0.47
1:6:1584:G:O2'	1:6:1610:G:O6	2.25	0.47
1:6:745:U:C2	1:6:807:A:C2	3.02	0.47
1:6:219:A:N6	1:6:843:U:C2	2.83	0.47
13:C1:39:GLY:O	13:C1:41:GLY:N	2.63	0.47
1:2:1769:U:H4'	16:C4:137:LEU:HA	1.97	0.47
17:C5:108:ARG:HG3	17:C5:108:ARG:HH11	1.84	0.47
17:C5:94:VAL:HG12	17:C5:96:ILE:HG12	3.52	0.47
1:2:1095:U:O3'	24:D2:19:LYS:NZ	2.48	0.47
28:D6:88:SER:OG	28:D6:91:ASP:OD2	4.74	0.47
39:L2:111:THR:HB	39:L2:136:ILE:HD13	1.97	0.47
39:L2:3:ARG:HG2	39:L2:4:VAL:N	2.30	0.47
40:L3:311:PHE:HB3	40:L3:314:TYR:HB3	2.39	0.47
42:L5:53:VAL:O	42:L5:54:ARG:HD3	2.15	0.47
43:L6:170:LYS:H	43:L6:174:LEU:HD21	1.80	0.47
43:L6:18:LEU:N	43:L6:18:LEU:HD22	2.29	0.47
43:L6:52:VAL:HG13	43:L6:65:ILE:HG23	4.91	0.47
44:L7:154:GLY:N	44:L7:161:VAL:O	2.71	0.47
46:L9:92:TYR:N	46:L9:92:TYR:CD2	4.18	0.47
47:M0:210:ILE:HD13	47:M0:217:PHE:CD2	4.28	0.47
50:M4:99:TRP:CD1	50:M4:103:ILE:HD11	2.50	0.47
53:M7:88:VAL:O	53:M7:92:GLN:HG3	3.42	0.47
54:M8:104:LEU:HB2	54:M8:105:ARG:HG3	4.05	0.47
36:1:1723:A:P	55:M9:103:ARG:HH22	2.37	0.47
41:L4:359:LEU:HD23	56:N0:8:GLN:NE2	4.33	0.47
36:1:991:G:N2	57:N1:59:GLY:O	2.38	0.47
58:N2:22:PRO:HG2	58:N2:28:PHE:HD2	2.39	0.47
58:N2:36:TYR:CD2	58:N2:83:TYR:HB2	3.51	0.47
61:N5:49:LYS:O	61:N5:51:VAL:N	2.39	0.47
64:N8:105:LEU:HD21	64:N8:128:ARG:HH21	1.79	0.47
67:O1:71:LEU:HA	67:O1:71:LEU:HD23	1.73	0.47
67:O1:84:ASP:N	67:O1:84:ASP:OD1	2.56	0.47
68:O2:32:TRP:HB3	36:5:1407:A:H5'	170.71	0.47
70:O4:57:LEU:O	70:O4:62:TYR:HE2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:O6:81:THR:OG1	72:O6:82:ARG:N	2.46	0.47
3:S1:168:ILE:O	3:S1:172:LEU:HG	2.88	0.47
3:S1:131:ASP:HB3	3:S1:180:THR:OG1	2.15	0.47
3:S1:62:LYS:C	3:S1:64:ARG:H	2.13	0.47
5:S3:167:PHE:CE1	5:S3:192:PRO:HB3	2.70	0.47
7:S5:27:THR:HA	7:S5:28:PRO:HD2	2.35	0.47
7:S5:34:GLN:O	7:S5:38:THR:OG1	2.32	0.47
9:S7:29:ASN:O	9:S7:30:SER:OG	2.29	0.47
11:S9:105:LEU:HA	11:S9:105:LEU:HD12	2.25	0.47
36:1:2168:A:C6	36:1:2170:U:H1'	2.50	0.47
36:1:2503:G:H1'	36:1:2504:U:C5	2.50	0.47
36:1:2511:A:H2'	36:1:2512:C:H6	1.80	0.47
85:1:3592:OHX:N6	85:1:3702:OHX:N3	2.63	0.47
36:1:698:U:H2'	36:1:699:A:O4'	2.15	0.47
36:1:789:A:H1'	41:L4:114:ASN:HD21	1.79	0.47
1:2:1504:G:H2'	1:2:1505:A:C8	2.50	0.47
1:2:323:A:OP2	10:S8:10:LYS:HG3	2.15	0.47
1:2:526:A:H2'	1:2:527:A:O4'	2.15	0.47
1:2:930:A:OP1	28:D6:32:LYS:NZ	2.33	0.47
36:5:1299:U:H2'	36:5:1300:G:C8	2.50	0.47
36:5:2168:A:C6	36:5:2170:U:H1'	2.49	0.47
36:5:2527:G:C2	36:5:2584:G:C2	3.03	0.47
56:N0:170:THR:OG1	36:5:3185:U:O2'	304.33	0.47
36:5:377:A:O2'	36:5:391:A:N1	2.44	0.47
36:5:873:C:H5''	36:5:874:U:H4'	1.97	0.47
1:6:11:A:N1	1:6:1143:A:H2	2.13	0.47
1:6:1311:U:O4	85:6:2038:OHX:N6	2.47	0.47
1:6:1586:A:H2'	1:6:1587:A:O4'	2.14	0.47
1:6:489:C:O2'	1:6:490:C:O5'	2.31	0.47
1:6:999:U:H2'	1:6:1000:C:O4'	2.15	0.47
38:8:145:U:H2'	38:8:146:U:O4'	2.15	0.47
15:C3:138:ASN:O	15:C3:140:LYS:N	3.41	0.47
18:C6:25:GLY:H	18:C6:63:ILE:HA	1.80	0.47
18:C6:16:ALA:HB2	18:C6:72:GLY:HA3	1.97	0.47
21:C9:73:VAL:HG23	1:6:1499:G:P	418.50	0.47
25:D3:73:ARG:HH21	25:D3:84:THR:HG22	2.81	0.47
28:D6:44:ILE:HG12	28:D6:65:PRO:HG2	3.79	0.47
28:D6:84:VAL:O	28:D6:86:VAL:N	2.37	0.47
30:D8:44:VAL:HG11	30:D8:48:VAL:HG21	2.29	0.47
39:L2:245:LEU:HD12	39:L2:246:LEU:N	2.30	0.47
40:L3:211:GLN:HA	40:L3:282:ILE:CG2	4.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:129:THR:HG22	41:L4:246:ARG:H	1.80	0.47
43:L6:29:LYS:O	85:5:3405:OHX:N6	265.85	0.47
44:L7:94:LYS:O	44:L7:95:ILE:HD13	2.74	0.47
46:L9:139:ASN:N	46:L9:139:ASN:OD1	4.35	0.47
46:L9:34:LEU:HD21	46:L9:149:ASN:HB2	1.97	0.47
47:M0:89:VAL:HG22	47:M0:136:PHE:HE1	2.35	0.47
50:M4:121:MET:HE1	36:5:3215:A:H5'	274.90	0.47
45:L8:72:PRO:HG3	51:M5:18:VAL:HA	1.96	0.47
57:N1:80:VAL:HG23	57:N1:81:GLY:N	2.30	0.47
62:N6:57:LEU:HD23	62:N6:67:GLU:HB3	1.97	0.47
63:N7:101:PHE:HD2	63:N7:107:ARG:NE	2.13	0.47
68:O2:9:ILE:HG12	68:O2:63:THR:HB	1.97	0.47
3:S1:134:VAL:O	3:S1:218:LEU:HD22	2.15	0.47
6:S4:6:LYS:HB3	6:S4:6:LYS:HE2	4.53	0.47
8:S6:169:TYR:OH	1:6:71:A:N6	366.81	0.47
8:S6:67:VAL:O	8:S6:68:LEU:HB2	2.49	0.47
34:SR:101:GLN:HG2	34:SR:138:GLY:HA3	2.28	0.47
36:1:128:G:H2'	36:1:129:U:O4'	2.15	0.47
36:1:1306:G:O6	36:1:2366:C:O2'	2.30	0.47
36:1:1334:U:H1'	44:L7:208:SER:HB2	1.96	0.47
36:1:2316:G:C6	36:1:2317:A:C5	3.03	0.47
36:1:2728:G:H5''	57:N1:83:ARG:HH22	1.80	0.47
36:1:2970:C:H4'	36:1:2971:A:N1	2.30	0.47
36:1:299:G:N7	85:1:3616:OHX:N2	2.63	0.47
36:1:412:G:C6	36:1:413:U:C4	3.03	0.47
36:1:729:C:H2'	36:1:730:C:C6	2.50	0.47
1:2:706:A:N1	1:2:734:A:N6	2.63	0.47
36:5:1157:G:H2'	36:5:1158:A:O4'	2.14	0.47
36:5:1235:U:C4'	36:5:1236:G:H5'	2.45	0.47
36:5:3269:U:H4'	36:5:3270:U:O5'	2.14	0.47
85:5:3559:OHX:N5	85:5:3704:OHX:N2	2.63	0.47
1:6:1466:G:H2'	1:6:1467:C:H6	1.80	0.47
28:D6:7:SER:HB3	1:6:1796:C:H6	341.03	0.47
1:6:680:U:C2	1:6:682:C:N4	2.82	0.47
1:6:853:G:H2'	1:6:854:U:C6	2.49	0.47
75:O9:15:LYS:HD3	38:8:46:G:OP2	90.76	0.47
13:C1:55:ASP:C	13:C1:57:LYS:H	2.18	0.47
18:C6:52:LEU:HA	18:C6:60:PHE:HE1	2.51	0.47
18:C6:52:LEU:HB2	18:C6:53:LEU:HD23	2.21	0.47
21:C9:49:ASP:CB	21:C9:53:TRP:HB3	2.45	0.47
22:D0:61:LYS:HB3	22:D0:61:LYS:HE2	1.64	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:132:LEU:HD23	25:D3:132:LEU:HA	3.45	0.47
25:D3:52:ILE:HD12	25:D3:75:GLN:HG2	6.28	0.47
33:E1:133:ALA:O	33:E1:139:LEU:HA	2.16	0.47
39:L2:147:ARG:NH2	39:L2:155:LYS:HE3	2.30	0.47
36:1:822:G:H4'	39:L2:194:ASN:HB2	1.97	0.47
40:L3:211:GLN:HA	40:L3:282:ILE:HG22	3.77	0.47
42:L5:126:GLU:HA	42:L5:196:ARG:HD2	1.97	0.47
42:L5:50:ARG:HB3	42:L5:147:ASP:HB2	1.97	0.47
44:L7:233:GLU:OE2	56:N0:35:VAL:HG22	2.15	0.47
45:L8:140:VAL:O	45:L8:144:GLU:HG3	2.15	0.47
45:L8:89:GLU:HA	45:L8:92:LYS:HB2	1.97	0.47
46:L9:171:ASP:OD1	46:L9:173:ARG:HB2	2.38	0.47
46:L9:48:VAL:HG23	46:L9:52:LEU:O	6.05	0.47
50:M4:46:ILE:HD13	50:M4:58:ILE:HG21	2.40	0.47
55:M9:109:TYR:HB3	55:M9:115:ILE:HB	1.97	0.47
55:M9:89:LEU:HD12	55:M9:90:PRO:HD2	3.37	0.47
56:N0:26:ARG:HB3	57:N1:150:THR:HA	2.93	0.47
56:N0:73:LYS:HB2	56:N0:75:PHE:CE2	2.86	0.47
40:L3:358:TRP:CZ3	60:N4:15:PRO:HD2	2.50	0.47
62:N6:50:ILE:HD13	62:N6:51:ARG:H	1.79	0.47
63:N7:25:ILE:CG2	63:N7:41:ALA:HB1	3.18	0.47
36:1:1728:G:C5	66:O0:85:PHE:CZ	3.03	0.47
73:O7:52:LYS:HA	73:O7:55:ARG:HD2	2.79	0.47
79:Q3:29:LEU:HA	79:Q3:32:GLN:HB3	1.97	0.47
3:S1:27:LYS:HD2	3:S1:47:LEU:HD22	4.12	0.47
5:S3:90:ARG:HH21	5:S3:91:VAL:HG12	7.59	0.47
6:S4:131:LEU:HD11	6:S4:135:GLY:HA2	2.18	0.47
7:S5:30:PRO:O	7:S5:33:VAL:HB	2.15	0.47
11:S9:112:GLN:HG3	11:S9:148:VAL:HB	1.97	0.47
11:S9:176:ASN:HA	11:S9:179:ARG:HG2	4.91	0.47
34:SR:136:ILE:H	34:SR:136:ILE:HG12	1.36	0.47
34:SR:180:ALA:HB3	34:SR:190:ALA:HB3	1.97	0.47
34:SR:158:PRO:O	34:SR:208:GLY:HA3	2.54	0.47
36:1:2337:C:H2'	36:1:2338:C:C6	2.49	0.46
36:1:2727:A:C2	64:N8:43:ILE:HG23	2.50	0.46
36:1:2373:A:N7	36:1:2867:C:H1'	2.30	0.46
85:1:3483:OHX:N3	85:1:3656:OHX:N6	2.64	0.46
36:1:660:A:H5''	41:L4:100:PHE:CD1	2.50	0.46
1:2:1512:G:H2'	1:2:1513:G:O4'	2.15	0.46
1:2:1541:G:C5	1:2:1542:G:C6	3.03	0.46
1:2:553:G:C6	1:2:554:C:N3	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:15:G:C6	38:4:16:G:N1	2.83	0.46
36:5:128:G:H2'	36:5:129:U:O4'	2.15	0.46
36:5:1313:G:O6	85:5:3667:OHX:N6	2.48	0.46
36:5:2396:G:H5''	36:5:2397:A:O5'	2.15	0.46
85:5:3514:OHX:N3	85:5:3705:OHX:N5	2.62	0.46
43:L6:23:LYS:HE3	36:5:503:C:O2	239.65	0.46
36:5:508:U:O4	85:5:3721:OHX:N1	2.47	0.46
1:6:1344:A:O2'	1:6:1345:A:OP1	2.30	0.46
12:C0:54:TYR:CE2	12:C0:75:TYR:HB2	3.62	0.46
14:C2:40:GLY:O	14:C2:124:LYS:HD3	4.43	0.46
15:C3:65:VAL:HG23	15:C3:66:ILE:HG23	5.68	0.46
21:C9:70:GLN:NE2	21:C9:119:LYS:HD2	3.29	0.46
25:D3:23:ARG:O	25:D3:26:GLU:HB2	2.40	0.46
1:2:1797:A:N7	28:D6:87:ARG:NH1	2.63	0.46
30:D8:64:ARG:NH2	30:D8:65:ARG:HE	6.90	0.46
33:E1:86:THR:O	33:E1:87:THR:OG1	2.58	0.46
44:L7:239:LEU:HD22	44:L7:243:MET:SD	2.55	0.46
44:L7:26:VAL:C	44:L7:28:ALA:H	3.12	0.46
46:L9:188:THR:O	46:L9:189:GLU:HB2	4.57	0.46
48:M1:92:ARG:HH22	48:M1:94:ARG:NH1	4.72	0.46
51:M5:150:TRP:CG	51:M5:151:ILE:N	2.83	0.46
54:M8:83:VAL:HG12	54:M8:85:GLY:H	1.80	0.46
62:N6:56:VAL:HG11	62:N6:104:LEU:HD13	2.42	0.46
68:O2:15:LYS:HE3	68:O2:15:LYS:HB3	4.53	0.46
2:S0:184:LEU:C	2:S0:186:GLY:H	2.19	0.46
2:S0:205:ARG:C	2:S0:207:PRO:HA	5.23	0.46
4:S2:218:ILE:HG13	4:S2:218:ILE:H	1.75	0.46
5:S3:212:LYS:HB2	5:S3:212:LYS:HE2	1.67	0.46
5:S3:222:VAL:C	5:S3:223:LYS:HD2	3.15	0.46
7:S5:114:ILE:O	7:S5:117:THR:N	3.05	0.46
7:S5:70:VAL:HG21	18:C6:43:ILE:O	2.15	0.46
9:S7:132:PRO:O	9:S7:133:THR:OG1	4.88	0.46
34:SR:169:ILE:HG12	34:SR:183:LEU:HD21	2.95	0.46
36:1:1356:U:H6	36:1:1356:U:H3'	1.79	0.46
36:1:3364:C:H2'	36:1:3365:U:C6	2.50	0.46
85:1:3565:OHX:N2	85:1:3685:OHX:N1	2.64	0.46
36:1:656:A:H2'	36:1:657:A:H8	1.80	0.46
36:1:736:A:H2'	36:1:737:G:O4'	2.16	0.46
1:2:10:G:H2'	1:2:11:A:C8	2.50	0.46
1:2:1196:A:H4'	1:2:1197:C:C5'	2.45	0.46
1:2:1479:A:H2'	1:2:1480:G:H8	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:14:C:H2'	1:2:15:U:H6	1.80	0.46
1:2:1688:U:H3	1:2:1713:G:H22	1.63	0.46
36:5:2111:G:H4'	36:5:2112:U:OP2	2.16	0.46
36:5:2186:U:O2'	36:5:2313:A:N3	2.36	0.46
36:5:158:G:N2	36:5:264:G:H1'	2.30	0.46
36:5:3121:U:H1'	36:5:3122:A:H5''	1.97	0.46
36:5:3375:A:C4	36:5:3376:A:N7	2.84	0.46
36:5:2573:G:N7	85:5:3698:OHX:N6	2.64	0.46
36:5:547:G:H2'	36:5:548:G:O4'	2.16	0.46
36:5:920:A:OP1	36:5:922:U:C5	2.69	0.46
36:5:94:G:H2'	36:5:95:A:C8	2.50	0.46
36:5:997:A:H2'	36:5:998:A:O4'	2.15	0.46
1:6:542:A:OP1	1:6:544:A:C5	2.68	0.46
14:C2:29:LYS:HE2	14:C2:100:TRP:CD1	2.88	0.46
17:C5:28:MET:HB2	17:C5:28:MET:HE2	2.90	0.46
18:C6:103:ASN:O	18:C6:107:LYS:HB2	2.54	0.46
18:C6:49:TYR:HB3	18:C6:53:LEU:HD21	3.00	0.46
22:D0:16:GLN:HB2	22:D0:17:GLN:HE21	1.81	0.46
24:D2:114:GLU:O	24:D2:118:ARG:HG3	2.14	0.46
40:L3:2:SER:O	40:L3:3:HIS:HB3	2.15	0.46
41:L4:193:LYS:HG2	41:L4:194:TYR:N	2.31	0.46
41:L4:303:GLY:O	41:L4:305:ALA:N	2.48	0.46
42:L5:208:MET:O	42:L5:219:PHE:HE2	1.98	0.46
37:3:49:G:OP1	42:L5:90:HIS:HB3	2.15	0.46
38:4:154:C:O2'	45:L8:185:ARG:HG3	2.15	0.46
46:L9:174:LYS:HB2	76:Q0:127:LEU:HD11	2.01	0.46
46:L9:175:PHE:N	46:L9:175:PHE:CD2	3.04	0.46
46:L9:79:ILE:HG22	46:L9:80:THR:N	2.30	0.46
49:M3:64:LYS:HA	64:N8:69:TRP:CE3	3.27	0.46
50:M4:114:ASP:HA	50:M4:117:ARG:CZ	2.45	0.46
53:M7:131:ARG:HG3	53:M7:137:ASN:OD1	2.15	0.46
50:M4:41:GLN:HG2	56:N0:143:PHE:HZ	1.80	0.46
58:N2:43:VAL:HB	58:N2:49:ASN:HB3	1.98	0.46
51:M5:143:ARG:NE	71:O5:96:GLU:OE1	2.48	0.46
2:S0:206:ASP:HB2	2:S0:207:PRO:O	5.21	0.46
5:S3:191:ASP:OD2	5:S3:193:ALA:HB3	2.51	0.46
8:S6:136:LYS:HZ1	8:S6:174:LYS:HB3	1.80	0.46
11:S9:36:LEU:HD11	11:S9:105:LEU:HD21	3.19	0.46
20:C8:125:ILE:HD11	35:SM:57:ASN:HB3	1.97	0.46
34:SR:117:LYS:H	34:SR:117:LYS:HD2	1.80	0.46
34:SR:216:LYS:HA	34:SR:239:GLU:HG3	2.06	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:25:THR:OG1	34:SR:26:SER:N	3.78	0.46
36:1:1028:U:H5''	36:1:1029:G:H5'	1.97	0.46
36:1:1597:C:H42	36:1:1610:G:H1	1.63	0.46
36:1:2173:U:N3	36:1:2174:G:C6	2.84	0.46
36:1:2689:A:C8	36:1:2702:A:C6	3.03	0.46
36:1:2975:U:O2'	36:1:2976:A:H5'	2.15	0.46
36:1:314:U:H2'	36:1:315:C:C6	2.50	0.46
36:1:3276:G:H1	69:O3:60:ARG:HH22	1.63	0.46
36:1:503:C:O5'	43:L6:26:ARG:NH1	2.48	0.46
36:1:722:G:C6	36:1:723:U:C4	3.04	0.46
1:2:1010:C:H2'	1:2:1011:G:O4'	2.15	0.46
1:2:1327:C:C2	1:2:1328:G:C8	3.04	0.46
1:2:1352:G:H2'	1:2:1353:U:O4'	2.16	0.46
1:2:1362:U:O2'	1:2:1363:U:O2	2.17	0.46
1:2:778:G:H3'	1:2:780:A:C2	2.51	0.46
1:2:79:C:H4'	8:S6:173:PRO:O	2.14	0.46
38:4:58:G:O6	73:O7:63:ARG:NH2	2.47	0.46
38:4:75:G:OP2	75:O9:31:THR:OG1	2.25	0.46
36:5:1146:C:H2'	36:5:1147:G:C8	2.51	0.46
36:5:1366:A:C2	36:5:1367:G:C4	3.02	0.46
36:5:1506:A:C6	36:5:1510:G:C6	3.04	0.46
36:5:1796:G:H5''	36:5:1797:A:OP1	2.15	0.46
36:5:2525:G:O3'	36:5:2526:C:H6	1.97	0.46
36:5:3279:A:N6	36:5:3280:U:C4	2.83	0.46
57:N1:13:TYR:O	85:5:3413:OHX:N4	261.18	0.46
36:5:2892:A:OP1	85:5:3631:OHX:N6	2.48	0.46
36:5:955:U:H2'	36:5:956:U:C6	2.50	0.46
1:6:1053:G:C2	1:6:1067:C:C2	3.04	0.46
1:6:1208:A:H5''	1:6:1209:C:OP2	2.15	0.46
1:6:194:U:H2'	1:6:194:U:O2	2.15	0.46
1:6:1348:A:OP1	85:6:1997:OHX:N2	2.48	0.46
1:6:788:A:H8	1:6:788:A:O5'	1.98	0.46
15:C3:34:ILE:O	15:C3:38:VAL:HG23	2.14	0.46
16:C4:29:HIS:HB2	16:C4:41:ARG:HA	1.98	0.46
19:C7:119:LEU:H	19:C7:119:LEU:HD12	1.80	0.46
19:C7:29:GLN:HB3	34:SR:85:TRP:CZ3	3.13	0.46
20:C8:53:ASP:O	20:C8:56:LYS:HB2	2.21	0.46
21:C9:105:LEU:HD22	21:C9:122:ARG:HG2	2.13	0.46
21:C9:35:ASP:OD2	21:C9:36:ILE:HG23	3.98	0.46
40:L3:221:THR:O	40:L3:272:TYR:HA	2.25	0.46
44:L7:232:ARG:O	44:L7:235:PHE:HB2	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:191:LYS:HE2	47:M0:212:GLU:HB3	1.97	0.46
51:M5:178:HIS:CD2	51:M5:179:LYS:N	3.01	0.46
53:M7:108:ASP:N	53:M7:152:GLU:OE2	2.54	0.46
1:2:814:A:H5'	55:M9:170:ARG:HH22	1.81	0.46
55:M9:23:TRP:O	55:M9:50:ILE:HA	2.16	0.46
56:N0:46:GLN:HG2	56:N0:51:VAL:O	2.15	0.46
57:N1:40:VAL:O	57:N1:61:THR:HG23	2.45	0.46
58:N2:27:VAL:HG21	58:N2:107:PHE:CE1	2.50	0.46
60:N4:9:SER:OG	60:N4:10:GLY:N	2.72	0.46
61:N5:115:ARG:NH1	61:N5:119:THR:OG1	2.73	0.46
61:N5:103:TYR:CE1	61:N5:139:ILE:HD12	2.51	0.46
63:N7:22:LYS:NZ	63:N7:129:TRP:O	2.48	0.46
63:N7:95:VAL:HG21	63:N7:113:VAL:HG11	1.98	0.46
67:O1:25:PHE:C	67:O1:27:LYS:H	2.24	0.46
43:L6:31:ARG:HD2	69:O3:107:ILE:O	3.13	0.46
70:O4:80:ARG:HG3	70:O4:88:ARG:HH21	4.10	0.46
71:O5:16:GLN:O	71:O5:19:SER:HB3	2.16	0.46
72:O6:97:SER:C	72:O6:99:ARG:H	2.18	0.46
2:S0:35:PRO:C	2:S0:37:VAL:H	2.14	0.46
2:S0:72:ASP:HB2	2:S0:118:PRO:HA	1.96	0.46
3:S1:171:ILE:HD12	3:S1:197:ILE:HD13	1.98	0.46
3:S1:61:LEU:O	3:S1:63:GLY:N	2.49	0.46
4:S2:144:TRP:CZ2	4:S2:173:PRO:HG3	2.51	0.46
5:S3:95:GLY:HA3	5:S3:129:SER:OG	2.15	0.46
5:S3:54:ARG:HD2	5:S3:57:ASP:OD1	3.33	0.46
6:S4:185:GLY:H	6:S4:189:LEU:HB2	1.78	0.46
6:S4:185:GLY:H	6:S4:189:LEU:HD13	1.81	0.46
7:S5:147:THR:HG23	7:S5:158:GLN:HB3	2.42	0.46
7:S5:35:GLN:C	7:S5:37:GLN:H	2.59	0.46
8:S6:5:ILE:HD13	8:S6:50:PHE:HE1	1.80	0.46
10:S8:152:ILE:O	10:S8:153:GLU:HB2	2.14	0.46
11:S9:34:PHE:CD1	11:S9:105:LEU:HB3	2.50	0.46
11:S9:59:LEU:HD13	11:S9:69:ARG:HA	3.79	0.46
36:1:1101:G:H5''	44:L7:107:ARG:HD3	1.97	0.46
36:1:1127:G:N2	36:1:1129:A:H3'	2.30	0.46
36:1:167:U:H2'	36:1:168:U:C6	2.50	0.46
36:1:1926:C:H5'	36:1:1927:G:C5	2.50	0.46
36:1:398:A:H5''	53:M7:3:ARG:HD2	1.96	0.46
36:1:911:C:N4	39:L2:3:ARG:HD3	2.30	0.46
1:2:1060:U:H2'	1:2:1061:A:O4'	2.15	0.46
1:2:1628:U:H2'	1:2:1629:G:H8	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:1974:OHX:N6	13:C1:18:HIS:O	2.49	0.46
1:2:43:A:H5''	1:2:437:A:N1	2.30	0.46
1:2:58:U:O2'	1:2:451:A:N3	2.46	0.46
1:2:702:G:O2'	1:2:703:G:H8	1.99	0.46
1:2:736:C:H42	1:2:737:A:H62	1.64	0.46
1:2:93:A:H4'	1:2:94:U:OP2	2.15	0.46
37:3:97:A:H2'	37:3:98:C:C6	2.51	0.46
65:N9:28:LYS:HB2	36:5:1065:A:C4	212.47	0.46
36:5:2101:C:H2'	36:5:2102:U:H6	1.80	0.46
36:5:209:A:O2'	36:5:211:A:OP2	2.21	0.46
53:M7:83:TRP:O	36:5:2352:A:H5''	152.84	0.46
36:5:2882:U:H2'	36:5:2883:U:C6	2.51	0.46
85:5:3693:OHX:N1	85:5:3695:OHX:N4	2.64	0.46
36:5:799:G:H2'	36:5:801:A:N7	2.30	0.46
1:6:1402:G:H2'	1:6:1403:C:C6	2.51	0.46
1:6:703:G:H1	1:6:735:C:H42	1.63	0.46
15:C3:6:SER:HB2	15:C3:8:GLY:H	1.80	0.46
17:C5:22:LEU:HA	17:C5:25:LEU:HB2	2.93	0.46
19:C7:27:ASP:HB3	19:C7:30:THR:HG22	1.97	0.46
20:C8:38:VAL:HG13	20:C8:101:LEU:HD22	1.96	0.46
20:C8:45:LEU:O	20:C8:48:LYS:N	3.13	0.46
21:C9:14:PHE:HZ	21:C9:132:LEU:HB3	3.95	0.46
21:C9:28:LEU:O	21:C9:107:ALA:HB1	2.15	0.46
26:D4:5:VAL:O	26:D4:6:THR:OG1	2.29	0.46
27:D5:87:GLY:O	27:D5:89:ILE:N	2.45	0.46
33:E1:90:LYS:HB2	33:E1:93:HIS:CE1	9.29	0.46
36:1:3151:U:OP1	40:L3:128:LYS:NZ	2.48	0.46
40:L3:84:VAL:CG2	40:L3:162:VAL:HB	2.63	0.46
40:L3:95:THR:C	40:L3:97:ARG:H	2.18	0.46
41:L4:136:LEU:HD23	41:L4:136:LEU:HA	2.18	0.46
42:L5:4:GLN:CD	42:L5:4:GLN:H	2.17	0.46
36:1:2646:C:H4'	47:M0:119:TRP:CE2	2.51	0.46
48:M1:54:VAL:HG11	48:M1:57:PHE:CG	2.50	0.46
49:M3:36:ARG:HG2	49:M3:36:ARG:HH11	4.00	0.46
51:M5:114:ARG:NH2	51:M5:157:LYS:HG2	3.12	0.46
51:M5:35:VAL:O	51:M5:64:VAL:HA	2.15	0.46
56:N0:138:GLN:O	56:N0:140:VAL:N	2.95	0.46
50:M4:38:ILE:HD11	56:N0:150:PHE:HE2	1.80	0.46
58:N2:16:THR:HG22	58:N2:64:THR:OG1	4.11	0.46
8:S6:131:LYS:HE2	60:N4:80:ARG:HA	1.96	0.46
61:N5:34:LEU:HD23	36:5:1558:A:H1'	138.90	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:56:ARG:O	61:N5:61:LYS:HD2	2.15	0.46
63:N7:97:SER:N	63:N7:100:THR:OG1	2.40	0.46
66:O0:70:PHE:CD1	66:O0:77:LEU:HD13	2.51	0.46
73:O7:48:ASN:HA	73:O7:54:LYS:NZ	2.86	0.46
78:Q2:23:HIS:CD2	78:Q2:72:LEU:HB3	2.49	0.46
6:S4:126:VAL:HG22	6:S4:156:VAL:HA	3.17	0.46
8:S6:116:LYS:HD2	8:S6:125:THR:CG2	2.86	0.46
8:S6:31:ARG:HD2	8:S6:34:GLN:NE2	2.30	0.46
10:S8:3:ILE:HG13	10:S8:3:ILE:H	1.29	0.46
11:S9:59:LEU:O	11:S9:62:ARG:HB2	2.67	0.46
36:1:1525:G:N2	36:1:1615:C:C2	2.84	0.46
36:1:1794:G:O2'	36:1:1795:U:H5'	2.16	0.46
36:1:2242:A:H5''	39:L2:244:GLY:HA3	1.97	0.46
36:1:2107:A:H2	36:1:3344:A:C8	2.34	0.46
36:1:640:U:OP2	68:O2:37:GLY:HA2	2.16	0.46
1:2:1100:G:O2'	24:D2:76:SER:N	2.49	0.46
1:2:1525:A:N1	1:2:1608:U:H1'	2.31	0.46
1:2:1680:G:O6	85:2:1988:OHX:N5	2.49	0.46
1:2:816:G:C2	1:2:817:A:C8	3.03	0.46
1:2:924:A:H2'	1:2:925:G:C8	2.50	0.46
38:4:144:G:H2'	38:4:145:U:H6	1.80	0.46
36:5:1449:A:H2'	36:5:1450:G:O4'	2.16	0.46
36:5:1709:C:N4	36:5:1735:G:H1	2.14	0.46
36:5:213:A:C5	36:5:214:G:C8	3.04	0.46
36:5:2513:U:C2	36:5:2592:G:N2	2.84	0.46
36:5:3251:U:H2'	36:5:3252:G:H8	1.80	0.46
64:N8:12:ARG:NH2	36:5:661:G:OP1	149.77	0.46
36:5:873:C:H2'	36:5:875:G:O4'	2.16	0.46
65:N9:18:ARG:NH1	36:5:951:A:OP1	207.53	0.46
1:6:619:A:N3	1:6:1141:G:H1'	2.30	0.46
1:6:140:A:OP2	1:6:140:A:H4'	2.15	0.46
1:6:1734:U:H2'	1:6:1735:U:H6	1.81	0.46
1:6:310:C:H2'	1:6:311:U:H6	1.81	0.46
1:6:333:A:N6	1:6:334:G:O6	2.49	0.46
1:6:356:G:OP2	85:6:1929:OHX:N5	2.49	0.46
1:6:405:C:OP1	85:6:1911:OHX:N5	2.48	0.46
1:6:882:U:H2'	1:6:883:C:H6	1.78	0.46
20:C8:30:TYR:HE2	20:C8:40:ARG:HD2	3.17	0.46
21:C9:16:ASN:HA	21:C9:56:LYS:HZ2	3.79	0.46
1:2:1101:G:O2'	24:D2:4:SER:HB2	2.15	0.46
25:D3:44:GLY:H	25:D3:78:LYS:HZ1	1.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:32:PHE:HE2	30:D8:38:ARG:HB3	1.81	0.46
31:D9:16:LYS:HG2	31:D9:16:LYS:H	2.73	0.46
32:E0:47:VAL:HG22	32:E0:48:THR:H	1.80	0.46
1:2:1253:U:H4'	33:E1:143:LYS:N	2.30	0.46
39:L2:149:ARG:HE	39:L2:252:THR:HG21	1.79	0.46
40:L3:188:ILE:HD12	40:L3:188:ILE:H	3.49	0.46
40:L3:61:ASP:O	40:L3:63:PRO:HD3	2.15	0.46
41:L4:352:ALA:HB2	44:L7:71:ALA:O	2.40	0.46
44:L7:63:ILE:O	44:L7:66:LYS:HB2	2.82	0.46
45:L8:173:MET:SD	45:L8:173:MET:N	3.71	0.46
36:1:2550:U:C6	45:L8:37:GLY:HA3	2.50	0.46
48:M1:85:LYS:HA	48:M1:89:TYR:CE2	2.75	0.46
49:M3:172:LEU:HA	49:M3:172:LEU:HD23	1.69	0.46
50:M4:99:TRP:O	50:M4:103:ILE:HG13	2.21	0.46
52:M6:147:TRP:CZ3	52:M6:150:GLU:HB2	2.84	0.46
56:N0:88:HIS:ND1	56:N0:88:HIS:N	3.26	0.46
59:N3:13:ILE:HD11	59:N3:54:LEU:HB3	3.38	0.46
36:1:1430:U:H2'	64:N8:9:ARG:HH22	1.80	0.46
66:O0:22:LYS:HB2	66:O0:94:GLU:HG3	2.94	0.46
68:O2:8:LYS:HB2	68:O2:8:LYS:HE3	1.65	0.46
74:O8:59:ALA:O	74:O8:62:ALA:HB3	2.14	0.46
74:O8:64:LYS:HG3	74:O8:65:LEU:N	5.25	0.46
46:L9:95:ALA:O	76:Q0:77:ILE:HG12	7.50	0.46
77:Q1:21:ARG:HH11	1:6:1654:G:P	283.64	0.46
51:M5:88:GLY:HA2	78:Q2:50:PHE:CE1	2.74	0.46
2:S0:49:ASN:OD1	2:S0:52:LYS:N	6.35	0.46
7:S5:143:ARG:HA	7:S5:167:ARG:HD3	2.33	0.46
7:S5:58:LEU:HD13	7:S5:138:THR:HG22	1.98	0.46
8:S6:31:ARG:HH11	8:S6:34:GLN:NE2	2.11	0.46
9:S7:143:LEU:HB2	9:S7:147:ASN:O	2.95	0.46
9:S7:46:ILE:HG12	9:S7:60:ILE:HG23	2.28	0.46
36:1:115:A:OP1	51:M5:49:ARG:NE	2.48	0.46
36:1:1192:C:H2'	36:1:1192:C:O2	2.15	0.46
36:1:1240:A:H61	36:1:1244:A:C5'	2.28	0.46
36:1:138:U:H2'	36:1:139:G:H8	1.81	0.46
36:1:1781:C:H2'	36:1:1782:U:C6	2.51	0.46
36:1:2534:G:H2'	36:1:2535:A:H8	1.80	0.46
36:1:2771:U:H2'	36:1:2772:C:C2	2.51	0.46
36:1:3035:A:C4	36:1:3036:G:C8	3.04	0.46
36:1:3205:G:C4	56:N0:171:PHE:CE1	3.03	0.46
36:1:3218:A:H5''	36:1:3219:G:C5	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:778:U:O4	85:1:3542:OHX:N2	2.49	0.46
36:1:665:A:H1'	49:M3:14:PHE:CE1	2.51	0.46
36:1:707:U:OP1	36:1:780:A:O2'	2.26	0.46
36:1:897:U:H2'	36:1:898:U:C6	2.50	0.46
36:1:970:A:O5'	36:1:970:A:H8	1.98	0.46
1:2:1146:G:C6	1:2:1147:A:C6	3.04	0.46
1:2:1339:C:H4'	1:2:1340:U:OP2	2.14	0.46
1:2:1479:A:P	21:C9:57:ARG:HH12	2.37	0.46
1:2:711:U:H1'	1:2:712:G:C8	2.50	0.46
1:2:900:A:OP1	16:C4:43:THR:OG1	2.26	0.46
36:5:2634:U:O2	36:5:2645:G:C6	2.69	0.46
85:5:3514:OHX:N6	85:5:3705:OHX:N5	2.64	0.46
44:L7:70:LYS:NZ	36:5:519:A:OP2	314.26	0.46
36:5:598:A:H61	36:5:605:U:H3	1.63	0.46
19:C7:45:ARG:HG3	1:6:1389:C:OP2	422.49	0.46
1:6:1535:U:H4'	1:6:1535:U:OP1	2.16	0.46
1:6:1713:G:H2'	1:6:1714:A:H8	1.80	0.46
1:6:246:G:C6	1:6:247:A:C6	3.03	0.46
1:6:38:C:H2'	1:6:39:A:H5'	1.97	0.46
1:6:680:U:H2'	1:6:682:C:H41	1.80	0.46
37:7:91:G:H2'	37:7:92:A:C8	2.50	0.46
13:C1:35:TYR:CD1	13:C1:49:ILE:HG12	3.31	0.46
15:C3:29:SER:OG	15:C3:31:GLU:HB3	2.15	0.46
16:C4:54:GLU:OE1	1:6:901:G:N2	282.34	0.46
17:C5:22:LEU:O	17:C5:26:LEU:HD22	2.15	0.46
23:D1:56:SER:OG	23:D1:59:VAL:HG23	2.15	0.46
26:D4:84:LYS:HD3	26:D4:85:PHE:CE2	3.83	0.46
28:D6:84:VAL:HG13	28:D6:85:ARG:N	2.29	0.46
39:L2:174:ARG:HA	79:Q3:69:TYR:CE2	2.51	0.46
41:L4:230:VAL:HG12	41:L4:258:LEU:HD13	1.96	0.46
41:L4:317:PRO:HA	41:L4:323:VAL:HG13	3.72	0.46
42:L5:218:ARG:HA	42:L5:221:GLU:OE2	2.15	0.46
43:L6:62:THR:OG1	43:L6:78:ARG:HD3	2.68	0.46
46:L9:156:GLN:O	46:L9:160:ASP:N	2.70	0.46
47:M0:87:LEU:HA	47:M0:138:VAL:HG13	1.98	0.46
47:M0:150:GLU:HG3	47:M0:154:ARG:HD2	3.05	0.46
50:M4:20:VAL:HG13	50:M4:68:LEU:O	2.15	0.46
51:M5:178:HIS:HD2	51:M5:179:LYS:N	2.87	0.46
53:M7:155:GLU:HG2	53:M7:155:GLU:H	3.37	0.46
53:M7:171:ARG:NH1	53:M7:171:ARG:HB2	2.31	0.46
36:1:1682:U:C5	58:N2:85:LYS:HG2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:136:ALA:O	61:N5:139:ILE:HG23	2.16	0.46
61:N5:77:GLU:HG2	61:N5:133:LEU:HG	1.97	0.46
64:N8:112:ILE:HB	64:N8:130:VAL:HG12	1.98	0.46
66:O0:47:ASN:HD21	66:O0:74:ASN:H	1.64	0.46
67:O1:27:LYS:O	67:O1:31:ARG:HB2	2.71	0.46
71:O5:62:GLN:O	71:O5:65:ALA:HB3	2.25	0.46
76:Q0:99:CYS:SG	76:Q0:115:CYS:SG	3.42	0.46
79:Q3:84:ARG:HA	79:Q3:87:ARG:NH1	3.46	0.46
9:S7:144:VAL:HG22	24:D2:49:GLU:HB3	6.17	0.46
36:1:1063:G:C6	36:1:1097:G:C5	3.04	0.46
36:1:1084:A:H5''	36:1:1085:A:OP2	2.14	0.46
36:1:1465:A:N6	36:1:1466:G:C2	2.83	0.46
36:1:2207:A:H2'	36:1:2208:A:H8	1.81	0.46
36:1:2948:C:H2'	36:1:2949:U:H6	1.80	0.46
36:1:551:A:C4	36:1:552:G:C8	3.04	0.46
36:1:786:A:H4'	36:1:787:G:H5'	1.97	0.46
36:1:818:C:N3	36:1:920:A:H5'	2.30	0.46
1:2:1003:A:C4	1:2:1005:A:C6	3.03	0.46
1:2:1018:U:H2'	1:2:1019:A:H8	1.80	0.46
1:2:1140:G:H2'	1:2:1141:G:H8	1.81	0.46
1:2:1662:G:O6	85:2:1919:OHX:N3	2.47	0.46
1:2:514:G:O2'	1:2:515:A:H5'	2.16	0.46
1:2:717:C:N4	1:2:720:G:H22	2.11	0.46
37:3:97:A:H2'	37:3:98:C:H6	1.81	0.46
38:4:35:C:H5''	73:O7:70:VAL:HG11	1.98	0.46
38:4:46:G:N2	38:4:58:G:C4	2.84	0.46
36:5:1781:C:H2'	36:5:1782:U:C6	2.45	0.46
36:5:1657:C:C5	36:5:1797:A:H5''	2.51	0.46
36:5:209:A:H4'	36:5:211:A:N7	2.30	0.46
36:5:1346:G:O6	85:5:3570:OHX:N2	2.49	0.46
36:5:4:U:H2'	36:5:5:G:C8	2.50	0.46
1:6:829:A:H61	1:6:843:U:H3	1.64	0.46
1:2:1211:A:H1'	17:C5:99:GLY:O	2.16	0.46
21:C9:25:GLN:C	21:C9:27:LYS:H	3.00	0.46
24:D2:15:ASN:HD21	24:D2:72:CYS:N	2.06	0.46
25:D3:48:HIS:HD2	25:D3:105:ALA:HB2	1.79	0.46
29:D7:47:PHE:CE1	29:D7:49:HIS:HB2	2.51	0.46
31:D9:22:ARG:HG2	31:D9:38:ILE:HG12	3.15	0.46
32:E0:13:LYS:HB3	32:E0:13:LYS:HE2	4.53	0.46
33:E1:83:LYS:O	33:E1:84:VAL:HG12	2.16	0.46
39:L2:139:HIS:N	39:L2:139:HIS:ND1	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:114:VAL:HG22	40:L3:163:HIS:NE2	2.56	0.46
40:L3:148:LEU:HD12	40:L3:148:LEU:HA	2.17	0.46
41:L4:206:LEU:HB3	41:L4:248:VAL:HG22	1.98	0.46
41:L4:74:ILE:HG22	41:L4:76:ARG:NH1	7.32	0.46
44:L7:104:GLN:HA	44:L7:109:THR:HG22	4.44	0.46
44:L7:234:GLU:HG2	44:L7:234:GLU:H	1.50	0.46
45:L8:162:LEU:HA	51:M5:7:LEU:HD11	2.49	0.46
45:L8:78:PHE:O	45:L8:80:TYR:N	2.44	0.46
47:M0:202:LYS:HG2	37:7:64:A:C6	342.19	0.46
47:M0:206:LEU:O	47:M0:210:ILE:HG13	2.15	0.46
48:M1:35:LYS:O	48:M1:39:GLN:HB2	5.02	0.46
36:1:3276:G:O2'	53:M7:175:ARG:HD3	2.16	0.46
55:M9:130:ASN:C	55:M9:132:PHE:H	2.18	0.46
55:M9:138:LEU:O	55:M9:142:ILE:HG13	2.52	0.46
56:N0:80:ARG:HB2	56:N0:124:LEU:HD11	1.97	0.46
56:N0:71:LYS:HD3	56:N0:72:VAL:O	2.15	0.46
59:N3:74:MET:HG3	59:N3:102:ILE:HD13	1.97	0.46
62:N6:115:ARG:O	62:N6:119:ILE:HG13	2.15	0.46
70:O4:11:ASN:HA	70:O4:12:PRO:HD3	1.62	0.46
73:O7:62:GLY:O	85:O7:103:OHX:N6	2.49	0.46
78:Q2:52:GLY:HA3	36:5:2421:U:O2'	175.57	0.46
78:Q2:99:GLN:HB3	78:Q2:102:GLN:HG3	1.96	0.46
6:S4:118:GLU:C	6:S4:120:SER:N	3.08	0.46
6:S4:3:ARG:HB3	1:6:93:A:H1'	326.23	0.46
6:S4:36:HIS:HD2	6:S4:83:PRO:O	3.42	0.46
8:S6:208:TYR:O	8:S6:211:LEU:N	2.94	0.46
8:S6:216:LEU:HD23	8:S6:216:LEU:HA	2.26	0.46
11:S9:126:ARG:HG3	32:E0:33:ARG:HD3	1.97	0.46
11:S9:173:ALA:N	1:6:512:A:OP2	458.17	0.46
35:SM:97:THR:C	35:SM:99:LYS:H	2.19	0.46
34:SR:242:SER:H	34:SR:255:ALA:HB3	1.81	0.46
36:1:1246:G:H2'	36:1:1247:U:O4'	2.15	0.46
36:1:1277:C:HO2'	36:1:1278:A:H8	1.57	0.46
36:1:1814:A:OP1	85:1:3626:OHX:N2	2.49	0.46
36:1:2273:G:H22	36:1:2311:G:H2'	1.81	0.46
85:1:3497:OHX:N1	85:1:3678:OHX:N4	2.64	0.46
36:1:848:A:C5	36:1:849:C:H1'	2.50	0.46
36:1:88:A:N6	36:1:98:G:O2'	2.46	0.46
1:2:1533:C:H4'	1:2:1539:G:H1	1.80	0.46
1:2:286:C:H2'	1:2:287:G:H5'	1.98	0.46
1:2:77:U:OP2	85:2:2029:OHX:N2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:5:U:H2'	38:4:6:U:O4'	2.16	0.46
38:4:87:G:OP2	71:O5:5:LYS:NZ	2.48	0.46
36:5:1168:U:O2'	36:5:1169:A:H5'	2.15	0.46
36:5:1291:A:H2'	36:5:1292:C:O4'	2.15	0.46
36:5:1556:C:H2'	36:5:2169:G:N1	2.29	0.46
36:5:2387:A:C2	36:5:2388:U:H1'	2.51	0.46
36:5:2764:C:O5'	36:5:2764:C:H6	1.99	0.46
78:Q2:63:LYS:NZ	36:5:2796:G:N7	215.43	0.46
36:5:3117:C:N3	85:5:3708:OHX:N2	2.64	0.46
49:M3:16:LYS:CG	36:5:48:A:H5''	134.19	0.46
36:5:996:A:H2'	36:5:997:A:O4'	2.16	0.46
17:C5:122:THR:OG1	1:6:1454:G:O3'	368.00	0.46
1:6:422:G:N7	85:6:1940:OHX:N4	2.64	0.46
1:6:396:G:N2	1:6:398:G:H3'	2.30	0.46
37:7:28:C:H2'	37:7:29:C:O4'	2.16	0.46
73:O7:67:LEU:HD23	38:8:35:C:H4'	75.57	0.46
5:S3:78:LYS:HE2	12:C0:33:GLU:HG2	1.97	0.46
13:C1:75:VAL:HG12	13:C1:119:VAL:HA	2.24	0.46
14:C2:32:LEU:O	14:C2:36:LEU:HB2	2.15	0.46
15:C3:54:LEU:HB3	15:C3:60:VAL:CG1	3.77	0.46
17:C5:109:PRO:O	17:C5:112:LEU:HG	2.16	0.46
19:C7:5:ARG:N	19:C7:5:ARG:HD3	2.30	0.46
25:D3:57:LEU:HD23	25:D3:57:LEU:HA	1.93	0.46
25:D3:86:PHE:HB2	25:D3:120:VAL:HG11	2.42	0.46
6:S4:95:THR:HG22	26:D4:16:PRO:HG2	1.97	0.46
30:D8:11:LYS:HE2	30:D8:31:GLU:OE1	2.15	0.46
30:D8:50:GLU:O	30:D8:51:ASN:HB2	2.15	0.46
39:L2:57:PRO:HD2	39:L2:170:ALA:HB3	2.57	0.46
39:L2:42:ARG:HD2	39:L2:87:PHE:CD2	3.42	0.46
36:1:1305:U:C2	40:L3:257:PRO:HB3	2.51	0.46
40:L3:290:ASP:OD2	40:L3:292:ALA:N	4.90	0.46
41:L4:104:LYS:HD3	41:L4:104:LYS:HA	2.48	0.46
43:L6:165:LEU:HA	43:L6:165:LEU:HD23	1.72	0.46
45:L8:160:ILE:O	45:L8:164:VAL:HG13	2.16	0.46
36:1:1125:U:H5''	47:M0:15:LYS:HZ2	1.81	0.46
48:M1:40:LEU:HD11	48:M1:79:ILE:HG21	1.98	0.46
49:M3:179:PHE:HD1	49:M3:182:ILE:HD12	2.67	0.46
49:M3:99:HIS:CE1	49:M3:100:ARG:HG2	2.51	0.46
51:M5:126:THR:HB	51:M5:127:TYR:HD2	1.81	0.46
51:M5:93:LYS:HG3	36:5:289:A:C2	145.94	0.46
57:N1:73:GLY:HA2	57:N1:89:LEU:O	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:100:LYS:HG2	61:N5:105:VAL:O	2.16	0.46
61:N5:105:VAL:HG13	61:N5:130:TYR:CD2	2.60	0.46
61:N5:86:VAL:HG13	61:N5:87:SER:O	3.41	0.46
62:N6:114:ASP:HA	62:N6:117:ALA:HB3	1.98	0.46
64:N8:28:HIS:CE1	64:N8:32:ARG:HE	2.34	0.46
36:1:1456:A:N7	67:O1:26:LYS:HE2	2.31	0.46
71:O5:68:GLN:HA	71:O5:71:LYS:HB2	1.98	0.46
76:Q0:95:VAL:HG11	76:Q0:122:ARG:NH2	3.09	0.46
76:Q0:96:CYS:C	76:Q0:98:LYS:H	2.19	0.46
78:Q2:43:TYR:CZ	78:Q2:47:GLN:NE2	2.83	0.46
79:Q3:7:LYS:HE2	79:Q3:7:LYS:HB3	1.65	0.46
1:2:1064:G:O2'	3:S1:204:ILE:O	2.31	0.46
3:S1:206:PRO:O	3:S1:207:LEU:HB2	2.16	0.46
3:S1:134:VAL:HG12	3:S1:218:LEU:HD12	6.14	0.46
5:S3:14:ASP:O	5:S3:17:PHE:HB3	2.15	0.46
5:S3:29:LEU:HD21	5:S3:69:LEU:HD21	2.99	0.46
7:S5:94:THR:O	7:S5:97:LEU:N	2.49	0.46
34:SR:236:ALA:HB1	34:SR:261:LYS:HD2	3.11	0.46
36:1:1496:C:C2	36:1:1521:G:N2	2.84	0.46
36:1:2112:U:O5'	36:1:2112:U:H6	1.98	0.46
36:1:2353:G:C5	36:1:2354:C:C5	3.04	0.46
36:1:3131:U:H2'	36:1:3132:C:H6	1.81	0.46
85:1:3513:OHX:N1	85:1:3694:OHX:N2	2.63	0.46
36:1:2315:G:OP2	85:1:3538:OHX:N6	2.49	0.46
1:2:843:U:H2'	1:2:844:A:C8	2.51	0.46
1:2:968:U:H4'	1:2:1033:C:O2	2.14	0.46
37:3:7:G:H5''	42:L5:22:ARG:HD3	1.97	0.46
38:4:82:U:C2	38:4:83:C:H5	2.34	0.46
38:4:96:A:C6	38:4:97:A:C5	3.04	0.46
36:5:1317:A:C4	36:5:1319:G:N7	2.84	0.46
36:5:1336:U:H2'	36:5:1337:A:H8	1.81	0.46
36:5:1870:C:O2	36:5:3066:U:O2'	2.32	0.46
36:5:24:G:C2	36:5:25:U:H1'	2.51	0.46
59:N3:48:ARG:HH22	36:5:3043:C:P	250.75	0.46
85:5:3570:OHX:N1	85:5:3647:OHX:N2	2.64	0.46
85:5:3559:OHX:N3	85:5:3704:OHX:N6	2.64	0.46
36:5:374:A:N3	36:5:376:G:H5''	2.30	0.46
36:5:734:C:H2'	36:5:735:A:O4'	2.16	0.46
77:Q1:11:ARG:NH2	1:6:1127:G:OP1	294.02	0.46
1:6:1388:A:C6	1:6:1411:A:C5	3.04	0.46
1:6:1754:A:H4'	1:6:1755:A:O5'	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:485:A:C5	1:6:486:G:H1'	2.50	0.46
1:6:691:C:OP1	1:6:696:C:N4	2.49	0.46
1:6:772:G:C5	1:6:773:C:C4	3.03	0.46
37:7:47:C:H2'	37:7:48:U:C6	2.44	0.46
36:5:333:G:H1	38:8:30:C:H42	1.62	0.46
38:8:79:A:H2'	38:8:80:A:O4'	2.15	0.46
14:C2:31:VAL:HG23	14:C2:132:GLU:HB2	1.97	0.46
17:C5:63:ALA:HA	17:C5:66:ALA:HB3	2.74	0.46
18:C6:77:GLN:O	18:C6:81:ILE:HG23	2.23	0.46
20:C8:82:PRO:HB2	20:C8:84:TRP:NE1	4.18	0.46
40:L3:84:VAL:HG22	40:L3:85:VAL:H	2.17	0.46
42:L5:152:ARG:O	42:L5:154:THR:HG23	2.15	0.46
42:L5:95:TRP:CH2	42:L5:161:GLY:HA2	2.51	0.46
42:L5:277:LEU:HD12	37:7:62:U:H5''	337.26	0.46
45:L8:142:LEU:HD13	45:L8:201:THR:HG21	1.98	0.46
45:L8:213:LYS:O	45:L8:217:THR:HG22	6.55	0.46
46:L9:166:ARG:NH2	46:L9:168:ARG:NH1	11.19	0.46
48:M1:15:GLU:HB3	48:M1:130:VAL:HG22	1.96	0.46
48:M1:152:HIS:CD2	48:M1:153:LYS:H	5.07	0.46
49:M3:124:ILE:HD11	49:M3:126:PHE:CE1	2.51	0.46
55:M9:172:ARG:O	55:M9:176:ARG:HG2	2.41	0.46
57:N1:85:LEU:HD23	57:N1:85:LEU:HA	1.81	0.46
66:O0:24:THR:CG2	66:O0:91:SER:HB3	2.98	0.46
67:O1:70:ARG:NH2	67:O1:102:LYS:HE2	2.30	0.46
53:M7:172:GLN:OE1	69:O3:60:ARG:NH1	2.49	0.46
74:O8:46:ARG:HE	74:O8:51:LEU:HD13	2.35	0.46
6:S4:104:ASP:HB3	6:S4:105:VAL:H	1.61	0.46
6:S4:140:VAL:HA	6:S4:145:ARG:O	2.16	0.46
10:S8:84:HIS:HE1	10:S8:86:SER:HB2	1.78	0.46
36:1:22:G:OP1	73:O7:43:LYS:HE2	2.16	0.46
36:1:1580:A:H5'	36:1:2522:G:C5	2.51	0.46
36:1:288:C:H2'	36:1:289:A:C8	2.50	0.46
36:1:720:A:N3	36:1:720:A:H2'	2.30	0.46
36:1:848:A:H8	36:1:848:A:O5'	1.99	0.46
36:1:91:G:N7	36:1:93:C:C2	2.84	0.46
1:2:1210:C:O2'	1:2:1211:A:H5'	2.16	0.46
1:2:1469:A:H4'	1:2:1541:G:H4'	1.97	0.46
85:2:1922:OHX:N1	85:2:1977:OHX:N3	2.64	0.46
1:2:566:C:C2	1:2:567:A:C8	3.04	0.46
70:O4:22:VAL:HG11	36:5:1668:G:O2'	158.91	0.46
36:5:1714:A:C5	36:5:1728:G:C6	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1822:C:H2'	36:5:1823:A:C8	2.51	0.46
36:5:2253:G:C2	36:5:2264:U:C2	3.04	0.46
36:5:2378:C:H2'	36:5:2378:C:O2	2.16	0.46
36:5:2523:A:O2'	36:5:2587:U:H1'	2.16	0.46
85:5:3514:OHX:N4	85:5:3705:OHX:N1	2.64	0.46
36:5:2428:U:O4	85:5:3720:OHX:N5	2.49	0.46
36:5:386:A:H2'	36:5:387:A:O4'	2.16	0.46
1:6:138:A:N7	1:6:142:G:H5'	2.31	0.46
1:6:1486:G:N2	1:6:1522:U:O4	2.49	0.46
1:6:855:A:O2'	1:6:856:A:H3'	2.16	0.46
15:C3:88:LEU:HD23	15:C3:88:LEU:HA	2.25	0.46
16:C4:31:THR:HA	16:C4:38:THR:HA	2.60	0.46
17:C5:92:SER:H	17:C5:107:ILE:HG12	3.19	0.46
18:C6:37:THR:HA	18:C6:49:TYR:OH	2.53	0.46
19:C7:29:GLN:O	19:C7:32:LYS:HB3	2.16	0.46
21:C9:61:VAL:HG21	21:C9:104:VAL:HG11	1.98	0.46
23:D1:11:LEU:HG	23:D1:11:LEU:H	1.37	0.46
24:D2:23:ARG:O	24:D2:65:LEU:HD13	2.16	0.46
25:D3:24:TRP:HZ3	25:D3:30:LYS:HG3	4.03	0.46
27:D5:88:ILE:HA	27:D5:104:ALA:HB2	1.98	0.46
28:D6:41:ILE:HG22	28:D6:68:TYR:HD1	1.80	0.46
41:L4:346:LYS:HD2	41:L4:346:LYS:HA	4.62	0.46
42:L5:53:VAL:HB	42:L5:159:VAL:HG23	3.48	0.46
43:L6:60:ASP:O	43:L6:62:THR:N	3.27	0.46
47:M0:16:PRO:O	47:M0:18:PRO:HD3	2.16	0.46
48:M1:57:PHE:N	48:M1:57:PHE:CD1	3.12	0.46
50:M4:128:ARG:HD3	50:M4:132:LYS:HD2	2.37	0.46
52:M6:124:LEU:HD23	56:N0:168:PRO:HG3	2.81	0.46
54:M8:42:ALA:HA	54:M8:43:PRO:HD3	1.65	0.46
55:M9:164:LEU:HD13	55:M9:167:ARG:HB2	3.37	0.46
56:N0:155:ARG:HD3	56:N0:172:TYR:CG	3.08	0.46
58:N2:54:VAL:HG12	58:N2:67:SER:HA	1.98	0.46
62:N6:71:SER:HB3	62:N6:83:ASP:CG	4.30	0.46
63:N7:76:ASN:HB3	63:N7:79:HIS:ND1	2.30	0.46
64:N8:28:HIS:CE1	64:N8:32:ARG:NE	2.84	0.46
64:N8:3:SER:OG	64:N8:4:ARG:N	2.49	0.46
36:1:1430:U:H2'	64:N8:9:ARG:NH2	2.31	0.46
70:O4:41:ARG:HA	70:O4:56:THR:HG22	2.60	0.46
70:O4:65:VAL:HG13	70:O4:69:HIS:HB2	1.97	0.46
72:O6:54:GLU:O	72:O6:58:ILE:HG23	2.16	0.46
77:Q1:2:ARG:HG2	77:Q1:5:TRP:NE1	4.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:2:VAL:N	78:Q2:90:HIS:O	2.48	0.46
3:S1:36:SER:HB3	3:S1:231:LEU:O	2.75	0.46
4:S2:125:ILE:O	4:S2:129:ILE:HG13	2.34	0.46
6:S4:163:ASP:HB3	6:S4:167:GLY:O	3.68	0.46
6:S4:68:ARG:NH1	6:S4:76:VAL:HG21	2.31	0.46
7:S5:25:LEU:HB2	7:S5:26:ALA:H	1.63	0.46
9:S7:148:LYS:NZ	1:6:641:G:H5'	386.45	0.46
9:S7:154:LEU:HD11	9:S7:183:PHE:HB3	1.98	0.46
10:S8:3:ILE:O	10:S8:30:GLY:N	2.49	0.46
10:S8:98:LYS:HB3	1:6:329:G:H5''	275.21	0.46
34:SR:29:GLN:HG3	34:SR:32:LEU:HB3	1.98	0.46
36:1:1301:A:H4'	36:1:1302:A:O5'	2.16	0.45
36:1:1666:G:H2'	36:1:1667:A:C8	2.51	0.45
36:1:2106:A:H2'	36:1:2107:A:H8	1.82	0.45
36:1:2407:C:H1'	36:1:2818:U:C2	2.51	0.45
36:1:3007:U:H2'	36:1:3008:A:H8	1.79	0.45
1:2:1022:C:O2'	1:2:1125:A:N1	2.49	0.45
1:2:195:G:H2'	1:2:196:G:H5'	1.98	0.45
1:2:1680:G:O6	85:2:1960:OHX:N6	2.49	0.45
1:2:209:U:H2'	1:2:210:A:H8	1.76	0.45
1:2:268:C:O2'	1:2:269:G:H5'	2.16	0.45
36:5:193:C:C2	36:5:203:G:N2	2.85	0.45
36:5:271:C:H2'	36:5:272:G:O4'	2.17	0.45
36:5:2993:G:H2'	36:5:3142:A:N6	2.31	0.45
36:5:3194:C:O2'	36:5:3195:U:H2'	2.15	0.45
85:5:3537:OHX:N1	85:5:3585:OHX:N2	2.64	0.45
36:5:394:G:N2	36:5:396:A:H3'	2.31	0.45
36:5:508:U:H2'	36:5:509:U:C6	2.51	0.45
36:5:595:G:N1	36:5:609:G:H5''	2.30	0.45
1:6:1003:A:H4'	1:6:1004:U:O5'	2.16	0.45
1:6:249:U:H3'	1:6:250:C:C5'	2.46	0.45
1:6:385:A:H2'	1:6:386:G:C8	2.51	0.45
1:6:653:C:N4	1:6:677:G:H1	2.14	0.45
38:8:149:A:H2'	38:8:150:G:C8	2.50	0.45
38:8:41:A:H61	38:8:103:G:C2'	2.29	0.45
15:C3:107:LYS:O	15:C3:109:LYS:N	3.89	0.45
15:C3:119:GLU:O	15:C3:122:ILE:HB	2.16	0.45
19:C7:71:PHE:CE1	19:C7:74:GLN:HB2	5.18	0.45
20:C8:5:VAL:O	27:D5:42:LEU:HB2	3.30	0.45
22:D0:46:GLU:HB2	22:D0:52:LYS:NZ	2.31	0.45
25:D3:107:PHE:CD2	25:D3:114:LYS:HB2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:112:ILE:HB	28:D6:57:SER:OG	2.15	0.45
39:L2:169:ILE:HG22	39:L2:170:ALA:O	2.61	0.45
40:L3:77:THR:HG22	40:L3:326:GLY:O	3.53	0.45
42:L5:56:THR:OG1	42:L5:59:ASP:HB3	2.15	0.45
43:L6:90:LYS:HE2	43:L6:90:LYS:HB2	1.67	0.45
44:L7:131:GLU:O	44:L7:229:PHE:HB2	2.16	0.45
45:L8:151:VAL:HA	45:L8:199:ALA:HB2	2.41	0.45
47:M0:174:THR:HG23	47:M0:176:LEU:N	2.25	0.45
48:M1:166:LYS:C	48:M1:168:ASP:H	2.62	0.45
48:M1:89:TYR:O	48:M1:169:ALA:HB1	2.16	0.45
49:M3:167:PHE:O	49:M3:170:LEU:HB2	2.17	0.45
49:M3:24:VAL:O	49:M3:26:PHE:N	2.49	0.45
50:M4:54:PRO:O	50:M4:56:GLN:HG2	2.15	0.45
52:M6:138:LEU:HD12	52:M6:138:LEU:HA	1.73	0.45
50:M4:120:VAL:HG13	52:M6:194:LEU:HD23	1.96	0.45
56:N0:155:ARG:HH21	56:N0:155:ARG:CG	2.25	0.45
59:N3:17:LEU:HD21	59:N3:98:ASN:ND2	2.75	0.45
43:L6:10:TYR:HB3	68:O2:88:HIS:CD2	2.83	0.45
36:1:1180:A:H5''	69:O3:77:ASN:HB2	1.96	0.45
73:O7:69:HIS:O	73:O7:71:SER:N	3.12	0.45
79:Q3:73:THR:HG22	79:Q3:75:ALA:H	1.81	0.45
2:S0:50:VAL:O	2:S0:53:THR:HB	2.16	0.45
5:S3:53:THR:HG22	5:S3:91:VAL:HG12	1.98	0.45
7:S5:25:LEU:HD22	7:S5:25:LEU:H	1.81	0.45
8:S6:163:THR:HG22	8:S6:168:THR:HG22	1.98	0.45
9:S7:143:LEU:O	9:S7:145:GLY:N	2.93	0.45
36:1:1029:G:H2'	36:1:1030:A:C8	2.51	0.45
36:1:1213:G:P	56:N0:137:ARG:HD3	2.57	0.45
36:1:1307:G:H1'	36:1:1308:A:C8	2.52	0.45
36:1:1595:U:O2'	36:1:1596:C:H5''	2.15	0.45
36:1:2207:A:N6	36:1:2208:A:H62	2.14	0.45
36:1:2407:C:H2'	36:1:2408:U:H6	1.80	0.45
36:1:249:U:H1'	36:1:250:U:C2	2.51	0.45
36:1:606:C:O2'	36:1:607:A:N3	2.48	0.45
36:1:767:U:H5'	49:M3:186:ARG:NH1	2.31	0.45
1:2:1013:A:H2'	1:2:1014:G:O4'	2.15	0.45
1:2:1231:U:H4'	1:2:1258:U:H6	1.79	0.45
1:2:1794:A:H1'	28:D6:79:ILE:HD12	1.98	0.45
1:2:330:G:H2'	1:2:331:A:C8	2.51	0.45
1:2:742:U:H4'	1:2:743:U:OP2	2.16	0.45
37:3:94:C:H2'	37:3:95:A:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1081:U:O2'	36:5:1082:U:P	2.74	0.45
36:5:1185:C:H2'	36:5:1186:G:O4'	2.16	0.45
36:5:1441:G:OP1	85:8:215:OHX:N5	2.50	0.45
36:5:1500:G:H2'	36:5:1501:U:O4'	2.15	0.45
36:5:3356:G:C6	36:5:3357:U:C4	3.04	0.45
36:5:3054:U:OP2	85:5:3408:OHX:N6	2.49	0.45
85:5:3514:OHX:N4	85:5:3705:OHX:N2	2.63	0.45
36:5:410:U:O4	85:5:3606:OHX:N1	2.49	0.45
36:5:384:A:H2'	36:5:385:A:O4'	2.16	0.45
36:5:764:U:H6	36:5:764:U:O5'	1.99	0.45
36:5:960:U:O2'	36:5:961:C:H5'	2.16	0.45
1:6:538:A:C8	1:6:543:C:N4	2.78	0.45
1:6:8:U:O2'	85:6:1926:OHX:N2	2.49	0.45
37:7:12:U:OP2	37:7:68:C:O2'	2.35	0.45
38:8:104:A:C8	38:8:105:A:C8	3.04	0.45
14:C2:71:ILE:O	14:C2:75:VAL:HG23	2.17	0.45
15:C3:11:ILE:O	15:C3:13:SER:N	4.62	0.45
15:C3:4:MET:HG2	15:C3:5:HIS:CD2	4.58	0.45
18:C6:131:GLY:HA3	18:C6:136:SER:O	2.74	0.45
20:C8:126:ARG:CZ	20:C8:131:LEU:HD13	2.46	0.45
22:D0:20:ILE:HD13	22:D0:22:ILE:HD13	1.97	0.45
23:D1:32:VAL:HB	23:D1:60:ARG:HD3	1.98	0.45
24:D2:30:SER:HA	24:D2:34:ILE:HD12	2.02	0.45
33:E1:144:CYS:SG	33:E1:147:VAL:HG22	2.57	0.45
39:L2:219:ILE:HG22	39:L2:221:LYS:H	1.80	0.45
41:L4:131:VAL:O	41:L4:135:VAL:HG23	2.79	0.45
42:L5:152:ARG:CG	42:L5:152:ARG:HH11	2.63	0.45
42:L5:39:GLN:OE1	42:L5:40:HIS:N	2.62	0.45
43:L6:72:ASN:HB3	43:L6:160:SER:HA	1.98	0.45
44:L7:40:LYS:HA	44:L7:43:ILE:HD12	2.94	0.45
48:M1:12:LEU:HD13	48:M1:13:LYS:H	3.51	0.45
48:M1:52:TYR:HA	48:M1:61:ARG:HB2	1.98	0.45
49:M3:111:ALA:O	49:M3:115:ARG:N	2.49	0.45
36:1:3211:C:P	50:M4:109:ARG:HH22	2.39	0.45
50:M4:44:VAL:HG13	50:M4:60:LEU:HG	2.35	0.45
46:L9:53:ILE:HD13	50:M4:7:VAL:HG21	1.98	0.45
52:M6:131:PRO:HG3	56:N0:154:HIS:CD2	2.51	0.45
53:M7:10:ASN:O	53:M7:14:SER:HB2	2.85	0.45
53:M7:22:LEU:HD12	53:M7:146:ILE:HG13	1.99	0.45
36:1:1724:U:OP2	55:M9:128:LYS:NZ	2.49	0.45
57:N1:104:GLU:HG3	57:N1:105:PHE:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:N6:122:LYS:HD2	36:5:186:U:OP1	47.71	0.45
62:N6:51:ARG:HG2	62:N6:115:ARG:NH2	3.38	0.45
62:N6:27:ARG:NH1	62:N6:75:ARG:O	3.13	0.45
63:N7:46:ILE:HG12	63:N7:49:TYR:CE1	2.70	0.45
64:N8:84:GLU:O	64:N8:87:ARG:HB2	2.75	0.45
65:N9:23:LYS:HA	65:N9:23:LYS:HD3	3.20	0.45
66:O0:46:ALA:N	66:O0:72:GLY:O	2.99	0.45
69:O3:23:ASN:O	69:O3:25:PRO:HD3	2.75	0.45
85:O4:201:OHX:N4	36:5:1599:G:OP1	135.39	0.45
74:O8:32:ASN:ND2	74:O8:34:ALA:HB3	5.58	0.45
3:S1:127:VAL:HG11	3:S1:176:VAL:HG21	1.98	0.45
4:S2:177:GLY:C	4:S2:195:ASP:HA	2.82	0.45
4:S2:217:ALA:O	4:S2:220:ASN:N	3.58	0.45
4:S2:49:LYS:HD2	4:S2:243:TYR:CE1	3.26	0.45
6:S4:64:ILE:HG12	26:D4:18:LEU:HG	1.97	0.45
7:S5:41:LYS:HG2	7:S5:69:PHE:CZ	4.81	0.45
9:S7:56:LYS:HB2	9:S7:88:ARG:NH1	2.32	0.45
10:S8:152:ILE:HD13	10:S8:157:GLU:OE1	2.15	0.45
34:SR:215:GLY:O	34:SR:239:GLU:HG3	2.16	0.45
34:SR:42:LEU:HB2	34:SR:61:PHE:HB2	1.98	0.45
36:1:1190:A:H3'	36:1:1190:A:N3	2.30	0.45
36:1:120:G:H4'	36:1:121:A:C8	2.50	0.45
36:1:1922:A:H2'	36:1:1923:C:O4'	2.16	0.45
35:SM:31:SER:OG	36:1:2667:A:OP1	2.26	0.45
36:1:3100:U:O2'	36:1:3101:G:OP2	2.32	0.45
36:1:3109:G:C2	36:1:3126:C:C2	3.05	0.45
36:1:754:G:H2'	36:1:755:A:H8	1.82	0.45
1:2:338:C:H1'	10:S8:5:ARG:HB3	1.99	0.45
1:2:370:A:H2'	1:2:371:G:O4'	2.17	0.45
1:2:516:G:N2	1:2:537:G:H1'	2.32	0.45
1:2:552:G:C6	1:2:553:G:C6	3.04	0.45
1:2:773:C:OP1	6:S4:21:ASP:HB2	2.16	0.45
37:3:113:C:H2'	37:3:114:U:O4'	2.16	0.45
37:3:49:G:H4'	37:3:50:U:O5'	2.16	0.45
36:5:953:G:O2'	36:5:1116:G:H5'	2.17	0.45
36:5:1439:U:H2'	36:5:1440:G:C8	2.52	0.45
36:5:184:U:H2'	36:5:185:C:H6	1.82	0.45
36:5:3200:G:O6	85:5:3648:OHX:N5	2.50	0.45
1:6:1557:U:OP2	1:6:1559:A:O2'	2.25	0.45
1:6:329:G:H2'	1:6:330:G:C8	2.49	0.45
1:6:654:C:H2'	1:6:655:G:C8	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:16:ILE:HD12	1:6:959:U:H4'	347.11	0.45
1:6:988:A:C2	1:6:989:U:H1'	2.52	0.45
85:7:204:OHX:N3	85:7:209:OHX:N6	2.64	0.45
17:C5:91:GLY:H	17:C5:107:ILE:HB	1.81	0.45
1:2:1544:U:H4'	20:C8:132:ARG:NH2	2.32	0.45
20:C8:82:PRO:HB2	20:C8:85:PHE:HB2	1.97	0.45
23:D1:17:CYS:HB2	23:D1:56:SER:HB3	2.24	0.45
1:2:611:U:OP1	25:D3:19:ARG:NH2	2.50	0.45
26:D4:124:ARG:O	26:D4:127:LYS:HG3	2.16	0.45
26:D4:39:GLU:HG2	26:D4:43:LYS:HE2	1.98	0.45
27:D5:95:HIS:CG	27:D5:96:SER:N	2.83	0.45
36:1:3002:C:H5'	40:L3:178:LEU:HD23	1.98	0.45
40:L3:83:PRO:HG3	40:L3:204:ALA:HB2	2.68	0.45
41:L4:165:ALA:O	41:L4:168:ALA:HB3	2.44	0.45
41:L4:222:VAL:HA	41:L4:223:PRO:HD3	1.59	0.45
43:L6:78:ARG:HH11	43:L6:78:ARG:CG	2.29	0.45
45:L8:145:ASN:O	45:L8:147:LYS:N	2.91	0.45
47:M0:193:ASP:O	47:M0:195:ALA:N	2.49	0.45
47:M0:81:GLY:C	47:M0:83:ASP:H	2.31	0.45
49:M3:2:ALA:HB3	64:N8:33:GLY:O	2.16	0.45
49:M3:90:ALA:O	49:M3:95:ILE:HB	2.17	0.45
50:M4:53:VAL:HA	50:M4:54:PRO:HD3	1.60	0.45
53:M7:25:SER:CB	53:M7:28:ASN:HB2	3.25	0.45
54:M8:131:ALA:HA	54:M8:135:GLN:HG2	1.99	0.45
55:M9:38:ARG:O	55:M9:42:ARG:HD3	2.17	0.45
55:M9:47:ASN:OD1	55:M9:49:THR:HG22	5.94	0.45
62:N6:51:ARG:HG2	62:N6:115:ARG:HH21	4.09	0.45
62:N6:37:LYS:CD	62:N6:37:LYS:H	2.56	0.45
66:O0:74:ASN:HA	66:O0:77:LEU:HB3	2.70	0.45
66:O0:86:ARG:HE	66:O0:86:ARG:HB3	2.80	0.45
68:O2:23:ASP:OD1	68:O2:23:ASP:N	2.49	0.45
68:O2:64:LYS:HE2	68:O2:65:PHE:CZ	3.24	0.45
70:O4:21:LYS:HE2	70:O4:23:VAL:HG23	6.24	0.45
73:O7:45:ARG:NH1	73:O7:47:TYR:HE2	3.95	0.45
75:O9:24:PRO:O	75:O9:27:ILE:HG13	2.15	0.45
79:Q3:18:TYR:H	36:5:2131:A:N6	227.11	0.45
79:Q3:20:SER:O	79:Q3:24:ARG:N	2.76	0.45
3:S1:126:THR:CG2	3:S1:136:ARG:HE	2.69	0.45
4:S2:125:ILE:HG22	4:S2:126:ARG:N	2.99	0.45
6:S4:85:GLY:O	6:S4:101:LEU:HB2	2.87	0.45
6:S4:52:LEU:HB3	6:S4:54:TYR:CD2	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:68:ARG:NH1	6:S4:76:VAL:HG11	2.90	0.45
9:S7:143:LEU:C	9:S7:145:GLY:H	2.60	0.45
9:S7:173:TYR:HE1	9:S7:179:LYS:HB2	1.80	0.45
35:SM:58:GLU:OE2	35:SM:62:ARG:HD2	5.67	0.45
20:C8:145:ARG:CB	35:SM:68:ARG:HH12	4.11	0.45
34:SR:74:THR:HG1	34:SR:78:ALA:H	1.64	0.45
36:1:1404:G:C6	36:1:1408:G:C6	3.04	0.45
36:1:2108:C:H1'	36:1:3344:A:H8	1.82	0.45
36:1:2796:G:H4'	36:1:2798:C:C6	2.51	0.45
36:1:2834:G:OP1	85:1:3727:OHX:N3	2.49	0.45
36:1:3095:U:H2'	36:1:3096:C:C6	2.51	0.45
36:1:3096:C:H1'	40:L3:327:CYS:SG	2.56	0.45
36:1:3217:C:H2'	36:1:3217:C:O2	2.14	0.45
36:1:1345:G:O6	85:1:3497:OHX:N1	2.49	0.45
36:1:400:G:H4'	36:1:403:C:O2	2.16	0.45
1:2:1012:U:O3'	39:L2:248:GLY:HA2	2.16	0.45
1:2:1657:U:H4'	1:2:1658:G:O5'	2.16	0.45
1:2:28:A:H2'	1:2:29:U:C6	2.52	0.45
1:2:542:A:HO2'	1:2:543:C:P	2.38	0.45
1:2:918:U:H2'	1:2:919:A:C8	2.52	0.45
38:4:131:A:H2'	38:4:132:G:H8	1.81	0.45
36:5:1256:G:C2	36:5:1257:C:C2	3.04	0.45
1:6:1645:G:HO2'	36:5:2259:A:H61	1.58	0.45
36:5:2393:G:O2'	36:5:2394:G:OP2	2.32	0.45
36:5:3007:U:C2	36:5:3008:A:C8	3.05	0.45
36:5:3122:A:H2'	36:5:3123:A:H5'	1.98	0.45
40:L3:130:PHE:CE1	36:5:3149:G:H4'	221.44	0.45
36:5:3160:U:C2	36:5:3291:G:N2	2.84	0.45
36:5:3202:G:H2'	36:5:3203:U:C6	2.52	0.45
31:D9:41:GLN:HB3	1:6:1433:G:C4	402.60	0.45
17:C5:115:TYR:CZ	1:6:1556:A:H5''	384.36	0.45
1:6:221:A:C2'	1:6:222:A:H5'	2.47	0.45
1:6:775:G:C2	1:6:786:C:C4	3.04	0.45
1:6:831:U:OP2	1:6:831:U:H6	2.00	0.45
1:6:996:U:H2'	1:6:997:G:H8	1.82	0.45
37:7:106:U:C4	37:7:107:C:C4	3.05	0.45
12:C0:3:MET:HG3	12:C0:4:PRO:O	4.54	0.45
16:C4:25:ASP:H	16:C4:55:SER:HB3	1.81	0.45
18:C6:139:GLN:HA	1:6:1579:U:O2'	360.35	0.45
20:C8:8:GLN:HB3	20:C8:9:GLY:H	3.38	0.45
22:D0:52:LYS:HA	22:D0:92:ASP:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:71:ARG:HE	29:D7:4:VAL:HG11	1.89	0.45
26:D4:35:VAL:O	26:D4:36:SER:HB3	2.16	0.45
1:2:1793:G:N2	28:D6:76:SER:OG	2.41	0.45
39:L2:46:LYS:HD2	39:L2:46:LYS:HA	2.29	0.45
40:L3:211:GLN:HB3	40:L3:212:ASN:ND2	2.32	0.45
40:L3:352:GLU:HG2	40:L3:354:VAL:HG12	1.97	0.45
41:L4:8:VAL:HB	41:L4:16:THR:HG21	3.20	0.45
41:L4:8:VAL:HG12	41:L4:9:HIS:H	1.82	0.45
42:L5:76:ALA:CB	42:L5:109:THR:HG22	2.46	0.45
42:L5:131:LEU:HA	42:L5:131:LEU:HD13	2.65	0.45
42:L5:152:ARG:HD3	36:5:2663:G:H5'	274.98	0.45
42:L5:261:THR:OG1	42:L5:264:GLN:HG3	2.24	0.45
36:1:1353:U:O2	43:L6:10:TYR:HB2	2.15	0.45
43:L6:144:ALA:O	43:L6:147:ALA:HB3	2.29	0.45
44:L7:25:GLN:N	44:L7:28:ALA:HB3	2.31	0.45
44:L7:63:ILE:HG22	44:L7:67:ARG:HD2	3.61	0.45
45:L8:238:LEU:HB3	45:L8:242:ALA:HB3	2.77	0.45
47:M0:6:ALA:HB3	36:5:2855:U:OP2	285.63	0.45
48:M1:101:ASN:HB3	48:M1:130:VAL:HA	2.04	0.45
49:M3:171:ARG:HE	49:M3:171:ARG:HB3	3.72	0.45
49:M3:174:ARG:CZ	72:O6:9:ILE:HD13	2.47	0.45
51:M5:39:ALA:HB3	51:M5:61:ILE:HG22	1.98	0.45
52:M6:188:SER:O	52:M6:192:LYS:HG2	2.61	0.45
53:M7:66:SER:O	53:M7:67:ILE:HD12	2.17	0.45
55:M9:102:LEU:O	55:M9:106:LEU:HB2	2.97	0.45
59:N3:13:ILE:CD1	59:N3:54:LEU:HB3	3.85	0.45
62:N6:82:VAL:HG12	62:N6:85:VAL:H	1.92	0.45
36:1:1369:A:H5''	64:N8:21:ARG:HH11	1.80	0.45
71:O5:85:THR:HG22	71:O5:88:LEU:H	2.62	0.45
73:O7:66:TYR:OH	73:O7:73:ARG:NH2	3.61	0.45
78:Q2:12:CYS:SG	78:Q2:74:CYS:SG	3.10	0.45
2:S0:82:GLY:O	2:S0:86:VAL:HG13	2.26	0.45
3:S1:123:ALA:HB2	3:S1:165:ARG:HG2	1.99	0.45
4:S2:53:ILE:HD13	4:S2:110:HIS:NE2	5.83	0.45
5:S3:65:ARG:O	5:S3:69:LEU:HG	2.15	0.45
5:S3:70:THR:HG22	5:S3:86:LEU:HB2	1.99	0.45
6:S4:151:ASP:HB3	6:S4:154:ILE:HG13	2.30	0.45
6:S4:170:THR:OG1	6:S4:170:THR:O	3.52	0.45
6:S4:199:GLU:N	6:S4:207:LEU:O	2.91	0.45
7:S5:116:HIS:O	7:S5:120:ILE:HG13	2.40	0.45
1:2:65:A:OP1	8:S6:174:LYS:HG2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:171:SER:O	10:S8:173:PRO:HD3	2.17	0.45
11:S9:158:PHE:CE1	11:S9:164:PHE:HB3	2.51	0.45
11:S9:73:GLY:O	11:S9:77:ILE:HG13	2.16	0.45
34:SR:195:HIS:CE1	34:SR:213:SER:HG	6.22	0.45
36:1:1103:A:H1'	36:1:1104:G:OP1	2.16	0.45
36:1:1385:C:HO2'	43:L6:2:SER:N	2.14	0.45
36:1:1498:A:H2'	36:1:1499:C:C6	2.51	0.45
36:1:1841:A:C6	36:1:1848:G:C6	3.04	0.45
36:1:2101:C:O2'	36:1:2102:U:H5''	2.16	0.45
36:1:2565:U:H2'	36:1:2566:C:H6	1.80	0.45
36:1:2374:C:N4	36:1:2941:A:N3	2.65	0.45
36:1:3094:A:OP1	59:N3:14:SER:HB3	2.17	0.45
36:1:3317:U:H4'	36:1:3318:G:O5'	2.16	0.45
36:1:3326:G:H2'	36:1:3327:G:C8	2.47	0.45
36:1:3327:G:C2	36:1:3328:G:C8	3.04	0.45
36:1:343:U:OP2	85:1:3420:OHX:N6	2.50	0.45
36:1:380:U:H2'	36:1:381:U:C6	2.51	0.45
1:2:131:C:OP1	85:2:1951:OHX:N1	2.49	0.45
1:2:138:A:N6	1:2:266:A:H61	2.14	0.45
1:2:350:U:O2	1:2:352:A:C6	2.70	0.45
37:3:57:G:C8	37:3:58:C:C5	3.05	0.45
38:4:102:U:H2'	38:4:103:G:C8	2.52	0.45
38:4:37:A:H5''	38:4:39:G:O4'	2.16	0.45
36:5:1066:G:OP1	85:5:3733:OHX:N2	2.49	0.45
52:M6:49:ARG:HH12	36:5:1193:A:P	279.32	0.45
36:5:1487:G:C2	36:5:1488:G:H1'	2.51	0.45
36:5:1819:U:H2'	36:5:1820:U:H5'	1.99	0.45
36:5:172:G:C6	36:5:247:C:N4	2.85	0.45
36:5:258:G:H2'	36:5:259:C:C6	2.51	0.45
57:N1:54:HIS:CD2	36:5:2724:U:H4'	229.02	0.45
36:5:3160:U:H2'	36:5:3161:C:C6	2.52	0.45
53:M7:97:ASN:ND2	36:5:388:G:N3	114.01	0.45
1:6:1512:G:O2'	1:6:1518:C:O4'	2.34	0.45
1:6:452:A:H3'	1:6:453:U:C5	2.51	0.45
1:6:565:C:H5''	1:6:566:C:C6	2.51	0.45
1:6:60:U:H5'	1:6:455:C:H42	1.81	0.45
56:N0:13:ARG:NH1	37:7:73:C:O2	305.97	0.45
20:C8:131:LEU:HA	20:C8:145:ARG:HH12	1.82	0.45
4:S2:222:TYR:CE2	23:D1:12:TYR:HD2	2.34	0.45
24:D2:11:LEU:HD12	24:D2:74:VAL:HB	1.98	0.45
25:D3:132:LEU:HA	25:D3:132:LEU:HD13	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:79:ASN:CG	25:D3:81:LYS:HG3	2.37	0.45
27:D5:89:ILE:HB	27:D5:101:TYR:CD1	2.51	0.45
31:D9:9:SER:HA	1:6:1451:C:OP1	410.61	0.45
39:L2:113:VAL:HG12	39:L2:166:ILE:HD13	2.12	0.45
39:L2:5:ILE:HG22	39:L2:208:ASP:O	2.17	0.45
40:L3:114:VAL:HG22	40:L3:163:HIS:CE1	2.52	0.45
41:L4:182:LEU:C	41:L4:184:SER:H	2.19	0.45
41:L4:29:PRO:HG3	41:L4:279:HIS:CG	2.61	0.45
42:L5:5:LYS:HD2	42:L5:5:LYS:HA	1.67	0.45
43:L6:153:PRO:O	43:L6:154:LEU:HB2	2.41	0.45
44:L7:233:GLU:HB3	44:L7:234:GLU:H	2.32	0.45
47:M0:129:VAL:HG12	47:M0:130:ASP:N	2.53	0.45
47:M0:210:ILE:HA	47:M0:217:PHE:HE2	2.28	0.45
49:M3:47:ALA:HB1	49:M3:48:PRO:CD	2.47	0.45
51:M5:154:PRO:C	51:M5:156:HIS:H	2.51	0.45
54:M8:178:ARG:HA	54:M8:178:ARG:HD2	2.07	0.45
54:M8:63:SER:O	54:M8:67:ILE:HG13	2.16	0.45
54:M8:62:VAL:HB	54:M8:83:VAL:HG11	2.78	0.45
54:M8:65:SER:OG	54:M8:90:ASP:OD2	2.28	0.45
56:N0:141:LYS:HA	56:N0:144:LEU:HD12	3.13	0.45
56:N0:41:TYR:O	56:N0:45:LEU:HB2	3.18	0.45
58:N2:23:THR:HA	58:N2:28:PHE:HB3	1.98	0.45
59:N3:127:PRO:O	59:N3:130:ALA:HB3	2.16	0.45
36:1:2916:U:C1'	59:N3:44:SER:HB3	2.47	0.45
61:N5:121:LYS:HD3	61:N5:123:TYR:CE1	2.98	0.45
63:N7:38:PHE:O	63:N7:40:HIS:ND1	2.35	0.45
64:N8:13:GLY:HA2	36:5:943:U:H3'	163.25	0.45
67:O1:29:ALA:HB3	67:O1:30:PRO:HD3	2.09	0.45
36:1:3058:U:O4	67:O1:65:LYS:HD2	2.17	0.45
68:O2:100:ILE:HG22	68:O2:105:ARG:HG3	1.98	0.45
68:O2:73:THR:OG1	68:O2:74:PHE:N	2.50	0.45
36:1:3275:U:H5'	69:O3:68:TRP:CZ2	2.51	0.45
69:O3:89:LEU:HA	69:O3:89:LEU:HD23	1.66	0.45
71:O5:13:SER:O	71:O5:14:LYS:C	2.77	0.45
38:4:38:U:C4	71:O5:89:ARG:HD2	2.52	0.45
72:O6:33:ALA:HB1	72:O6:38:LYS:NZ	2.31	0.45
75:O9:9:ILE:H	75:O9:9:ILE:HG12	2.55	0.45
78:Q2:26:THR:O	78:Q2:71:ARG:N	2.35	0.45
79:Q3:47:VAL:HA	79:Q3:56:THR:O	2.16	0.45
3:S1:175:GLU:HG3	3:S1:187:LYS:HD3	4.38	0.45
4:S2:95:ARG:HD3	4:S2:97:ARG:HD2	5.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:230:GLU:HB2	6:S4:233:LYS:HB2	1.97	0.45
7:S5:32:GLU:HG2	7:S5:33:VAL:N	2.32	0.45
8:S6:64:LYS:O	8:S6:67:VAL:HG22	2.17	0.45
9:S7:83:LYS:HB3	9:S7:83:LYS:HE2	1.69	0.45
10:S8:164:ARG:O	10:S8:165:LEU:HD23	3.23	0.45
11:S9:154:LYS:HB2	11:S9:154:LYS:HE3	1.82	0.45
20:C8:120:ARG:HD2	35:SM:61:ILE:HD11	1.98	0.45
34:SR:192:PHE:HD1	34:SR:223:TRP:CE3	2.34	0.45
36:1:3020:U:H2'	36:1:3033:A:N6	2.31	0.45
36:1:320:G:H2'	36:1:321:C:H6	1.81	0.45
85:1:3592:OHX:N4	85:1:3702:OHX:N1	2.65	0.45
36:1:3049:A:OP2	85:1:3720:OHX:N3	2.49	0.45
36:1:914:A:C2	39:L2:204:MET:HB3	2.52	0.45
1:2:1623:C:H2'	1:2:1624:C:H6	1.82	0.45
1:2:67:A:C2	1:2:69:G:H1'	2.52	0.45
1:2:704:C:N4	1:2:735:C:C2	2.85	0.45
1:2:876:G:C6	1:2:936:G:C6	3.05	0.45
1:2:885:G:H5''	1:2:886:U:OP2	2.17	0.45
37:3:53:U:O2'	37:3:55:A:N7	2.48	0.45
36:5:1050:U:O2'	36:5:1051:U:O5'	2.31	0.45
36:5:1310:G:O6	85:5:3530:OHX:N4	2.50	0.45
36:5:174:C:H2'	36:5:175:C:O4'	2.16	0.45
78:Q2:98:LYS:HD2	36:5:2656:A:O5'	250.76	0.45
36:5:3045:G:H1	36:5:3096:C:H42	1.64	0.45
44:L7:60:ARG:NH2	36:5:516:A:O3'	304.50	0.45
36:5:572:A:C5	36:5:573:C:C5	3.05	0.45
36:5:651:G:H2'	36:5:652:G:O4'	2.16	0.45
1:6:151:G:H2'	1:6:152:U:C6	2.52	0.45
85:6:1975:OHX:N4	85:6:2025:OHX:N1	2.64	0.45
1:6:225:A:N6	1:6:226:A:H62	2.14	0.45
25:D3:108:GLY:HA2	1:6:600:U:OP2	357.71	0.45
1:6:808:U:H2'	1:6:809:A:C8	2.52	0.45
37:7:35:C:H42	37:7:46:A:H1'	1.82	0.45
37:7:78:U:OP1	85:7:203:OHX:N5	2.50	0.45
37:7:90:U:C4	37:7:91:G:C5	3.05	0.45
13:C1:17:PRO:HD2	1:6:249:U:O4	294.12	0.45
13:C1:21:ASN:ND2	13:C1:31:THR:HA	3.11	0.45
16:C4:47:LYS:HE2	16:C4:62:LEU:O	5.59	0.45
7:S5:37:GLN:OE1	18:C6:53:LEU:HD22	2.56	0.45
21:C9:57:ARG:HH22	21:C9:80:TYR:HB3	2.47	0.45
30:D8:42:ARG:CZ	30:D8:56:LEU:HD22	3.23	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:37:ARG:HB3	40:L3:186:GLY:HA2	1.98	0.45
42:L5:85:ARG:HD2	42:L5:254:LYS:HE2	7.95	0.45
36:1:3112:G:O2'	46:L9:70:THR:HB	2.17	0.45
47:M0:155:ALA:O	47:M0:157:TYR:N	2.84	0.45
36:1:2854:U:OP1	47:M0:64:ALA:HB2	2.17	0.45
50:M4:134:ALA:O	50:M4:136:ALA:N	2.47	0.45
52:M6:121:PRO:C	52:M6:123:ALA:H	2.53	0.45
54:M8:159:LYS:HB3	54:M8:159:LYS:HE2	1.77	0.45
57:N1:54:HIS:CE1	57:N1:55:LYS:HG2	2.52	0.45
58:N2:37:LEU:HD23	58:N2:41:ILE:HD11	1.98	0.45
58:N2:36:TYR:OH	58:N2:82:LYS:HG2	2.16	0.45
60:N4:31:PHE:HZ	60:N4:40:PHE:CD1	2.34	0.45
61:N5:40:LEU:HB3	61:N5:41:ALA:H	3.96	0.45
61:N5:80:ASN:ND2	61:N5:126:LEU:O	2.49	0.45
69:O3:16:TYR:CD2	69:O3:25:PRO:HA	2.99	0.45
36:1:3173:G:N2	69:O3:95:GLY:O	2.48	0.45
71:O5:85:THR:O	71:O5:89:ARG:HB2	2.16	0.45
4:S2:99:LYS:HB2	4:S2:117:THR:HB	2.81	0.45
6:S4:86:PHE:CE1	6:S4:87:MET:HG2	2.52	0.45
7:S5:44:ASN:OD1	7:S5:70:VAL:HG12	2.17	0.45
9:S7:105:THR:OG1	9:S7:106:SER:N	4.63	0.45
10:S8:166:TYR:O	10:S8:183:ILE:HD12	6.50	0.45
34:SR:294:TRP:CZ3	34:SR:301:LEU:HB2	2.52	0.45
34:SR:95:ALA:O	34:SR:97:GLY:N	4.86	0.45
36:1:1349:G:H5'	41:L4:291:ASN:HD21	1.82	0.45
36:1:2656:A:C4	36:1:2658:G:N7	2.85	0.45
36:1:2712:U:H2'	36:1:2713:U:C6	2.52	0.45
85:1:3592:OHX:N6	85:1:3702:OHX:N5	2.65	0.45
1:2:1268:G:C2	1:2:1270:G:N7	2.84	0.45
1:2:1291:G:H5'	4:S2:119:LYS:HD3	1.99	0.45
1:2:1590:G:H1	1:2:1606:C:H42	1.64	0.45
1:2:755:A:H2'	1:2:756:A:O4'	2.16	0.45
1:2:759:U:OP1	85:S9:201:OHX:N1	2.50	0.45
36:5:184:U:H2'	36:5:185:C:C6	2.52	0.45
36:5:1943:C:H42	36:5:2105:G:H1	1.64	0.45
36:5:3159:C:H2'	36:5:3160:U:H6	1.81	0.45
52:M6:168:TYR:OH	36:5:3190:C:OP1	301.40	0.45
10:S8:161:SER:OG	36:5:3353:G:OP1	233.28	0.45
85:5:3559:OHX:N3	85:5:3704:OHX:N4	2.65	0.45
36:5:618:C:H2'	36:5:619:A:C8	2.52	0.45
36:5:65:A:C4	36:5:110:G:N7	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:915:A:C5	36:5:917:A:H1'	2.51	0.45
1:6:1071:U:H2'	1:6:1072:C:C6	2.52	0.45
1:6:1175:U:H2'	1:6:1176:G:C8	2.52	0.45
1:6:189:C:C2'	1:6:190:C:H5'	2.46	0.45
1:6:1238:A:OP2	85:6:1951:OHX:N1	2.50	0.45
1:6:607:G:H5'	1:6:613:G:N2	2.31	0.45
1:6:985:G:N2	1:6:1017:U:H1'	2.32	0.45
16:C4:129:LYS:HB2	1:6:990:C:H5''	282.54	0.45
42:L5:270:LYS:HD3	37:7:22:A:N6	323.85	0.45
57:N1:28:SER:HG	37:7:9:C:P	268.76	0.45
61:N5:56:ARG:NH2	38:8:135:G:OP2	82.20	0.45
12:C0:64:TYR:HB3	12:C0:66:TYR:CE2	2.51	0.45
13:C1:64:VAL:HG12	13:C1:129:ARG:NH1	2.53	0.45
14:C2:131:ASP:OD1	14:C2:132:GLU:N	2.49	0.45
16:C4:125:SER:HB2	1:6:926:A:C2	280.85	0.45
16:C4:81:VAL:HG13	16:C4:115:ILE:HG23	3.23	0.45
20:C8:66:LEU:HA	20:C8:69:ILE:HD12	1.98	0.45
21:C9:28:LEU:HD12	21:C9:29:GLU:H	1.81	0.45
25:D3:111:GLY:O	25:D3:121:ARG:HD2	5.10	0.45
25:D3:93:LEU:O	25:D3:96:VAL:HG23	2.16	0.45
26:D4:12:VAL:HG22	26:D4:23:PHE:HB3	3.02	0.45
85:2:1940:OHX:N4	85:D9:102:OHX:N6	2.65	0.45
32:E0:38:LEU:O	32:E0:42:ARG:HB2	2.70	0.45
41:L4:241:GLY:O	41:L4:243:HIS:ND1	3.83	0.45
47:M0:95:HIS:C	47:M0:95:HIS:CD2	3.90	0.45
52:M6:93:ALA:O	52:M6:95:GLY:N	2.49	0.45
54:M8:178:ARG:HD3	64:N8:50:PRO:HB2	2.25	0.45
55:M9:154:ALA:C	55:M9:156:ASN:H	3.32	0.45
56:N0:137:ARG:HD2	56:N0:137:ARG:N	4.36	0.45
38:4:73:U:OP2	62:N6:75:ARG:HB2	2.17	0.45
66:O0:104:LEU:HD12	66:O0:105:ALA:H	1.82	0.45
66:O0:45:ALA:O	66:O0:48:THR:HG22	2.17	0.45
67:O1:50:ARG:HD2	67:O1:90:PHE:HB3	4.48	0.45
36:1:1589:A:O3'	70:O4:15:THR:HG21	2.17	0.45
73:O7:88:ALA:N	85:O7:102:OHX:N1	2.62	0.45
74:O8:43:PHE:HB2	74:O8:54:LEU:HB3	2.00	0.45
74:O8:66:ILE:HA	74:O8:69:LEU:HD23	1.99	0.45
79:Q3:8:VAL:HG23	79:Q3:9:GLY:H	2.58	0.45
2:S0:172:LEU:HD22	2:S0:176:LEU:HG	2.32	0.45
3:S1:105:PHE:CE2	3:S1:213:ARG:HA	2.52	0.45
4:S2:41:LEU:O	4:S2:45:VAL:HG23	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:148:ARG:HG2	6:S4:148:ARG:H	2.31	0.45
6:S4:19:LEU:HD23	6:S4:19:LEU:HA	1.77	0.45
9:S7:114:ARG:NH2	1:6:637:C:O2	351.10	0.45
10:S8:37:LYS:NZ	10:S8:93:THR:HB	2.32	0.45
11:S9:126:ARG:O	11:S9:129:ILE:N	3.15	0.45
35:SM:54:PRO:HB2	35:SM:59:GLY:HA2	2.29	0.45
34:SR:248:ASN:ND2	34:SR:298:GLY:HA3	2.88	0.45
34:SR:63:GLY:HA3	34:SR:90:ARG:NH1	2.80	0.45
36:1:1577:G:H2'	36:1:1578:C:C1'	2.47	0.45
36:1:1578:C:H3'	36:1:1579:C:C5	2.51	0.45
36:1:1631:C:OP2	63:N7:48:ARG:NH2	2.50	0.45
36:1:278:U:H2'	36:1:279:U:O4'	2.16	0.45
36:1:282:G:C8	36:1:282:G:H3'	2.52	0.45
36:1:2945:G:H8	36:1:2950:G:O6	2.00	0.45
36:1:3095:U:H2'	36:1:3096:C:H6	1.82	0.45
36:1:3122:A:N1	46:L9:70:THR:HG21	2.32	0.45
36:1:3209:A:OP2	56:N0:161:LYS:HD2	2.16	0.45
1:2:1175:U:H2'	1:2:1176:G:C8	2.52	0.45
1:2:800:U:O4	85:2:1932:OHX:N5	2.50	0.45
1:2:197:A:H61	10:S8:138:ASN:ND2	2.15	0.45
1:2:461:G:H2'	1:2:462:G:C8	2.52	0.45
1:2:809:A:N6	1:2:810:G:O6	2.50	0.45
38:4:122:U:H2'	38:4:123:G:C8	2.51	0.45
36:5:1439:U:C2	36:5:1440:G:C8	3.05	0.45
36:5:1696:A:H2'	36:5:1697:A:C8	2.52	0.45
36:5:244:G:H2'	36:5:245:U:H6	1.81	0.45
36:5:29:C:H4'	36:5:62:A:H4'	1.98	0.45
46:L9:96:HIS:CD2	36:5:3024:A:H5''	340.13	0.45
36:5:1877:U:OP2	85:5:3459:OHX:N1	2.50	0.45
36:5:97:U:H2'	36:5:98:G:H5'	1.98	0.45
1:6:1491:U:H5'	1:6:1492:A:OP1	2.17	0.45
1:6:1492:A:O2'	1:6:1493:A:C8	2.70	0.45
1:6:1699:G:C2'	1:6:1700:C:H5'	2.46	0.45
1:6:760:A:OP2	85:6:1938:OHX:N5	2.50	0.45
1:6:237:C:N3	1:6:834:G:H1'	2.31	0.45
1:6:853:G:H2'	1:6:854:U:H6	1.80	0.45
38:8:37:A:H5''	38:8:39:G:O4'	2.17	0.45
15:C3:92:ILE:O	15:C3:96:VAL:HG23	2.16	0.45
17:C5:31:GLU:O	17:C5:35:LYS:HB2	2.17	0.45
5:S3:211:PRO:HG3	19:C7:20:TYR:CZ	2.52	0.45
19:C7:53:TYR:CE1	19:C7:57:LEU:HD21	2.66	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:27:THR:HB	22:D0:88:LYS:CG	2.47	0.45
24:D2:47:ILE:HG22	24:D2:65:LEU:HB3	1.99	0.45
27:D5:56:THR:N	27:D5:103:ARG:HH11	2.11	0.45
40:L3:339:ARG:CZ	40:L3:342:LEU:HD21	2.46	0.45
41:L4:198:ARG:HD3	41:L4:199:TRP:NE1	2.31	0.45
41:L4:311:HIS:CE1	41:L4:314:LYS:HA	2.52	0.45
42:L5:178:ASN:OD1	42:L5:178:ASN:N	2.54	0.45
42:L5:21:ARG:NH1	42:L5:25:GLU:OE2	2.50	0.45
42:L5:41:LYS:HD2	42:L5:41:LYS:HA	1.68	0.45
41:L4:329:PRO:HB3	44:L7:41:ARG:NH1	3.22	0.45
45:L8:134:TYR:HE1	45:L8:192:GLN:NE2	3.57	0.45
47:M0:48:LEU:HD22	47:M0:49:CYS:N	2.32	0.45
51:M5:197:LEU:HD12	51:M5:197:LEU:HA	1.93	0.45
53:M7:126:ARG:H	53:M7:126:ARG:HG2	4.52	0.45
54:M8:140:LEU:HD23	54:M8:140:LEU:HA	1.80	0.45
55:M9:101:VAL:HG13	55:M9:104:ARG:HH12	1.81	0.45
55:M9:110:ARG:O	55:M9:112:ALA:N	2.49	0.45
56:N0:7:TYR:CZ	56:N0:34:GLU:HG2	2.51	0.45
57:N1:147:VAL:HA	57:N1:148:PRO:HD3	1.81	0.45
62:N6:39:LEU:HA	62:N6:42:GLN:HB2	3.06	0.45
64:N8:126:LYS:HB3	64:N8:148:ILE:HD13	2.72	0.45
64:N8:90:TYR:CD1	64:N8:100:PRO:HG3	2.52	0.45
69:O3:50:ALA:HB1	69:O3:66:VAL:HG11	1.98	0.45
49:M3:94:GLY:HA3	71:O5:116:TYR:CZ	2.52	0.45
2:S0:163:ASN:C	2:S0:165:ARG:H	2.27	0.45
2:S0:32:HIS:O	2:S0:34:GLU:N	2.47	0.45
4:S2:203:LYS:O	4:S2:206:THR:HG23	4.34	0.45
17:C5:119:PHE:HA	35:SM:57:ASN:ND2	2.66	0.45
34:SR:289:ALA:HB2	34:SR:305:TYR:CE2	4.03	0.45
36:1:2294:U:O2	36:1:2296:A:H8	2.00	0.45
36:1:2424:A:H8	36:1:2424:A:O5'	1.99	0.45
36:1:3103:A:OP2	85:1:3706:OHX:N1	2.50	0.45
36:1:3191:G:C2	36:1:3202:G:C2	3.05	0.45
36:1:3220:G:C5	36:1:3266:G:C2	3.05	0.45
36:1:899:U:O4	85:1:3473:OHX:N4	2.50	0.45
1:2:1795:U:H3'	28:D6:5:ARG:NH1	2.31	0.45
1:2:23:G:H2'	1:2:24:U:H6	1.82	0.45
1:2:868:G:C2	1:2:869:A:C8	3.05	0.45
36:1:657:A:H5'	38:4:17:A:O2'	2.17	0.45
36:5:1004:U:C2	36:5:1005:G:C8	3.05	0.45
36:5:1253:U:O2	36:5:1263:A:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1441:G:O2'	36:5:1442:U:H5'	2.17	0.45
36:5:1672:U:O2'	36:5:1673:G:H5'	2.16	0.45
36:5:1683:A:C5	36:5:1684:U:C5	3.05	0.45
36:5:2101:C:O2'	36:5:2102:U:P	2.75	0.45
36:5:2309:A:H4'	85:5:3703:OHX:N4	2.32	0.45
36:5:3046:A:C2	36:5:3096:C:N3	2.85	0.45
36:5:317:A:C6	36:5:318:A:C6	3.04	0.45
36:5:3294:A:H2'	36:5:3295:A:O4'	2.16	0.45
36:5:335:G:N2	36:5:336:A:H1'	2.32	0.45
36:5:2131:A:OP2	85:5:3499:OHX:N5	2.50	0.45
85:5:3537:OHX:N3	85:5:3585:OHX:N6	2.65	0.45
36:5:903:U:H2'	36:5:904:A:H8	1.80	0.45
36:5:929:A:H2'	36:5:930:U:C6	2.52	0.45
64:N8:29:PRO:HB3	36:5:963:G:O2'	179.36	0.45
1:6:151:G:H22	1:6:163:G:N2	2.15	0.45
1:6:1552:U:H2'	1:6:1553:G:O4'	2.17	0.45
1:6:225:A:N1	1:6:226:A:N6	2.65	0.45
1:6:296:U:H2'	1:6:297:U:O4'	2.17	0.45
1:6:492:A:H2'	1:6:493:U:H5''	1.99	0.45
1:6:53:G:H2'	1:6:54:C:C6	2.51	0.45
1:6:71:A:C4	1:6:72:A:H1'	2.51	0.45
1:6:725:U:H2'	1:6:726:C:C6	2.51	0.45
16:C4:43:THR:OG1	16:C4:46:MET:HG3	2.85	0.45
20:C8:112:ASP:O	20:C8:115:ARG:N	2.50	0.45
1:2:1503:A:C6	20:C8:84:TRP:CD1	3.04	0.45
24:D2:53:ILE:HB	24:D2:60:LYS:HB2	4.37	0.45
25:D3:41:SER:HA	25:D3:42:PRO:HD3	1.93	0.45
26:D4:81:GLU:HA	26:D4:84:LYS:HG2	1.98	0.45
36:1:3294:A:P	40:L3:126:LYS:HZ2	2.39	0.45
40:L3:218:ILE:HG13	40:L3:276:THR:HG23	3.79	0.45
41:L4:159:ILE:HG23	41:L4:164:GLU:HB3	2.53	0.45
43:L6:5:LYS:O	43:L6:6:ALA:HB3	2.17	0.45
47:M0:190:VAL:HG13	47:M0:197:VAL:HG21	1.99	0.45
48:M1:20:ASN:ND2	48:M1:20:ASN:O	2.50	0.45
49:M3:180:ARG:O	49:M3:180:ARG:HG2	4.12	0.45
41:L4:105:THR:O	49:M3:26:PHE:HZ	1.99	0.45
49:M3:45:LYS:HE3	49:M3:45:LYS:HB2	4.34	0.45
49:M3:98:ASP:OD1	49:M3:100:ARG:NH1	3.37	0.45
52:M6:93:ALA:O	52:M6:96:LYS:N	2.50	0.45
53:M7:40:GLU:HG2	53:M7:42:THR:HG23	1.99	0.45
55:M9:4:LEU:O	55:M9:7:GLN:N	3.62	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:138:GLN:C	56:N0:140:VAL:H	2.50	0.45
56:N0:154:HIS:HA	56:N0:170:THR:HB	1.98	0.45
57:N1:68:THR:HG22	57:N1:71:SER:O	3.28	0.45
64:N8:47:LYS:HE2	64:N8:48:TYR:CE2	4.12	0.45
64:N8:7:LYS:C	64:N8:9:ARG:H	2.57	0.45
66:O0:104:LEU:HD12	66:O0:105:ALA:N	2.61	0.45
66:O0:34:LEU:HD12	66:O0:34:LEU:HA	1.70	0.45
67:O1:46:THR:HG21	67:O1:91:SER:HB2	3.03	0.45
70:O4:88:ARG:NH1	36:5:2556:C:OP1	200.56	0.45
72:O6:51:SER:O	72:O6:55:ARG:HG3	3.46	0.45
73:O7:52:LYS:HG2	73:O7:56:ARG:NH1	2.41	0.45
3:S1:119:THR:HB	3:S1:143:THR:HG23	2.07	0.45
7:S5:41:LYS:HE2	7:S5:41:LYS:HB3	2.56	0.45
8:S6:164:LYS:HB3	8:S6:167:LYS:O	2.46	0.45
9:S7:28:GLU:HG2	9:S7:35:LYS:HA	4.31	0.45
11:S9:49:LEU:HD22	11:S9:53:ARG:HD3	2.75	0.45
35:SM:84:LYS:HG2	35:SM:86:ASN:N	2.32	0.45
1:2:577:G:C2	35:SM:99:LYS:HG2	2.52	0.45
34:SR:62:LYS:O	34:SR:92:TRP:HH2	2.00	0.45
34:SR:84:SER:OG	34:SR:85:TRP:N	2.62	0.45
34:SR:93:ASP:HB3	34:SR:96:THR:HG22	1.99	0.45
36:1:139:G:H2'	36:1:140:C:O4'	2.16	0.45
36:1:1806:A:OP2	85:1:3519:OHX:N4	2.50	0.45
36:1:1823:A:H2'	36:1:1824:U:C6	2.51	0.45
36:1:250:U:H5''	36:1:251:G:H5''	1.98	0.45
36:1:3000:A:H2'	36:1:3001:C:C6	2.53	0.45
36:1:3121:U:C1'	36:1:3122:A:H5''	2.46	0.45
36:1:3268:A:O2'	36:1:3269:U:H2'	2.17	0.45
36:1:368:G:O2'	36:1:369:A:H5'	2.17	0.45
85:1:3592:OHX:N2	85:1:3702:OHX:N5	2.64	0.45
36:1:711:A:N7	36:1:712:G:H1'	2.32	0.45
36:1:95:A:OP1	64:N8:52:TYR:OH	2.20	0.45
1:2:1000:C:H6	1:2:1003:A:H8	1.64	0.45
1:2:1142:A:H5''	28:D6:2:PRO:HG3	1.99	0.45
1:2:1451:C:H2'	1:2:1452:U:H6	1.82	0.45
1:2:1567:U:H2'	1:2:1568:C:H5'	1.98	0.45
1:2:1608:U:O3'	18:C6:73:GLY:HA3	2.17	0.45
1:2:1695:G:N2	1:2:1706:C:H41	2.15	0.45
1:2:979:A:H2'	1:2:980:G:O4'	2.17	0.45
36:5:1004:U:N3	36:5:1005:G:N7	2.65	0.45
36:5:106:A:N3	36:5:325:A:O2'	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1214:U:H2'	36:5:1215:U:C6	2.52	0.45
36:5:1764:U:H3'	36:5:1765:U:H5''	1.99	0.45
36:5:1816:A:C2'	36:5:1817:G:H5''	2.47	0.45
36:5:2247:G:N3	36:5:2271:A:H2	2.14	0.45
36:5:342:A:O2'	85:5:3427:OHX:N6	2.50	0.45
69:O3:86:ARG:HH12	36:5:498:A:H5'	216.30	0.45
41:L4:93:MET:HB2	36:5:658:G:N2	145.56	0.45
36:5:703:G:C6	36:5:704:U:C4	3.05	0.45
36:5:359:U:H4'	36:5:817:A:N6	2.32	0.45
1:6:1265:G:N7	85:6:2048:OHX:N6	2.65	0.45
1:6:1643:U:H2'	1:6:1644:C:O4'	2.17	0.45
1:6:583:C:OP1	85:6:1904:OHX:N6	2.50	0.45
12:C0:31:LYS:HA	12:C0:37:THR:O	2.17	0.45
13:C1:71:LEU:HD11	13:C1:137:PHE:CZ	3.19	0.45
1:2:1228:G:OP1	14:C2:119:SER:HB3	2.17	0.45
15:C3:129:TYR:HB3	15:C3:134:VAL:HG22	1.98	0.45
15:C3:135:LEU:HD13	15:C3:139:TRP:CD2	3.18	0.45
15:C3:15:ALA:HB2	29:D7:20:LYS:HD3	4.93	0.45
20:C8:38:VAL:HG12	20:C8:42:TYR:CD2	2.52	0.45
21:C9:108:LEU:HB3	21:C9:114:VAL:HG22	5.97	0.45
22:D0:38:SER:O	22:D0:41:ILE:N	3.22	0.45
25:D3:69:ARG:NH1	25:D3:116:ASP:OD2	2.50	0.45
26:D4:91:LEU:HA	26:D4:96:LEU:HD12	1.98	0.45
30:D8:32:PHE:O	30:D8:34:GLU:N	4.00	0.45
33:E1:130:VAL:HG11	33:E1:143:LYS:HG2	1.99	0.45
40:L3:241:LYS:HE2	36:5:874:U:O5'	213.04	0.45
41:L4:361:HIS:ND1	57:N1:150:THR:HG21	5.86	0.45
42:L5:178:ASN:HA	42:L5:183:TRP:CD1	3.22	0.45
42:L5:86:TYR:HB3	42:L5:246:ALA:HB3	1.99	0.45
43:L6:69:PHE:HB2	43:L6:138:GLN:NE2	3.13	0.45
47:M0:46:PHE:HB2	47:M0:139:ARG:HG3	1.97	0.45
48:M1:137:ARG:O	48:M1:141:ARG:HG2	3.40	0.45
48:M1:28:ASP:HA	48:M1:31:THR:HG23	5.48	0.45
49:M3:4:SER:C	49:M3:5:LYS:HG2	2.37	0.45
51:M5:178:HIS:CD2	51:M5:179:LYS:HG3	2.57	0.45
51:M5:63:ARG:NH2	51:M5:131:GLU:OE2	2.50	0.45
52:M6:177:LYS:HB3	52:M6:177:LYS:HE2	2.57	0.45
52:M6:35:VAL:HG21	52:M6:80:PHE:HE2	1.82	0.45
52:M6:98:ALA:HA	52:M6:101:ARG:HH11	2.68	0.45
53:M7:119:VAL:HA	53:M7:145:HIS:O	2.34	0.45
54:M8:40:THR:C	54:M8:42:ALA:N	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:M9:175:GLN:O	55:M9:179:GLU:N	2.50	0.45
57:N1:120:LYS:C	57:N1:122:GLN:H	2.48	0.45
59:N3:10:LYS:HE3	59:N3:13:ILE:HG23	4.36	0.45
59:N3:23:MET:HB2	59:N3:98:ASN:C	2.37	0.45
61:N5:100:LYS:HZ2	61:N5:107:VAL:H	1.65	0.45
62:N6:18:ALA:O	62:N6:22:ALA:HB2	2.17	0.45
64:N8:14:HIS:ND1	68:O2:36:LYS:HE2	2.53	0.45
70:O4:35:VAL:HG12	70:O4:36:LYS:O	2.16	0.45
2:S0:3:LEU:HA	2:S0:4:PRO:HD2	2.25	0.45
4:S2:140:ARG:HD2	23:D1:10:GLU:OE1	4.24	0.45
10:S8:184:LEU:HD12	10:S8:184:LEU:HA	1.78	0.45
10:S8:52:ASN:OD1	10:S8:52:ASN:N	4.03	0.45
11:S9:82:ARG:NH1	11:S9:149:ARG:HD3	7.16	0.45
11:S9:81:VAL:C	11:S9:83:VAL:H	2.64	0.45
34:SR:133:VAL:HG12	34:SR:141:LEU:HD12	3.13	0.45
34:SR:209:THR:O	34:SR:225:LEU:N	2.69	0.45
34:SR:23:LEU:HG	34:SR:291:SER:HB2	3.01	0.45
36:1:2206:G:N2	36:1:2237:C:N3	2.52	0.44
36:1:3150:A:H2'	36:1:3151:U:O4'	2.17	0.44
36:1:3365:U:H2'	36:1:3366:G:C8	2.52	0.44
36:1:799:G:O6	85:1:3518:OHX:N5	2.50	0.44
36:1:812:G:C5	36:1:813:G:C8	3.05	0.44
1:2:1120:U:H2'	1:2:1121:C:C6	2.53	0.44
1:2:1127:G:OP1	77:Q1:11:ARG:NH2	2.50	0.44
1:2:1282:U:H2'	1:2:1283:U:H6	1.81	0.44
1:2:1584:G:H22	1:2:1611:A:P	2.39	0.44
1:2:1641:C:H42	1:2:1760:G:H1	1.65	0.44
1:2:1796:C:C5	28:D6:6:ALA:N	2.85	0.44
85:2:1922:OHX:N4	85:2:1977:OHX:N3	2.65	0.44
1:2:312:A:H4'	1:2:313:U:H5''	1.99	0.44
1:2:66:U:H4'	8:S6:171:LYS:HE2	1.99	0.44
1:2:740:A:N1	1:2:741:C:C4	2.85	0.44
1:2:850:A:C2	1:2:851:U:C2	3.05	0.44
1:2:948:G:H2'	1:2:949:C:O4'	2.17	0.44
38:4:125:U:O2	38:4:125:U:H2'	2.15	0.44
36:5:1046:A:H2'	36:5:1049:C:H5	1.81	0.44
36:5:1101:G:O2'	36:5:1102:A:H5'	2.18	0.44
36:5:1488:G:C2	36:5:1489:A:C8	3.05	0.44
36:5:156:G:O2'	36:5:157:A:H4'	2.17	0.44
36:5:2374:C:C5	36:5:2941:A:C2	3.04	0.44
36:5:571:U:H2'	36:5:572:A:H8	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:135:ARG:NH2	36:5:879:U:O2'	163.12	0.44
1:6:107:C:H42	1:6:307:G:H1	1.64	0.44
1:6:1151:A:O3'	1:6:1766:A:N6	2.50	0.44
1:6:1491:U:H4'	1:6:1492:A:C5'	2.48	0.44
1:6:95:G:H2'	1:6:95:G:N3	2.32	0.44
38:8:19:C:H2'	38:8:20:U:O4'	2.17	0.44
13:C1:74:THR:HA	13:C1:122:ILE:HA	2.39	0.44
15:C3:27:LYS:HB2	15:C3:28:LEU:H	1.40	0.44
16:C4:11:SER:OG	16:C4:12:GLN:N	4.23	0.44
16:C4:20:TYR:OH	16:C4:86:THR:HA	2.18	0.44
17:C5:85:ILE:HG22	17:C5:112:LEU:HA	1.99	0.44
18:C6:31:VAL:HG12	18:C6:32:ASN:OD1	2.68	0.44
18:C6:52:LEU:HA	18:C6:60:PHE:CE1	3.27	0.44
2:S0:41:ARG:NH2	19:C7:103:ASP:OD2	3.37	0.44
19:C7:117:LEU:HD22	19:C7:118:PRO:HD2	1.98	0.44
19:C7:17:ILE:HG23	19:C7:58:MET:HE2	2.69	0.44
20:C8:72:ILE:HG12	20:C8:79:TYR:CE1	3.31	0.44
21:C9:14:PHE:HZ	21:C9:132:LEU:HD23	1.81	0.44
22:D0:24:ILE:HG12	22:D0:116:VAL:HG12	3.70	0.44
26:D4:60:PHE:CD1	26:D4:71:GLY:HA3	2.51	0.44
27:D5:63:SER:O	27:D5:66:VAL:N	3.53	0.44
28:D6:75:VAL:HA	28:D6:78:ALA:HB3	1.99	0.44
28:D6:79:ILE:HG23	28:D6:84:VAL:HG21	1.99	0.44
29:D7:30:SER:HB2	29:D7:48:SER:OG	2.25	0.44
30:D8:26:THR:HB	30:D8:44:VAL:CG2	2.68	0.44
39:L2:180:LEU:HD23	39:L2:180:LEU:HA	1.56	0.44
40:L3:117:ARG:NH1	40:L3:175:LYS:HD3	3.10	0.44
40:L3:37:ARG:CB	40:L3:186:GLY:HA2	2.47	0.44
41:L4:153:SER:O	41:L4:155:ASP:N	2.94	0.44
36:1:1349:G:H5'	41:L4:291:ASN:OD1	2.16	0.44
42:L5:276:LYS:HG2	42:L5:277:LEU:N	3.98	0.44
45:L8:54:GLU:O	45:L8:58:VAL:HG23	2.49	0.44
46:L9:94:TYR:CE2	46:L9:98:PRO:HA	2.52	0.44
47:M0:30:LYS:HD3	47:M0:30:LYS:N	2.32	0.44
47:M0:52:LEU:HB3	47:M0:136:PHE:HB2	2.41	0.44
48:M1:139:THR:HG22	48:M1:147:THR:HA	1.99	0.44
48:M1:150:ASN:O	48:M1:152:HIS:N	2.45	0.44
49:M3:131:LYS:HD3	49:M3:131:LYS:H	3.81	0.44
52:M6:17:GLY:HA3	36:5:1313:G:O3'	266.11	0.44
52:M6:85:ARG:HD3	52:M6:90:HIS:CD2	2.53	0.44
56:N0:50:LYS:HD3	56:N0:50:LYS:HA	1.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:92:LYS:HD2	36:5:1830:G:H5''	103.28	0.44
62:N6:23:PRO:HG2	62:N6:26:GLN:HB2	1.99	0.44
36:1:189:G:OP2	62:N6:46:LYS:NZ	2.50	0.44
62:N6:59:VAL:O	62:N6:64:LYS:HE3	2.17	0.44
64:N8:82:ILE:HG22	64:N8:87:ARG:HE	4.16	0.44
69:O3:37:THR:OG1	69:O3:39:GLN:HB2	2.92	0.44
69:O3:92:LYS:O	36:5:3173:G:N1	225.68	0.44
71:O5:17:LEU:O	71:O5:20:GLN:N	3.16	0.44
49:M3:177:LYS:HG3	72:O6:11:LEU:HD13	1.99	0.44
36:1:299:G:N2	72:O6:30:LYS:HD3	2.32	0.44
72:O6:62:ARG:NH1	72:O6:94:ILE:HD11	5.04	0.44
36:1:3120:C:H3'	76:Q0:111:ARG:HH21	1.82	0.44
78:Q2:58:PHE:HD1	78:Q2:59:HIS:H	1.63	0.44
79:Q3:84:ARG:O	79:Q3:88:GLU:HG2	2.17	0.44
2:S0:110:TYR:HA	2:S0:115:PHE:CE1	2.91	0.44
2:S0:87:LEU:HD13	2:S0:87:LEU:HA	2.85	0.44
3:S1:195:LYS:O	3:S1:198:GLU:HB3	2.44	0.44
3:S1:66:VAL:HG13	16:C4:33:LEU:O	2.16	0.44
4:S2:55:GLU:O	4:S2:59:HIS:ND1	2.95	0.44
5:S3:14:ASP:O	5:S3:17:PHE:N	3.14	0.44
6:S4:11:ARG:HB2	6:S4:27:TYR:C	3.98	0.44
8:S6:2:LYS:HB3	8:S6:108:VAL:HG12	4.77	0.44
8:S6:62:PRO:HG2	8:S6:83:CYS:SG	3.10	0.44
9:S7:14:THR:N	9:S7:17:GLU:OE1	3.81	0.44
10:S8:188:GLU:HG2	10:S8:192:TYR:CE2	2.52	0.44
36:1:1478:C:H2'	36:1:1479:U:C6	2.53	0.44
36:1:1763:U:H5'	36:1:1764:U:OP2	2.17	0.44
36:1:1807:G:C6	36:1:1808:G:N1	2.85	0.44
36:1:185:C:H2'	36:1:186:U:C6	2.52	0.44
36:1:2144:A:H1'	36:1:2281:A:N6	2.32	0.44
36:1:2396:G:H5'	36:1:2397:A:H4'	1.99	0.44
36:1:2674:A:C6	48:M1:124:GLY:HA3	2.52	0.44
36:1:564:G:C5	36:1:565:U:C4	3.05	0.44
1:2:1251:U:H5'	33:E1:135:HIS:HD2	1.82	0.44
1:2:1410:A:N6	1:2:1411:A:N1	2.65	0.44
1:2:1417:A:OP1	85:2:1949:OHX:N5	2.50	0.44
1:2:1570:A:H2'	1:2:1571:C:O4'	2.17	0.44
1:2:320:U:H3'	1:2:321:C:C5'	2.38	0.44
1:2:609:U:H4'	1:2:610:G:O5'	2.17	0.44
1:2:643:G:H2'	1:2:644:C:H6	1.81	0.44
1:2:647:G:N2	1:2:687:G:H22	2.14	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:711:U:H1'	1:2:712:G:H5'	1.98	0.44
1:2:706:A:C6	1:2:734:A:N6	2.85	0.44
38:4:10:A:H8	38:4:10:A:O5'	2.00	0.44
57:N1:7:TYR:HB3	36:5:2757:U:H4'	236.00	0.44
36:5:2945:G:O2'	36:5:2948:C:OP2	2.36	0.44
36:5:3155:U:H4'	36:5:3156:U:OP2	2.17	0.44
36:5:2861:U:OP1	85:5:3403:OHX:N1	2.50	0.44
36:5:431:U:O4	85:5:3486:OHX:N1	2.51	0.44
36:5:541:U:O4	85:5:3516:OHX:N3	2.50	0.44
36:5:595:G:C8	36:5:609:G:C6	3.05	0.44
1:6:1008:G:C6	1:6:1009:U:C4	3.05	0.44
1:6:1067:C:H2'	1:6:1068:C:H6	1.82	0.44
1:6:1342:C:H2'	1:6:1343:U:H6	1.81	0.44
1:6:1391:A:H2'	1:6:1392:U:C6	2.53	0.44
1:6:1491:U:H4'	1:6:1492:A:H5''	1.98	0.44
1:6:27:U:C2	1:6:28:A:C8	3.06	0.44
1:6:659:C:H2'	1:6:660:G:C8	2.52	0.44
1:6:647:G:N2	1:6:687:G:H1	2.15	0.44
1:6:700:C:H1'	1:6:739:G:N2	2.32	0.44
11:S9:149:ARG:NH1	1:6:765:G:C6	428.50	0.44
1:6:219:A:H2'	1:6:831:U:O2	2.17	0.44
48:M1:44:THR:HG23	37:7:39:C:H4'	295.22	0.44
12:C0:5:LYS:HG3	12:C0:6:GLU:N	2.41	0.44
19:C7:101:ASN:HA	19:C7:120:SER:OG	2.51	0.44
21:C9:108:LEU:O	21:C9:112:GLY:N	2.50	0.44
21:C9:20:SER:O	21:C9:24:ARG:HG3	3.39	0.44
22:D0:29:THR:HG22	22:D0:85:ARG:O	2.18	0.44
28:D6:4:LYS:HE2	28:D6:4:LYS:HB3	4.08	0.44
40:L3:49:TYR:CE2	40:L3:164:THR:HG21	3.06	0.44
40:L3:64:GLY:O	36:5:3038:U:H4'	288.44	0.44
40:L3:92:TYR:HB3	40:L3:99:LEU:HD13	5.29	0.44
41:L4:110:ASN:HB2	51:M5:201:ARG:O	2.26	0.44
41:L4:274:TYR:CE1	41:L4:276:LEU:HD23	2.52	0.44
42:L5:122:VAL:HG22	42:L5:168:ASP:O	3.35	0.44
45:L8:29:SER:O	45:L8:31:PRO:HD3	4.21	0.44
46:L9:117:PHE:HE1	46:L9:178:GLY:HA2	1.82	0.44
48:M1:150:ASN:HA	48:M1:153:LYS:HD2	2.00	0.44
49:M3:192:GLU:O	49:M3:194:GLU:N	2.50	0.44
49:M3:31:LYS:HA	49:M3:34:SER:HB2	2.38	0.44
50:M4:113:THR:HG22	50:M4:115:PHE:N	2.29	0.44
50:M4:128:ARG:HH11	50:M4:128:ARG:HB3	4.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:113:LEU:HD23	51:M5:113:LEU:N	2.95	0.44
54:M8:111:ARG:HG3	54:M8:112:ALA:N	2.32	0.44
54:M8:30:VAL:O	54:M8:33:TYR:N	2.51	0.44
54:M8:54:LEU:HD23	54:M8:54:LEU:HA	2.40	0.44
56:N0:111:ALA:HA	56:N0:116:ALA:H	2.80	0.44
60:N4:6:ASP:C	60:N4:8:PHE:H	2.90	0.44
67:O1:82:GLU:O	67:O1:84:ASP:N	2.57	0.44
69:O3:50:ALA:HB2	69:O3:68:TRP:CZ3	3.21	0.44
75:O9:23:LEU:O	75:O9:25:GLN:NE2	2.49	0.44
2:S0:86:VAL:HG12	2:S0:174:TRP:CE2	2.87	0.44
2:S0:59:LEU:HD12	23:D1:79:LEU:HD21	6.36	0.44
2:S0:88:LYS:O	2:S0:92:HIS:ND1	3.40	0.44
3:S1:212:VAL:O	3:S1:214:LYS:N	2.50	0.44
4:S2:112:GLY:HA3	4:S2:132:ALA:O	2.18	0.44
4:S2:56:ILE:HA	4:S2:61:LEU:HD12	2.62	0.44
6:S4:212:ASP:C	6:S4:214:LEU:H	2.57	0.44
7:S5:109:LYS:HD3	7:S5:109:LYS:HA	1.77	0.44
8:S6:21:GLU:O	8:S6:25:ARG:HB2	2.17	0.44
9:S7:98:ILE:HG12	9:S7:121:VAL:HG21	1.99	0.44
1:2:512:A:OP2	11:S9:172:VAL:HG13	2.17	0.44
11:S9:21:SER:HA	11:S9:24:LEU:HB2	2.85	0.44
11:S9:78:ARG:O	11:S9:82:ARG:HB2	2.17	0.44
34:SR:109:ASP:HB2	34:SR:127:ARG:HD2	1.99	0.44
34:SR:238:ASP:CG	34:SR:258:THR:HG1	2.19	0.44
34:SR:281:TYR:HB3	34:SR:282:SER:H	1.57	0.44
18:C6:99:GLU:OE2	34:SR:60:SER:HB2	2.81	0.44
36:1:1458:U:O4	36:1:1475:A:N6	2.51	0.44
36:1:1483:G:C8	36:1:1485:G:C8	3.05	0.44
36:1:904:A:H5'	36:1:1536:G:O2'	2.18	0.44
36:1:1674:G:C6	36:1:1675:G:C5	3.06	0.44
36:1:1933:A:OP2	85:1:3421:OHX:N6	2.50	0.44
36:1:2532:U:H3	36:1:2547:A:N6	2.09	0.44
36:1:2544:U:H2'	36:1:2545:C:C6	2.52	0.44
36:1:2590:A:C6	36:1:2591:A:C5	3.05	0.44
36:1:2659:G:N7	85:1:3416:OHX:N5	2.65	0.44
36:1:3116:G:N3	36:1:3116:G:H2'	2.32	0.44
85:1:3565:OHX:N6	85:1:3685:OHX:N3	2.66	0.44
36:1:593:C:C4	36:1:594:U:C5	3.05	0.44
36:1:621:A:H8	36:1:623:U:O4	2.00	0.44
1:2:100:A:O5'	1:2:100:A:H8	2.01	0.44
1:2:1636:C:C2	1:2:1638:G:C5	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1699:G:N2	1:2:1701:A:H5''	2.33	0.44
1:2:760:A:H2'	1:2:761:G:O4'	2.18	0.44
1:2:819:G:O6	1:2:853:G:C6	2.70	0.44
41:L4:76:ARG:NH2	36:5:1438:U:OP1	150.41	0.44
36:5:1543:G:O6	85:5:3706:OHX:N1	2.50	0.44
36:5:1563:C:O2	36:5:1577:G:N2	2.51	0.44
36:5:2359:C:H2'	36:5:2360:C:H6	1.81	0.44
36:5:3366:G:C6	36:5:3367:C:N4	2.86	0.44
36:5:2641:U:OP1	85:5:3658:OHX:N5	2.50	0.44
36:5:715:A:H4'	36:5:716:A:OP1	2.17	0.44
73:O7:7:SER:HB2	36:5:818:C:O2'	161.86	0.44
1:6:1230:A:H2'	1:6:1258:U:C5	2.52	0.44
1:6:1258:U:H5	1:6:1259:U:C2	2.35	0.44
5:S3:156:PHE:HE1	1:6:1326:A:HO2'	420.32	0.44
1:6:1431:C:H1'	1:6:1437:U:O4	2.17	0.44
20:C8:138:THR:HB	1:6:1459:C:H2'	345.57	0.44
1:6:1684:U:H1'	1:6:1718:G:N2	2.33	0.44
1:6:28:A:H2'	1:6:29:U:H6	1.82	0.44
1:6:327:U:H2'	1:6:328:A:C8	2.51	0.44
1:6:532:U:H2'	1:6:533:U:O4'	2.18	0.44
37:7:30:G:C6	37:7:31:U:C4	3.05	0.44
38:8:132:G:C6	38:8:133:G:N7	2.85	0.44
38:8:68:G:N2	38:8:91:C:N3	2.59	0.44
15:C3:114:ARG:HG3	1:6:952:A:O2'	299.35	0.44
15:C3:45:LEU:HB3	15:C3:50:ILE:HG13	2.68	0.44
16:C4:38:THR:OG1	16:C4:39:ILE:N	2.50	0.44
20:C8:36:LYS:HB3	20:C8:105:VAL:HG21	4.39	0.44
22:D0:33:GLN:N	22:D0:33:GLN:OE1	2.50	0.44
24:D2:46:TYR:HD1	24:D2:69:LEU:HD13	1.81	0.44
40:L3:219:ALA:HB2	40:L3:336:VAL:HG22	4.13	0.44
40:L3:79:VAL:CG1	40:L3:322:ILE:HB	2.46	0.44
41:L4:10:SER:OG	41:L4:13:GLY:O	2.80	0.44
41:L4:16:THR:HG23	41:L4:18:ASN:N	3.25	0.44
41:L4:226:GLU:OE1	41:L4:237:GLN:HG2	3.09	0.44
41:L4:326:ARG:O	44:L7:41:ARG:NH2	3.85	0.44
42:L5:270:LYS:HG3	42:L5:273:ARG:N	6.99	0.44
44:L7:143:THR:HG22	44:L7:241:LYS:HD2	1.99	0.44
46:L9:137:SER:HB2	46:L9:143:GLU:CB	4.53	0.44
46:L9:157:ASN:C	46:L9:157:ASN:HD22	2.21	0.44
46:L9:65:VAL:C	46:L9:67:ALA:N	2.71	0.44
46:L9:30:PRO:HD2	46:L9:83:THR:HG22	2.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:27:ASP:O	49:M3:31:LYS:HB2	3.43	0.44
50:M4:55:ARG:HD3	56:N0:70:THR:CB	2.89	0.44
55:M9:7:GLN:N	55:M9:7:GLN:OE1	2.51	0.44
59:N3:90:GLY:O	60:N4:16:GLY:HA2	2.18	0.44
60:N4:4:GLU:O	60:N4:13:ILE:N	2.48	0.44
68:O2:79:VAL:O	68:O2:83:GLU:HG3	2.17	0.44
69:O3:20:LYS:HG2	69:O3:21:ARG:HG3	2.47	0.44
2:S0:195:TRP:CE2	2:S0:197:ILE:HB	3.39	0.44
2:S0:75:ALA:HB1	2:S0:174:TRP:CH2	2.80	0.44
4:S2:215:PHE:HA	4:S2:218:ILE:HD11	2.64	0.44
4:S2:227:PRO:HA	4:S2:230:TRP:CE2	2.53	0.44
5:S3:79:TYR:CE2	5:S3:84:ILE:HG13	2.52	0.44
6:S4:104:ASP:HB2	6:S4:107:GLY:H	2.41	0.44
6:S4:121:TYR:CE2	6:S4:161:LYS:HE3	2.52	0.44
6:S4:184:THR:HA	6:S4:189:LEU:HD13	1.98	0.44
7:S5:216:GLU:HA	7:S5:219:ARG:HB3	1.98	0.44
8:S6:22:HIS:HA	8:S6:25:ARG:NH1	2.73	0.44
9:S7:28:GLU:O	9:S7:30:SER:N	2.50	0.44
9:S7:94:ALA:HB3	9:S7:96:ARG:NH1	2.33	0.44
10:S8:151:LYS:HA	10:S8:151:LYS:HD2	3.87	0.44
11:S9:110:GLN:HA	11:S9:129:ILE:CD1	2.47	0.44
35:SM:38:PRO:HA	35:SM:39:PRO:HD2	1.61	0.44
34:SR:49:GLY:HA2	34:SR:54:PHE:CD1	2.53	0.44
36:1:1349:G:N3	36:1:1349:G:H3'	2.31	0.44
36:1:1488:G:C2	36:1:1489:A:C8	3.05	0.44
36:1:1765:U:C5	55:M9:46:LYS:HE3	2.53	0.44
36:1:2340:U:H2'	36:1:2341:A:C8	2.53	0.44
36:1:2384:A:N1	52:M6:96:LYS:HE2	2.32	0.44
36:1:2407:C:H1'	36:1:2818:U:O2	2.17	0.44
36:1:2552:C:C5	66:O0:53:LYS:HE3	2.53	0.44
36:1:2633:U:H2'	36:1:2634:U:O4'	2.17	0.44
36:1:3085:G:H5''	36:1:3086:A:OP1	2.17	0.44
36:1:3088:G:C5	36:1:3089:C:C4	3.06	0.44
36:1:67:A:O2'	36:1:315:C:O2	2.35	0.44
36:1:703:G:O2'	36:1:787:G:H4'	2.18	0.44
1:2:983:A:N1	1:2:1019:A:C6	2.86	0.44
1:2:1066:C:O3'	3:S1:149:GLN:HG3	2.17	0.44
1:2:1182:U:O2	1:2:1182:U:H2'	2.16	0.44
1:2:1365:C:H5''	18:C6:28:LEU:HD22	1.99	0.44
1:2:267:U:OP1	8:S6:183:ARG:NE	2.49	0.44
1:2:333:A:C6	1:2:334:G:C6	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:413:U:H2'	1:2:414:C:H6	1.82	0.44
1:2:560:U:H2'	1:2:561:G:C8	2.48	0.44
1:2:605:A:OP2	1:2:606:A:O2'	2.22	0.44
36:5:1013:G:N2	36:5:1014:U:H1'	2.33	0.44
36:5:1262:G:H5''	36:5:1263:A:OP2	2.17	0.44
36:5:1560:G:O2'	36:5:1561:G:OP1	2.33	0.44
36:5:1644:C:H5'	36:5:1645:U:H5''	1.99	0.44
36:5:1722:U:C4	36:5:1723:A:N7	2.85	0.44
36:5:2785:A:OP1	85:5:3673:OHX:N4	2.50	0.44
36:5:1222:G:O6	85:5:3633:OHX:N1	2.50	0.44
68:O2:37:GLY:HA2	36:5:640:U:OP2	184.82	0.44
36:5:846:A:OP1	36:5:846:A:H8	1.99	0.44
1:6:1079:U:C4	1:6:1080:U:C4	3.05	0.44
1:6:1305:U:OP2	1:6:1306:C:N4	2.30	0.44
1:6:1645:G:O2'	36:5:2259:A:N6	2.43	0.44
1:6:1658:G:C5	1:6:1744:A:N6	2.86	0.44
1:6:276:C:C4	1:6:278:U:C4	3.06	0.44
1:6:93:A:C6	1:6:398:G:C6	3.05	0.44
1:6:488:G:N2	1:6:499:U:H3	2.16	0.44
1:6:825:U:O2'	1:6:826:U:H6	2.00	0.44
1:6:946:U:H2'	1:6:947:U:C6	2.53	0.44
37:7:110:G:C6	37:7:111:U:C4	3.05	0.44
38:8:14:C:C4	38:8:15:G:C6	3.06	0.44
13:C1:109:VAL:HG23	13:C1:137:PHE:O	4.72	0.44
18:C6:14:LYS:HB3	18:C6:15:SER:H	1.58	0.44
19:C7:77:GLU:O	19:C7:81:LYS:HB2	2.18	0.44
19:C7:83:GLN:O	19:C7:85:VAL:HG22	6.83	0.44
21:C9:49:ASP:OD1	21:C9:53:TRP:N	2.29	0.44
24:D2:6:VAL:HG12	24:D2:34:ILE:HD11	1.99	0.44
24:D2:74:VAL:O	24:D2:75:ILE:HD13	2.92	0.44
1:2:1531:G:H5'	27:D5:81:ARG:NH2	2.32	0.44
40:L3:112:ASP:HA	40:L3:115:LYS:HB2	2.10	0.44
41:L4:30:ILE:HG23	41:L4:124:SER:HB3	3.08	0.44
41:L4:169:LEU:O	41:L4:172:VAL:HG12	2.18	0.44
42:L5:86:TYR:CD1	42:L5:247:ILE:HG12	3.25	0.44
44:L7:96:PRO:HA	44:L7:97:PRO:HD3	1.81	0.44
45:L8:187:GLY:HA2	45:L8:195:SER:HB2	2.00	0.44
46:L9:106:LYS:O	46:L9:109:ALA:HB2	2.18	0.44
46:L9:65:VAL:O	46:L9:68:LEU:N	2.31	0.44
36:1:2646:C:H5''	47:M0:119:TRP:CG	2.53	0.44
35:SM:36:ASP:HB2	48:M1:61:ARG:HD3	3.63	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:151:ILE:HD13	51:M5:151:ILE:HA	1.82	0.44
51:M5:35:VAL:HG23	36:5:1543:G:OP1	139.75	0.44
53:M7:116:HIS:NE2	53:M7:147:GLU:OE2	3.08	0.44
44:L7:92:ILE:HD11	54:M8:4:ASP:N	2.33	0.44
55:M9:130:ASN:HB3	55:M9:131:ALA:H	1.63	0.44
56:N0:52:LYS:HG2	56:N0:52:LYS:H	2.59	0.44
59:N3:126:TRP:HA	59:N3:127:PRO:HD3	1.88	0.44
59:N3:2:SER:N	59:N3:57:MET:HB3	2.33	0.44
59:N3:2:SER:HA	59:N3:56:ASP:HA	4.01	0.44
60:N4:17:ARG:HD3	60:N4:17:ARG:HA	1.75	0.44
63:N7:42:LEU:HD23	63:N7:101:PHE:HE1	3.18	0.44
63:N7:102:GLU:N	63:N7:107:ARG:HH21	2.92	0.44
63:N7:17:ARG:HG2	63:N7:17:ARG:O	3.47	0.44
63:N7:80:LEU:HD23	63:N7:80:LEU:HA	2.71	0.44
57:N1:82:ASN:O	65:N9:21:ILE:HA	2.16	0.44
68:O2:104:ASN:O	68:O2:108:ILE:HG12	4.33	0.44
38:4:79:A:H5''	71:O5:43:LYS:NZ	2.33	0.44
73:O7:28:HIS:O	73:O7:32:LYS:N	2.54	0.44
73:O7:28:HIS:CG	73:O7:31:LYS:HB2	2.53	0.44
78:Q2:35:LEU:C	78:Q2:37:ALA:H	2.21	0.44
79:Q3:46:THR:O	79:Q3:57:CYS:HA	2.17	0.44
2:S0:71:GLU:HA	2:S0:95:ALA:N	2.98	0.44
3:S1:61:LEU:HD22	3:S1:61:LEU:H	1.82	0.44
5:S3:131:ALA:HB1	5:S3:189:MET:O	2.17	0.44
6:S4:142:HIS:CE1	6:S4:226:PHE:HE2	2.91	0.44
6:S4:182:TYR:HB2	6:S4:228:ILE:HD13	1.99	0.44
6:S4:232:GLY:O	6:S4:234:PRO:HD3	2.18	0.44
6:S4:242:LYS:H	6:S4:242:LYS:HE3	1.83	0.44
7:S5:109:LYS:O	7:S5:113:ILE:HG13	2.16	0.44
10:S8:188:GLU:HG2	10:S8:192:TYR:HE2	1.81	0.44
34:SR:267:PRO:HG2	34:SR:269:TYR:CE1	2.52	0.44
36:1:15:C:P	61:N5:42:ARG:HE	2.41	0.44
36:1:1720:U:OP2	55:M9:120:TYR:OH	2.19	0.44
36:1:2359:C:C4	36:1:2360:C:N4	2.85	0.44
36:1:1886:A:N1	36:1:2390:A:O2'	2.50	0.44
36:1:3126:C:H1'	46:L9:156:GLN:NE2	2.33	0.44
36:1:1464:G:O2'	85:1:3415:OHX:N4	2.50	0.44
85:1:3497:OHX:N1	85:1:3678:OHX:N3	2.66	0.44
36:1:659:G:H2'	36:1:1432:C:H42	1.83	0.44
1:2:1275:A:C6	1:2:1438:G:C5	3.06	0.44
1:2:144:U:O2'	1:2:145:A:H8	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1497:U:H4'	21:C9:75:LYS:HE2	1.98	0.44
1:2:74:U:H1'	1:2:75:U:O5'	2.17	0.44
38:4:39:G:H4'	38:4:40:A:H5'	2.00	0.44
36:5:2663:G:C6	36:5:2664:C:C4	3.06	0.44
36:5:3305:A:H2'	36:5:3306:U:H6	1.81	0.44
36:5:381:U:H2'	36:5:382:U:H6	1.83	0.44
36:5:439:C:C4'	36:5:440:A:H5'	2.46	0.44
49:M3:14:PHE:CZ	36:5:665:A:H1'	132.04	0.44
36:5:72:C:C2	36:5:74:G:H1'	2.53	0.44
1:6:1350:U:H2'	1:6:1351:G:H8	1.79	0.44
1:6:1478:G:C6	1:6:1479:A:C5	3.06	0.44
37:7:91:G:H2'	37:7:92:A:H8	1.82	0.44
12:C0:9:ASN:O	12:C0:13:GLN:HB3	2.18	0.44
12:C0:1:MET:CE	12:C0:2:LEU:H	2.30	0.44
13:C1:77:SER:HB3	13:C1:85:VAL:HB	1.99	0.44
18:C6:13:LYS:HD3	18:C6:14:LYS:HD3	1.99	0.44
7:S5:25:LEU:HB2	18:C6:27:GLY:O	2.17	0.44
20:C8:88:ARG:NH2	20:C8:91:ASP:OD1	2.43	0.44
26:D4:37:LYS:HA	26:D4:40:LEU:HD12	3.03	0.44
27:D5:74:SER:HA	27:D5:77:ARG:NH2	2.33	0.44
16:C4:111:ARG:HA	28:D6:56:ALA:O	2.27	0.44
1:2:1153:G:H5'	28:D6:85:ARG:HD2	1.98	0.44
29:D7:58:SER:O	29:D7:60:SER:N	3.41	0.44
31:D9:22:ARG:HG2	31:D9:37:ASN:O	2.17	0.44
39:L2:242:ARG:HH12	39:L2:246:LEU:HD12	4.65	0.44
36:1:3295:A:H5'	40:L3:119:TYR:HE1	1.82	0.44
40:L3:95:THR:C	40:L3:97:ARG:N	2.70	0.44
42:L5:51:LEU:N	42:L5:145:PHE:O	2.40	0.44
42:L5:153:THR:HG23	42:L5:160:PHE:HZ	1.82	0.44
44:L7:187:GLU:OE1	44:L7:192:GLY:HA3	2.17	0.44
44:L7:82:LYS:HG2	44:L7:82:LYS:H	1.65	0.44
48:M1:110:ILE:C	48:M1:112:LEU:H	2.21	0.44
48:M1:17:LEU:HD21	48:M1:19:LEU:HD21	2.30	0.44
49:M3:131:LYS:NZ	49:M3:131:LYS:HB3	2.32	0.44
50:M4:28:SER:HA	50:M4:31:LYS:HD2	1.99	0.44
46:L9:47:LYS:HZ2	50:M4:5:SER:H	1.66	0.44
53:M7:120:ASN:HD22	38:8:13:A:C1'	139.88	0.44
53:M7:123:PRO:O	53:M7:143:PRO:HG2	2.17	0.44
54:M8:170:ARG:NH2	54:M8:171:LYS:HD2	3.56	0.44
54:M8:29:LEU:HA	54:M8:29:LEU:HD23	2.27	0.44
57:N1:132:PRO:HD3	36:5:1098:A:O2'	257.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:9:GLN:HG2	58:N2:10:LYS:HE3	1.99	0.44
61:N5:47:ALA:HB3	71:O5:77:PRO:HG3	1.99	0.44
61:N5:53:HIS:HB3	61:N5:56:ARG:NH2	2.59	0.44
63:N7:73:LYS:HG2	63:N7:74:VAL:N	4.42	0.44
64:N8:124:ILE:HD13	64:N8:146:GLU:OE2	3.55	0.44
64:N8:95:SER:O	64:N8:99:ALA:HB2	2.44	0.44
68:O2:97:ALA:O	68:O2:100:ILE:HG12	2.79	0.44
70:O4:9:ARG:HG3	70:O4:34:HIS:CE1	3.68	0.44
72:O6:9:ILE:HD13	72:O6:10:GLY:N	4.75	0.44
73:O7:35:SER:OG	36:5:361:A:H5'	125.77	0.44
75:O9:48:LYS:HA	75:O9:48:LYS:HD2	2.30	0.44
2:S0:71:GLU:O	2:S0:96:THR:HG22	2.27	0.44
4:S2:150:GLN:HA	4:S2:151:PRO:HD2	1.87	0.44
4:S2:95:ARG:HD3	4:S2:97:ARG:CD	6.40	0.44
6:S4:184:THR:C	6:S4:189:LEU:HD13	2.92	0.44
9:S7:129:LEU:HD22	9:S7:169:PHE:CD1	3.48	0.44
9:S7:181:ILE:HG22	9:S7:182:VAL:N	3.65	0.44
9:S7:60:ILE:HD12	9:S7:92:PHE:CZ	2.52	0.44
11:S9:134:ILE:HD13	11:S9:141:VAL:O	5.09	0.44
11:S9:39:LYS:HB3	11:S9:43:TYR:CZ	2.60	0.44
34:SR:129:LYS:HG2	34:SR:149:ASP:O	2.50	0.44
34:SR:179:LYS:HG2	34:SR:191:ASP:OD1	2.18	0.44
36:1:1321:G:H2'	36:1:1322:U:O4'	2.18	0.44
36:1:1365:G:OP2	85:1:3504:OHX:N6	2.51	0.44
36:1:1845:G:O2'	73:O7:5:THR:HG22	2.16	0.44
36:1:2158:A:H5'	36:1:2160:G:O4'	2.18	0.44
36:1:2812:C:H2'	36:1:2813:A:C8	2.53	0.44
36:1:3298:C:C2	36:1:3299:A:C8	3.05	0.44
36:1:329:U:OP2	85:1:3580:OHX:N4	2.51	0.44
1:2:1116:A:H2'	1:2:1117:U:O4'	2.18	0.44
1:2:119:A:N1	6:S4:7:LYS:NZ	2.48	0.44
1:2:1677:C:N3	1:2:1725:U:C2	2.86	0.44
1:2:332:U:H5	10:S8:175:GLN:HE22	1.65	0.44
1:2:760:A:OP2	85:2:1939:OHX:N4	2.51	0.44
1:2:859:A:C6	15:C3:73:ARG:HD3	2.52	0.44
36:5:971:G:C2	36:5:1111:U:O2	2.70	0.44
36:5:1595:U:C2	36:5:1596:C:C5	3.05	0.44
36:5:1734:G:H2'	36:5:1735:G:O4'	2.17	0.44
36:5:1765:U:H2'	36:5:1766:G:O4'	2.18	0.44
36:5:2108:C:H1'	36:5:3344:A:N3	2.33	0.44
36:5:2615:G:H2'	36:5:2616:C:O4'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2660:G:O3'	36:5:2749:G:N2	2.51	0.44
36:5:2894:C:H2'	36:5:2895:G:H8	1.82	0.44
69:O3:97:SER:OG	36:5:3174:A:OP1	241.08	0.44
43:L6:23:LYS:NZ	36:5:611:A:OP1	236.06	0.44
36:5:629:U:H2'	36:5:630:A:C8	2.53	0.44
36:5:649:A:H5''	36:5:649:A:H8	1.82	0.44
1:6:1029:U:O2'	1:6:1030:A:H5'	2.18	0.44
1:6:1470:C:H5''	1:6:1471:A:O4'	2.18	0.44
1:6:90:C:C2	1:6:91:G:C8	3.06	0.44
1:6:955:A:H2'	1:6:956:C:O4'	2.18	0.44
1:6:996:U:H2'	1:6:997:G:C8	2.53	0.44
13:C1:55:ASP:OD2	13:C1:58:CYS:HB2	2.73	0.44
9:S7:134:GLU:OE1	15:C3:22:ALA:HB2	2.18	0.44
18:C6:82:ARG:HH22	18:C6:114:ARG:CB	2.30	0.44
19:C7:104:ASN:O	19:C7:106:THR:N	3.45	0.44
20:C8:91:ASP:O	20:C8:92:ILE:HB	2.18	0.44
21:C9:89:ARG:HB3	21:C9:90:PRO:HD2	2.00	0.44
23:D1:25:LYS:HE3	23:D1:27:ASP:OD2	2.18	0.44
1:2:804:A:H2	24:D2:105:THR:HB	1.82	0.44
25:D3:130:VAL:HG23	25:D3:131:SER:O	3.41	0.44
1:2:778:G:H22	26:D4:10:ARG:NH1	2.15	0.44
28:D6:46:GLU:HG3	28:D6:47:ALA:N	3.16	0.44
29:D7:36:LYS:HB3	29:D7:43:ILE:HG22	1.99	0.44
39:L2:192:LYS:HE2	39:L2:192:LYS:HB3	4.83	0.44
40:L3:122:TRP:CZ2	40:L3:127:LYS:HE3	2.51	0.44
40:L3:211:GLN:HG2	40:L3:285:VAL:HG23	2.00	0.44
40:L3:37:ARG:O	40:L3:186:GLY:HA2	3.25	0.44
40:L3:99:LEU:HD23	40:L3:99:LEU:HA	3.39	0.44
41:L4:39:PHE:O	41:L4:42:VAL:N	2.79	0.44
42:L5:260:PHE:HD1	42:L5:264:GLN:NE2	2.15	0.44
45:L8:134:TYR:CG	45:L8:190:VAL:HG21	2.52	0.44
45:L8:48:ARG:NH2	36:5:2588:U:OP1	183.90	0.44
46:L9:104:VAL:O	46:L9:111:PHE:N	2.41	0.44
48:M1:53:THR:HG23	48:M1:59:ILE:O	2.28	0.44
49:M3:2:ALA:N	64:N8:31:GLY:O	3.34	0.44
52:M6:26:GLN:HG3	56:N0:163:PHE:HZ	1.83	0.44
53:M7:30:ARG:HA	53:M7:119:VAL:CG1	3.09	0.44
36:1:1095:U:N3	57:N1:127:GLN:HG2	2.33	0.44
57:N1:46:GLY:O	57:N1:49:GLN:NE2	2.51	0.44
64:N8:139:ARG:HA	64:N8:143:GLY:O	2.18	0.44
71:O5:28:LEU:O	71:O5:31:LEU:N	3.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:O8:54:LEU:HD12	74:O8:55:VAL:H	2.14	0.44
2:S0:92:HIS:CE1	2:S0:202:TYR:HH	2.35	0.44
3:S1:157:GLN:H	3:S1:160:HIS:HB2	1.81	0.44
4:S2:230:TRP:CD2	24:D2:68:ARG:HD3	2.81	0.44
4:S2:90:THR:C	4:S2:92:ALA:N	2.69	0.44
5:S3:67:ASN:O	5:S3:70:THR:OG1	2.31	0.44
6:S4:166:SER:O	6:S4:168:LYS:HG2	5.92	0.44
7:S5:90:ILE:HD13	7:S5:90:ILE:HA	2.53	0.44
8:S6:58:LYS:HG3	8:S6:105:ASP:O	3.19	0.44
9:S7:75:THR:O	9:S7:79:ARG:HB2	2.57	0.44
10:S8:138:ASN:N	10:S8:138:ASN:OD1	2.48	0.44
35:SM:64:LYS:C	35:SM:66:ALA:H	2.21	0.44
35:SM:64:LYS:C	35:SM:66:ALA:N	2.71	0.44
34:SR:286:GLU:HA	34:SR:287:PRO:HD3	1.75	0.44
36:1:1160:C:O2'	36:1:1161:G:H5''	2.18	0.44
36:1:1623:G:OP2	85:1:3578:OHX:N1	2.51	0.44
36:1:1835:A:H3'	36:1:1836:C:H6	1.82	0.44
36:1:1883:A:H2'	36:1:1884:A:O4'	2.18	0.44
36:1:2367:A:H2'	36:1:2368:A:C8	2.52	0.44
36:1:3364:C:H2'	36:1:3365:U:H6	1.83	0.44
36:1:2717:U:OP1	85:1:3520:OHX:N6	2.51	0.44
36:1:945:C:H2'	36:1:946:U:C6	2.53	0.44
1:2:1290:U:H2'	1:2:1291:G:C8	2.53	0.44
1:2:301:A:OP2	85:2:1942:OHX:N2	2.51	0.44
1:2:270:C:H42	1:2:285:G:H1	1.66	0.44
1:2:344:A:C6	1:2:345:U:C4	3.06	0.44
1:2:795:U:C5	1:2:796:A:C8	3.06	0.44
1:2:900:A:H4'	1:2:916:U:H1'	1.99	0.44
38:4:37:A:P	71:O5:86:ARG:HG3	2.58	0.44
36:5:1093:A:H2	36:5:1096:U:O2	2.01	0.44
36:5:1195:A:H1'	36:5:1319:G:H4'	2.00	0.44
36:5:2733:A:H2'	36:5:2734:A:O4'	2.17	0.44
36:5:301:G:H2'	36:5:302:U:O4'	2.18	0.44
36:5:3167:A:H2'	36:5:3168:A:O4'	2.17	0.44
36:5:3191:G:H2'	36:5:3192:U:C6	2.53	0.44
85:5:3570:OHX:N5	85:5:3647:OHX:N2	2.65	0.44
36:5:372:A:H2'	36:5:373:A:H8	1.81	0.44
36:5:430:U:OP2	85:5:3486:OHX:N5	2.50	0.44
36:5:711:A:N7	36:5:712:G:H1'	2.33	0.44
36:5:718:G:N7	36:5:721:G:H1'	2.32	0.44
36:5:87:U:H2'	36:5:88:A:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1005:A:N1	85:6:1998:OHX:N1	2.66	0.44
1:6:1312:A:OP1	1:6:1312:A:H8	2.01	0.44
20:C8:41:ARG:HG3	1:6:1565:C:OP1	367.62	0.44
10:S8:25:ARG:HB3	1:6:400:A:O5'	311.52	0.44
1:6:460:A:H5'	1:6:461:G:OP2	2.18	0.44
1:6:609:U:H4'	1:6:610:G:O5'	2.18	0.44
1:6:751:G:C4	1:6:799:A:C2	3.05	0.44
36:5:3:U:H3	38:8:156:U:H3	1.66	0.44
38:8:81:U:O2'	38:8:82:U:H5''	2.18	0.44
14:C2:45:LEU:O	14:C2:49:THR:HG23	2.47	0.44
15:C3:115:LEU:HD22	15:C3:119:GLU:HG3	2.00	0.44
19:C7:25:THR:HB	19:C7:26:LEU:H	1.53	0.44
21:C9:141:GLU:C	21:C9:143:ASP:H	2.76	0.44
24:D2:90:THR:HB	24:D2:94:LEU:HD12	1.99	0.44
24:D2:90:THR:O	24:D2:94:LEU:HB2	2.37	0.44
25:D3:37:ALA:O	25:D3:41:SER:HB3	3.30	0.44
27:D5:73:GLY:O	27:D5:77:ARG:HG3	2.18	0.44
29:D7:21:LEU:HA	29:D7:26:GLN:HB3	2.00	0.44
32:E0:43:ARG:HG2	32:E0:44:PHE:CE1	2.53	0.44
33:E1:103:LEU:HA	33:E1:103:LEU:HD23	1.75	0.44
39:L2:114:SER:OG	39:L2:165:VAL:HG13	2.72	0.44
41:L4:135:VAL:O	41:L4:140:HIS:HB2	2.29	0.44
42:L5:270:LYS:HG3	42:L5:273:ARG:CB	5.69	0.44
44:L7:175:LYS:HG2	44:L7:175:LYS:H	3.81	0.44
44:L7:59:GLU:O	44:L7:63:ILE:HG13	2.18	0.44
45:L8:186:LEU:HD22	45:L8:198:ALA:HB3	1.99	0.44
45:L8:207:ASP:O	45:L8:209:ALA:N	3.30	0.44
45:L8:230:LYS:HB2	45:L8:230:LYS:HE3	4.34	0.44
49:M3:101:ARG:HG2	49:M3:102:GLN:H	1.82	0.44
49:M3:46:ILE:HA	49:M3:49:ARG:HH11	4.07	0.44
51:M5:115:VAL:O	51:M5:159:ARG:HD3	2.18	0.44
51:M5:38:ARG:NE	51:M5:60:VAL:HG13	3.54	0.44
36:1:1720:U:P	55:M9:110:ARG:HH12	2.40	0.44
58:N2:28:PHE:HE1	58:N2:83:TYR:HE2	1.64	0.44
62:N6:126:LEU:HB3	62:N6:127:GLU:OE1	8.48	0.44
64:N8:47:LYS:O	64:N8:48:TYR:HB2	2.17	0.44
67:O1:14:ILE:HG13	67:O1:39:PHE:CD1	3.31	0.44
71:O5:98:SER:OG	71:O5:99:GLN:N	2.49	0.44
73:O7:8:PHE:HD1	73:O7:11:ARG:HD3	1.83	0.44
2:S0:184:LEU:HA	2:S0:184:LEU:HD13	4.37	0.44
2:S0:32:HIS:HD2	2:S0:33:GLN:HG2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:56:LEU:HB2	6:S4:57:ASN:H	2.67	0.44
7:S5:84:LYS:O	7:S5:92:ARG:HD2	3.15	0.44
36:1:1193:A:O2'	36:1:1194:G:H5'	2.17	0.44
36:1:1464:G:N7	85:1:3737:OHX:N6	2.66	0.44
36:1:146:U:H4'	36:1:147:U:H5''	2.00	0.44
36:1:1533:U:O2'	36:1:1534:A:H5'	2.18	0.44
36:1:1867:A:H2'	36:1:1868:G:C8	2.53	0.44
36:1:2331:C:H2'	36:1:2332:A:O4'	2.18	0.44
36:1:2438:A:H2'	36:1:2439:A:H8	1.83	0.44
36:1:2590:A:C4	36:1:2591:A:C8	3.06	0.44
36:1:288:C:H2'	36:1:289:A:H8	1.82	0.44
36:1:3174:A:C6	36:1:3175:U:N3	2.86	0.44
36:1:3237:U:H2'	36:1:3238:G:C8	2.52	0.44
36:1:325:A:H5''	36:1:326:U:OP2	2.17	0.44
85:1:3592:OHX:N2	85:1:3702:OHX:N1	2.66	0.44
36:1:826:G:C4	36:1:827:A:C8	3.06	0.44
36:1:995:U:C2	36:1:2637:A:C8	3.06	0.44
1:2:1203:A:C6	1:2:1556:A:C5	3.06	0.44
1:2:1550:A:C6	1:2:1562:G:C6	3.06	0.44
1:2:1747:G:H2'	1:2:1748:G:H8	1.82	0.44
1:2:450:U:H2'	1:2:451:A:C8	2.52	0.44
36:5:1313:G:H2'	36:5:1314:C:C6	2.52	0.44
36:5:189:G:C2	36:5:191:U:C4	3.05	0.44
39:L2:236:GLY:N	36:5:2183:A:O2'	205.29	0.44
72:O6:30:LYS:NZ	36:5:266:A:H2'	103.86	0.44
36:5:2860:U:C6	36:5:2938:G:H4'	2.53	0.44
36:5:3163:A:O2'	36:5:3164:C:H5'	2.18	0.44
36:5:336:A:O2'	36:5:337:G:H5'	2.17	0.44
36:5:3385:U:H2'	36:5:3386:G:H8	1.82	0.44
36:5:1309:U:OP1	85:5:3667:OHX:N3	2.50	0.44
36:5:384:A:C6	36:5:385:A:C5	3.06	0.44
1:6:1067:C:H2'	1:6:1068:C:C6	2.53	0.44
1:6:1068:C:H2'	1:6:1069:A:C8	2.53	0.44
1:6:1146:G:C2	1:6:1633:A:C6	3.06	0.44
1:6:1608:U:H2'	1:6:1609:U:H6	1.82	0.44
1:6:1636:C:C4'	1:6:1637:C:H5'	2.33	0.44
10:S8:174:GLY:HA3	1:6:331:A:OP2	277.90	0.44
4:S2:200:SER:OG	1:6:4:C:OP2	382.23	0.44
1:6:542:A:H1'	1:6:543:C:OP1	2.17	0.44
28:D6:11:ASN:CB	1:6:934:C:H1'	332.80	0.44
1:6:939:A:C6	1:6:940:A:C6	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:8:G:C6	37:7:9:C:C4	3.05	0.44
38:8:109:A:C2	38:8:114:G:C6	3.06	0.44
38:8:106:C:O2'	85:8:217:OHX:N5	2.51	0.44
17:C5:96:ILE:HB	17:C5:120:SER:HB2	2.34	0.44
22:D0:72:ASN:HD22	22:D0:73:GLY:H	4.22	0.44
25:D3:24:TRP:CZ3	25:D3:30:LYS:HG3	4.81	0.44
26:D4:20:ARG:C	26:D4:21:LYS:HD2	2.38	0.44
26:D4:60:PHE:HA	26:D4:70:VAL:O	2.34	0.44
28:D6:82:ARG:O	28:D6:84:VAL:HG12	2.18	0.44
29:D7:62:ILE:HG13	29:D7:63:LEU:H	1.82	0.44
39:L2:115:ASN:O	39:L2:124:GLY:HA2	2.54	0.44
39:L2:29:LEU:HB2	39:L2:123:ARG:HA	1.99	0.44
40:L3:238:LEU:HD12	40:L3:238:LEU:HA	2.19	0.44
41:L4:141:ARG:CZ	41:L4:180:LYS:HD3	2.47	0.44
36:1:689:U:O4	41:L4:209:TYR:HE1	2.01	0.44
42:L5:106:ALA:HA	42:L5:171:LEU:HD11	2.34	0.44
42:L5:246:ALA:HA	42:L5:249:ALA:HB3	3.52	0.44
44:L7:218:ARG:NH1	36:5:1171:G:P	254.90	0.44
44:L7:134:VAL:O	44:L7:229:PHE:HA	2.54	0.44
47:M0:145:LYS:O	47:M0:148:VAL:N	3.16	0.44
49:M3:144:THR:C	49:M3:146:PRO:HD3	3.13	0.44
50:M4:22:LEU:HD13	50:M4:32:LEU:HD23	2.07	0.44
51:M5:45:PRO:O	51:M5:49:ARG:HB2	4.32	0.44
36:1:1872:C:H5'	55:M9:58:HIS:HB2	2.00	0.44
42:L5:41:LYS:NZ	57:N1:32:LYS:O	2.41	0.44
57:N1:83:ARG:HH11	57:N1:83:ARG:HG3	1.82	0.44
62:N6:100:HIS:HA	62:N6:101:PRO:HD2	1.57	0.44
63:N7:17:ARG:HG2	70:O4:73:SER:O	2.17	0.44
68:O2:119:VAL:O	68:O2:122:PRO:HD3	3.56	0.44
68:O2:91:THR:HG22	68:O2:92:TYR:CD2	2.52	0.44
69:O3:90:PRO:C	69:O3:92:LYS:H	2.16	0.44
49:M3:49:ARG:HD2	71:O5:116:TYR:CE2	2.52	0.44
2:S0:41:ARG:HG2	2:S0:42:PRO:HD2	2.39	0.44
3:S1:107:THR:HG21	16:C4:117:ASP:O	2.18	0.44
7:S5:43:PHE:N	7:S5:46:TRP:O	2.50	0.44
9:S7:152:VAL:C	9:S7:153:LEU:HD23	2.38	0.44
34:SR:283:LYS:HB2	34:SR:283:LYS:HE3	1.63	0.44
36:1:1171:G:P	44:L7:218:ARG:HH11	2.41	0.44
36:1:1273:A:HO2'	36:1:1274:A:P	2.40	0.44
36:1:129:U:H2'	36:1:130:A:C8	2.53	0.44
36:1:1415:U:H2'	36:1:1416:C:O4'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1495:U:C5	36:1:1835:A:N1	2.86	0.44
36:1:1706:C:H41	36:1:1738:C:H42	1.65	0.44
36:1:1938:U:O4	85:1:3450:OHX:N2	2.51	0.44
36:1:2269:U:C2	36:1:2272:G:C2	3.06	0.44
36:1:2318:U:H2'	36:1:2319:U:O4'	2.17	0.44
36:1:2725:U:H5''	36:1:2726:C:OP2	2.18	0.44
36:1:3157:U:H4'	36:1:3158:G:H5'	2.00	0.44
36:1:3200:G:C6	36:1:3201:C:C4	3.06	0.44
36:1:3275:U:O2'	36:1:3276:G:OP1	2.33	0.44
36:1:603:A:C5	36:1:604:G:H1'	2.52	0.44
1:2:1000:C:C6	1:2:1003:A:H8	2.35	0.44
1:2:1125:A:C5	1:2:1126:G:H1'	2.53	0.44
1:2:1458:G:H5''	1:2:1459:C:OP2	2.18	0.44
1:2:1497:U:C2	1:2:1498:G:C8	3.05	0.44
1:2:1619:C:H2'	1:2:1620:C:C6	2.52	0.44
1:2:1657:U:H1'	1:2:1658:G:OP2	2.18	0.44
1:2:1660:A:H5'	59:N3:67:PRO:HG2	2.00	0.44
1:2:1695:G:H21	1:2:1706:C:H41	1.66	0.44
1:2:1657:U:C2	85:2:1967:OHX:N1	2.86	0.44
1:2:1006:C:N3	85:2:2024:OHX:N2	2.66	0.44
1:2:341:A:H4'	10:S8:87:ASN:ND2	2.33	0.44
1:2:600:U:OP2	25:D3:108:GLY:HA2	2.18	0.44
1:2:793:A:H5''	1:2:794:U:C5	2.52	0.44
1:2:883:C:H2'	1:2:884:A:C8	2.53	0.44
36:5:1754:G:O6	85:5:3584:OHX:N5	2.50	0.44
36:5:2594:C:H2'	36:5:2595:A:O4'	2.18	0.44
36:5:3305:A:H2'	36:5:3306:U:C6	2.53	0.44
36:5:924:G:OP1	85:5:3718:OHX:N4	2.51	0.44
1:6:1697:G:H8	1:6:1705:C:N3	2.16	0.44
1:6:420:A:H2'	1:6:421:A:O4'	2.18	0.44
1:6:75:U:O2'	1:6:76:A:O4'	2.36	0.44
12:C0:46:LEU:O	12:C0:50:THR:HG23	2.18	0.44
13:C1:132:SER:O	13:C1:135:VAL:N	4.43	0.44
13:C1:13:PHE:HE2	13:C1:15:LYS:HB3	1.82	0.44
15:C3:113:PHE:HA	15:C3:116:ILE:HD12	3.20	0.44
18:C6:120:ASP:OD1	18:C6:121:SER:N	2.51	0.44
21:C9:10:ALA:HB3	21:C9:13:ASP:OD2	2.17	0.44
21:C9:66:TYR:CE2	21:C9:129:GLN:HG3	5.03	0.44
21:C9:18:TYR:O	21:C9:22:LEU:HD22	2.17	0.44
22:D0:103:ILE:HA	22:D0:106:ILE:HG22	3.12	0.44
25:D3:31:LYS:H	25:D3:31:LYS:HG2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:11:PHE:CD1	27:D5:41:ILE:HG21	5.21	0.44
16:C4:107:ARG:NH1	28:D6:52:ASP:OD1	4.56	0.44
1:2:1252:C:O4'	33:E1:133:ALA:HB2	2.18	0.44
40:L3:25:ILE:HD13	40:L3:25:ILE:N	2.33	0.44
40:L3:283:TYR:HB3	40:L3:356:LEU:HD21	2.00	0.44
40:L3:284:ARG:NH2	40:L3:359:ILE:HD11	3.21	0.44
41:L4:179:LEU:HD22	41:L4:183:LYS:HG2	1.99	0.44
42:L5:151:GLN:OE1	42:L5:152:ARG:N	2.51	0.44
44:L7:155:LYS:HB2	44:L7:203:TRP:HE3	1.83	0.44
44:L7:26:VAL:HG23	44:L7:27:ALA:H	1.91	0.44
45:L8:229:VAL:C	45:L8:231:LYS:H	2.33	0.44
47:M0:73:ASN:O	47:M0:76:MET:HB2	3.06	0.44
49:M3:27:ASP:OD2	49:M3:27:ASP:N	2.68	0.44
55:M9:71:ARG:HG3	55:M9:71:ARG:H	1.64	0.44
56:N0:14:LEU:HD23	56:N0:14:LEU:HA	2.32	0.44
56:N0:2:ALA:HB3	56:N0:32:SER:HB2	2.00	0.44
57:N1:160:ILE:HD12	57:N1:160:ILE:HA	2.29	0.44
57:N1:48:ILE:HD13	57:N1:48:ILE:HA	1.81	0.44
62:N6:35:LEU:HD12	62:N6:45:ILE:HG22	1.99	0.44
63:N7:103:GLN:HA	63:N7:104:PRO:HD3	1.90	0.44
63:N7:80:LEU:O	63:N7:82:PRO:HD3	2.98	0.44
66:O0:13:LYS:HB3	66:O0:100:ILE:CG2	2.57	0.44
70:O4:34:HIS:N	70:O4:34:HIS:CD2	3.20	0.44
71:O5:88:LEU:C	71:O5:90:ARG:H	2.20	0.44
72:O6:66:GLU:HG2	72:O6:70:ARG:HH21	4.16	0.44
74:O8:10:GLN:HA	74:O8:13:GLU:CD	4.33	0.44
3:S1:72:ASP:OD2	28:D6:59:TYR:OH	2.27	0.44
4:S2:84:LYS:HA	4:S2:85:PRO:HD3	1.88	0.44
5:S3:18:TYR:HD2	31:D9:49:ASP:O	2.00	0.44
5:S3:72:LEU:HD22	12:C0:65:TYR:CD1	2.79	0.44
6:S4:92:LEU:HB3	6:S4:95:THR:CG2	3.83	0.44
7:S5:149:VAL:HG21	30:D8:66:LEU:HD22	1.99	0.44
7:S5:30:PRO:HB2	7:S5:33:VAL:HG21	2.00	0.44
9:S7:154:LEU:HD11	9:S7:183:PHE:CD1	2.53	0.44
11:S9:150:LEU:C	11:S9:152:SER:H	2.60	0.44
35:SM:140:ASP:HB2	35:SM:141:ALA:H	1.61	0.44
34:SR:82:SER:CB	34:SR:92:TRP:HE1	2.97	0.44
36:1:1349:G:H2'	36:1:1350:A:C4	2.53	0.43
36:1:210:U:O2	36:1:230:U:H4'	2.18	0.43
36:1:3035:A:OP2	85:1:3611:OHX:N3	2.51	0.43
36:1:3163:A:C2'	36:1:3164:C:H5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3165:A:H2'	36:1:3166:C:C6	2.53	0.43
36:1:374:A:H61	36:1:397:A:H61	1.64	0.43
36:1:656:A:H2'	36:1:657:A:C8	2.52	0.43
36:1:6:A:C2	38:4:154:C:C2	3.06	0.43
1:2:1165:G:O6	1:2:1166:A:N6	2.50	0.43
1:2:1174:C:C4	1:2:1175:U:C4	3.05	0.43
1:2:1514:U:H1'	5:S3:6:SER:HA	1.99	0.43
1:2:1545:A:C2	1:2:1546:G:C5	3.06	0.43
1:2:1629:G:H2'	1:2:1630:U:H6	1.83	0.43
1:2:1734:U:H2'	1:2:1735:U:C6	2.53	0.43
1:2:1767:G:N2	1:2:1768:G:O6	2.42	0.43
1:2:1783:C:H2'	1:2:1784:C:H6	1.83	0.43
1:2:704:C:H4'	1:2:705:U:OP1	2.17	0.43
1:2:901:G:H2'	1:2:902:G:C8	2.53	0.43
37:3:58:C:H2'	37:3:59:U:H6	1.83	0.43
38:4:65:A:C4	38:4:66:A:C8	3.06	0.43
36:5:65:A:H3'	36:5:111:C:N4	2.32	0.43
44:L7:159:GLN:HA	36:5:1362:G:O2'	217.90	0.43
36:5:1476:G:C5	36:5:1477:A:C8	3.06	0.43
36:5:2513:U:C2'	36:5:2592:G:H1	2.31	0.43
36:5:3153:U:H1'	36:5:3154:C:C6	2.53	0.43
36:5:3343:G:N2	36:5:3362:A:H2	2.14	0.43
67:O1:21:HIS:ND1	36:5:3376:A:C4	191.67	0.43
72:O6:28:TYR:O	85:5:3693:OHX:N2	103.65	0.43
36:5:87:U:H2'	36:5:88:A:H8	1.83	0.43
8:S6:190:GLN:NE2	1:6:265:A:N7	335.74	0.43
1:6:58:U:O2'	1:6:451:A:H1'	2.18	0.43
38:8:56:G:C2	38:8:57:C:C2	3.06	0.43
14:C2:126:TRP:O	14:C2:128:ALA:N	2.50	0.43
3:S1:66:VAL:HG22	16:C4:34:SER:HA	2.00	0.43
16:C4:41:ARG:O	16:C4:42:VAL:HG22	2.18	0.43
20:C8:84:TRP:C	20:C8:86:LEU:H	2.37	0.43
22:D0:23:ARG:O	22:D0:117:VAL:HG12	2.19	0.43
23:D1:2:GLU:HG2	23:D1:6:GLY:HA2	5.32	0.43
23:D1:74:GLN:HB2	23:D1:74:GLN:HE21	1.53	0.43
24:D2:17:ALA:HB2	24:D2:25:VAL:HG13	2.09	0.43
39:L2:57:PRO:O	39:L2:58:LEU:HD23	3.11	0.43
40:L3:299:ASP:O	40:L3:300:ARG:HB2	2.16	0.43
40:L3:332:ARG:NH1	40:L3:333:LYS:HD2	3.30	0.43
41:L4:343:LYS:HA	36:5:515:C:O3'	304.52	0.43
42:L5:290:ILE:H	42:L5:290:ILE:HG12	1.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:222:HIS:CE1	44:L7:224:ILE:HG13	2.53	0.43
44:L7:66:LYS:HG3	44:L7:76:TYR:HD2	1.83	0.43
45:L8:94:PHE:CD2	45:L8:189:LEU:HD21	5.10	0.43
46:L9:1:MET:O	46:L9:2:LYS:HB2	3.20	0.43
46:L9:41:ILE:HG23	46:L9:43:VAL:HG13	2.00	0.43
47:M0:50:VAL:O	47:M0:138:VAL:HG23	2.18	0.43
49:M3:119:TYR:O	49:M3:123:ILE:HG23	2.22	0.43
52:M6:172:ARG:HB3	52:M6:172:ARG:HE	1.51	0.43
53:M7:141:SER:O	53:M7:143:PRO:HD3	2.84	0.43
36:1:745:C:H5'	54:M8:145:ASN:OD1	2.16	0.43
54:M8:162:ALA:HA	54:M8:163:PRO:HD2	1.69	0.43
46:L9:4:ILE:HG22	56:N0:142:GLN:CD	2.38	0.43
56:N0:141:LYS:O	56:N0:143:PHE:N	2.51	0.43
56:N0:21:GLU:N	56:N0:22:PRO:HD3	2.33	0.43
56:N0:1:MET:HE2	56:N0:4:PHE:CE1	2.53	0.43
36:1:1063:G:C6	57:N1:109:VAL:HG22	2.53	0.43
58:N2:22:PRO:HB3	58:N2:107:PHE:HD1	1.83	0.43
65:N9:28:LYS:HB3	65:N9:29:TYR:CD1	2.53	0.43
67:O1:25:PHE:HD2	67:O1:28:ARG:HD2	1.82	0.43
53:M7:169:THR:HG23	69:O3:60:ARG:HH11	1.83	0.43
78:Q2:28:TYR:HB3	78:Q2:69:VAL:HB	2.00	0.43
39:L2:48:ILE:HD12	79:Q3:65:ALA:HB2	2.11	0.43
79:Q3:83:ILE:HD13	79:Q3:83:ILE:HA	1.83	0.43
5:S3:138:VAL:HG11	5:S3:182:LEU:HD13	5.30	0.43
8:S6:98:ARG:HD3	8:S6:99:GLY:N	2.32	0.43
9:S7:124:LYS:O	9:S7:128:ASP:N	2.92	0.43
1:2:856:A:H62	9:S7:96:ARG:HB3	1.83	0.43
11:S9:118:LEU:HD23	11:S9:158:PHE:CE1	3.77	0.43
11:S9:39:LYS:HB2	1:6:593:U:OP2	407.94	0.43
20:C8:145:ARG:CG	35:SM:68:ARG:HH12	4.33	0.43
34:SR:132:LYS:HB3	34:SR:140:CYS:SG	3.63	0.43
34:SR:18:GLY:N	34:SR:39:ASP:HB3	2.66	0.43
36:1:1000:C:H2'	36:1:1000:C:H6	1.54	0.43
36:1:1017:C:HO2'	36:1:1018:G:P	2.40	0.43
36:1:1340:G:H2'	36:1:1341:U:H6	1.82	0.43
36:1:1385:C:N4	36:1:1387:G:N7	2.66	0.43
36:1:2412:G:C2	36:1:2413:A:C4	3.06	0.43
36:1:342:A:C6	36:1:349:A:C8	3.06	0.43
1:2:1616:G:H2'	1:2:1617:U:C6	2.53	0.43
1:2:1153:G:N2	1:2:1625:C:N3	2.47	0.43
1:2:616:G:C2	1:2:622:A:N7	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:70:C:H6	1:2:70:C:O5'	2.01	0.43
36:5:1944:U:H2'	36:5:1945:A:C8	2.52	0.43
36:5:2136:C:O2'	36:5:2137:U:H5'	2.17	0.43
36:5:2317:A:OP2	85:5:3691:OHX:N4	2.51	0.43
36:5:281:G:C6	36:5:282:G:C6	3.05	0.43
36:5:2841:G:OP2	85:5:3641:OHX:N1	2.50	0.43
36:5:3275:U:O2'	36:5:3276:G:OP1	2.34	0.43
85:5:3407:OHX:N2	38:8:1:A:OP1	2.51	0.43
36:5:380:U:C2	36:5:390:G:N2	2.86	0.43
36:5:612:U:H2'	36:5:613:G:C8	2.53	0.43
1:6:1244:A:N3	1:6:1244:A:H3'	2.33	0.43
8:S6:108:VAL:HG11	1:6:153:G:O2'	304.55	0.43
1:6:240:U:H4'	1:6:241:U:OP2	2.18	0.43
1:6:705:U:HO2'	1:6:706:A:H8	1.64	0.43
48:M1:140:ARG:O	37:7:43:U:H4'	297.33	0.43
38:8:29:U:H2'	38:8:30:C:H6	1.83	0.43
61:N5:61:LYS:HZ3	38:8:59:A:H1'	69.19	0.43
38:8:68:G:P	85:8:203:OHX:N3	2.91	0.43
12:C0:44:LYS:HA	12:C0:44:LYS:HD3	1.87	0.43
13:C1:55:ASP:OD2	13:C1:58:CYS:N	2.51	0.43
13:C1:58:CYS:SG	13:C1:61:THR:N	2.77	0.43
14:C2:136:ILE:O	14:C2:140:PHE:HB2	2.18	0.43
15:C3:75:LEU:HD12	15:C3:75:LEU:H	2.37	0.43
3:S1:77:GLU:OE2	16:C4:114:ARG:NH2	3.98	0.43
16:C4:30:VAL:HG13	16:C4:39:ILE:O	2.18	0.43
17:C5:87:PRO:HA	17:C5:90:ILE:HG13	1.99	0.43
7:S5:69:PHE:HE2	18:C6:53:LEU:HD12	1.83	0.43
20:C8:101:LEU:O	20:C8:104:ASN:HB3	2.83	0.43
22:D0:39:SER:HA	22:D0:42:VAL:HG12	1.99	0.43
24:D2:6:VAL:CG1	24:D2:29:PRO:HD2	2.45	0.43
25:D3:13:ARG:HA	25:D3:16:ARG:HD3	2.00	0.43
25:D3:92:CYS:HA	25:D3:95:PHE:CD2	2.58	0.43
26:D4:53:ASP:O	26:D4:79:VAL:HG22	2.41	0.43
33:E1:136:LYS:HD3	33:E1:136:LYS:HA	2.99	0.43
40:L3:116:ARG:O	40:L3:119:TYR:N	3.23	0.43
40:L3:50:LYS:HG2	40:L3:332:ARG:HA	2.58	0.43
43:L6:130:ILE:HG22	43:L6:131:LYS:O	2.18	0.43
52:M6:59:ARG:HG2	52:M6:59:ARG:H	1.66	0.43
56:N0:141:LYS:C	56:N0:143:PHE:H	2.20	0.43
56:N0:1:MET:SD	56:N0:36:ILE:HG21	2.58	0.43
56:N0:42:TRP:HH2	56:N0:57:GLU:H	1.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:87:ARG:HH22	59:N3:137:VAL:CG2	2.30	0.43
63:N7:72:ILE:HD11	63:N7:107:ARG:HB3	2.81	0.43
69:O3:22:VAL:HG12	69:O3:22:VAL:O	2.18	0.43
70:O4:103:LYS:O	70:O4:107:GLU:HG3	2.19	0.43
74:O8:32:ASN:HD21	74:O8:34:ALA:HB3	5.57	0.43
75:O9:28:ARG:NH1	75:O9:36:ARG:HH11	8.87	0.43
75:O9:5:LYS:HG3	75:O9:5:LYS:H	1.61	0.43
76:Q0:114:LYS:HG2	76:Q0:115:CYS:H	2.64	0.43
79:Q3:13:LYS:HE3	79:Q3:14:TYR:CZ	2.52	0.43
79:Q3:30:GLU:HG2	79:Q3:34:HIS:NE2	2.34	0.43
79:Q3:46:THR:HB	79:Q3:58:SER:H	1.83	0.43
2:S0:86:VAL:HG12	2:S0:174:TRP:CZ2	2.53	0.43
3:S1:27:LYS:NZ	3:S1:49:ASN:OD1	3.86	0.43
6:S4:85:GLY:O	6:S4:88:ASP:HB2	2.76	0.43
7:S5:187:ILE:HG13	7:S5:187:ILE:H	2.97	0.43
9:S7:102:PRO:HD3	9:S7:112:ARG:HD3	2.52	0.43
10:S8:39:GLY:N	10:S8:60:ILE:O	2.30	0.43
34:SR:245:PHE:CD1	34:SR:252:LEU:HD13	2.53	0.43
34:SR:59:ARG:HE	34:SR:97:GLY:N	3.54	0.43
36:1:1014:U:H2'	36:1:1015:U:H5''	2.01	0.43
36:1:1039:U:H2'	36:1:1040:A:H8	1.78	0.43
36:1:1646:G:H1'	36:1:1808:G:N2	2.33	0.43
36:1:1813:A:C3'	36:1:1814:A:H5''	2.49	0.43
36:1:2396:G:H4'	36:1:2397:A:OP2	2.18	0.43
85:1:3569:OHX:N6	85:1:3582:OHX:N5	2.66	0.43
85:1:3616:OHX:N6	85:1:3689:OHX:N3	2.66	0.43
36:1:679:U:H2'	36:1:680:G:H8	1.83	0.43
36:1:985:U:H5''	44:L7:98:LYS:HD3	1.99	0.43
1:2:1155:G:C6	1:2:1156:C:C4	3.06	0.43
1:2:1198:G:H4'	22:D0:72:ASN:O	2.18	0.43
1:2:1601:G:OP1	21:C9:86:ARG:NH2	2.49	0.43
1:2:87:C:O2'	1:2:169:A:N1	2.48	0.43
1:2:218:A:N1	1:2:843:U:O2'	2.50	0.43
1:2:61:A:H8	1:2:269:G:O2'	1.99	0.43
1:2:652:G:H1	1:2:682:C:N4	2.17	0.43
1:2:896:U:C4'	16:C4:38:THR:HG21	2.48	0.43
38:4:120:C:H2'	38:4:121:U:O4'	2.19	0.43
38:4:154:C:H2'	38:4:155:A:O4'	2.17	0.43
36:5:1228:C:H2'	36:5:1229:G:C8	2.53	0.43
36:5:1246:G:O5'	36:5:1246:G:H8	2.01	0.43
36:5:1146:C:H4'	36:5:1331:U:C5	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1343:A:C2	36:5:1362:G:C2	3.06	0.43
39:L2:70:ARG:HH22	36:5:2522:G:H1	173.54	0.43
36:5:277:G:H2'	36:5:278:U:C6	2.53	0.43
36:5:1205:A:H4'	36:5:2835:U:O2'	2.17	0.43
36:5:3133:C:H2'	36:5:3134:A:O4'	2.17	0.43
36:5:3194:C:H2'	36:5:3195:U:H3'	2.00	0.43
36:5:107:A:O2'	36:5:324:A:N3	2.43	0.43
85:5:3570:OHX:N3	85:5:3647:OHX:N4	2.66	0.43
36:5:786:A:H4'	36:5:787:G:OP1	2.17	0.43
36:5:962:A:N1	36:5:2814:G:O2'	2.44	0.43
36:5:985:U:H2'	36:5:986:U:H6	1.83	0.43
1:6:112:A:C6	1:6:113:U:O4	2.72	0.43
1:6:485:A:N6	1:6:486:G:N3	2.66	0.43
9:S7:118:LEU:N	1:6:639:U:OP1	366.49	0.43
13:C1:30:ARG:H	13:C1:30:ARG:HG2	3.43	0.43
15:C3:127:ARG:NH2	1:6:629:U:OP1	307.28	0.43
15:C3:21:ASN:N	15:C3:21:ASN:OD1	2.51	0.43
18:C6:18:ALA:HB3	18:C6:80:ALA:O	2.32	0.43
17:C5:110:GLU:HG3	20:C8:119:ILE:HD11	1.99	0.43
1:2:1459:C:H5''	20:C8:131:LEU:HD21	1.99	0.43
20:C8:64:GLU:O	20:C8:66:LEU:N	3.30	0.43
29:D7:29:ARG:HA	29:D7:29:ARG:HD3	2.27	0.43
7:S5:81:ARG:HH21	30:D8:47:PRO:HB3	1.83	0.43
39:L2:133:TYR:HB3	39:L2:168:VAL:HG12	2.14	0.43
40:L3:188:ILE:HD12	40:L3:189:SER:N	2.33	0.43
40:L3:77:THR:HG23	40:L3:324:VAL:HG12	3.94	0.43
41:L4:107:ARG:HG2	41:L4:108:LYS:N	2.33	0.43
41:L4:157:GLU:HG2	41:L4:209:TYR:HB2	2.00	0.43
42:L5:184:ASP:CG	42:L5:187:THR:HG22	2.39	0.43
44:L7:202:LEU:HD23	44:L7:202:LEU:HA	3.93	0.43
45:L8:230:LYS:HG3	45:L8:230:LYS:O	2.24	0.43
45:L8:73:PRO:HD3	45:L8:233:TRP:CE2	2.54	0.43
46:L9:176:LEU:O	46:L9:180:TYR:OH	2.93	0.43
46:L9:43:VAL:HG11	46:L9:71:VAL:HG21	2.66	0.43
47:M0:55:ASN:ND2	47:M0:164:LYS:HE3	4.42	0.43
48:M1:16:LYS:HG2	48:M1:130:VAL:CG1	2.48	0.43
48:M1:28:ASP:OD2	48:M1:32:ARG:NH2	5.00	0.43
51:M5:137:PRO:HD2	51:M5:138:GLN:NE2	2.33	0.43
51:M5:172:ARG:HH22	36:5:63:A:P	101.18	0.43
51:M5:36:ILE:HG13	51:M5:64:VAL:HG23	3.50	0.43
52:M6:110:PRO:O	52:M6:111:PRO:C	3.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:41:LEU:HD23	52:M6:138:LEU:HD22	2.00	0.43
52:M6:62:THR:HA	36:5:1306:G:C6	233.09	0.43
53:M7:111:LYS:HE2	53:M7:152:GLU:HB3	4.97	0.43
55:M9:127:SER:C	55:M9:129:GLY:N	2.72	0.43
55:M9:59:SER:OG	55:M9:61:SER:HB3	4.39	0.43
59:N3:85:TRP:CE2	59:N3:93:LEU:HD21	2.56	0.43
60:N4:79:GLN:HA	60:N4:80:ARG:CG	2.48	0.43
60:N4:93:ARG:HA	60:N4:93:ARG:HD3	4.16	0.43
63:N7:58:GLY:O	63:N7:62:VAL:HG23	2.44	0.43
63:N7:10:VAL:O	63:N7:83:THR:HG22	2.28	0.43
70:O4:83:ASN:HA	70:O4:86:LYS:HB3	2.99	0.43
71:O5:115:LYS:HB2	71:O5:115:LYS:HE2	2.36	0.43
71:O5:30:GLU:O	71:O5:34:GLN:HG3	2.53	0.43
5:S3:194:LYS:O	5:S3:196:ARG:N	2.51	0.43
5:S3:34:TYR:HE2	5:S3:37:VAL:HG13	1.99	0.43
5:S3:61:GLU:O	5:S3:63:GLY:N	2.52	0.43
7:S5:94:THR:CG2	7:S5:114:ILE:HG13	2.66	0.43
7:S5:48:PHE:CG	7:S5:67:PRO:HB3	2.53	0.43
7:S5:77:TYR:OH	7:S5:88:PRO:HD2	2.18	0.43
8:S6:194:LYS:HE3	8:S6:194:LYS:HB2	4.39	0.43
8:S6:58:LYS:O	8:S6:59:GLN:NE2	2.51	0.43
10:S8:9:HIS:CD2	10:S8:10:LYS:HB2	2.53	0.43
10:S8:22:ARG:NH1	10:S8:25:ARG:HD2	4.38	0.43
10:S8:26:LYS:O	10:S8:29:LEU:HD22	2.19	0.43
10:S8:6:ASP:OD1	10:S8:8:ARG:HB2	3.24	0.43
36:1:1382:G:P	41:L4:188:ARG:HH12	2.42	0.43
36:1:145:G:O6	85:1:3511:OHX:N4	2.52	0.43
36:1:2366:C:H2'	36:1:2367:A:C8	2.53	0.43
36:1:2828:G:C2	36:1:2829:U:H1'	2.52	0.43
36:1:2859:U:H4'	36:1:2860:U:OP1	2.18	0.43
36:1:3015:G:N2	36:1:3040:A:H1'	2.33	0.43
36:1:365:A:P	41:L4:84:ARG:HD3	2.58	0.43
85:1:3497:OHX:N5	85:1:3678:OHX:N6	2.67	0.43
36:1:2841:G:OP2	85:1:3681:OHX:N2	2.52	0.43
85:1:3565:OHX:N6	85:1:3685:OHX:N5	2.66	0.43
36:1:721:G:C2	36:1:722:G:C8	3.07	0.43
36:1:747:A:H2'	36:1:748:U:O4'	2.17	0.43
36:1:855:U:H2'	36:1:856:G:O4'	2.18	0.43
1:2:565:C:O2	85:2:1917:OHX:N5	2.51	0.43
1:2:647:G:N2	1:2:687:G:H1	2.15	0.43
1:2:71:A:H2'	1:2:72:A:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:868:G:C2	1:2:961:U:C2	3.06	0.43
36:5:1228:C:H2'	36:5:1229:G:H8	1.83	0.43
36:5:1238:C:HO2'	36:5:1239:C:P	2.34	0.43
36:5:175:C:H2'	36:5:176:G:H8	1.83	0.43
36:5:2795:U:O2	36:5:2800:G:O2'	2.23	0.43
36:5:3017:A:H2'	36:5:3018:C:H6	1.83	0.43
85:5:3504:OHX:N3	85:5:3594:OHX:N1	2.67	0.43
36:5:371:G:O6	85:5:3709:OHX:N5	2.51	0.43
85:5:3718:OHX:N4	85:5:3728:OHX:N3	2.65	0.43
1:6:1277:G:C6	1:6:1278:G:C4	3.07	0.43
1:6:192:U:HO2'	1:6:193:U:P	2.41	0.43
1:6:320:U:H3'	1:6:321:C:H2'	2.00	0.43
1:6:674:C:H2'	1:6:675:U:C6	2.53	0.43
1:6:711:U:C2	1:6:728:U:C2	3.07	0.43
42:L5:33:ARG:HD2	37:7:7:G:OP1	271.06	0.43
38:8:70:G:O6	85:8:203:OHX:N5	2.51	0.43
13:C1:83:THR:HA	13:C1:111:VAL:HG12	2.09	0.43
13:C1:59:PRO:HG2	13:C1:60:PHE:CE2	2.53	0.43
17:C5:111:MET:HG2	20:C8:119:ILE:CG1	4.06	0.43
22:D0:15:GLN:O	22:D0:16:GLN:HB2	4.60	0.43
22:D0:68:ARG:CZ	22:D0:77:LYS:HA	2.48	0.43
26:D4:63:GLN:HG3	26:D4:64:PHE:N	2.59	0.43
33:E1:98:VAL:HG13	33:E1:99:LYS:N	2.33	0.43
39:L2:101:VAL:HA	39:L2:164:GLY:O	2.81	0.43
39:L2:144:ASN:HB2	39:L2:160:SER:HB2	2.01	0.43
39:L2:243:THR:OG1	36:5:2244:A:H5''	228.62	0.43
40:L3:92:TYR:OH	40:L3:180:GLU:OE1	2.30	0.43
41:L4:80:GLY:HA2	41:L4:85:SER:CB	2.48	0.43
44:L7:153:PHE:CE1	44:L7:162:PRO:HB3	2.53	0.43
45:L8:161:GLU:HA	45:L8:164:VAL:HG22	2.07	0.43
45:L8:82:LEU:HA	45:L8:82:LEU:HD12	1.87	0.43
47:M0:129:VAL:HA	47:M0:133:GLN:OE1	2.19	0.43
47:M0:141:LYS:C	47:M0:143:SER:H	2.16	0.43
47:M0:76:MET:HE2	47:M0:76:MET:HA	4.08	0.43
48:M1:137:ARG:O	48:M1:139:THR:N	2.52	0.43
51:M5:160:GLU:CD	51:M5:160:GLU:H	2.68	0.43
52:M6:88:VAL:O	52:M6:90:HIS:N	2.51	0.43
54:M8:25:TYR:N	54:M8:25:TYR:CD2	2.87	0.43
56:N0:117:ARG:HG2	56:N0:117:ARG:H	1.41	0.43
56:N0:139:TYR:CD2	56:N0:140:VAL:HG23	2.53	0.43
42:L5:17:GLN:HE22	57:N1:22:HIS:N	2.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:107:ARG:O	63:N7:111:LYS:N	2.89	0.43
63:N7:81:LEU:HD23	63:N7:81:LEU:HA	1.81	0.43
72:O6:79:SER:HB3	72:O6:80:PHE:H	1.60	0.43
73:O7:71:SER:O	73:O7:74:PHE:HB3	2.18	0.43
75:O9:5:LYS:HE3	75:O9:13:MET:HE1	2.01	0.43
78:Q2:37:ALA:O	78:Q2:40:LYS:N	2.51	0.43
79:Q3:59:CYS:C	79:Q3:61:LYS:H	2.15	0.43
2:S0:30:GLN:HG3	2:S0:46:HIS:CE1	2.53	0.43
3:S1:84:ILE:HG22	3:S1:86:LEU:HD22	2.00	0.43
4:S2:157:LYS:HD3	4:S2:168:ARG:HH21	3.17	0.43
7:S5:110:ALA:O	7:S5:113:ILE:N	2.51	0.43
7:S5:166:ARG:HB2	30:D8:46:GLY:HA3	1.98	0.43
8:S6:27:PHE:HB3	8:S6:102:VAL:HG11	2.11	0.43
9:S7:21:ALA:O	9:S7:25:VAL:HG23	2.35	0.43
9:S7:38:LEU:N	9:S7:40:PRO:HD2	2.32	0.43
9:S7:60:ILE:HD12	9:S7:92:PHE:CE2	2.67	0.43
11:S9:54:ARG:HA	11:S9:57:ARG:HH21	1.84	0.43
11:S9:97:LEU:C	11:S9:99:LEU:H	4.19	0.43
34:SR:106:HIS:CD2	34:SR:132:LYS:HD2	3.65	0.43
34:SR:158:PRO:HG2	34:SR:208:GLY:HA2	4.83	0.43
36:1:1461:A:H2'	36:1:1462:A:H8	1.83	0.43
36:1:1846:C:H3'	36:1:1847:A:H8	1.83	0.43
36:1:2438:A:H2'	36:1:2439:A:C8	2.54	0.43
36:1:2989:U:O3'	40:L3:232:ARG:NH2	2.51	0.43
36:1:535:G:O2'	36:1:554:A:N1	2.46	0.43
36:1:910:G:C5	36:1:911:C:C4	3.07	0.43
1:2:1039:A:HO2'	1:2:1040:G:P	2.42	0.43
1:2:1157:A:H2'	1:2:1160:A:N7	2.34	0.43
1:2:304:U:C2	1:2:305:C:C5	3.07	0.43
1:2:158:U:O4	1:2:420:A:H4'	2.19	0.43
1:2:694:U:N3	9:S7:98:ILE:HD12	2.33	0.43
1:2:755:A:HO2'	1:2:756:A:P	2.41	0.43
1:2:918:U:H2'	1:2:919:A:H8	1.83	0.43
36:5:1102:A:H4'	36:5:1103:A:C5	2.54	0.43
36:5:1440:G:H2'	36:5:1441:G:C8	2.54	0.43
36:5:1692:U:H2'	36:5:1693:C:H6	1.79	0.43
36:5:1773:C:H2'	36:5:1774:C:H6	1.83	0.43
36:5:286:U:H2'	36:5:287:G:C8	2.54	0.43
36:5:2885:C:O2'	36:5:2886:U:H5'	2.18	0.43
36:5:2911:A:C2	36:5:2936:A:N6	2.86	0.43
36:5:3121:U:H4'	36:5:3122:A:OP1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:96:G:H2'	36:5:97:U:O4'	2.18	0.43
1:6:609:U:C4	1:6:1108:G:C5	3.06	0.43
1:6:1228:G:N3	1:6:1228:G:H2'	2.33	0.43
1:6:9:U:O2	1:6:12:U:H5	2.00	0.43
1:6:1322:A:H2'	1:6:1323:C:C6	2.52	0.43
1:6:1388:A:H4'	1:6:1389:C:O5'	2.18	0.43
1:6:1780:G:N3	36:5:2262:A:O2'	2.45	0.43
1:6:214:G:N7	85:6:2004:OHX:N2	2.65	0.43
25:D3:69:ARG:HH12	1:6:569:C:H41	363.12	0.43
1:6:73:U:N3	1:6:74:U:C4	2.87	0.43
1:6:811:A:N3	1:6:858:G:H1'	2.34	0.43
38:8:67:U:H2'	38:8:68:G:C8	2.53	0.43
13:C1:55:ASP:HB2	13:C1:82:ARG:CZ	2.48	0.43
15:C3:24:ALA:O	15:C3:27:LYS:HE2	7.44	0.43
15:C3:40:TYR:CE2	15:C3:53:LEU:HD23	2.91	0.43
16:C4:60:ALA:HB1	16:C4:101:ALA:HB2	3.10	0.43
2:S0:205:ARG:HH22	19:C7:84:TYR:H	7.89	0.43
20:C8:3:LEU:HD23	20:C8:5:VAL:HG13	2.01	0.43
21:C9:10:ALA:HB3	21:C9:13:ASP:HB2	4.16	0.43
22:D0:20:ILE:HG13	22:D0:95:ALA:O	2.18	0.43
25:D3:17:VAL:HG22	25:D3:20:ARG:HH12	2.94	0.43
28:D6:4:LYS:HB3	28:D6:89:ARG:HH12	1.83	0.43
33:E1:98:VAL:O	33:E1:99:LYS:HG2	3.07	0.43
39:L2:55:GLY:O	39:L2:56:ALA:HB3	4.59	0.43
41:L4:135:VAL:HA	41:L4:245:GLY:O	2.18	0.43
46:L9:23:ARG:NH2	46:L9:42:ASP:H	2.16	0.43
46:L9:86:TYR:O	46:L9:147:SER:HA	2.18	0.43
47:M0:146:ASP:N	47:M0:146:ASP:OD2	2.41	0.43
52:M6:10:ASP:OD2	52:M6:37:ARG:NH2	2.59	0.43
52:M6:124:LEU:HD12	52:M6:124:LEU:HA	1.85	0.43
54:M8:33:TYR:CE1	54:M8:36:LEU:HD12	4.03	0.43
55:M9:90:PRO:HG2	55:M9:93:VAL:CG2	3.34	0.43
59:N3:11:PHE:CE1	59:N3:88:ARG:HD2	2.54	0.43
62:N6:39:LEU:HD11	62:N6:107:THR:O	2.18	0.43
62:N6:60:ARG:NH1	36:5:190:U:N3	82.42	0.43
63:N7:11:ALA:HB3	63:N7:23:VAL:CG2	2.78	0.43
63:N7:11:ALA:HB1	63:N7:80:LEU:HD22	2.74	0.43
64:N8:7:LYS:HA	64:N8:7:LYS:HD3	1.51	0.43
65:N9:23:LYS:HD2	65:N9:23:LYS:HA	1.73	0.43
66:O0:22:LYS:H	66:O0:94:GLU:HB2	1.83	0.43
68:O2:11:LYS:O	68:O2:13:HIS:N	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:O2:16:LYS:O	68:O2:17:PHE:HB2	4.70	0.43
36:1:2138:A:C5	73:O7:3:LYS:HB3	2.53	0.43
2:S0:180:GLU:HA	2:S0:183:ARG:HB2	2.00	0.43
2:S0:198:MET:SD	2:S0:199:PRO:HD2	2.58	0.43
3:S1:61:LEU:HD23	3:S1:62:LYS:H	1.82	0.43
3:S1:81:PHE:HD2	3:S1:82:ARG:HG3	1.84	0.43
5:S3:21:LEU:HD23	5:S3:21:LEU:HA	1.76	0.43
6:S4:139:VAL:HG13	6:S4:150:PRO:HG3	2.00	0.43
6:S4:19:LEU:HD11	6:S4:108:ARG:NH2	3.30	0.43
8:S6:5:ILE:HD12	8:S6:16:PHE:CD2	2.54	0.43
8:S6:58:LYS:HB2	8:S6:59:GLN:OE1	2.18	0.43
9:S7:39:ARG:N	9:S7:40:PRO:HD2	2.33	0.43
9:S7:97:ARG:HB2	9:S7:97:ARG:HH11	5.26	0.43
11:S9:116:LEU:O	11:S9:118:LEU:HD12	3.64	0.43
36:1:1019:G:N7	85:1:3595:OHX:N4	2.66	0.43
36:1:1132:C:C2	36:1:1133:A:C8	3.06	0.43
36:1:507:U:O2'	36:1:1166:G:H4'	2.18	0.43
36:1:1175:C:O2	52:M6:87:MET:HG2	2.18	0.43
36:1:1882:G:O2'	36:1:1883:A:H5'	2.19	0.43
36:1:2270:A:H2'	36:1:2271:A:C8	2.53	0.43
36:1:2749:G:O6	85:1:3652:OHX:N2	2.51	0.43
36:1:2837:A:C2	36:1:2850:G:C2	3.07	0.43
36:1:3019:U:C4	36:1:3020:U:C4	3.07	0.43
36:1:320:G:H2'	36:1:321:C:C6	2.53	0.43
36:1:3333:G:O2'	60:N4:50:ALA:HB3	2.19	0.43
85:1:3556:OHX:N6	85:1:3594:OHX:N2	2.67	0.43
36:1:1124:U:O4	85:1:3651:OHX:N6	2.51	0.43
1:2:1527:C:H2'	1:2:1528:U:C6	2.53	0.43
1:2:503:G:O2'	1:2:504:U:OP1	2.27	0.43
1:2:790:U:H2'	1:2:791:A:O4'	2.19	0.43
36:5:129:U:H2'	36:5:130:A:H8	1.81	0.43
36:5:130:A:C6	36:5:139:G:C6	3.06	0.43
36:5:1819:U:H2'	36:5:1820:U:C5'	2.49	0.43
36:5:2110:G:O2'	36:5:2111:G:H5''	2.19	0.43
36:5:2211:U:H5	36:5:2234:G:H1	1.66	0.43
36:5:2655:U:C2	36:5:2656:A:C6	3.06	0.43
36:5:2696:A:H2'	36:5:2697:A:C8	2.53	0.43
36:5:3276:G:OP2	36:5:3276:G:H2'	2.19	0.43
36:5:3354:U:H4'	36:5:3355:U:C5'	2.49	0.43
1:6:1244:A:O2'	1:6:1245:G:O5'	2.27	0.43
1:6:276:C:O2'	1:6:277:U:H5''	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:330:G:H2'	1:6:331:A:H8	1.82	0.43
1:6:763:G:C6	1:6:764:U:C4	3.06	0.43
1:6:813:U:H3'	1:6:814:A:H4'	2.00	0.43
1:6:84:A:H2'	1:6:85:A:O4'	2.18	0.43
1:6:879:G:C2	1:6:950:C:C2	3.07	0.43
37:7:26:C:H2'	37:7:27:A:O4'	2.19	0.43
38:8:83:C:C4'	38:8:85:G:H21	2.32	0.43
14:C2:67:THR:O	14:C2:69:ALA:N	2.79	0.43
15:C3:54:LEU:HA	15:C3:58:HIS:HB2	1.99	0.43
17:C5:122:THR:HG22	17:C5:123:TYR:CD1	6.61	0.43
17:C5:78:THR:OG1	17:C5:79:HIS:N	2.73	0.43
5:S3:207:THR:HB	19:C7:40:THR:OG1	2.19	0.43
21:C9:118:PRO:O	21:C9:119:LYS:HB2	2.18	0.43
22:D0:16:GLN:HB2	22:D0:17:GLN:NE2	2.33	0.43
26:D4:81:GLU:O	26:D4:85:PHE:HB2	2.41	0.43
39:L2:17:THR:H	39:L2:17:THR:HG23	1.54	0.43
39:L2:54:ARG:HG2	39:L2:55:GLY:O	4.91	0.43
40:L3:188:ILE:HG13	40:L3:188:ILE:H	1.68	0.43
40:L3:224:HIS:HB2	40:L3:270:ARG:HG2	2.44	0.43
41:L4:185:LYS:NZ	41:L4:201:GLN:HG2	2.33	0.43
43:L6:159:LEU:HD23	43:L6:159:LEU:HA	1.79	0.43
44:L7:214:TRP:CE2	44:L7:219:LYS:HE3	4.27	0.43
47:M0:50:VAL:HG13	47:M0:167:LEU:HD13	5.27	0.43
48:M1:38:GLU:C	48:M1:40:LEU:H	2.96	0.43
50:M4:72:LEU:HA	50:M4:73:PRO:HD3	1.78	0.43
51:M5:177:GLY:HA2	36:5:68:C:O3'	110.52	0.43
52:M6:171:LYS:NZ	36:5:3180:A:OP1	282.68	0.43
53:M7:60:PHE:HB3	53:M7:64:ASN:HB3	2.68	0.43
56:N0:44:PHE:O	56:N0:47:LYS:N	2.46	0.43
57:N1:16:GLN:HB3	57:N1:17:ARG:H	1.59	0.43
59:N3:66:LYS:O	59:N3:68:GLU:N	2.51	0.43
61:N5:88:MET:SD	61:N5:120:LYS:HB2	2.58	0.43
62:N6:104:LEU:HD23	62:N6:104:LEU:HA	1.83	0.43
62:N6:35:LEU:CD1	62:N6:45:ILE:HG22	2.48	0.43
62:N6:50:ILE:HG12	62:N6:51:ARG:H	3.49	0.43
64:N8:62:HIS:CE1	36:5:304:G:C6	123.27	0.43
66:O0:40:LYS:HD3	66:O0:93:LEU:O	2.18	0.43
71:O5:64:GLU:OE1	71:O5:68:GLN:NE2	5.61	0.43
75:O9:8:ARG:O	75:O9:12:LYS:HG3	2.18	0.43
77:Q1:2:ARG:NH1	77:Q1:4:LYS:HD2	3.91	0.43
77:Q1:4:LYS:HG3	77:Q1:5:TRP:CE3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Q3:24:ARG:O	79:Q3:27:LYS:HB3	2.51	0.43
2:S0:23:HIS:HA	2:S0:48:ILE:HB	2.00	0.43
2:S0:63:ILE:HD12	2:S0:158:VAL:HG11	3.39	0.43
6:S4:180:LEU:HA	6:S4:180:LEU:HD23	1.87	0.43
7:S5:128:ASN:HB3	7:S5:130:ILE:HG22	2.82	0.43
7:S5:166:ARG:HD3	30:D8:45:LYS:HG3	2.01	0.43
7:S5:59:VAL:C	7:S5:61:TYR:H	2.22	0.43
9:S7:109:VAL:HG22	9:S7:110:GLN:N	2.34	0.43
9:S7:131:PHE:HB3	9:S7:132:PRO:HD3	1.99	0.43
9:S7:155:ASP:CG	9:S7:156:SER:H	2.49	0.43
11:S9:149:ARG:H	11:S9:149:ARG:HG2	1.39	0.43
36:1:2228:A:H2'	36:1:2229:A:H8	1.81	0.43
36:1:2258:U:OP1	85:1:3469:OHX:N5	2.51	0.43
36:1:3243:A:N7	52:M6:156:LEU:HB3	2.33	0.43
36:1:73:C:O2	49:M3:59:ARG:HG2	2.19	0.43
1:2:1217:A:H5'	1:2:1217:A:H8	1.84	0.43
1:2:1736:G:H2'	1:2:1737:G:O4'	2.19	0.43
85:2:1953:OHX:N6	85:2:2040:OHX:N5	2.66	0.43
1:2:351:C:H4'	1:2:352:A:OP2	2.18	0.43
38:4:53:A:C4	38:4:54:A:C8	3.07	0.43
36:5:1317:A:C2	36:5:1319:G:C6	3.06	0.43
36:5:1329:U:HO2'	36:5:1330:A:P	2.39	0.43
36:5:1583:A:C2	36:5:1584:U:H1'	2.54	0.43
36:5:1908:A:H2'	36:5:1909:A:O4'	2.19	0.43
36:5:2181:C:H2'	36:5:2182:A:O4'	2.18	0.43
36:5:2656:A:C4	36:5:2658:G:N7	2.87	0.43
36:5:728:G:H2'	36:5:729:C:O4'	2.19	0.43
1:6:1298:U:H2'	1:6:1299:G:O4'	2.19	0.43
12:C0:71:GLU:H	12:C0:71:GLU:HG2	1.72	0.43
15:C3:46:THR:HG23	15:C3:49:GLN:NE2	2.61	0.43
24:D2:28:ARG:HA	24:D2:29:PRO:HA	1.69	0.43
25:D3:5:LYS:HA	25:D3:6:PRO:HD2	1.79	0.43
26:D4:87:PRO:HG2	26:D4:90:ARG:HG3	3.20	0.43
36:1:911:C:H42	39:L2:3:ARG:HD3	1.84	0.43
40:L3:87:VAL:HB	40:L3:110:LEU:HD11	2.01	0.43
40:L3:168:LYS:HB3	40:L3:319:ASN:OD1	2.19	0.43
36:1:2947:G:C4	40:L3:250:ALA:HB1	2.54	0.43
40:L3:34:LYS:HG3	40:L3:35:ASP:N	2.33	0.43
40:L3:380:MET:O	36:5:3369:G:N1	228.22	0.43
40:L3:53:MET:HB3	40:L3:77:THR:HA	2.01	0.43
40:L3:9:PRO:HG2	36:5:3043:C:H5'	252.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:31:ARG:NE	54:M8:23:ASN:HB2	2.33	0.43
42:L5:227:LEU:O	42:L5:229:ASP:N	2.82	0.43
42:L5:257:GLU:O	42:L5:258:LYS:HB2	2.18	0.43
42:L5:279:LYS:HD2	42:L5:282:ARG:NH1	4.78	0.43
43:L6:170:LYS:O	43:L6:171:PRO:C	2.83	0.43
43:L6:18:LEU:HD12	43:L6:18:LEU:H	4.10	0.43
43:L6:47:PHE:HE2	43:L6:77:ARG:HE	2.39	0.43
44:L7:132:PRO:HA	44:L7:229:PHE:CG	2.53	0.43
44:L7:92:ILE:HD12	44:L7:92:ILE:HA	1.70	0.43
45:L8:193:LYS:HB2	45:L8:193:LYS:HE3	1.74	0.43
46:L9:93:VAL:O	46:L9:99:ILE:HD11	2.17	0.43
48:M1:108:GLU:HA	48:M1:122:ILE:HG23	2.40	0.43
48:M1:152:HIS:HD2	48:M1:153:LYS:N	4.18	0.43
48:M1:37:LEU:HD23	48:M1:37:LEU:HA	1.85	0.43
48:M1:57:PHE:N	48:M1:57:PHE:HD1	2.61	0.43
49:M3:42:ARG:O	49:M3:46:ILE:HB	2.19	0.43
50:M4:49:PRO:O	50:M4:51:ALA:N	3.23	0.43
62:N6:23:PRO:O	62:N6:27:ARG:HG3	3.58	0.43
64:N8:82:ILE:HB	64:N8:87:ARG:HG3	2.00	0.43
66:O0:40:LYS:HD2	66:O0:40:LYS:N	2.33	0.43
66:O0:14:LEU:HD21	66:O0:43:ILE:HD13	2.51	0.43
66:O0:74:ASN:C	66:O0:86:ARG:HB2	3.35	0.43
69:O3:39:GLN:C	69:O3:41:ALA:N	2.72	0.43
71:O5:89:ARG:HD2	38:8:38:U:O4	67.85	0.43
72:O6:62:ARG:HB3	72:O6:63:ASN:OD1	2.17	0.43
74:O8:4:GLU:HG2	74:O8:5:ILE:N	2.32	0.43
4:S2:72:LEU:HD12	4:S2:72:LEU:HA	1.70	0.43
5:S3:46:THR:O	5:S3:84:ILE:HA	2.19	0.43
6:S4:136:VAL:HG13	6:S4:149:TYR:CE1	2.54	0.43
7:S5:43:PHE:N	7:S5:46:TRP:H	2.58	0.43
11:S9:78:ARG:HG3	11:S9:79:ARG:N	2.33	0.43
34:SR:183:LEU:HD22	34:SR:186:PHE:HE1	1.84	0.43
36:1:1093:A:OP1	36:1:1093:A:H4'	2.19	0.43
36:1:1461:A:H2'	36:1:1462:A:C8	2.53	0.43
36:1:1565:G:H1'	36:1:1575:A:C2	2.54	0.43
36:1:2341:A:O3'	36:1:3090:U:H4'	2.19	0.43
36:1:2369:G:H2'	36:1:2370:G:C1'	2.48	0.43
36:1:255:A:H2'	36:1:256:G:C8	2.52	0.43
36:1:3286:G:H3'	36:1:3287:U:H5''	2.00	0.43
36:1:3330:A:H5''	36:1:3330:A:H8	1.82	0.43
36:1:3376:A:OP2	85:1:3442:OHX:N5	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:1:3556:OHX:N6	85:1:3594:OHX:N5	2.66	0.43
36:1:587:U:C2'	36:1:588:G:H5'	2.48	0.43
36:1:833:G:H2'	36:1:834:U:O4'	2.19	0.43
36:1:975:C:H2'	36:1:976:U:C6	2.53	0.43
1:2:1460:A:OP2	35:SM:68:ARG:HD3	2.18	0.43
1:2:730:G:O6	85:2:2035:OHX:N4	2.52	0.43
36:5:102:C:O5'	36:5:102:C:H6	2.02	0.43
36:5:1081:U:O2'	36:5:1082:U:OP2	2.36	0.43
36:5:1192:C:O2'	36:5:1193:A:O5'	2.30	0.43
36:5:1265:U:O2	36:5:1277:C:H1'	2.19	0.43
36:5:1445:U:H5''	36:5:1446:A:OP2	2.19	0.43
36:5:1846:C:H5'	36:5:1849:C:N4	2.33	0.43
36:5:1845:G:N2	36:5:1851:G:C4	2.87	0.43
36:5:1856:C:H2'	36:5:1857:C:H6	1.81	0.43
36:5:2095:G:H2'	36:5:2096:A:H8	1.84	0.43
54:M8:55:SER:HB3	36:5:671:U:H5''	161.24	0.43
1:6:1466:G:H2'	1:6:1467:C:C6	2.54	0.43
1:6:1500:C:H2'	1:6:1501:C:C6	2.53	0.43
26:D4:37:LYS:HE3	1:6:523:G:OP2	413.16	0.43
1:6:639:U:H1'	1:6:640:U:C6	2.54	0.43
45:L8:185:ARG:HG3	38:8:154:C:O2'	140.94	0.43
12:C0:21:VAL:HB	12:C0:66:TYR:HB2	2.39	0.43
15:C3:33:VAL:HG21	15:C3:66:ILE:CG1	2.48	0.43
21:C9:94:ILE:HD12	21:C9:94:ILE:HA	1.87	0.43
29:D7:61:THR:OG1	29:D7:62:ILE:N	3.01	0.43
32:E0:40:TYR:HD2	32:E0:44:PHE:HE1	7.03	0.43
39:L2:112:ILE:HG22	39:L2:135:ILE:HG23	5.48	0.43
39:L2:220:GLY:O	39:L2:221:LYS:HG3	2.19	0.43
39:L2:44:ILE:C	39:L2:61:VAL:HG23	6.02	0.43
39:L2:66:PRO:HB2	39:L2:67:TYR:CE2	3.06	0.43
36:1:2393:G:H4'	40:L3:252:ILE:HB	2.00	0.43
40:L3:37:ARG:CA	40:L3:186:GLY:HA2	2.48	0.43
41:L4:219:LEU:HD23	41:L4:219:LEU:HA	1.81	0.43
41:L4:296:GLN:HA	41:L4:299:ILE:CG1	2.49	0.43
42:L5:150:LEU:HD23	42:L5:150:LEU:HA	2.01	0.43
43:L6:42:LEU:O	43:L6:49:GLY:N	2.37	0.43
44:L7:140:SER:OG	44:L7:143:THR:HG23	2.19	0.43
44:L7:96:PRO:HB2	44:L7:99:PRO:HD2	2.01	0.43
45:L8:135:GLY:O	45:L8:139:VAL:HG23	2.22	0.43
48:M1:155:THR:O	48:M1:159:THR:HG23	5.18	0.43
49:M3:175:SER:O	49:M3:178:LYS:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:36:VAL:HG11	50:M4:55:ARG:HH22	1.82	0.43
51:M5:93:LYS:HD3	51:M5:93:LYS:HA	1.81	0.43
52:M6:16:VAL:HG12	52:M6:17:GLY:N	2.36	0.43
52:M6:46:GLU:HB3	52:M6:134:LYS:HE3	2.01	0.43
54:M8:100:THR:CG2	54:M8:120:GLU:HB3	2.48	0.43
54:M8:26:LEU:HD21	54:M8:52:LEU:HD22	2.44	0.43
57:N1:9:SER:O	57:N1:11:THR:HG23	2.26	0.43
59:N3:2:SER:HG	59:N3:3:GLY:H	4.28	0.43
60:N4:79:GLN:HA	60:N4:80:ARG:HG2	2.00	0.43
63:N7:128:GLN:O	63:N7:130:PHE:N	3.06	0.43
64:N8:129:PHE:CE1	72:O6:9:ILE:HB	5.06	0.43
64:N8:66:ALA:HA	64:N8:69:TRP:N	4.43	0.43
68:O2:19:ARG:HG2	68:O2:20:HIS:N	2.89	0.43
71:O5:49:LYS:O	71:O5:52:ALA:HB3	2.19	0.43
72:O6:33:ALA:HB1	72:O6:38:LYS:HZ2	1.83	0.43
74:O8:14:LEU:O	74:O8:16:ARG:N	3.05	0.43
76:Q0:115:CYS:SG	76:Q0:118:THR:HG22	2.58	0.43
2:S0:153:SER:O	2:S0:156:VAL:HG22	2.91	0.43
3:S1:222:LYS:HD3	3:S1:222:LYS:HA	2.00	0.43
4:S2:139:ILE:CD1	4:S2:191:ALA:HB1	2.49	0.43
4:S2:178:ILE:HD12	4:S2:178:ILE:H	4.55	0.43
5:S3:212:LYS:HA	5:S3:212:LYS:HD3	2.90	0.43
9:S7:114:ARG:O	9:S7:116:ARG:N	2.49	0.43
9:S7:25:VAL:HA	9:S7:28:GLU:HB2	2.84	0.43
9:S7:35:LYS:HG2	9:S7:36:ALA:H	1.84	0.43
11:S9:7:THR:HG21	1:6:758:U:OP1	382.68	0.43
11:S9:60:LEU:HD21	11:S9:93:LEU:HD21	2.01	0.43
11:S9:90:LYS:HG2	11:S9:95:TYR:CD1	4.23	0.43
36:1:1077:U:O2	36:1:1083:G:C2	2.72	0.43
36:1:1675:G:H2'	36:1:1676:A:C8	2.54	0.43
36:1:216:G:H4'	62:N6:19:TYR:CZ	2.54	0.43
36:1:2273:G:O2'	36:1:2274:U:P	2.77	0.43
36:1:3188:G:C2	36:1:3189:G:C8	3.07	0.43
85:1:3513:OHX:N3	85:1:3694:OHX:N4	2.67	0.43
85:1:3592:OHX:N4	85:1:3702:OHX:N3	2.66	0.43
36:1:532:A:O2'	36:1:533:A:H5'	2.19	0.43
36:1:740:G:H2'	36:1:741:U:O4'	2.19	0.43
1:2:1051:G:HO2'	1:2:1052:U:P	2.42	0.43
1:2:1146:G:C2	1:2:1633:A:C6	3.06	0.43
1:2:1483:A:P	1:2:1521:G:H21	2.39	0.43
1:2:1756[A]:A:OP2	1:2:1756[A]:A:H8	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:778:G:H3'	1:2:780:A:H2	1.83	0.43
36:5:1047:A:C6	36:5:1048:A:C6	3.07	0.43
36:5:1155:C:O2'	36:5:1156:C:H5'	2.19	0.43
75:O9:2:ALA:N	36:5:1493:G:O6	120.51	0.43
36:5:1851:G:C8	36:5:1851:G:O5'	2.71	0.43
78:Q2:41:ARG:NH2	36:5:2785:A:O2'	159.86	0.43
36:5:2880:U:H2'	36:5:2881:C:C6	2.54	0.43
36:5:289:A:H2'	36:5:290:G:H8	1.83	0.43
40:L3:251:CYS:SG	36:5:2944:U:H1'	224.33	0.43
40:L3:259:HIS:HB3	36:5:2987:A:O2'	216.13	0.43
36:5:3019:U:C4	36:5:3020:U:C4	3.07	0.43
36:5:3019:U:O4	85:5:3488:OHX:N2	2.52	0.43
36:5:3047:U:O2'	36:5:3048:A:H5'	2.18	0.43
36:5:1796:G:O6	85:5:3732:OHX:N5	2.52	0.43
36:5:750:G:C2	36:5:751:A:C8	3.07	0.43
36:5:794:U:H2'	36:5:795:G:C8	2.53	0.43
1:6:1590:G:H2'	1:6:1591:C:C6	2.52	0.43
1:6:1665:U:O4	85:6:1978:OHX:N2	2.52	0.43
1:6:1783:C:H2'	1:6:1784:C:C6	2.51	0.43
1:6:197:A:H2'	1:6:198:A:H8	1.82	0.43
1:6:260:U:H2'	1:6:260:U:H6	1.62	0.43
1:6:341:A:H2'	1:6:342:C:C6	2.53	0.43
1:6:625:C:H6	1:6:625:C:O5'	2.02	0.43
37:7:74:C:H2'	37:7:75:G:O4'	2.19	0.43
38:8:41:A:C8	38:8:42:G:C8	3.07	0.43
13:C1:67:ARG:HD3	13:C1:67:ARG:N	2.37	0.43
13:C1:79:LYS:HB2	1:6:346:G:H5'	282.94	0.43
13:C1:71:LEU:HB3	13:C1:88:ARG:NH1	2.33	0.43
15:C3:52:VAL:HG22	15:C3:55:ARG:HH22	2.05	0.43
1:2:952:A:OP1	15:C3:94:LYS:HE2	2.19	0.43
16:C4:29:HIS:CB	16:C4:41:ARG:HA	2.48	0.43
26:D4:116:LYS:HE2	1:6:57:G:OP2	338.50	0.43
26:D4:57:VAL:HG13	26:D4:60:PHE:CE2	2.54	0.43
30:D8:49:ARG:HG2	30:D8:52:ASP:OD1	2.57	0.43
32:E0:46:ASN:O	32:E0:47:VAL:HG12	2.18	0.43
41:L4:99:MET:HE2	41:L4:103:THR:H	3.08	0.43
42:L5:99:TYR:CD1	42:L5:199:ILE:HG23	3.21	0.43
43:L6:171:PRO:C	43:L6:173:MET:N	3.10	0.43
43:L6:69:PHE:HB2	43:L6:138:GLN:HE21	2.76	0.43
44:L7:173:LEU:HD11	44:L7:201:PHE:HB2	2.01	0.43
45:L8:50:VAL:HG22	45:L8:52:TRP:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:74:LYS:HB2	47:M0:74:LYS:HE3	1.76	0.43
48:M1:13:LYS:O	48:M1:131:MET:HE3	2.18	0.43
49:M3:64:LYS:HG3	64:N8:69:TRP:CD2	2.53	0.43
51:M5:63:ARG:HG3	51:M5:131:GLU:HG3	2.00	0.43
51:M5:97:SER:OG	51:M5:98:LEU:N	2.51	0.43
55:M9:25:ASP:HB2	55:M9:49:THR:O	3.32	0.43
58:N2:50:LEU:H	58:N2:50:LEU:HG	2.26	0.43
62:N6:39:LEU:HD12	62:N6:43:TYR:HE2	3.34	0.43
63:N7:10:VAL:HB	63:N7:83:THR:HG21	2.01	0.43
68:O2:108:ILE:HG12	68:O2:108:ILE:H	3.59	0.43
36:1:1338:C:H4'	68:O2:60:ASN:ND2	2.33	0.43
68:O2:9:ILE:HG23	68:O2:63:THR:HB	2.43	0.43
74:O8:58:ASP:HB3	74:O8:61:LYS:HG3	2.50	0.43
2:S0:124:THR:HG22	2:S0:174:TRP:HE1	1.84	0.43
11:S9:108:ARG:HH12	11:S9:126:ARG:HH21	4.72	0.43
11:S9:133:HIS:O	11:S9:134:ILE:HG12	2.19	0.43
11:S9:146:PHE:O	11:S9:147:MET:HB2	2.33	0.43
11:S9:163:PRO:HB3	11:S9:169:PRO:HA	2.82	0.43
34:SR:214:ALA:HB2	34:SR:220:ILE:HG23	1.99	0.43
36:1:1385:C:C4	36:1:1387:G:C8	3.06	0.43
36:1:1479:U:H5''	36:1:1480:G:OP2	2.18	0.43
36:1:168:U:H2'	36:1:169:U:C5	2.53	0.43
36:1:2297:U:C2	36:1:2299:A:C6	3.07	0.43
36:1:2795:U:O2	36:1:2800:G:H1'	2.19	0.43
36:1:3013:U:H2'	36:1:3014:U:C6	2.53	0.43
36:1:3049:A:C6	36:1:3050:U:C2	3.07	0.43
36:1:3078:U:H4'	36:1:3079:U:OP2	2.19	0.43
1:2:1431:C:H5'	1:2:1431:C:H6	1.84	0.43
1:2:1468:U:N3	1:2:1469:A:C8	2.86	0.43
1:2:1499:G:C6	1:2:1500:C:C4	3.07	0.43
1:2:434:G:N2	1:2:436:A:H3'	2.34	0.43
1:2:609:U:C4	1:2:1108:G:C8	3.06	0.43
38:4:40:A:OP2	38:4:103:G:N1	2.37	0.43
36:5:1078:U:H5''	36:5:1079:A:OP2	2.18	0.43
36:5:1340:G:H2'	36:5:1341:U:H6	1.84	0.43
36:5:1597:C:H2'	36:5:1598:G:C8	2.52	0.43
36:5:1623:G:C6	36:5:1624:G:C5	3.06	0.43
36:5:2131:A:C8	36:5:2188:A:C8	3.06	0.43
36:5:2276:G:C5	36:5:2277:C:C5	3.07	0.43
36:5:2403:G:N7	36:5:2870:C:H4'	2.34	0.43
36:5:2533:G:H2'	36:5:2534:G:C8	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2689:A:C8	36:5:2702:A:C6	3.07	0.43
36:5:2815:G:H5''	36:5:2816:G:OP2	2.19	0.43
36:5:3049:A:C6	36:5:3050:U:C2	3.06	0.43
36:5:3228:C:H4'	36:5:3229:G:O5'	2.19	0.43
85:5:3537:OHX:N3	85:5:3585:OHX:N4	2.66	0.43
36:5:651:G:C6	36:5:652:G:C6	3.07	0.43
36:5:901:G:H2'	36:5:902:G:C8	2.54	0.43
1:6:1065:A:H2'	1:6:1066:C:O4'	2.19	0.43
1:6:1133:A:H2'	1:6:1134:C:O4'	2.18	0.43
1:6:1438:G:H2'	1:6:1439:C:O4'	2.18	0.43
1:6:187:G:H8	1:6:187:G:O5'	2.02	0.43
1:6:1634:C:O2	85:6:2010:OHX:N2	2.51	0.43
1:6:76:A:H4'	1:6:77:U:OP1	2.19	0.43
38:8:62:C:H4'	38:8:63:G:O5'	2.18	0.43
13:C1:117:VAL:HG13	13:C1:121:ASP:HB2	2.65	0.43
14:C2:81:ASP:HA	14:C2:82:PRO:HD3	1.60	0.43
18:C6:20:ALA:HB2	18:C6:84:ALA:HB1	2.12	0.43
23:D1:16:LYS:HE3	23:D1:16:LYS:HB2	1.74	0.43
26:D4:52:LYS:C	26:D4:54:ALA:H	2.25	0.43
27:D5:43:ASP:HB2	27:D5:46:LYS:HB2	2.94	0.43
39:L2:104:LEU:HD13	39:L2:162:ALA:O	3.70	0.43
39:L2:181:LYS:NZ	36:5:860:G:O5'	212.46	0.43
41:L4:25:VAL:C	41:L4:27:SER:H	2.23	0.43
42:L5:113:LEU:HD21	42:L5:142:PHE:CG	3.73	0.43
42:L5:258:LYS:HG2	42:L5:258:LYS:O	5.28	0.43
46:L9:110:LYS:HE3	46:L9:110:LYS:HB2	3.58	0.43
46:L9:17:THR:O	46:L9:17:THR:OG1	2.48	0.43
47:M0:197:VAL:HG12	47:M0:199:PHE:CE2	4.15	0.43
47:M0:72:ALA:O	47:M0:76:MET:HG2	3.95	0.43
47:M0:86:HIS:O	47:M0:138:VAL:HA	2.38	0.43
48:M1:13:LYS:HD2	48:M1:132:ASN:OD1	2.19	0.43
60:N4:81:PRO:C	60:N4:82:ILE:HG12	4.35	0.43
61:N5:130:TYR:CD1	61:N5:130:TYR:N	2.87	0.43
62:N6:9:SER:OG	62:N6:10:SER:N	3.00	0.43
62:N6:37:LYS:O	62:N6:40:ARG:HB3	3.90	0.43
63:N7:12:VAL:HB	63:N7:81:LEU:CB	3.72	0.43
63:N7:22:LYS:HE2	63:N7:129:TRP:CH2	2.54	0.43
70:O4:64:THR:OG1	70:O4:64:THR:O	2.68	0.43
72:O6:53:TYR:HD1	72:O6:57:LEU:HD23	2.48	0.43
72:O6:5:THR:HG23	72:O6:12:ASN:CB	2.48	0.43
38:4:33:A:H4'	73:O7:74:PHE:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:O7:84:SER:O	73:O7:85:LYS:HB2	2.74	0.43
2:S0:177:LEU:HA	2:S0:177:LEU:HD23	1.84	0.43
2:S0:53:THR:OG1	2:S0:161:PRO:HG2	2.38	0.43
3:S1:63:GLY:HA2	3:S1:88:VAL:O	2.19	0.43
4:S2:77:GLN:HE22	4:S2:106:ASP:HA	1.84	0.43
5:S3:143:ARG:HB3	5:S3:143:ARG:HE	4.79	0.43
6:S4:25:GLY:HA3	1:6:447:U:O2'	375.25	0.43
6:S4:45:ILE:HB	6:S4:80:THR:HG23	2.80	0.43
6:S4:95:THR:HG22	26:D4:16:PRO:CG	2.49	0.43
9:S7:30:SER:HB3	9:S7:34:LEU:HD12	2.11	0.43
9:S7:67:LEU:HD11	9:S7:94:ALA:HB2	2.01	0.43
11:S9:174:ARG:HA	11:S9:174:ARG:HE	1.84	0.43
35:SM:61:ILE:H	35:SM:61:ILE:HG13	1.62	0.43
36:1:1070:U:C2	36:1:1089:G:C2	3.07	0.42
36:1:1567:U:H5	36:1:1568:U:C2	2.36	0.42
36:1:1601:U:P	55:M9:42:ARG:HH12	2.41	0.42
36:1:1614:C:H2'	36:1:1615:C:H6	1.83	0.42
36:1:1706:C:H2'	36:1:1707:A:O4'	2.19	0.42
36:1:1823:A:H2'	36:1:1824:U:H6	1.84	0.42
36:1:2939:G:OP2	40:L3:3:HIS:HD2	2.02	0.42
36:1:3275:U:O4'	69:O3:66:VAL:HG21	2.19	0.42
36:1:3224:G:C6	85:1:3429:OHX:N4	2.86	0.42
36:1:1861:G:OP2	85:1:3489:OHX:N1	2.51	0.42
36:1:397:A:H4'	36:1:398:A:O5'	2.18	0.42
36:1:824:C:H2'	36:1:825:U:C6	2.53	0.42
36:1:92:G:OP2	36:1:93:C:H5''	2.18	0.42
1:2:1000:C:C5	1:2:1002:G:H3'	2.54	0.42
1:2:1180:C:HO2'	17:C5:128:HIS:CE1	2.37	0.42
1:2:1337:A:H5'	1:2:1338:C:OP2	2.19	0.42
1:2:1535:U:H5	7:S5:185:ARG:C	2.23	0.42
1:2:1698:G:H1'	1:2:1699:G:OP1	2.19	0.42
1:2:749:U:H2'	1:2:750:U:C6	2.54	0.42
1:2:809:A:C6	1:2:810:G:C6	3.07	0.42
36:5:117:U:O2	36:5:119:U:H2'	2.18	0.42
54:M8:9:GLN:HG3	36:5:1364:C:O2'	208.34	0.42
36:5:1376:C:O2'	36:5:1408:G:O2'	2.22	0.42
36:5:1424:C:H2'	36:5:1425:U:O4'	2.18	0.42
41:L4:162:THR:HG21	36:5:209:A:C5	85.80	0.42
36:5:2107:A:H2'	36:5:2108:C:C6	2.54	0.42
36:5:2211:U:H5	36:5:2234:G:C6	2.37	0.42
42:L5:8:LYS:HE3	36:5:2687:G:OP1	310.15	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3085:G:O3'	36:5:3086:A:H8	2.02	0.42
36:5:3372:A:H8	36:5:3372:A:O5'	2.02	0.42
36:5:623:U:H2'	36:5:624:G:C8	2.54	0.42
36:5:838:G:H2'	36:5:839:C:O4'	2.19	0.42
1:6:1031:U:H4'	1:6:1032:G:OP2	2.19	0.42
1:6:1322:A:H2'	1:6:1323:C:H6	1.84	0.42
1:6:1395:G:O6	85:6:1943:OHX:N3	2.52	0.42
1:6:1410:A:H2'	1:6:1411:A:O4'	2.18	0.42
1:6:221:A:O2'	1:6:222:A:H5'	2.18	0.42
1:6:411:C:O2	1:6:423:G:N2	2.48	0.42
1:6:856:A:O2'	1:6:857:U:H4'	2.18	0.42
1:6:86:A:H2'	1:6:87:C:H6	1.83	0.42
38:8:145:U:H2'	38:8:146:U:H6	1.83	0.42
38:8:65:A:C2	38:8:96:A:C5	3.07	0.42
12:C0:72:GLY:O	12:C0:75:TYR:N	2.52	0.42
13:C1:16:GLN:HB2	13:C1:19:ILE:HG13	2.60	0.42
18:C6:47:LYS:HA	18:C6:47:LYS:HD2	1.76	0.42
18:C6:25:GLY:N	18:C6:63:ILE:HA	2.34	0.42
18:C6:97:VAL:HG12	18:C6:98:ASP:N	2.58	0.42
20:C8:26:ILE:O	20:C8:58:ALA:N	2.45	0.42
20:C8:11:PHE:CZ	20:C8:59:GLY:HA3	3.58	0.42
20:C8:52:VAL:HG22	20:C8:65:GLU:HG2	2.01	0.42
21:C9:73:VAL:CG2	21:C9:102:ARG:HG3	3.27	0.42
1:2:1502:G:O6	21:C9:102:ARG:NH2	2.52	0.42
21:C9:137:ALA:HA	21:C9:140:LEU:HB2	3.13	0.42
23:D1:73:ALA:HB1	23:D1:78:LEU:HG	2.00	0.42
24:D2:87:GLU:HG3	24:D2:87:GLU:H	1.57	0.42
23:D1:71:ARG:NE	29:D7:4:VAL:HG11	2.53	0.42
30:D8:13:ILE:O	30:D8:14:LYS:HD2	2.19	0.42
30:D8:52:ASP:C	30:D8:53:ILE:HG13	2.39	0.42
33:E1:119:ARG:O	33:E1:132:LEU:HG	2.19	0.42
39:L2:90:ALA:CB	39:L2:101:VAL:HG13	2.69	0.42
39:L2:192:LYS:HB2	39:L2:193:ARG:H	2.17	0.42
42:L5:107:ARG:NH2	42:L5:120:LYS:HA	2.33	0.42
42:L5:23:ARG:O	42:L5:23:ARG:NE	2.41	0.42
43:L6:40:LEU:HB3	43:L6:84:VAL:HG21	2.01	0.42
45:L8:156:ASP:CG	45:L8:183:LYS:HG2	3.13	0.42
46:L9:189:GLU:O	46:L9:190:ASP:HB3	2.18	0.42
50:M4:109:ARG:HD3	52:M6:199:TYR:CZ	2.62	0.42
53:M7:151:THR:HG22	53:M7:152:GLU:N	2.49	0.42
53:M7:59:PRO:HG3	53:M7:76:PHE:CG	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:66:ARG:HB2	54:M8:66:ARG:HH11	1.84	0.42
54:M8:94:PHE:O	54:M8:96:PHE:N	3.09	0.42
55:M9:180:LYS:HA	55:M9:183:ALA:HB3	2.00	0.42
55:M9:23:TRP:CZ2	55:M9:26:PRO:HD2	3.29	0.42
56:N0:16:THR:HG23	56:N0:19:VAL:HB	2.00	0.42
59:N3:54:LEU:HD21	59:N3:119:GLY:HA3	2.92	0.42
59:N3:125:LEU:HA	59:N3:125:LEU:HD12	1.89	0.42
59:N3:34:LEU:HA	59:N3:34:LEU:HD23	2.02	0.42
60:N4:31:PHE:HB3	60:N4:36:SER:OG	2.19	0.42
61:N5:103:TYR:O	61:N5:138:ARG:NH1	2.74	0.42
61:N5:131:ASP:OD2	61:N5:133:LEU:N	2.86	0.42
63:N7:95:VAL:O	63:N7:100:THR:OG1	2.27	0.42
64:N8:88:ASP:O	64:N8:91:LEU:N	2.98	0.42
66:O0:54:SER:HA	66:O0:57:GLU:HB2	2.01	0.42
67:O1:20:LEU:HD23	67:O1:20:LEU:HA	1.71	0.42
67:O1:88:PRO:C	67:O1:89:LEU:HD12	2.70	0.42
67:O1:55:LEU:HG	67:O1:93:VAL:HG12	2.01	0.42
36:1:1389:G:H5''	68:O2:101:SER:HB3	2.00	0.42
68:O2:71:HIS:CE1	68:O2:118:LYS:HD3	2.54	0.42
70:O4:3:GLN:OE1	70:O4:30:LEU:HB2	2.62	0.42
75:O9:3:ALA:O	75:O9:5:LYS:HE3	4.48	0.42
76:Q0:110:CYS:SG	76:Q0:111:ARG:N	3.45	0.42
2:S0:182:LEU:HB3	2:S0:188:LEU:HG	3.73	0.42
2:S0:205:ARG:O	2:S0:207:PRO:HA	5.22	0.42
6:S4:123:LEU:HD23	6:S4:228:ILE:HG22	2.38	0.42
1:2:448:C:O3'	6:S4:29:PRO:HA	2.19	0.42
7:S5:107:LYS:O	7:S5:111:VAL:HG23	2.19	0.42
7:S5:187:ILE:H	7:S5:187:ILE:HD12	1.84	0.42
9:S7:14:THR:HG22	9:S7:17:GLU:CD	2.45	0.42
9:S7:60:ILE:HG13	9:S7:91:ILE:O	2.19	0.42
10:S8:9:HIS:CD2	10:S8:10:LYS:N	2.87	0.42
35:SM:123:ALA:O	35:SM:126:ASP:HB2	2.19	0.42
34:SR:274:LEU:O	34:SR:276:PRO:HD3	3.66	0.42
34:SR:41:THR:HG22	34:SR:62:LYS:HB3	2.00	0.42
36:1:1086:C:H2'	36:1:1087:G:O4'	2.20	0.42
36:1:1095:U:O2	57:N1:128:LEU:N	2.52	0.42
36:1:1501:U:H3	36:1:1515:A:H61	1.67	0.42
36:1:1540:U:OP1	85:1:3556:OHX:N1	2.52	0.42
36:1:1655:G:H5''	70:O4:58:ARG:NH1	2.32	0.42
36:1:1722:U:C4	36:1:1723:A:C8	3.07	0.42
36:1:2580:A:H8	36:1:2580:A:OP1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2836:C:C5	36:1:2852:C:N4	2.81	0.42
36:1:3084:C:H2'	36:1:3085:G:O4'	2.20	0.42
85:1:3565:OHX:N4	85:1:3685:OHX:N3	2.67	0.42
36:1:1363:A:OP2	85:1:3582:OHX:N6	2.51	0.42
85:1:3565:OHX:N2	85:1:3685:OHX:N5	2.67	0.42
36:1:980:A:H2'	36:1:981:U:C1'	2.49	0.42
1:2:130:C:HO2'	1:2:131:C:P	2.40	0.42
1:2:136:C:H4'	1:2:137:U:OP1	2.19	0.42
1:2:145:A:O2'	1:2:146:U:O5'	2.29	0.42
1:2:1674:C:H2'	1:2:1675:C:C6	2.54	0.42
1:2:804:A:C2	24:D2:105:THR:HB	2.55	0.42
1:2:832:U:H2'	1:2:833:U:O4'	2.19	0.42
37:3:89:G:N2	37:3:92:A:OP2	2.52	0.42
36:5:1093:A:C2	36:5:1096:U:O2	2.71	0.42
36:5:1375:G:N3	36:5:1407:A:H2	2.17	0.42
36:5:1440:G:H2'	36:5:1441:G:H8	1.83	0.42
36:5:1689:U:H2'	36:5:1690:C:H6	1.84	0.42
36:5:2202:C:H2'	36:5:2203:U:O4'	2.18	0.42
36:5:2265:C:H2'	36:5:2266:U:O4'	2.19	0.42
36:5:3179:U:H4'	36:5:3180:A:OP2	2.18	0.42
36:5:1934:G:C6	85:5:3418:OHX:N2	2.86	0.42
36:5:1670:C:OP1	85:5:3740:OHX:N3	2.53	0.42
36:5:426:G:C2	36:5:427:C:C4	3.07	0.42
36:5:550:A:C6	36:5:551:A:C6	3.07	0.42
36:5:656:A:H2'	36:5:657:A:H8	1.83	0.42
36:5:799:G:C2	36:5:801:A:C6	3.08	0.42
36:5:822:G:C6	36:5:823:C:C4	3.07	0.42
1:6:1133:A:N3	1:6:1650:U:O2'	2.42	0.42
1:6:1472:C:N4	1:6:1535:U:O2	2.52	0.42
1:6:1673:G:H8	1:6:1673:G:O5'	2.02	0.42
1:6:454:U:H3'	1:6:455:C:C6	2.53	0.42
1:6:586:G:C6	1:6:587:C:C4	3.06	0.42
37:7:112:G:H2'	37:7:113:C:C6	2.54	0.42
15:C3:28:LEU:O	15:C3:32:SER:HB3	6.07	0.42
18:C6:82:ARG:NH1	18:C6:114:ARG:O	3.40	0.42
19:C7:53:TYR:O	19:C7:57:LEU:HG	2.48	0.42
20:C8:2:SER:C	20:C8:4:VAL:H	4.89	0.42
24:D2:11:LEU:O	24:D2:15:ASN:HB2	3.28	0.42
26:D4:56:SER:N	26:D4:74:LEU:O	2.88	0.42
23:D1:85:TYR:CE1	29:D7:6:ASP:HB2	2.79	0.42
39:L2:104:LEU:HD12	39:L2:104:LEU:HA	1.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:84:VAL:HG21	40:L3:162:VAL:HB	2.39	0.42
41:L4:104:LYS:HD2	41:L4:106:TRP:CZ2	2.55	0.42
41:L4:325:LEU:HD23	41:L4:325:LEU:HA	1.66	0.42
43:L6:129:GLU:CD	43:L6:130:ILE:H	2.21	0.42
43:L6:135:VAL:O	43:L6:139:LYS:HG3	2.41	0.42
45:L8:63:LYS:O	45:L8:67:ILE:HG12	4.62	0.42
47:M0:99:ILE:CD1	47:M0:101:LYS:HB2	5.16	0.42
48:M1:43:GLN:OE1	48:M1:71:VAL:HG22	2.18	0.42
49:M3:113:VAL:O	49:M3:116:LEU:HB2	2.20	0.42
36:1:769:G:OP1	49:M3:175:SER:HB2	2.19	0.42
50:M4:8:LYS:HB3	50:M4:9:ALA:H	1.50	0.42
52:M6:62:THR:HB	52:M6:65:ASN:O	2.72	0.42
54:M8:25:TYR:H	54:M8:25:TYR:HD2	1.67	0.42
54:M8:40:THR:HG21	54:M8:45:ASN:ND2	2.35	0.42
58:N2:35:LYS:O	58:N2:38:ILE:HG22	2.26	0.42
62:N6:84:LYS:HB2	62:N6:84:LYS:HE3	4.05	0.42
63:N7:11:ALA:HB3	63:N7:23:VAL:HG22	2.45	0.42
64:N8:58:MET:SD	36:5:2775:U:H1'	152.75	0.42
68:O2:24:ARG:HG2	68:O2:25:TYR:CE1	2.54	0.42
70:O4:74:ARG:HD3	70:O4:85:VAL:HG21	4.36	0.42
49:M3:122:LYS:HE2	71:O5:119:LYS:O	4.18	0.42
76:Q0:77:ILE:HB	76:Q0:78:ILE:H	1.53	0.42
3:S1:229:MET:O	3:S1:232:HIS:N	3.46	0.42
3:S1:66:VAL:HG23	16:C4:33:LEU:O	4.56	0.42
4:S2:103:VAL:HG12	4:S2:190:LEU:HD12	2.39	0.42
5:S3:210:GLU:HA	5:S3:211:PRO:HD3	2.19	0.42
6:S4:65:LEU:O	6:S4:67:GLN:N	2.52	0.42
7:S5:120:ILE:O	7:S5:123:VAL:HB	2.19	0.42
10:S8:2:GLY:HA2	1:6:1729:C:O2'	288.07	0.42
34:SR:111:MET:H	34:SR:126:SER:HA	1.84	0.42
34:SR:66:HIS:CG	34:SR:67:ILE:H	2.37	0.42
36:1:111:C:O2'	36:1:112:U:H5'	2.19	0.42
36:1:1547:G:OP1	51:M5:108:ARG:NH2	2.51	0.42
36:1:1567:U:C2	36:1:1571:A:N6	2.87	0.42
36:1:1591:G:O6	36:1:1592:G:N1	2.52	0.42
36:1:1747:G:O2'	74:O8:3:ARG:O	2.36	0.42
36:1:1769:G:N3	36:1:1769:G:H2'	2.35	0.42
36:1:1591:G:O2'	36:1:1799:A:N1	2.37	0.42
36:1:1834:U:H3'	36:1:1835:A:H5''	2.00	0.42
36:1:2588:U:H2'	36:1:2589:G:O4'	2.19	0.42
36:1:3126:C:H1'	46:L9:156:GLN:HE22	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3153:U:O2	36:1:3158:G:N1	2.53	0.42
36:1:831:G:N7	85:1:3425:OHX:N1	2.67	0.42
85:1:3720:OHX:N1	40:L3:364:LYS:O	2.52	0.42
1:2:1135:U:OP2	25:D3:121:ARG:NH1	2.52	0.42
1:2:1330:G:H2'	1:2:1331:A:O4'	2.19	0.42
1:2:1439:C:H2'	1:2:1440:C:C6	2.55	0.42
1:2:1472:C:OP1	7:S5:102:ARG:NH2	2.44	0.42
1:2:1788:G:C8	16:C4:132:ARG:CZ	3.02	0.42
1:2:649:U:O2'	1:2:650:U:H6	2.03	0.42
1:2:700:C:N4	1:2:738:G:H1	2.17	0.42
36:5:1130:A:C8	36:5:1132:C:C6	3.08	0.42
36:5:1632:A:C6	36:5:1644:C:C4	3.07	0.42
36:5:1764:U:H3'	36:5:1765:U:C5'	2.49	0.42
36:5:1880:U:C2	36:5:1881:A:C8	3.07	0.42
62:N6:2:ALA:N	36:5:212:G:OP2	77.60	0.42
36:5:2167:A:H2'	36:5:2168:A:C8	2.53	0.42
36:5:2441:A:H2'	36:5:2442:G:O4'	2.19	0.42
39:L2:70:ARG:NH2	36:5:2522:G:C6	175.41	0.42
36:5:2659:G:C2	36:5:2712:U:O2	2.71	0.42
36:5:2694:A:C6	36:5:2695:A:C6	3.07	0.42
40:L3:242:THR:HG22	36:5:2948:C:O2'	214.84	0.42
41:L4:334:PHE:CD2	36:5:578:A:H2'	277.80	0.42
36:5:593:C:C4	36:5:594:U:C4	3.07	0.42
36:5:883:A:C6	36:5:921:A:C5	3.07	0.42
36:5:965:A:C4	36:5:966:U:C6	3.07	0.42
21:C9:3:GLY:HA3	1:6:1364:G:H21	429.95	0.42
1:6:1606:C:H2'	1:6:1607:G:C8	2.54	0.42
1:6:40:A:O2'	85:6:1962:OHX:N1	2.52	0.42
1:6:1726:G:N7	85:6:2001:OHX:N5	2.67	0.42
1:6:292:U:H2'	1:6:293:U:C6	2.54	0.42
1:6:482:U:H3	1:6:505:A:N6	2.14	0.42
1:6:836:U:H2'	1:6:837:G:C8	2.54	0.42
38:8:27:U:H2'	38:8:28:C:C6	2.54	0.42
13:C1:55:ASP:HB2	13:C1:82:ARG:NH1	2.35	0.42
16:C4:93:THR:HA	16:C4:94:PRO:HD2	2.87	0.42
21:C9:108:LEU:HD23	21:C9:108:LEU:HA	1.92	0.42
22:D0:18:GLN:O	22:D0:96:PRO:HA	2.18	0.42
26:D4:12:VAL:HG13	26:D4:23:PHE:HB3	2.01	0.42
31:D9:32:ARG:HG3	31:D9:37:ASN:OD1	2.19	0.42
39:L2:116:VAL:CG1	39:L2:126:LEU:HB2	3.12	0.42
39:L2:15:ILE:HD12	39:L2:15:ILE:HA	4.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:188:ILE:CD1	40:L3:188:ILE:H	3.52	0.42
40:L3:194:TRP:CE2	40:L3:198:HIS:CE1	3.07	0.42
40:L3:256:HIS:HA	40:L3:257:PRO:C	2.44	0.42
40:L3:41:VAL:HG22	40:L3:185:GLY:HA3	2.01	0.42
42:L5:144:VAL:CG1	42:L5:173:VAL:HG22	2.71	0.42
37:3:7:G:OP1	42:L5:33:ARG:HD2	2.19	0.42
43:L6:68:PRO:HB2	43:L6:71:VAL:HG23	2.01	0.42
45:L8:214:LEU:HD12	45:L8:214:LEU:HA	1.79	0.42
36:1:2523:A:H2'	45:L8:49:TYR:O	2.19	0.42
46:L9:47:LYS:NZ	50:M4:5:SER:H	2.17	0.42
46:L9:7:GLU:HB2	46:L9:56:ALA:HB2	2.75	0.42
47:M0:63:GLU:H	47:M0:63:GLU:CD	2.21	0.42
48:M1:100:GLY:HA3	48:M1:154:THR:HB	2.91	0.42
49:M3:93:ILE:HD12	49:M3:93:ILE:HG23	1.84	0.42
50:M4:92:GLU:HA	50:M4:95:ALA:HB3	2.01	0.42
54:M8:125:ASP:OD2	54:M8:125:ASP:N	2.68	0.42
58:N2:28:PHE:CZ	58:N2:33:TYR:HB2	3.78	0.42
61:N5:132:ALA:O	61:N5:135:ILE:HG22	2.23	0.42
63:N7:27:LYS:HA	63:N7:28:PRO:HD3	2.79	0.42
63:N7:18:TYR:HE1	63:N7:47:GLU:HG3	3.48	0.42
63:N7:81:LEU:HD22	63:N7:81:LEU:HA	2.35	0.42
49:M3:167:PHE:CD1	64:N8:132:LYS:HG3	4.00	0.42
66:O0:18:ILE:HD13	66:O0:81:VAL:HB	2.01	0.42
68:O2:4:LEU:HD13	68:O2:4:LEU:HA	3.24	0.42
70:O4:51:LEU:HD23	70:O4:51:LEU:H	1.84	0.42
71:O5:28:LEU:O	71:O5:32:LYS:HG3	2.19	0.42
76:Q0:112:LYS:HD2	76:Q0:112:LYS:HA	1.87	0.42
36:1:2846:U:H3'	76:Q0:97:ARG:NH2	2.34	0.42
2:S0:110:TYR:HA	2:S0:115:PHE:CD1	3.02	0.42
2:S0:57:LEU:HD21	2:S0:177:LEU:HG	2.74	0.42
2:S0:9:LEU:HA	2:S0:9:LEU:HD22	1.88	0.42
3:S1:223:PHE:HB3	3:S1:224:ASP:H	2.12	0.42
5:S3:12:VAL:O	5:S3:16:VAL:HG23	2.33	0.42
6:S4:3:ARG:NH1	1:6:401:A:H1'	321.92	0.42
7:S5:42:LEU:HD21	7:S5:45:LYS:HE2	2.01	0.42
8:S6:52:ILE:HG12	8:S6:111:LEU:HD22	2.27	0.42
9:S7:103:SER:OG	9:S7:104:ARG:N	2.53	0.42
34:SR:23:LEU:HD11	34:SR:304:GLY:N	2.63	0.42
36:1:1075:A:C5	65:N9:45:HIS:CD2	3.07	0.42
36:1:1591:G:OP2	70:O4:17:SER:HB3	2.19	0.42
36:1:1638:A:N3	36:1:1709:C:H1'	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1703:U:N3	36:1:1740:U:O2	2.52	0.42
36:1:241:G:H5'	36:1:242:C:OP2	2.19	0.42
36:1:2501:U:H4'	36:1:2502:A:OP1	2.18	0.42
36:1:2751:G:O6	85:1:3643:OHX:N6	2.52	0.42
36:1:3189:G:C6	36:1:3190:C:C4	3.07	0.42
36:1:3392:U:H2'	36:1:3393:U:C6	2.54	0.42
36:1:790:U:H4'	41:L4:112:LYS:O	2.19	0.42
1:2:1084:A:H2'	1:2:1085:G:C8	2.55	0.42
1:2:1178:G:H2'	1:2:1179:G:O4'	2.19	0.42
1:2:1426:C:H5''	35:SM:93:ARG:NH1	2.32	0.42
1:2:1633:A:H4'	1:2:1634:C:O5'	2.19	0.42
1:2:1788:G:H3'	16:C4:132:ARG:HH22	1.84	0.42
85:2:1968:OHX:N1	85:2:2010:OHX:N2	2.67	0.42
1:2:330:G:C6	1:2:331:A:C5	3.07	0.42
1:2:577:G:C5	35:SM:99:LYS:HD3	2.54	0.42
1:2:580:A:C6	1:2:583:C:C2	3.07	0.42
1:2:694:U:O2	1:2:694:U:H2'	2.19	0.42
1:2:800:U:H2'	1:2:801:G:C8	2.49	0.42
1:2:959:U:H2'	1:2:959:U:O2	2.19	0.42
37:3:28:C:N4	37:3:29:C:C2	2.87	0.42
85:5:3570:OHX:N1	85:5:3647:OHX:N4	2.67	0.42
36:5:621:A:H2'	36:5:622:A:H8	1.82	0.42
36:5:942:U:O5'	36:5:942:U:H6	2.02	0.42
1:6:1725:U:H2'	1:6:1726:G:O4'	2.19	0.42
28:D6:4:LYS:NZ	1:6:1795:U:OP2	339.95	0.42
6:S4:22:LYS:NZ	1:6:758:U:OP1	381.96	0.42
1:6:838:G:C6	1:6:839:U:C4	3.08	0.42
1:6:984:G:N7	85:6:1903:OHX:N1	2.67	0.42
37:7:52:G:C2	37:7:53:U:C6	3.07	0.42
12:C0:14:TYR:HE2	12:C0:21:VAL:HG22	1.84	0.42
14:C2:135:MET:SD	14:C2:136:ILE:HG23	5.02	0.42
20:C8:32:LEU:O	20:C8:34:THR:N	3.23	0.42
20:C8:54:LEU:HD22	20:C8:54:LEU:H	1.85	0.42
20:C8:11:PHE:HB2	20:C8:60:GLU:HA	2.01	0.42
21:C9:118:PRO:C	21:C9:120:GLY:H	2.24	0.42
21:C9:134:ARG:O	21:C9:138:GLN:HG3	2.41	0.42
21:C9:76:LEU:HD22	21:C9:80:TYR:HE2	1.80	0.42
1:2:1430:U:C1'	22:D0:72:ASN:HD22	2.32	0.42
23:D1:84:SER:C	23:D1:86:SER:H	2.23	0.42
27:D5:71:ILE:HG22	27:D5:75:LEU:HD12	2.01	0.42
28:D6:46:GLU:HB2	28:D6:47:ALA:H	1.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:4:LYS:HE3	28:D6:4:LYS:HB2	1.84	0.42
28:D6:96:ALA:HA	28:D6:97:PRO:HD3	1.86	0.42
30:D8:67:ARG:HD3	30:D8:67:ARG:HA	1.87	0.42
22:D0:67:THR:HG21	31:D9:40:ARG:HB2	2.00	0.42
39:L2:46:LYS:HB2	39:L2:62:VAL:HG12	2.37	0.42
40:L3:163:HIS:ND1	40:L3:164:THR:O	2.94	0.42
40:L3:261:MET:O	40:L3:264:VAL:HG13	2.20	0.42
41:L4:119:ARG:HG2	41:L4:274:TYR:CE2	2.54	0.42
41:L4:41:SER:OG	41:L4:111:VAL:HG11	2.19	0.42
43:L6:75:PRO:HA	43:L6:138:GLN:NE2	2.88	0.42
44:L7:158:LYS:HD2	44:L7:159:GLN:N	4.48	0.42
44:L7:188:ILE:HA	44:L7:188:ILE:HD13	1.77	0.42
44:L7:217:PRO:HA	85:5:3505:OHX:N5	262.78	0.42
46:L9:86:TYR:CE2	46:L9:151:VAL:HG13	2.54	0.42
46:L9:92:TYR:N	46:L9:92:TYR:CD1	2.86	0.42
47:M0:12:GLN:OE1	47:M0:128:ARG:NH2	4.32	0.42
47:M0:205:SER:OG	47:M0:208:ASN:OD1	3.31	0.42
48:M1:171:VAL:HG13	48:M1:172:LEU:H	1.85	0.42
50:M4:39:ILE:HG13	50:M4:44:VAL:HA	2.01	0.42
50:M4:86:ALA:C	50:M4:88:ALA:H	3.42	0.42
52:M6:19:LEU:O	52:M6:23:VAL:HG23	2.18	0.42
55:M9:92:GLN:O	55:M9:96:ILE:HG13	2.24	0.42
57:N1:19:PHE:CE2	57:N1:20:ARG:HD3	3.74	0.42
57:N1:40:VAL:HB	57:N1:96:ILE:HG13	2.01	0.42
59:N3:35:TYR:CD2	59:N3:63:LYS:HE2	2.65	0.42
61:N5:46:TYR:HB3	71:O5:75:TYR:HB3	2.26	0.42
61:N5:88:MET:HB3	61:N5:88:MET:HE3	2.60	0.42
62:N6:56:VAL:O	62:N6:67:GLU:HA	2.91	0.42
67:O1:12:TYR:C	67:O1:72:ARG:HH11	2.23	0.42
70:O4:25:THR:HG23	70:O4:29:ILE:O	3.57	0.42
72:O6:5:THR:N	72:O6:12:ASN:O	2.36	0.42
38:4:103:G:H4'	73:O7:21:ARG:HG3	2.01	0.42
75:O9:34:THR:O	75:O9:36:ARG:HG2	4.35	0.42
36:1:2803:A:OP1	78:Q2:60:LYS:HD2	2.19	0.42
79:Q3:56:THR:HA	79:Q3:63:THR:HA	2.09	0.42
2:S0:136:ALA:O	2:S0:138:TYR:N	2.89	0.42
2:S0:34:GLU:N	2:S0:35:PRO:HD2	3.34	0.42
2:S0:4:PRO:HB2	2:S0:6:THR:HG23	7.78	0.42
3:S1:107:THR:HG23	16:C4:116:GLU:OE1	2.40	0.42
3:S1:40:ASN:N	3:S1:40:ASN:OD1	3.43	0.42
4:S2:144:TRP:CZ2	24:D2:97:ARG:HD2	2.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:159:THR:HB	4:S2:168:ARG:HG3	3.60	0.42
4:S2:99:LYS:HE2	4:S2:208:GLU:OE2	2.19	0.42
5:S3:23:GLU:HG2	12:C0:61:TRP:CD1	4.80	0.42
7:S5:166:ARG:O	7:S5:170:GLN:HB2	2.20	0.42
8:S6:208:TYR:O	8:S6:210:GLN:N	3.30	0.42
8:S6:31:ARG:HD2	8:S6:34:GLN:HE21	1.85	0.42
10:S8:162:ALA:HA	36:1:3353:G:H5'	2.01	0.42
11:S9:41:GLU:OE1	11:S9:126:ARG:NH2	2.52	0.42
11:S9:59:LEU:HD22	11:S9:69:ARG:HA	2.31	0.42
36:1:1027:A:H2'	36:1:1029:G:H5''	2.01	0.42
36:1:1803:C:O2'	70:O4:70:LYS:HD2	2.19	0.42
36:1:2628:A:H1'	36:1:2798:C:C2	2.54	0.42
36:1:2993:G:H2'	36:1:3142:A:N6	2.34	0.42
36:1:3324:C:C4	36:1:3325:G:N7	2.87	0.42
85:1:3540:OHX:N5	85:1:3711:OHX:N5	2.67	0.42
36:1:815:G:C2	36:1:926:A:C2	3.08	0.42
1:2:1076:A:H2'	1:2:1077:C:C6	2.55	0.42
1:2:1169:G:O2'	1:2:1576:A:N6	2.47	0.42
1:2:1747:G:C4	1:2:1748:G:C8	3.08	0.42
1:2:288:A:H2'	1:2:289:U:C6	2.54	0.42
1:2:531:C:OP2	85:2:1948:OHX:N4	2.52	0.42
38:4:106:C:O2'	85:4:211:OHX:N4	2.52	0.42
36:5:1780:G:C6	36:5:1781:C:N4	2.87	0.42
36:5:1816:A:H2'	36:5:1817:G:H5''	2.01	0.42
36:5:2317:A:H2'	36:5:2318:U:O4'	2.19	0.42
36:5:2437:G:H2'	36:5:2438:A:O4'	2.20	0.42
36:5:3083:G:H2'	36:5:3084:C:H6	1.85	0.42
36:5:3202:G:H2'	36:5:3203:U:H6	1.85	0.42
36:5:3291:G:H2'	36:5:3292:A:C8	2.55	0.42
36:5:2997:G:H1'	36:5:3395:G:O3'	2.20	0.42
85:5:3559:OHX:N1	85:5:3704:OHX:N4	2.68	0.42
33:E1:149:LYS:HD3	1:6:1235:C:H1'	435.48	0.42
1:6:1746:A:C8	1:6:1747:G:C8	3.08	0.42
1:6:1756[B]:A:O2'	1:6:1757:G:H5'	2.19	0.42
1:6:1766:A:H5''	85:6:1980:OHX:N3	2.34	0.42
1:6:1282:U:OP1	85:6:1991:OHX:N4	2.52	0.42
1:6:30:G:C6	1:6:597:G:C6	3.08	0.42
1:6:829:A:OP1	1:6:829:A:H4'	2.20	0.42
73:O7:81:GLY:O	38:8:95:G:N3	39.54	0.42
13:C1:60:PHE:HE2	13:C1:115:PHE:CE1	2.33	0.42
16:C4:16:VAL:HG12	16:C4:80:HIS:HB2	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1366:U:OP1	18:C6:30:LYS:HD2	2.20	0.42
20:C8:136:GLN:H	20:C8:136:GLN:HG2	1.39	0.42
1:2:1520:U:H5''	21:C9:75:LYS:HZ1	1.84	0.42
23:D1:65:SER:O	23:D1:69:LEU:HB2	2.19	0.42
24:D2:104:LEU:HB3	24:D2:125:ILE:HA	2.02	0.42
24:D2:39:GLN:O	24:D2:43:LYS:HB3	2.19	0.42
25:D3:93:LEU:HD12	25:D3:96:VAL:HG21	2.00	0.42
26:D4:20:ARG:HD2	26:D4:74:LEU:HD22	2.31	0.42
27:D5:54:VAL:HA	27:D5:57:TYR:CD1	2.54	0.42
7:S5:144:GLU:CD	30:D8:57:MET:HG3	5.40	0.42
36:1:911:C:H5''	39:L2:15:ILE:HD13	2.00	0.42
39:L2:8:GLN:HA	36:5:2163:C:H4'	184.18	0.42
40:L3:114:VAL:HG13	40:L3:163:HIS:CG	2.89	0.42
41:L4:152:VAL:N	41:L4:250:TRP:O	2.84	0.42
42:L5:163:LEU:O	42:L5:166:ALA:N	3.14	0.42
42:L5:202:GLY:O	42:L5:206:GLN:HG3	5.76	0.42
45:L8:97:TYR:HE1	45:L8:130:TYR:HB3	1.84	0.42
46:L9:117:PHE:HE1	46:L9:165:CYS:HB3	2.74	0.42
46:L9:27:VAL:HG12	46:L9:82:VAL:HG11	2.36	0.42
47:M0:43:VAL:HG21	47:M0:197:VAL:HB	2.02	0.42
49:M3:75:PHE:HA	49:M3:101:ARG:HH12	1.85	0.42
51:M5:199:LEU:HB3	51:M5:203:ARG:NH2	2.34	0.42
52:M6:94:ARG:O	52:M6:97:ALA:HB3	2.19	0.42
54:M8:60:PRO:HG2	54:M8:142:GLY:O	2.20	0.42
60:N4:39:LEU:O	60:N4:42:GLN:HB2	2.20	0.42
61:N5:90:ALA:O	61:N5:120:LYS:NZ	2.50	0.42
64:N8:70:LYS:HE2	64:N8:129:PHE:CD2	2.93	0.42
66:O0:103:THR:HB	66:O0:104:LEU:H	1.42	0.42
69:O3:3:GLU:OE2	36:5:3214:U:H5'	267.61	0.42
43:L6:172:HIS:HB3	69:O3:43:PHE:CD2	2.54	0.42
70:O4:3:GLN:HG2	70:O4:4:ARG:N	3.46	0.42
71:O5:98:SER:O	71:O5:99:GLN:C	2.80	0.42
36:1:181:U:O3'	73:O7:75:LYS:HD3	2.19	0.42
5:S3:138:VAL:HA	5:S3:183:GLY:O	2.68	0.42
5:S3:76:ARG:NH1	5:S3:77:PHE:HA	2.33	0.42
8:S6:163:THR:HA	8:S6:168:THR:HA	2.01	0.42
9:S7:30:SER:HB2	9:S7:34:LEU:HB2	2.47	0.42
9:S7:82:GLU:OE2	9:S7:89:HIS:HA	2.77	0.42
34:SR:201:THR:HB	34:SR:242:SER:HA	2.00	0.42
34:SR:36:ALA:HB1	34:SR:68:VAL:HB	3.47	0.42
36:1:1277:C:O2'	36:1:1278:A:H8	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1306:G:C6	52:M6:62:THR:HA	2.55	0.42
36:1:1571:A:H2'	36:1:1572:U:O4'	2.20	0.42
36:1:1902:G:C6	36:1:1903:U:C2	3.08	0.42
36:1:1947:G:H1	36:1:2101:C:H42	1.68	0.42
36:1:2261:G:O2'	36:1:2263:C:N4	2.52	0.42
36:1:237:G:H2'	36:1:238:A:O4'	2.20	0.42
36:1:239:G:HO2'	36:1:240:U:P	2.36	0.42
36:1:2735:U:H2'	36:1:2736:A:H8	1.84	0.42
36:1:290:G:H2'	36:1:291:C:C6	2.55	0.42
36:1:2943:G:N7	36:1:2944:U:C5	2.88	0.42
36:1:336:A:OP2	62:N6:9:SER:OG	2.35	0.42
36:1:408:A:OP1	85:1:3593:OHX:N3	2.52	0.42
85:1:3616:OHX:N4	85:1:3689:OHX:N1	2.67	0.42
36:1:518:G:O6	85:1:3645:OHX:N6	2.52	0.42
36:1:421:G:N3	36:1:421:G:H3'	2.34	0.42
36:1:643:U:O4	36:1:644:G:C6	2.73	0.42
36:1:853:G:N2	36:1:854:G:H1'	2.35	0.42
36:1:915:A:C5	36:1:917:A:H1'	2.54	0.42
1:2:1036:A:H2'	1:2:1037:C:O4'	2.19	0.42
1:2:1237:G:H1	1:2:1248:C:H42	1.68	0.42
1:2:1370:U:O4	85:2:1999:OHX:N3	2.53	0.42
1:2:144:U:O2'	1:2:145:A:H5'	2.19	0.42
1:2:1754:A:H4'	1:2:1755:A:O4'	2.20	0.42
1:2:243:G:O5'	1:2:243:G:H8	2.03	0.42
1:2:26:A:O2'	1:2:27:U:O5'	2.28	0.42
1:2:37:U:H2'	1:2:38:C:O4'	2.19	0.42
36:5:1063:G:H2'	36:5:1097:G:N2	2.34	0.42
36:5:1366:A:H2'	36:5:1367:G:C8	2.55	0.42
36:5:1439:U:H2'	36:5:1440:G:H8	1.85	0.42
66:O0:84:LEU:HD13	36:5:1715:A:C5	260.19	0.42
36:5:1813:A:H2'	36:5:1814:A:H5''	2.00	0.42
36:5:2352:A:H2'	36:5:2353:G:H8	1.85	0.42
36:5:235:A:H2'	36:5:236:G:O4'	2.19	0.42
36:5:2577:C:H2'	36:5:2578:U:H6	1.85	0.42
36:5:3039:C:H2'	36:5:3040:A:O4'	2.19	0.42
36:5:3199:G:C2	36:5:3200:G:C8	3.08	0.42
36:5:589:A:H62	36:5:610:G:HO2'	1.60	0.42
36:5:759:U:O4	36:5:760:G:C6	2.72	0.42
36:5:883:A:C5	36:5:921:A:C6	3.07	0.42
1:6:1408:G:H2'	1:6:1409:G:O4'	2.20	0.42
1:6:1504:G:H2'	1:6:1505:A:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1758:U:H2'	1:6:1759:C:H6	1.84	0.42
1:6:241:U:H2'	1:6:242:U:C6	2.55	0.42
1:6:729:G:O2'	1:6:730:G:O5'	2.33	0.42
37:7:29:C:N3	37:7:49:G:N2	2.53	0.42
36:5:6:A:N1	38:8:154:C:C2	2.88	0.42
12:C0:88:PRO:O	12:C0:90:THR:N	2.42	0.42
1:2:337:G:H3'	13:C1:133:LYS:HB2	2.02	0.42
14:C2:119:SER:OG	14:C2:120:VAL:HG23	2.19	0.42
16:C4:49:LYS:HD3	16:C4:49:LYS:HA	2.08	0.42
17:C5:25:LEU:HA	17:C5:28:MET:HE2	2.02	0.42
18:C6:47:LYS:NZ	18:C6:114:ARG:HD3	4.59	0.42
1:2:1584:G:H5'	18:C6:123:ARG:H	1.84	0.42
19:C7:27:ASP:OD2	19:C7:30:THR:N	2.36	0.42
20:C8:28:ILE:HG13	20:C8:28:ILE:H	4.50	0.42
21:C9:34:VAL:HG23	21:C9:53:TRP:NE1	2.35	0.42
21:C9:33:TYR:CD1	21:C9:34:VAL:N	3.43	0.42
33:E1:127:GLY:O	33:E1:129:GLY:N	2.52	0.42
41:L4:10:SER:C	41:L4:12:THR:H	2.23	0.42
41:L4:16:THR:HG22	41:L4:18:ASN:N	2.34	0.42
42:L5:243:ALA:O	42:L5:247:ILE:HG13	2.27	0.42
43:L6:82:ARG:HA	43:L6:82:ARG:HD3	1.87	0.42
44:L7:132:PRO:HA	44:L7:229:PHE:CD1	2.61	0.42
44:L7:186:HIS:NE2	44:L7:190:THR:HG21	2.92	0.42
45:L8:134:TYR:CZ	45:L8:190:VAL:HG11	4.82	0.42
45:L8:95:ASN:OD1	45:L8:98:ARG:NE	2.52	0.42
48:M1:148:VAL:O	48:M1:153:LYS:HE2	2.20	0.42
49:M3:54:LEU:HD22	49:M3:54:LEU:HA	1.75	0.42
50:M4:113:THR:O	50:M4:116:GLU:N	3.17	0.42
51:M5:14:LYS:NZ	36:5:269:G:H5''	132.10	0.42
54:M8:8:LYS:O	54:M8:11:LYS:HE2	2.20	0.42
55:M9:132:PHE:CD2	55:M9:138:LEU:HD23	5.32	0.42
55:M9:41:ILE:O	55:M9:45:VAL:HG23	2.23	0.42
44:L7:77:VAL:HG13	57:N1:139:ARG:H	5.39	0.42
58:N2:13:LYS:HD2	58:N2:15:PHE:CZ	5.23	0.42
58:N2:90:ARG:C	58:N2:92:TRP:H	2.22	0.42
59:N3:19:VAL:HG13	59:N3:37:ILE:HA	2.38	0.42
60:N4:43:ARG:HH11	60:N4:43:ARG:HB3	1.85	0.42
64:N8:62:HIS:CG	64:N8:62:HIS:O	2.77	0.42
65:N9:43:HIS:O	65:N9:47:LEU:HG	2.20	0.42
66:O0:30:THR:HB	66:O0:91:SER:HB2	2.01	0.42
66:O0:47:ASN:ND2	66:O0:74:ASN:H	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:O8:3:ARG:HB3	74:O8:52:TYR:HA	2.02	0.42
74:O8:70:PRO:C	74:O8:72:THR:H	2.38	0.42
2:S0:168:HIS:HB3	2:S0:203:PHE:CZ	2.71	0.42
2:S0:54:TRP:O	2:S0:58:VAL:HG23	2.41	0.42
2:S0:58:VAL:O	2:S0:62:ARG:HG2	4.10	0.42
3:S1:70:LEU:HA	3:S1:73:LEU:HD23	2.02	0.42
4:S2:104:VAL:HG22	4:S2:132:ALA:HB1	2.01	0.42
4:S2:49:LYS:HE3	4:S2:246:GLU:OE1	2.19	0.42
5:S3:107:PHE:O	5:S3:111:ASN:HB2	2.19	0.42
7:S5:139:ASN:ND2	7:S5:202:ALA:O	2.52	0.42
8:S6:192:ALA:O	8:S6:195:VAL:N	3.30	0.42
8:S6:55:GLY:O	8:S6:63:MET:HG3	2.19	0.42
9:S7:157:LYS:O	9:S7:159:VAL:N	2.73	0.42
11:S9:134:ILE:HA	11:S9:158:PHE:HA	2.01	0.42
36:1:1487:G:H1	36:1:1855:U:H3	1.67	0.42
36:1:14:U:O3'	61:N5:42:ARG:NE	2.52	0.42
36:1:1720:U:OP2	55:M9:110:ARG:NH1	2.53	0.42
36:1:2849:C:OP1	85:1:3727:OHX:N2	2.53	0.42
36:1:2307:G:O6	85:1:3502:OHX:N2	2.53	0.42
36:1:535:G:O6	85:1:3597:OHX:N3	2.53	0.42
36:1:378:A:C2	36:1:379:C:H1'	2.55	0.42
36:1:440:A:OP1	36:1:494:G:H1'	2.18	0.42
36:1:550:A:N6	36:1:551:A:H62	2.17	0.42
36:1:786:A:H4'	36:1:787:G:OP1	2.20	0.42
1:2:1347:U:O2	1:2:1516:A:H5'	2.20	0.42
1:2:1649:G:N7	85:2:1929:OHX:N1	2.68	0.42
85:2:1968:OHX:N3	85:2:2010:OHX:N6	2.68	0.42
1:2:330:G:C6	1:2:331:A:C6	3.08	0.42
1:2:344:A:C5	1:2:345:U:C4	3.08	0.42
1:2:475:A:OP2	11:S9:126:ARG:NH1	2.52	0.42
37:3:31:U:O2'	37:3:32:U:H5'	2.19	0.42
36:5:1598:G:H2'	36:5:1599:G:C8	2.54	0.42
36:5:1790:G:H2'	36:5:1791:C:O4'	2.20	0.42
36:5:1895:A:O2'	36:5:3053:G:H4'	2.18	0.42
36:5:2291:A:C6	36:5:2292:U:C4	3.08	0.42
36:5:2273:G:O2'	36:5:2311:G:O6	2.14	0.42
36:5:2987:A:H2'	36:5:2988:C:C6	2.54	0.42
36:5:3122:A:C2'	36:5:3123:A:H5'	2.49	0.42
36:5:3287:U:N3	36:5:3288:G:N7	2.67	0.42
53:M7:74:LYS:HE3	36:5:3310:A:OP1	186.14	0.42
85:5:3480:OHX:N4	85:5:3703:OHX:N1	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:65:A:O5'	36:5:65:A:H8	2.03	0.42
36:5:712:G:H2'	36:5:713:U:C6	2.55	0.42
1:6:1187:U:O5'	1:6:1187:U:H6	2.02	0.42
21:C9:72:GLY:HA3	1:6:1498:G:H5''	420.58	0.42
1:6:1533:C:H4'	1:6:1539:G:H1	1.85	0.42
1:6:1762:A:O2'	1:6:1783:C:H5'	2.19	0.42
16:C4:136:ARG:HD2	1:6:1769:U:O2	303.40	0.42
1:6:191:C:O2'	1:6:192:U:O5'	2.37	0.42
1:6:570:A:H8	1:6:570:A:OP2	2.02	0.42
37:7:103:A:H8	37:7:103:A:O5'	2.03	0.42
37:7:77:G:O2'	37:7:78:U:P	2.76	0.42
13:C1:16:GLN:HB3	13:C1:19:ILE:HG13	2.02	0.42
16:C4:45:GLY:HA2	16:C4:54:GLU:HG2	2.02	0.42
18:C6:53:LEU:H	18:C6:53:LEU:HG	1.62	0.42
18:C6:83:GLN:HE22	18:C6:119:ALA:HB2	1.84	0.42
19:C7:63:LYS:HD3	19:C7:63:LYS:HA	1.83	0.42
25:D3:114:LYS:HB3	25:D3:115:GLY:H	1.65	0.42
25:D3:135:LEU:HA	25:D3:135:LEU:HD23	2.08	0.42
25:D3:142:LYS:HA	25:D3:143:PRO:HD3	1.93	0.42
28:D6:50:VAL:O	28:D6:53:LEU:HB3	2.20	0.42
28:D6:71:LEU:HA	28:D6:71:LEU:HD13	1.77	0.42
1:2:1797:A:N6	28:D6:84:VAL:O	2.38	0.42
29:D7:54:VAL:HG12	29:D7:55:THR:O	2.85	0.42
33:E1:96:LYS:HA	33:E1:96:LYS:HD2	1.85	0.42
41:L4:259:ASP:OD1	41:L4:259:ASP:N	3.58	0.42
42:L5:134:ALA:HA	42:L5:141:PRO:HD3	2.02	0.42
43:L6:40:LEU:HB3	43:L6:84:VAL:CG2	2.50	0.42
43:L6:98:VAL:HG22	43:L6:101:PHE:HD2	1.84	0.42
45:L8:139:VAL:HG21	45:L8:197:VAL:HG23	2.01	0.42
46:L9:169:ASN:O	46:L9:170:LYS:HE3	2.20	0.42
46:L9:37:ASN:OD1	46:L9:39:LYS:HG3	2.20	0.42
47:M0:190:VAL:HG13	47:M0:197:VAL:HG11	4.32	0.42
48:M1:96:PHE:CD1	48:M1:160:VAL:HG23	4.00	0.42
48:M1:37:LEU:HD13	48:M1:69:VAL:HG12	2.42	0.42
49:M3:121:SER:OG	49:M3:122:LYS:N	2.51	0.42
49:M3:75:PHE:O	49:M3:76:THR:HG23	3.18	0.42
49:M3:80:VAL:HG13	49:M3:85:LEU:O	3.31	0.42
50:M4:22:LEU:HD12	50:M4:22:LEU:HA	1.78	0.42
50:M4:20:VAL:HG22	50:M4:68:LEU:HB2	2.28	0.42
50:M4:71:ALA:O	50:M4:84:LYS:HD2	2.19	0.42
51:M5:73:ARG:HG2	51:M5:75:VAL:HG22	3.15	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:124:LEU:O	52:M6:128:ARG:HB2	2.20	0.42
52:M6:46:GLU:HB2	52:M6:134:LYS:HE3	2.02	0.42
53:M7:41:LEU:HD12	53:M7:112:LEU:HD23	3.88	0.42
53:M7:53:ASP:HB3	53:M7:55:GLN:HB2	2.01	0.42
44:L7:109:THR:HG22	54:M8:4:ASP:HB3	2.01	0.42
54:M8:69:ARG:HG3	54:M8:69:ARG:HH11	2.68	0.42
60:N4:79:GLN:HG3	60:N4:80:ARG:N	4.10	0.42
61:N5:105:VAL:HG12	61:N5:106:ASP:N	2.42	0.42
61:N5:88:MET:HA	61:N5:120:LYS:HD2	2.71	0.42
64:N8:112:ILE:HA	64:N8:112:ILE:HD13	1.70	0.42
49:M3:166:ALA:N	64:N8:135:GLU:OE2	4.80	0.42
66:O0:78:GLY:HA2	66:O0:87:VAL:CG1	2.50	0.42
67:O1:41:LYS:HE3	67:O1:47:ASP:HA	3.81	0.42
71:O5:20:GLN:HA	71:O5:23:ASP:HB2	2.00	0.42
74:O8:46:ARG:HA	74:O8:51:LEU:HD12	2.13	0.42
79:Q3:7:LYS:HD2	36:5:1926:C:H2'	253.25	0.42
2:S0:116:LYS:C	2:S0:118:PRO:HD3	3.20	0.42
4:S2:133:LYS:HA	4:S2:136:VAL:HG23	2.67	0.42
2:S0:109:ASN:H	4:S2:64:LYS:NZ	2.17	0.42
5:S3:11:LEU:HD23	5:S3:11:LEU:HA	1.81	0.42
5:S3:64:ARG:O	5:S3:66:ILE:N	2.53	0.42
5:S3:58:VAL:O	5:S3:65:ARG:HB3	2.20	0.42
6:S4:193:GLY:C	6:S4:194:THR:HG1	2.23	0.42
7:S5:110:ALA:HA	7:S5:113:ILE:HD12	2.01	0.42
7:S5:117:THR:O	7:S5:120:ILE:HB	2.20	0.42
7:S5:41:LYS:HG2	7:S5:69:PHE:HZ	4.42	0.42
10:S8:48:THR:CG2	10:S8:54:LYS:HB2	2.50	0.42
11:S9:168:ARG:HD2	11:S9:174:ARG:HD2	6.05	0.42
34:SR:74:THR:HG22	34:SR:115:ILE:HG21	4.42	0.42
36:1:1047:A:C6	36:1:1048:A:C6	3.08	0.42
36:1:1196:C:O2	85:3:205:OHX:N2	2.52	0.42
36:1:1247:U:H2'	36:1:1268:G:O6	2.20	0.42
36:1:1302:A:C2	36:1:2887:A:C8	3.08	0.42
36:1:1440:G:O6	85:1:3461:OHX:N3	2.52	0.42
36:1:1701:C:H2'	36:1:1702:U:O4'	2.19	0.42
36:1:1836:C:HO2'	36:1:1842:A:N6	2.17	0.42
36:1:1940:G:H21	36:1:3362:A:H8	1.66	0.42
36:1:2244:A:H5''	39:L2:243:THR:OG1	2.20	0.42
36:1:2386:A:H2'	36:1:2387:A:O4'	2.19	0.42
36:1:2523:A:OP1	61:N5:31:THR:OG1	2.20	0.42
36:1:2551:U:O4	39:L2:95:SER:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2975:U:C2'	36:1:2976:A:H5'	2.49	0.42
36:1:3198:U:H4'	46:L9:21:LYS:NZ	2.34	0.42
36:1:3256:G:C6	36:1:3257:C:C4	3.08	0.42
36:1:384:A:H2'	36:1:385:A:O4'	2.20	0.42
36:1:564:G:H2'	36:1:565:U:C6	2.55	0.42
36:1:828:A:H2'	36:1:829:U:C6	2.55	0.42
1:2:1039:A:N6	1:2:1091:A:C2	2.88	0.42
1:2:1334:U:O4'	31:D9:55:PHE:HB3	2.20	0.42
1:2:1389:C:O3'	19:C7:49:LYS:HG3	2.20	0.42
1:2:1397:U:C4	1:2:1399:C:C2	3.08	0.42
1:2:1488:G:H5'	1:2:1489:U:P	2.60	0.42
1:2:1487:A:H2	1:2:1495:C:O2'	2.03	0.42
1:2:1483:A:H2	1:2:1607:G:H1'	1.84	0.42
1:2:1718:G:H2'	1:2:1719:A:H8	1.84	0.42
1:2:529:A:H2'	1:2:530:C:O4'	2.20	0.42
1:2:702:G:C8	85:2:2008:OHX:N2	2.88	0.42
1:2:765:G:O2'	11:S9:149:ARG:NH2	2.53	0.42
1:2:82:U:H2'	1:2:83:G:O4'	2.20	0.42
1:2:943:C:H42	28:D6:15:ARG:HG2	1.85	0.42
68:O2:46:PHE:CE1	36:5:1145:G:H5'	210.40	0.42
36:5:1462:A:C5	36:5:1463:U:C5	3.07	0.42
36:5:148:G:O2'	36:5:149:U:OP2	2.36	0.42
36:5:2322:C:OP1	85:5:3664:OHX:N6	2.53	0.42
36:5:252:U:H4'	36:5:253:A:H5'	2.02	0.42
45:L8:241:LYS:HB2	36:5:2586:G:C5	183.80	0.42
36:5:2955:U:O5'	36:5:2955:U:H6	2.03	0.42
36:5:2912:G:H1'	36:5:3131:U:OP1	2.19	0.42
36:5:975:C:H2'	36:5:976:U:H6	1.84	0.42
1:6:1636:C:C2	1:6:1638:G:C5	3.08	0.42
1:6:922:G:H2'	1:6:923:A:C8	2.55	0.42
1:6:97:C:O2'	1:6:426:G:H5'	2.20	0.42
37:7:94:C:H2'	37:7:95:A:C8	2.55	0.42
17:C5:97:TYR:HD2	17:C5:102:PHE:CE1	2.38	0.42
18:C6:40:GLU:HG3	18:C6:42:GLU:HB2	2.01	0.42
7:S5:112:ARG:NH1	18:C6:43:ILE:HD11	2.34	0.42
18:C6:94:GLN:HG3	18:C6:95:LYS:N	2.36	0.42
19:C7:106:THR:O	19:C7:110:VAL:HG23	2.18	0.42
21:C9:76:LEU:HD23	21:C9:76:LEU:HA	1.91	0.42
23:D1:74:GLN:OE1	23:D1:83:TRP:N	4.66	0.42
24:D2:11:LEU:HD11	24:D2:37:PHE:CE2	3.36	0.42
24:D2:77:PRO:HG2	24:D2:79:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:62:LYS:HB2	25:D3:116:ASP:O	3.20	0.42
25:D3:38:PHE:CE1	1:6:359:A:H1'	332.74	0.42
28:D6:38:ARG:HH21	28:D6:83:ILE:HG21	1.83	0.42
28:D6:97:PRO:N	28:D6:98:PRO:HD2	2.35	0.42
11:S9:123:HIS:CG	32:E0:37:ARG:HD2	3.44	0.42
39:L2:14:SER:O	39:L2:16:PHE:N	2.53	0.42
39:L2:200:ARG:C	39:L2:202:VAL:H	2.23	0.42
40:L3:283:TYR:CE2	40:L3:325:LYS:HG3	2.95	0.42
41:L4:99:MET:CE	41:L4:102:PRO:HA	2.66	0.42
41:L4:143:GLU:O	85:L4:401:OHX:N1	3.20	0.42
42:L5:33:ARG:NH2	37:7:7:G:O3'	270.12	0.42
44:L7:214:TRP:CE2	44:L7:219:LYS:HD2	2.55	0.42
45:L8:152:LEU:HB3	45:L8:180:VAL:HG11	2.91	0.42
46:L9:74:LEU:HD23	46:L9:74:LEU:HA	2.03	0.42
47:M0:75:TYR:HD1	47:M0:151:GLY:HA2	3.23	0.42
47:M0:211:ARG:O	47:M0:214:PRO:HG3	2.20	0.42
47:M0:47:PRO:HB2	47:M0:178:ARG:NH1	3.79	0.42
48:M1:15:GLU:O	48:M1:72:ARG:HB3	2.20	0.42
49:M3:133:PRO:O	49:M3:135:ALA:N	3.31	0.42
50:M4:58:ILE:HD13	50:M4:63:VAL:HG23	2.53	0.42
51:M5:121:VAL:HG23	51:M5:122:ASN:HB2	2.01	0.42
51:M5:164:LEU:HD23	51:M5:172:ARG:HH12	1.85	0.42
85:1:3448:OHX:N6	51:M5:32:GLN:O	2.53	0.42
53:M7:117:ILE:HG23	53:M7:117:ILE:O	2.19	0.42
53:M7:125:GLN:HB2	53:M7:141:SER:OG	2.20	0.42
54:M8:60:PRO:HB2	54:M8:142:GLY:HA3	2.02	0.42
55:M9:80:LYS:HE3	36:5:1940:G:OP1	206.32	0.42
36:1:2700:G:OP1	57:N1:17:ARG:HB2	2.20	0.42
36:1:2722:U:O2'	57:N1:88:ARG:O	2.32	0.42
58:N2:20:SER:O	58:N2:24:GLU:HG2	2.47	0.42
60:N4:45:ASN:HA	60:N4:46:PRO:HD2	1.67	0.42
60:N4:54:LEU:HA	60:N4:54:LEU:HD13	3.94	0.42
61:N5:82:LEU:HG	61:N5:126:LEU:HD11	2.52	0.42
61:N5:82:LEU:O	61:N5:124:VAL:HG23	2.20	0.42
62:N6:63:LYS:HA	62:N6:63:LYS:HD3	2.20	0.42
63:N7:3:LYS:HE3	66:O0:36:GLN:HA	2.01	0.42
66:O0:99:ASP:O	66:O0:101:LEU:N	3.28	0.42
67:O1:35:GLU:O	67:O1:38:LYS:HB3	2.36	0.42
72:O6:58:ILE:HA	72:O6:61:ILE:HD12	2.00	0.42
76:Q0:96:CYS:CB	76:Q0:99:CYS:SG	3.33	0.42
2:S0:189:VAL:HG13	2:S0:190:ASP:OD1	5.90	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:83:ILE:HD11	4:S2:125:ILE:HD11	2.02	0.42
4:S2:228:ASN:C	4:S2:230:TRP:H	2.23	0.42
6:S4:105:VAL:HG11	6:S4:245:LYS:H	2.08	0.42
7:S5:159:ALA:CB	7:S5:225:ARG:HB3	3.85	0.42
7:S5:94:THR:OG1	7:S5:95:ASN:N	2.52	0.42
8:S6:48:TYR:CZ	8:S6:121:LEU:HD22	4.89	0.42
8:S6:191:ARG:HD3	8:S6:191:ARG:HA	3.62	0.42
8:S6:191:ARG:O	8:S6:195:VAL:HG23	2.20	0.42
9:S7:100:PRO:HG2	9:S7:108:GLN:HE21	12.74	0.42
9:S7:166:LEU:O	9:S7:169:PHE:HB2	2.19	0.42
34:SR:238:ASP:HB2	34:SR:239:GLU:H	1.55	0.42
34:SR:7:LEU:HD11	34:SR:251:TRP:CZ3	2.54	0.42
36:1:1599:G:H1	36:1:1608:C:N4	2.16	0.42
36:1:2102:U:H2'	36:1:2103:U:H6	1.85	0.42
36:1:2263:C:H6	36:1:2263:C:O5'	2.02	0.42
36:1:2623:G:C5	36:1:2624:G:C5	3.08	0.42
36:1:3007:U:H2'	36:1:3008:A:C8	2.53	0.42
1:2:121:U:H1'	6:S4:33:ALA:HB3	2.02	0.42
1:2:1312:A:N6	1:2:1313:A:N6	2.67	0.42
1:2:1281:G:C4	1:2:1428:G:N2	2.88	0.42
1:2:169:A:OP2	1:2:169:A:H8	2.03	0.42
85:2:1968:OHX:N5	85:2:2010:OHX:N2	2.68	0.42
1:2:819:G:N3	1:2:820:U:H5	2.17	0.42
36:5:1150:A:OP2	36:5:1150:A:H8	2.02	0.42
36:5:1474:A:H2'	36:5:1475:A:H8	1.85	0.42
36:5:2533:G:H2'	36:5:2534:G:H8	1.85	0.42
36:5:2682:C:O2'	36:5:2683:U:OP1	2.28	0.42
36:5:2872:A:C5	36:5:2873:U:C4	3.08	0.42
36:5:2970:C:HO2'	36:5:2971:A:H2	1.66	0.42
36:5:3198:U:H3'	36:5:3199:G:H5'	2.02	0.42
36:5:2580:A:O2'	85:5:3634:OHX:N1	2.52	0.42
36:5:722:G:C6	36:5:723:U:C4	3.08	0.42
36:5:831:G:H8	36:5:831:G:O5'	2.03	0.42
1:6:1009:U:H2'	1:6:1010:C:H6	1.85	0.42
1:6:1275:A:H8	1:6:1275:A:OP2	2.03	0.42
19:C7:10:LYS:NZ	1:6:1401:A:O3'	407.97	0.42
1:6:1388:A:C6	1:6:1412:G:C6	3.08	0.42
1:6:158:U:O2'	1:6:159:U:H3'	2.20	0.42
1:6:263:C:O2'	1:6:264:G:H5'	2.19	0.42
1:6:386:G:C6	1:6:387:A:N6	2.88	0.42
1:6:410:A:H2'	1:6:411:C:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:72:A:H2'	1:6:73:U:C1'	2.50	0.42
1:6:897:C:C2	1:6:914:G:N2	2.88	0.42
1:6:940:A:C6	1:6:941:A:C5	3.08	0.42
1:6:97:C:H42	1:6:386:G:H1	1.67	0.42
17:C5:122:THR:HB	1:6:1558:U:N3	365.26	0.42
1:2:1549:C:OP1	17:C5:38:PRO:HA	2.20	0.42
19:C7:21:TYR:N	19:C7:22:PRO:HD2	2.34	0.42
22:D0:105:GLN:HG3	22:D0:106:ILE:H	1.84	0.42
22:D0:108:ILE:HD12	22:D0:108:ILE:HA	3.93	0.42
22:D0:48:HIS:O	22:D0:48:HIS:ND1	2.53	0.42
23:D1:5:LYS:C	23:D1:7:GLN:H	2.76	0.42
25:D3:65:ASN:ND2	25:D3:116:ASP:OD1	3.18	0.42
30:D8:32:PHE:HZ	30:D8:38:ARG:HD2	1.84	0.42
39:L2:21:ARG:NH2	39:L2:22:LEU:HD21	2.35	0.42
36:1:3146:G:O2'	40:L3:101:SER:O	2.31	0.42
40:L3:141:GLY:O	40:L3:143:GLY:N	2.53	0.42
40:L3:81:THR:OG1	40:L3:321:PHE:HA	2.20	0.42
41:L4:157:GLU:HB3	41:L4:211:GLU:O	2.19	0.42
41:L4:84:ARG:HG3	41:L4:84:ARG:O	2.20	0.42
42:L5:222:LEU:O	42:L5:223:PHE:HB2	2.19	0.42
45:L8:139:VAL:O	45:L8:143:ILE:HG13	2.20	0.42
45:L8:75:ILE:C	45:L8:77:GLN:H	2.23	0.42
46:L9:111:PHE:CD1	46:L9:127:PRO:HA	2.61	0.42
47:M0:203:LYS:HG2	47:M0:204:GLY:N	2.32	0.42
36:1:86:G:O2'	49:M3:11:LYS:HD3	2.20	0.42
49:M3:151:ALA:O	49:M3:153:ASP:N	4.12	0.42
51:M5:98:LEU:HD22	51:M5:128:LYS:NZ	5.77	0.42
51:M5:52:GLY:O	51:M5:148:TYR:OH	2.74	0.42
56:N0:47:LYS:O	56:N0:48:LEU:HD23	2.40	0.42
59:N3:125:LEU:HB3	59:N3:126:TRP:CD1	2.55	0.42
61:N5:57:LEU:HD23	61:N5:57:LEU:HA	4.21	0.42
54:M8:175:ALA:HB3	64:N8:53:PHE:O	2.19	0.42
66:O0:45:ALA:HB1	66:O0:73:GLY:HA2	2.55	0.42
68:O2:4:LEU:HA	68:O2:5:PRO:HD3	1.90	0.42
70:O4:56:THR:HA	70:O4:62:TYR:OH	2.24	0.42
71:O5:21:LEU:HD21	71:O5:51:ILE:HG23	2.00	0.42
49:M3:104:ARG:HA	72:O6:20:MET:HB2	2.02	0.42
2:S0:60:ALA:O	2:S0:64:ILE:HG13	2.47	0.42
3:S1:176:VAL:C	3:S1:178:GLY:H	2.22	0.42
3:S1:194:ASN:OD1	3:S1:194:ASN:N	2.62	0.42
3:S1:164:ILE:HD13	3:S1:207:LEU:HD21	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:75:LYS:HA	5:S3:75:LYS:HD3	2.41	0.42
9:S7:47:ARG:HB2	9:S7:59:ALA:HB3	3.17	0.42
10:S8:36:THR:HG22	10:S8:57:ALA:O	2.20	0.42
11:S9:54:ARG:HE	11:S9:54:ARG:HB3	2.23	0.42
35:SM:46:LYS:HE2	35:SM:46:LYS:HB2	3.48	0.42
34:SR:307:ASP:N	34:SR:307:ASP:OD1	2.59	0.42
36:1:1158:A:H2'	36:1:1159:A:C5'	2.50	0.42
36:1:1602:A:C6	36:1:1603:A:C6	3.08	0.42
36:1:1661:G:N2	36:1:1789:G:H1'	2.35	0.42
36:1:18:G:N2	38:4:142:C:C2	2.88	0.42
36:1:2266:U:H2'	36:1:2267:C:C6	2.55	0.42
36:1:2818:U:H6	36:1:2818:U:C5'	2.29	0.42
36:1:2832:C:H6	36:1:2832:C:O5'	2.03	0.42
36:1:3276:G:H5'	43:L6:48:ARG:HH22	1.82	0.42
36:1:370:U:C4	36:1:371:G:C6	3.08	0.42
36:1:715:A:H5''	64:N8:114:GLY:O	2.19	0.42
36:1:770:G:O6	85:1:3631:OHX:N6	2.52	0.42
1:2:1244:A:H3'	1:2:1244:A:N3	2.35	0.42
1:2:1244:A:O2'	1:2:1245:G:OP1	2.34	0.42
1:2:1385:G:N7	85:2:2011:OHX:N3	2.68	0.42
85:2:1953:OHX:N4	85:2:2040:OHX:N1	2.68	0.42
1:2:404:G:H2'	1:2:405:C:C6	2.55	0.42
37:3:82:G:C6	37:3:99:G:C6	3.08	0.42
38:4:81:U:C2	38:4:82:U:C5	3.08	0.42
45:L8:108:ARG:NH1	36:5:121:A:C4	95.86	0.42
41:L4:191:LYS:HB2	36:5:1380:G:OP1	115.61	0.42
36:5:1814:A:OP1	85:5:3684:OHX:N3	2.53	0.42
36:5:3365:U:O2'	36:5:3366:G:H5'	2.19	0.42
36:5:855:U:C4	36:5:856:G:C6	3.07	0.42
1:6:100:A:C6	1:6:101:U:C4	3.07	0.42
1:6:1483:A:C6	1:6:1484:G:C6	3.08	0.42
1:6:1531:G:C6	1:6:1532:U:C4	3.08	0.42
1:6:21:U:H2'	1:6:22:A:H8	1.85	0.42
1:6:649:U:H2'	1:6:650:U:H5	1.84	0.42
1:6:755:A:H1'	1:6:756:A:OP1	2.20	0.42
14:C2:69:ALA:HA	14:C2:71:ILE:HG23	3.07	0.42
19:C7:46:LEU:O	19:C7:50:ILE:HG13	2.19	0.42
20:C8:126:ARG:NH2	1:6:1459:C:OP1	350.16	0.42
20:C8:132:ARG:HG3	20:C8:138:THR:HG22	2.02	0.42
26:D4:112:LYS:NZ	26:D4:116:LYS:HD2	2.32	0.42
29:D7:82:LYS:HB2	29:D7:82:LYS:HE3	4.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:185:ALA:O	39:L2:189:TYR:HD2	6.00	0.42
39:L2:70:ARG:NH1	39:L2:72:ARG:HE	4.12	0.42
36:L3:137:C:H5"	40:L3:276:THR:HG21	2.02	0.42
40:L3:286:GLY:HA3	40:L3:321:PHE:CZ	2.55	0.42
40:L3:284:ARG:NH2	40:L3:295:ALA:O	2.53	0.42
40:L3:296:THR:CG2	40:L3:297:SER:N	3.44	0.42
42:L5:23:ARG:O	42:L5:26:GLY:N	2.97	0.42
44:L7:110:ARG:HB2	54:M8:2:GLY:O	2.20	0.42
44:L7:25:GLN:CG	44:L7:29:GLU:HB2	2.50	0.42
45:L8:133:LYS:HB2	45:L8:199:ALA:O	3.68	0.42
45:L8:238:LEU:HA	45:L8:238:LEU:HD12	1.75	0.42
47:M0:56:GLU:C	47:M0:131:ILE:HG12	2.39	0.42
47:M0:50:VAL:HG22	47:M0:167:LEU:HD22	2.01	0.42
48:M1:139:THR:OG1	48:M1:139:THR:O	2.22	0.42
50:M4:60:LEU:HA	50:M4:60:LEU:HD23	1.83	0.42
51:M5:193:ARG:C	51:M5:195:ASN:N	2.73	0.42
52:M6:61:ALA:HA	52:M6:70:PRO:HD2	2.05	0.42
53:M7:126:ARG:HG3	53:M7:127:ARG:H	1.85	0.42
54:M8:18:ALA:HB1	54:M8:19:PRO:HD2	2.07	0.42
55:M9:104:ARG:HH21	55:M9:105:LEU:HB2	1.85	0.42
55:M9:127:SER:O	55:M9:129:GLY:N	2.52	0.42
56:N0:82:ASP:OD1	56:N0:87:THR:HB	2.20	0.42
57:N1:17:ARG:HG2	57:N1:22:HIS:CG	2.55	0.42
60:N4:80:ARG:HB2	60:N4:81:PRO:HD2	5.15	0.42
62:N6:45:ILE:HD11	62:N6:122:LYS:HE3	4.83	0.42
63:N7:53:VAL:HA	63:N7:57:HIS:CD2	2.55	0.42
64:N8:116:GLY:H	64:N8:137:LYS:NZ	2.18	0.42
49:M3:170:LEU:HD11	64:N8:129:PHE:HA	2.33	0.42
64:N8:34:MET:CB	36:5:95:A:H5"	163.39	0.42
67:O1:27:LYS:O	67:O1:30:PRO:HD2	2.74	0.42
43:L6:6:ALA:HB2	68:O2:74:PHE:HZ	1.85	0.42
69:O3:43:PHE:HD2	69:O3:44:TYR:CE2	2.38	0.42
72:O6:60:LEU:HD21	72:O6:68:ARG:CZ	2.50	0.42
72:O6:73:ALA:HB3	72:O6:83:ALA:HB1	2.40	0.42
2:S0:162:CYS:HB2	2:S0:163:ASN:H	1.79	0.42
3:S1:181:LEU:HD23	3:S1:181:LEU:HA	4.43	0.42
5:S3:138:VAL:HG22	5:S3:184:ILE:HD13	2.86	0.42
5:S3:210:GLU:HG3	5:S3:211:PRO:HD2	3.19	0.42
5:S3:40:ARG:HB2	5:S3:47:GLU:HB2	2.39	0.42
6:S4:166:SER:OG	6:S4:167:GLY:N	2.52	0.42
7:S5:61:TYR:OH	30:D8:49:ARG:HD3	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:58:LEU:O	7:S5:62:VAL:N	2.53	0.42
8:S6:23:ARG:NH2	8:S6:42:GLY:HA2	3.43	0.42
8:S6:57:ASP:HA	8:S6:107:ALA:H	1.85	0.42
9:S7:98:ILE:HD13	9:S7:118:LEU:HD22	3.10	0.42
9:S7:133:THR:O	9:S7:134:GLU:HB2	2.20	0.42
9:S7:14:THR:HG22	9:S7:17:GLU:OE1	3.10	0.42
10:S8:38:ILE:CD1	10:S8:80:GLY:HA2	2.94	0.42
10:S8:34:ALA:HB2	10:S8:56:ARG:HG3	2.01	0.42
11:S9:128:LEU:HD23	11:S9:133:HIS:ND1	3.28	0.42
36:1:1016:C:H1'	36:1:1028:U:C2	2.55	0.41
36:1:1868:G:C5	36:1:1869:C:C4	3.08	0.41
36:1:2294:U:O2	36:1:2296:A:C8	2.73	0.41
36:1:2298:U:O4	36:1:2923:U:H5	2.03	0.41
36:1:2601:A:H2'	36:1:2602:G:H8	1.85	0.41
36:1:2923:U:H2'	36:1:2924:U:C6	2.55	0.41
36:1:3145:C:H2'	36:1:3146:G:H8	1.85	0.41
36:1:883:A:C5	36:1:921:A:C6	3.07	0.41
36:1:89:A:N6	36:1:98:G:C2	2.88	0.41
36:1:999:G:C6	36:1:1000:C:N4	2.88	0.41
1:2:1003:A:H4'	1:2:1004:U:O5'	2.20	0.41
1:2:1586:A:H1'	1:2:1611:A:H61	1.85	0.41
1:2:1370:U:O4	85:2:1999:OHX:N1	2.53	0.41
1:2:252:U:H4'	6:S4:131:LEU:HD12	2.02	0.41
37:3:49:G:OP2	42:L5:91:GLY:N	2.52	0.41
36:5:1083:G:C6	36:5:1084:A:C6	3.08	0.41
36:5:1115:G:H5''	36:5:1116:G:C5'	2.51	0.41
36:5:1255:C:H2'	36:5:1256:G:H8	1.85	0.41
79:Q3:34:HIS:CD2	36:5:1791:C:OP1	223.54	0.41
62:N6:19:TYR:CZ	36:5:216:G:H4'	72.29	0.41
36:5:2359:C:H6	36:5:2359:C:O5'	2.03	0.41
36:5:2517:U:H2'	36:5:2518:C:H6	1.84	0.41
36:5:3218:A:H5''	36:5:3219:G:C4	2.54	0.41
36:5:3295:A:H2'	36:5:3296:A:C8	2.55	0.41
1:6:1530:C:H2'	1:6:1531:G:C8	2.55	0.41
1:6:1625:C:H2'	1:6:1626:U:C6	2.55	0.41
1:6:1717:G:C2	1:6:1718:G:C8	3.08	0.41
1:6:193:U:C2	1:6:195:G:H1'	2.54	0.41
1:6:819:G:O2'	1:6:821:U:OP2	2.37	0.41
20:C8:87:ASN:OD1	20:C8:99:HIS:HA	2.20	0.41
22:D0:35:GLU:OE2	22:D0:57:ARG:NH2	2.53	0.41
9:S7:142:TYR:O	24:D2:49:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:99:ASN:N	25:D3:99:ASN:OD1	3.39	0.41
26:D4:20:ARG:O	26:D4:21:LYS:HD2	2.20	0.41
39:L2:100:ASN:O	39:L2:166:ILE:HG12	2.92	0.41
40:L3:205:VAL:O	40:L3:207:SER:N	2.60	0.41
40:L3:300:ARG:HB3	40:L3:300:ARG:CZ	4.83	0.41
36:1:662:U:H1'	41:L4:101:ALA:CB	2.50	0.41
41:L4:152:VAL:CG2	41:L4:172:VAL:HG21	2.46	0.41
41:L4:140:HIS:N	41:L4:180:LYS:HE2	2.30	0.41
42:L5:110:LEU:HD22	42:L5:171:LEU:HD23	2.02	0.41
43:L6:55:LEU:HD23	43:L6:55:LEU:HA	1.87	0.41
45:L8:143:ILE:HD11	45:L8:151:VAL:HG21	2.32	0.41
45:L8:41:GLN:HG3	45:L8:44:ARG:HH22	3.39	0.41
46:L9:121:LYS:HA	46:L9:121:LYS:HD2	1.83	0.41
50:M4:135:LEU:HD11	52:M6:178:VAL:HG22	2.01	0.41
50:M4:27:GLN:O	50:M4:29:ALA:N	3.47	0.41
52:M6:114:LYS:HA	36:5:3180:A:C4	273.50	0.41
52:M6:126:VAL:HG12	52:M6:126:VAL:H	1.63	0.41
52:M6:77:SER:HB2	52:M6:104:VAL:HG12	2.02	0.41
36:1:1059:G:H4'	57:N1:60:LYS:HE3	2.02	0.41
57:N1:79:MET:HG3	57:N1:79:MET:O	2.20	0.41
59:N3:28:ASN:HD21	59:N3:112:SER:H	2.95	0.41
61:N5:82:LEU:HD11	61:N5:135:ILE:HG21	2.13	0.41
61:N5:141:TYR:O	61:N5:142:ILE:HG13	4.02	0.41
62:N6:53:ASP:HA	62:N6:69:LYS:CG	4.05	0.41
64:N8:2:PRO:HA	36:5:1428:A:OP2	134.81	0.41
70:O4:79:SER:O	70:O4:80:ARG:HD3	2.20	0.41
74:O8:16:ARG:CZ	74:O8:70:PRO:HG3	3.98	0.41
78:Q2:98:LYS:HD2	36:5:2656:A:H4'	251.22	0.41
2:S0:120:LEU:HD12	2:S0:121:VAL:N	2.51	0.41
3:S1:119:THR:HB	3:S1:143:THR:CG2	2.50	0.41
5:S3:5:ILE:HG22	5:S3:6:SER:N	2.34	0.41
10:S8:119:GLN:O	10:S8:120:THR:OG1	2.34	0.41
34:SR:109:ASP:HB2	34:SR:127:ARG:HB2	2.01	0.41
36:1:1025:A:C8	36:1:1025:A:OP1	2.73	0.41
36:1:1118:C:O2	36:1:1154:A:H2	2.03	0.41
36:1:13:A:H4'	61:N5:39:LYS:HG3	2.02	0.41
36:1:1488:G:O2'	70:O4:10:ARG:O	2.37	0.41
36:1:1661:G:H2'	36:1:1662:G:C8	2.55	0.41
36:1:1722:U:C4	36:1:1723:A:N7	2.88	0.41
36:1:2244:A:H2'	36:1:2245:C:H6	1.84	0.41
36:1:2363:A:C6	36:1:2364:G:C6	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2599:U:H2'	36:1:2600:C:C6	2.55	0.41
36:1:3243:A:C8	52:M6:156:LEU:HD13	2.55	0.41
36:1:3254:G:H2'	36:1:3255:U:O4'	2.20	0.41
85:1:3679:OHX:N1	85:1:3723:OHX:N5	2.68	0.41
36:1:981:U:O2'	36:1:982:C:OP1	2.37	0.41
1:2:1089:U:O2'	1:2:1090:C:H5'	2.20	0.41
1:2:1530:C:C2	1:2:1531:G:C8	3.08	0.41
1:2:1645:G:H2'	1:2:1646:C:H6	1.85	0.41
85:2:1961:OHX:N3	85:2:1963:OHX:N1	2.67	0.41
1:2:329:G:H2'	1:2:330:G:C8	2.53	0.41
1:2:579:A:H2	5:S3:143:ARG:HG3	1.84	0.41
1:2:5:U:OP2	4:S2:204:THR:OG1	2.17	0.41
1:2:654:C:H3'	1:2:655:G:H5''	2.02	0.41
37:3:58:C:H6	37:3:58:C:O5'	2.03	0.41
36:5:1256:G:H2'	36:5:1257:C:C6	2.55	0.41
36:5:1211:U:H1'	36:5:1295:G:N2	2.35	0.41
36:5:1785:U:H2'	36:5:1786:G:C8	2.55	0.41
36:5:173:G:N1	36:5:246:U:C2	2.88	0.41
36:5:2590:A:C4	36:5:2591:A:C8	3.07	0.41
36:5:2757:U:H5''	36:5:2758:A:OP2	2.19	0.41
36:5:616:G:H21	36:5:3274:A:H61	1.68	0.41
85:5:3570:OHX:N3	85:5:3647:OHX:N6	2.68	0.41
85:5:3504:OHX:N4	85:5:3594:OHX:N1	2.68	0.41
36:5:438:A:H2'	36:5:494:G:N2	2.35	0.41
1:6:108:A:H2'	1:6:109:G:C8	2.55	0.41
12:C0:44:LYS:HD2	1:6:1217:A:H4'	426.91	0.41
1:6:1334:U:C4	1:6:1335:U:C4	3.07	0.41
1:6:1512:G:H2'	1:6:1513:G:C8	2.53	0.41
1:6:1561:U:H4'	1:6:1599:C:H4'	2.02	0.41
1:6:156:A:C6	1:6:157:A:C4	3.08	0.41
1:6:352:A:H8	1:6:352:A:H5'	1.85	0.41
1:6:445:A:H61	1:6:462:G:H1'	1.85	0.41
1:6:552:G:H1	1:6:572:C:H42	1.67	0.41
37:7:52:G:O2'	37:7:53:U:H5'	2.20	0.41
38:8:92:A:H2'	38:8:93:U:O4'	2.20	0.41
13:C1:38:ALA:O	1:6:247:A:H1'	322.35	0.41
13:C1:91:LEU:HD23	13:C1:91:LEU:HA	1.99	0.41
17:C5:28:MET:O	17:C5:32:ASP:HB2	2.20	0.41
5:S3:211:PRO:HG2	19:C7:19:ARG:HB2	2.01	0.41
20:C8:88:ARG:HD2	20:C8:108:LYS:HG2	2.02	0.41
22:D0:27:THR:HA	22:D0:87:HIS:O	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:40:ASP:OD1	23:D1:41:GLU:N	2.67	0.41
24:D2:75:ILE:HG21	24:D2:89:TRP:CZ3	3.67	0.41
25:D3:92:CYS:SG	25:D3:132:LEU:HD12	2.61	0.41
30:D8:11:LYS:O	30:D8:31:GLU:N	2.87	0.41
40:L3:183:LEU:HD12	40:L3:183:LEU:HA	1.70	0.41
40:L3:236:LYS:HG3	40:L3:237:LYS:N	2.65	0.41
40:L3:306:THR:HA	40:L3:307:PRO:HD3	1.89	0.41
41:L4:162:THR:O	41:L4:165:ALA:N	2.65	0.41
43:L6:92:SER:HB3	43:L6:148:GLU:HG2	3.97	0.41
44:L7:105:LEU:HA	44:L7:105:LEU:HD23	1.84	0.41
44:L7:175:LYS:HE2	44:L7:175:LYS:HB3	1.75	0.41
47:M0:4:ARG:CZ	47:M0:99:ILE:HG13	2.50	0.41
48:M1:11:ASP:HB3	48:M1:12:LEU:H	1.42	0.41
51:M5:148:TYR:O	51:M5:151:ILE:HG22	4.14	0.41
52:M6:108:ILE:HG23	52:M6:160:ARG:NH1	5.94	0.41
57:N1:18:ASP:OD2	85:N1:201:OHX:N4	2.54	0.41
57:N1:93:VAL:H	57:N1:93:VAL:HG22	2.76	0.41
60:N4:39:LEU:HD12	60:N4:44:LYS:HG3	3.28	0.41
60:N4:81:PRO:HB2	60:N4:82:ILE:HA	2.02	0.41
61:N5:69:SER:C	61:N5:71:THR:H	3.34	0.41
67:O1:7:VAL:HA	67:O1:77:ARG:HG2	3.21	0.41
69:O3:8:TYR:CE2	69:O3:99:ARG:HG2	2.90	0.41
71:O5:110:ALA:O	71:O5:112:PRO:HD3	3.71	0.41
38:4:63:G:HO2'	71:O5:49:LYS:NZ	2.16	0.41
71:O5:66:VAL:O	71:O5:70:TYR:HD2	2.52	0.41
73:O7:18:LEU:HD23	73:O7:25:ARG:HB2	2.66	0.41
73:O7:16:HIS:HA	73:O7:27:PHE:O	2.60	0.41
75:O9:23:LEU:HD21	38:8:52:A:C6	82.82	0.41
75:O9:37:TYR:CE1	75:O9:39:ALA:HA	2.55	0.41
76:Q0:79:GLU:HA	76:Q0:80:PRO:HD3	1.71	0.41
78:Q2:10:THR:HG23	78:Q2:11:TYR:N	2.55	0.41
2:S0:12:GLU:HG2	2:S0:12:GLU:H	1.63	0.41
3:S1:195:LYS:HA	3:S1:198:GLU:HB3	2.01	0.41
4:S2:218:ILE:HA	4:S2:221:THR:HG23	2.63	0.41
6:S4:65:LEU:HD23	6:S4:78:THR:HA	2.02	0.41
7:S5:101:GLY:C	7:S5:103:ASN:H	2.57	0.41
7:S5:30:PRO:O	7:S5:34:GLN:HG3	2.19	0.41
7:S5:43:PHE:HB3	7:S5:46:TRP:HD1	5.83	0.41
7:S5:63:GLN:H	7:S5:89:ILE:HG23	1.85	0.41
8:S6:20:ASP:O	8:S6:23:ARG:N	3.03	0.41
9:S7:46:ILE:HD11	9:S7:60:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:67:LEU:HD22	9:S7:71:HIS:NE2	3.17	0.41
11:S9:149:ARG:HD2	1:6:765:G:O6	430.42	0.41
11:S9:33:GLU:O	11:S9:122:VAL:HG11	2.19	0.41
35:SM:102:THR:HG23	35:SM:105:LYS:HB2	2.01	0.41
34:SR:276:PRO:HB2	34:SR:278:PHE:CE1	5.07	0.41
36:1:2229:A:OP1	85:1:3731:OHX:N3	2.53	0.41
36:1:2259:A:H2'	36:1:2260:U:O4'	2.21	0.41
36:1:2747:A:H2'	36:1:2748:A:C8	2.55	0.41
36:1:2882:U:H2'	36:1:2883:U:O4'	2.20	0.41
36:1:3094:A:H2'	36:1:3095:U:C6	2.55	0.41
1:2:1288:G:C2	1:2:1289:U:C6	3.08	0.41
1:2:1480:G:C2	1:2:1528:U:C2	3.09	0.41
1:2:1576:A:H2'	1:2:1577:A:O4'	2.20	0.41
1:2:1579:U:H2'	1:2:1580:C:H6	1.86	0.41
1:2:319:U:O5'	1:2:319:U:H6	2.03	0.41
1:2:648:G:H2'	1:2:648:G:N3	2.34	0.41
1:2:849:C:C2	1:2:850:A:C8	3.09	0.41
36:5:1508:C:O2'	36:5:2353:G:H1'	2.21	0.41
36:5:2517:U:H2'	36:5:2518:C:C6	2.56	0.41
36:5:2653:C:H1'	36:5:2694:A:C2	2.55	0.41
36:5:2987:A:C5	36:5:2988:C:C4	3.08	0.41
36:5:3025:C:H2'	36:5:3026:G:O4'	2.20	0.41
36:5:3225:C:H2'	36:5:3226:A:O4'	2.21	0.41
36:5:3134:A:OP1	85:5:3428:OHX:N5	2.54	0.41
85:5:3537:OHX:N5	85:5:3585:OHX:N6	2.68	0.41
36:5:752:C:H2'	36:5:753:C:C6	2.55	0.41
36:5:759:U:H2'	36:5:760:G:H5'	2.02	0.41
36:5:830:A:C6	36:5:865:U:H1'	2.55	0.41
1:6:273:G:H2'	1:6:274:G:O4'	2.20	0.41
1:6:848:C:H2'	1:6:849:C:C6	2.56	0.41
38:8:138:A:C2	38:8:139:U:C2	3.08	0.41
38:8:15:G:OP2	85:8:201:OHX:N3	2.53	0.41
12:C0:2:LEU:HB3	12:C0:3:MET:H	4.15	0.41
15:C3:121:ARG:HE	15:C3:121:ARG:HB2	1.67	0.41
17:C5:18:ARG:H	17:C5:20:VAL:HG23	1.84	0.41
19:C7:5:ARG:H	19:C7:5:ARG:HD3	1.85	0.41
19:C7:69:ILE:H	19:C7:69:ILE:HD13	1.85	0.41
20:C8:108:LYS:O	20:C8:112:ASP:HB2	3.05	0.41
21:C9:31:PRO:HG3	21:C9:103:LYS:HD3	2.02	0.41
23:D1:5:LYS:H	23:D1:5:LYS:HD3	1.84	0.41
2:S0:154:GLU:HA	23:D1:63:GLY:HA2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:67:GLY:O	26:D4:68:LYS:HB2	2.73	0.41
27:D5:39:ALA:N	27:D5:70:LYS:O	6.07	0.41
27:D5:88:ILE:HD13	27:D5:88:ILE:HA	4.28	0.41
27:D5:89:ILE:HB	27:D5:101:TYR:CG	2.55	0.41
29:D7:3:LEU:HA	29:D7:3:LEU:HD22	2.19	0.41
30:D8:64:ARG:HB3	30:D8:65:ARG:H	1.77	0.41
31:D9:29:GLY:O	31:D9:39:CYS:HA	2.20	0.41
22:D0:63:LEU:HD12	31:D9:34:TYR:CZ	4.97	0.41
40:L3:335:ILE:HG13	40:L3:336:VAL:N	2.86	0.41
41:L4:151:VAL:HG13	41:L4:250:TRP:HB2	2.33	0.41
41:L4:35:VAL:HG11	41:L4:244:LEU:HD21	2.01	0.41
42:L5:173:VAL:HA	42:L5:174:PRO:HD2	1.78	0.41
45:L8:231:LYS:HB2	45:L8:231:LYS:HE3	3.88	0.41
47:M0:75:TYR:CD1	47:M0:151:GLY:HA2	3.44	0.41
48:M1:23:VAL:HG11	48:M1:29:ARG:HG2	2.02	0.41
49:M3:87:ALA:O	49:M3:89:TYR:N	2.53	0.41
51:M5:68:ARG:HH11	51:M5:128:LYS:HE3	6.38	0.41
52:M6:27:LEU:HA	52:M6:27:LEU:HD23	1.79	0.41
53:M7:75:GLU:HG2	53:M7:76:PHE:CE2	3.13	0.41
54:M8:44:PHE:CD1	54:M8:139:ILE:HD11	2.54	0.41
59:N3:80:ARG:NE	59:N3:97:ASP:OD2	2.39	0.41
60:N4:18:GLY:HA3	60:N4:31:PHE:O	2.20	0.41
36:1:2112:U:OP2	60:N4:48:ARG:NH1	2.53	0.41
61:N5:62:VAL:HG12	61:N5:63:ILE:N	2.65	0.41
63:N7:27:LYS:HG3	63:N7:29:HIS:HE1	1.86	0.41
63:N7:4:PHE:CD2	66:O0:62:LEU:HB3	2.56	0.41
63:N7:4:PHE:HE2	66:O0:63:SER:HB3	1.86	0.41
63:N7:36:HIS:NE2	63:N7:74:VAL:HG21	3.13	0.41
65:N9:6:ASN:O	65:N9:7:HIS:HB2	2.20	0.41
66:O0:17:VAL:HG21	66:O0:100:ILE:HD13	2.07	0.41
66:O0:51:LEU:HA	66:O0:51:LEU:HD12	1.81	0.41
68:O2:33:ARG:HD3	36:5:944:C:O3'	165.98	0.41
71:O5:17:LEU:O	71:O5:20:GLN:HB2	4.15	0.41
78:Q2:23:HIS:N	78:Q2:23:HIS:ND1	2.69	0.41
3:S1:144:ARG:HB3	3:S1:208:GLN:HB3	2.03	0.41
3:S1:36:SER:HA	3:S1:41:ARG:HE	2.95	0.41
4:S2:55:GLU:OE1	4:S2:239:PRO:HD3	3.66	0.41
6:S4:125:LYS:NZ	6:S4:157:ASN:HA	3.62	0.41
6:S4:192:ILE:HG22	6:S4:193:GLY:N	3.39	0.41
7:S5:48:PHE:CZ	7:S5:67:PRO:HA	2.55	0.41
9:S7:35:LYS:HB3	9:S7:35:LYS:HE3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:35:LYS:NZ	9:S7:36:ALA:H	2.18	0.41
10:S8:39:GLY:O	10:S8:59:ARG:HB3	2.20	0.41
11:S9:117:GLY:O	11:S9:119:ALA:N	2.53	0.41
11:S9:6:ARG:HD2	11:S9:6:ARG:HA	1.87	0.41
36:1:1004:U:C4	36:1:1005:G:N7	2.88	0.41
36:1:1456:A:N6	36:1:1477:A:H4'	2.36	0.41
36:1:1633:C:H2'	36:1:1634:G:C8	2.55	0.41
36:1:1706:C:N4	36:1:1738:C:H42	2.18	0.41
36:1:1806:A:N6	36:1:1807:G:C2	2.89	0.41
36:1:182:U:H2'	36:1:183:G:H8	1.86	0.41
36:1:1858:A:HO2'	36:1:1859:A:P	2.43	0.41
36:1:207:U:H2'	36:1:208:C:C6	2.55	0.41
36:1:2236:G:H2'	36:1:2237:C:H5'	2.00	0.41
36:1:225:C:H2'	36:1:226:C:C6	2.52	0.41
36:1:3362:A:H2'	36:1:3363:U:O4'	2.20	0.41
36:1:651:G:H2'	36:1:652:G:O4'	2.20	0.41
15:C3:140:LYS:HD3	36:1:847:A:OP1	2.21	0.41
1:2:1040:G:H1	1:2:1078:C:H42	1.69	0.41
1:2:1159:C:O2'	18:C6:140:LYS:HD3	2.20	0.41
1:2:1657:U:C4	85:2:1967:OHX:N2	2.89	0.41
1:2:193:U:H2'	1:2:194:U:H2'	2.03	0.41
1:2:830:U:O2'	1:2:831:U:H6	2.03	0.41
1:2:959:U:H5'	29:D7:28:PRO:HB3	2.01	0.41
36:5:1184:A:O2'	36:5:1185:C:H5'	2.19	0.41
36:5:1371:G:O5'	36:5:1371:G:H8	2.02	0.41
36:5:1528:G:H1	36:5:1832:C:N4	2.19	0.41
36:5:1555:U:H5	36:5:1559:A:H61	1.68	0.41
36:5:1573:G:H2'	36:5:1574:C:O4'	2.20	0.41
36:5:1658:G:C2	36:5:1796:G:N1	2.88	0.41
36:5:1668:G:H2'	36:5:1669:C:O4'	2.21	0.41
36:5:1887:A:C2'	36:5:1888:U:H5'	2.51	0.41
36:5:2311:G:OP2	85:5:3480:OHX:N2	2.53	0.41
36:5:2333:C:H2'	36:5:2334:U:O4'	2.20	0.41
36:5:2379:U:H2'	36:5:2380:U:H6	1.84	0.41
36:5:2390:A:C2	36:5:2990:G:C2	3.09	0.41
36:5:2569:A:H4'	36:5:2570:U:H5'	2.02	0.41
36:5:2768:U:H2'	36:5:2769:A:H8	1.83	0.41
36:5:3234:A:C6	36:5:3235:C:C5	3.09	0.41
85:5:3597:OHX:N6	85:5:3706:OHX:N2	2.67	0.41
36:5:561:C:H2'	36:5:562:C:C6	2.54	0.41
54:M8:147:ARG:NH2	36:5:670:C:OP1	162.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:736:A:C5	36:5:737:G:H1'	2.55	0.41
36:5:979:U:C2	36:5:980:A:N3	2.89	0.41
1:6:1138:A:H2'	1:6:1139:A:C8	2.54	0.41
1:6:1398:U:H4'	1:6:1399:C:OP2	2.20	0.41
1:6:1309:C:O2'	1:6:1401:A:N1	2.39	0.41
1:6:1695:G:N2	1:6:1705:C:H5	2.19	0.41
1:6:255:U:O4	1:6:256:A:N6	2.52	0.41
1:6:585:A:H2'	1:6:586:G:H8	1.84	0.41
1:6:733:A:H2'	1:6:734:A:O4'	2.21	0.41
1:6:85:A:N6	1:6:86:A:C6	2.89	0.41
1:6:916:U:OP2	85:6:2007:OHX:N3	2.53	0.41
12:C0:80:LEU:O	12:C0:82:LEU:N	2.54	0.41
15:C3:136:PRO:HA	15:C3:137:PRO:HD2	1.85	0.41
16:C4:17:ALA:HB3	16:C4:81:VAL:HA	2.03	0.41
17:C5:115:TYR:OH	1:6:1556:A:H5''	385.19	0.41
1:2:1388:A:OP2	19:C7:32:LYS:NZ	2.53	0.41
20:C8:20:THR:HG21	20:C8:35:ILE:HG23	2.02	0.41
20:C8:11:PHE:CD2	20:C8:59:GLY:HA3	2.55	0.41
20:C8:99:HIS:HE1	1:6:1565:C:O2'	360.71	0.41
21:C9:40:SER:CB	21:C9:96:ALA:HA	2.74	0.41
24:D2:104:LEU:HD22	24:D2:125:ILE:HA	5.26	0.41
27:D5:61:SER:H	27:D5:64:VAL:CG2	3.62	0.41
29:D7:3:LEU:HD23	29:D7:3:LEU:HA	1.72	0.41
33:E1:126:CYS:HB3	33:E1:130:VAL:CG2	2.80	0.41
39:L2:155:LYS:H	39:L2:155:LYS:HG2	3.46	0.41
39:L2:204:MET:H	39:L2:204:MET:HG2	1.56	0.41
40:L3:284:ARG:N	40:L3:323:MET:HB3	3.17	0.41
41:L4:26:PHE:HA	41:L4:127:ALA:HA	2.38	0.41
42:L5:113:LEU:HD23	42:L5:115:LEU:HD23	2.89	0.41
42:L5:40:HIS:HE1	42:L5:42:ALA:HB3	1.98	0.41
42:L5:85:ARG:HH21	42:L5:254:LYS:H	1.68	0.41
41:L4:329:PRO:HB3	44:L7:41:ARG:HH12	3.05	0.41
44:L7:80:GLN:H	44:L7:80:GLN:HG2	1.59	0.41
46:L9:103:ILE:HD11	46:L9:134:ILE:HB	2.91	0.41
47:M0:208:ASN:O	47:M0:212:GLU:HB2	2.87	0.41
49:M3:7:LEU:HD23	49:M3:7:LEU:HA	1.86	0.41
51:M5:188:ARG:HB2	51:M5:188:ARG:HE	1.59	0.41
51:M5:28:TRP:CD1	36:5:2515:A:H5''	159.76	0.41
52:M6:110:PRO:HD2	52:M6:111:PRO:HD2	4.71	0.41
52:M6:165:ALA:O	52:M6:169:ALA:N	2.58	0.41
53:M7:85:ALA:C	53:M7:87:SER:N	2.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1333:C:OP1	54:M8:2:GLY:N	2.53	0.41
55:M9:38:ARG:HH21	36:5:1603:A:P	111.39	0.41
56:N0:89:ASN:ND2	56:N0:89:ASN:H	3.03	0.41
59:N3:86:ARG:HD2	59:N3:92:PHE:CE2	2.58	0.41
61:N5:136:ALA:O	61:N5:139:ILE:HB	4.69	0.41
63:N7:46:ILE:HD12	63:N7:48:ARG:N	3.43	0.41
63:N7:5:LEU:HD22	63:N7:77:TYR:CZ	5.78	0.41
64:N8:99:ALA:HB1	64:N8:122:PRO:O	2.67	0.41
64:N8:7:LYS:C	64:N8:9:ARG:N	2.90	0.41
69:O3:13:HIS:O	69:O3:95:GLY:N	2.48	0.41
36:1:1653:G:H4'	70:O4:43:LYS:O	2.20	0.41
71:O5:10:ARG:NH1	71:O5:60:GLU:OE1	3.41	0.41
74:O8:69:LEU:HA	74:O8:69:LEU:HD13	1.80	0.41
75:O9:2:ALA:N	75:O9:5:LYS:HG2	2.36	0.41
79:Q3:17:ARG:C	79:Q3:19:GLY:H	2.33	0.41
2:S0:157:ASP:OD2	23:D1:60:ARG:NH2	2.51	0.41
3:S1:59:ASP:HA	3:S1:62:LYS:HZ1	1.86	0.41
3:S1:58:SER:O	3:S1:62:LYS:HD3	2.67	0.41
4:S2:224:PHE:O	4:S2:226:THR:HG23	3.30	0.41
4:S2:238:SER:OG	4:S2:240:LEU:HB2	2.19	0.41
5:S3:115:ILE:HG13	5:S3:115:ILE:H	4.03	0.41
5:S3:202:LEU:HA	5:S3:202:LEU:HD13	2.14	0.41
5:S3:74:GLN:HA	5:S3:79:TYR:HB2	2.37	0.41
6:S4:212:ASP:OD1	6:S4:244:ILE:HG23	2.20	0.41
6:S4:251:GLU:O	6:S4:255:ARG:HG2	4.20	0.41
7:S5:116:HIS:NE2	27:D5:95:HIS:HE1	2.18	0.41
7:S5:198:LEU:HD23	7:S5:198:LEU:HA	1.82	0.41
11:S9:107:ARG:O	11:S9:147:MET:HA	2.20	0.41
11:S9:84:GLY:O	11:S9:107:ARG:HD3	2.20	0.41
35:SM:26:VAL:HG21	48:M1:64:LYS:HE2	2.01	0.41
36:1:1047:A:N3	36:1:2633:U:O2'	2.52	0.41
36:1:1474:A:C6	36:1:1475:A:N7	2.89	0.41
36:1:1590:G:OP1	70:O4:17:SER:OG	2.37	0.41
36:1:2273:G:HO2'	36:1:2274:U:P	2.43	0.41
36:1:227:G:H2'	36:1:228:U:H6	1.86	0.41
36:1:3088:G:C6	36:1:3089:C:C4	3.09	0.41
36:1:625:G:OP1	85:1:3583:OHX:N1	2.54	0.41
1:2:1149:G:H5''	1:2:1150:G:OP1	2.21	0.41
1:2:1536:G:C6	1:2:1538:U:H1'	2.56	0.41
1:2:1757:G:H4'	36:1:2256:A:N7	2.36	0.41
1:2:460:A:C6	1:2:461:G:H1'	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:805:U:O4	1:2:806:A:N6	2.54	0.41
1:2:972:G:H2'	1:2:973:A:H8	1.84	0.41
36:5:1017:C:C6	36:5:1017:C:OP2	2.73	0.41
36:5:1422:G:H2'	36:5:1423:C:C6	2.55	0.41
36:5:1479:U:H5''	36:5:1480:G:OP2	2.20	0.41
36:5:1597:C:C4'	36:5:1696:A:H1'	2.51	0.41
36:5:176:G:C2	36:5:177:U:C2	3.08	0.41
71:O5:90:ARG:NH1	36:5:20:A:OP2	85.97	0.41
36:5:1939:G:N1	36:5:2110:G:C6	2.89	0.41
36:5:2114:C:H5'	36:5:2115:G:OP1	2.20	0.41
36:5:2318:U:C4	36:5:2319:U:C4	3.09	0.41
36:5:2408:U:O2'	36:5:2409:G:H5'	2.21	0.41
36:5:243:G:C6	36:5:244:G:C6	3.09	0.41
36:5:2523:A:H4'	36:5:2524:A:OP2	2.21	0.41
36:5:2874:G:H1'	36:5:2875:U:H5'	2.02	0.41
36:5:2904:U:OP1	85:5:3546:OHX:N3	2.53	0.41
40:L3:30:LYS:O	85:5:3610:OHX:N1	249.22	0.41
36:5:374:A:H4'	36:5:375:A:OP1	2.21	0.41
41:L4:98:ARG:CZ	36:5:933:A:C2	138.96	0.41
1:6:119:A:H2'	1:6:120:U:O4'	2.20	0.41
1:6:1357:A:H2'	1:6:1358:G:H8	1.84	0.41
1:6:1396:U:H3	1:6:1402:G:H1	1.67	0.41
1:6:1486:G:N1	1:6:1487:A:C5	2.88	0.41
1:6:217:A:C8	1:6:218:A:C8	3.08	0.41
1:6:325:G:C2	1:6:344:A:C2	3.07	0.41
1:6:358:U:H2'	1:6:360:A:H5'	2.01	0.41
1:6:542:A:H1'	1:6:543:C:P	2.60	0.41
11:S9:149:ARG:CZ	1:6:765:G:C5	428.43	0.41
1:6:814:A:C8	1:6:816:G:C8	3.08	0.41
1:6:926:A:H2'	1:6:927:C:O4'	2.21	0.41
5:S3:23:GLU:CD	12:C0:61:TRP:HE1	2.24	0.41
14:C2:24:UNK:C	14:C2:25:GLU:HG2	2.51	0.41
15:C3:21:ASN:HB2	15:C3:22:ALA:H	1.66	0.41
17:C5:15:HIS:O	17:C5:21:ASP:HA	2.20	0.41
20:C8:145:ARG:HG3	35:SM:68:ARG:NH2	4.38	0.41
21:C9:137:ALA:O	21:C9:141:GLU:HG2	2.21	0.41
21:C9:40:SER:HB2	21:C9:96:ALA:HA	2.51	0.41
23:D1:17:CYS:C	23:D1:19:ALA:N	2.73	0.41
23:D1:64:GLU:HB3	29:D7:3:LEU:HG	2.93	0.41
25:D3:110:LYS:HB2	25:D3:112:LYS:HE3	6.52	0.41
33:E1:127:GLY:C	33:E1:129:GLY:H	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:159:SER:C	39:L2:161:ASP:N	3.11	0.41
39:L2:61:VAL:HG22	39:L2:63:PHE:CE1	6.09	0.41
40:L3:243:HIS:ND1	40:L3:244:ARG:N	2.68	0.41
40:L3:221:THR:N	40:L3:273:HIS:O	2.44	0.41
40:L3:313:HIS:O	40:L3:333:LYS:HD2	2.21	0.41
40:L3:58:ARG:HG3	40:L3:59:ASP:O	2.20	0.41
40:L3:66:LYS:HZ1	59:N3:120:LYS:CE	2.32	0.41
41:L4:38:VAL:HG11	41:L4:118:LYS:HA	2.76	0.41
41:L4:144:LYS:H	41:L4:144:LYS:CE	6.28	0.41
41:L4:205:PRO:HB3	41:L4:247:PHE:CD2	2.90	0.41
41:L4:22:LEU:HD11	41:L4:26:PHE:HB2	2.02	0.41
41:L4:60:THR:HG23	41:L4:62:ALA:H	3.87	0.41
43:L6:103:VAL:O	43:L6:106:PHE:N	2.61	0.41
44:L7:89:ILE:HG22	44:L7:220:PHE:HE1	1.86	0.41
45:L8:72:PRO:HA	45:L8:233:TRP:CD2	2.55	0.41
48:M1:10:ARG:HD3	48:M1:10:ARG:O	2.21	0.41
49:M3:170:LEU:HD23	49:M3:170:LEU:HA	1.82	0.41
50:M4:40:ASP:HB2	50:M4:41:GLN:H	1.72	0.41
50:M4:24:LYS:HG2	50:M4:62:GLN:O	2.20	0.41
51:M5:154:PRO:O	51:M5:157:LYS:HG3	2.89	0.41
51:M5:32:GLN:H	51:M5:32:GLN:HG2	2.26	0.41
51:M5:65:ARG:HG2	51:M5:127:TYR:CD1	2.81	0.41
50:M4:123:LEU:HB3	52:M6:194:LEU:HD11	2.02	0.41
53:M7:178:ALA:O	53:M7:182:ILE:HB	2.21	0.41
55:M9:154:ALA:O	55:M9:158:GLU:HG2	2.51	0.41
56:N0:148:LEU:HD12	56:N0:149:LYS:H	1.85	0.41
57:N1:48:ILE:HG23	57:N1:48:ILE:HD12	1.80	0.41
59:N3:87:ARG:NH2	59:N3:137:VAL:HG22	3.20	0.41
40:L3:57:VAL:HG21	60:N4:15:PRO:HG2	2.02	0.41
63:N7:11:ALA:O	63:N7:23:VAL:HG22	2.19	0.41
63:N7:24:VAL:HG11	63:N7:87:LEU:HB3	2.07	0.41
66:O0:17:VAL:HG11	66:O0:92:ILE:HD12	2.02	0.41
71:O5:14:LYS:HB3	71:O5:15:GLU:OE2	8.22	0.41
71:O5:31:LEU:HB3	71:O5:44:ILE:HD12	2.01	0.41
71:O5:73:LYS:HE2	71:O5:73:LYS:HB3	1.53	0.41
2:S0:178:ALA:O	2:S0:181:VAL:HG22	2.20	0.41
4:S2:174:ARG:HA	4:S2:195:ASP:OD2	2.20	0.41
4:S2:208:GLU:O	4:S2:212:LYS:HG3	3.62	0.41
6:S4:193:GLY:O	6:S4:195:ILE:N	2.54	0.41
7:S5:119:ASP:O	7:S5:123:VAL:HG23	2.28	0.41
10:S8:10:LYS:NZ	1:6:337:G:O3'	286.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:184:LEU:HD12	10:S8:188:GLU:HG2	3.15	0.41
10:S8:6:ASP:HB3	10:S8:28:GLU:OE2	2.20	0.41
11:S9:162:SER:HB2	11:S9:163:PRO:HD2	2.03	0.41
34:SR:234:LEU:HD23	34:SR:263:PHE:CD1	3.51	0.41
34:SR:33:LEU:O	34:SR:45:TRP:HD1	2.03	0.41
34:SR:68:VAL:HA	34:SR:84:SER:HB2	2.27	0.41
36:1:953:G:C8	36:1:1117:G:C8	3.09	0.41
36:1:1342:C:H2'	36:1:1343:A:O4'	2.20	0.41
36:1:1355:A:H1'	36:1:1356:U:OP2	2.19	0.41
36:1:1577:G:H2'	36:1:1578:C:O4'	2.20	0.41
36:1:2137:U:C6	36:1:2141:U:C4	3.09	0.41
36:1:2663:G:H2'	36:1:2664:C:O4'	2.20	0.41
36:1:2703:A:OP2	42:L5:23:ARG:NH1	2.53	0.41
36:1:271:C:P	85:1:3567:OHX:N5	2.93	0.41
36:1:2795:U:C2	36:1:2800:G:H1'	2.56	0.41
36:1:284:A:OP2	78:Q2:41:ARG:HD2	2.21	0.41
36:1:3024:A:H4'	46:L9:97:PHE:CE2	2.56	0.41
36:1:31:C:H2'	36:1:32:U:O4'	2.21	0.41
36:1:3365:U:H2'	36:1:3366:G:H8	1.85	0.41
36:1:347:G:N2	36:1:353:G:C4	2.88	0.41
36:1:1233:G:O6	85:1:3642:OHX:N6	2.54	0.41
36:1:696:C:HO2'	36:1:697:A:H8	1.65	0.41
36:1:986:U:C2	36:1:987:U:C6	3.09	0.41
1:2:1098:U:C5	4:S2:224:PHE:HE2	2.38	0.41
1:2:1141:G:C2	1:2:1142:A:C5	3.08	0.41
1:2:11:A:O2'	1:2:12:U:H5'	2.18	0.41
1:2:1438:G:H2'	1:2:1439:C:O4'	2.21	0.41
1:2:1671:A:H2'	1:2:1672:G:O4'	2.21	0.41
1:2:25:C:H6	1:2:25:C:H2'	1.68	0.41
1:2:503:G:OP2	1:2:503:G:H8	2.04	0.41
1:2:477:A:N7	1:2:538:A:N1	2.69	0.41
37:3:41:G:H1'	37:3:44:C:N4	2.35	0.41
36:5:1455:U:O2'	36:5:1456:A:H8	2.04	0.41
36:5:1875:G:H2'	36:5:1876:U:H6	1.86	0.41
36:5:2103:U:C2	36:5:2104:A:C8	3.09	0.41
36:5:177:U:O4	36:5:239:G:N2	2.53	0.41
45:L8:47:SER:OG	36:5:2585:G:N7	171.60	0.41
36:5:2754:G:O2'	36:5:2755:C:OP1	2.33	0.41
36:5:26:A:C6	36:5:27:C:C4	3.08	0.41
36:5:286:U:H2'	36:5:287:G:H8	1.84	0.41
36:5:2998:U:C4	36:5:2999:U:C4	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3053:G:H2'	36:5:3054:U:C6	2.55	0.41
36:5:707:U:H2'	36:5:708:G:H5''	2.02	0.41
78:Q2:46:LYS:HE3	36:5:92:G:OP1	164.81	0.41
36:5:930:U:O2'	36:5:931:C:H5'	2.21	0.41
1:6:1003:A:H1'	1:6:1005:A:N7	2.36	0.41
1:6:1185:U:C2	1:6:1458:G:N7	2.89	0.41
1:6:1236:A:H3'	1:6:1237:G:H8	1.86	0.41
1:6:1299:G:C6	1:6:1300:A:N6	2.89	0.41
1:6:212:U:H3	1:6:253:A:H61	1.68	0.41
1:6:473:A:H5'	1:6:769:A:H1'	2.02	0.41
36:5:8:C:O2	38:8:152:G:C2	2.74	0.41
38:8:27:U:H6	38:8:27:U:O5'	2.04	0.41
12:C0:70:GLU:O	12:C0:73:VAL:HG22	4.59	0.41
18:C6:112:TYR:CZ	18:C6:114:ARG:HD2	5.46	0.41
18:C6:59:LYS:HD2	18:C6:59:LYS:N	4.84	0.41
20:C8:4:VAL:HB	27:D5:82:HIS:CD2	2.55	0.41
22:D0:26:LEU:HD21	22:D0:114:VAL:HG13	2.02	0.41
26:D4:35:VAL:O	26:D4:36:SER:OG	4.05	0.41
26:D4:56:SER:O	26:D4:73:GLY:HA2	2.75	0.41
27:D5:57:TYR:N	27:D5:57:TYR:CD2	3.16	0.41
28:D6:34:LYS:HB3	28:D6:35:ALA:H	3.37	0.41
28:D6:87:ARG:HB2	28:D6:92:ARG:HG2	2.96	0.41
40:L3:167:ARG:O	85:L3:402:OHX:N4	2.54	0.41
41:L4:99:MET:HE1	41:L4:103:THR:H	1.86	0.41
42:L5:184:ASP:HB3	42:L5:187:THR:O	2.21	0.41
42:L5:187:THR:O	42:L5:189:GLU:N	2.53	0.41
42:L5:254:LYS:HA	42:L5:255:PRO:HD2	1.95	0.41
42:L5:41:LYS:HB2	57:N1:69:LYS:O	2.21	0.41
42:L5:83:LEU:HB3	42:L5:88:ILE:HB	2.03	0.41
44:L7:111:ILE:O	44:L7:112:ASN:HB2	2.42	0.41
44:L7:159:GLN:HG2	44:L7:159:GLN:H	2.99	0.41
44:L7:90:LYS:HD3	44:L7:220:PHE:CE1	3.67	0.41
45:L8:200:LEU:HA	45:L8:200:LEU:HD23	1.91	0.41
46:L9:87:LYS:NZ	46:L9:191:LEU:HD21	16.35	0.41
47:M0:90:ARG:HD2	47:M0:90:ARG:HH11	1.93	0.41
36:1:2674:A:C5	48:M1:124:GLY:HA3	2.55	0.41
48:M1:9:MET:HG2	37:7:55:A:C2	326.56	0.41
49:M3:190:LYS:HE2	49:M3:190:LYS:HB2	1.84	0.41
50:M4:103:ILE:O	50:M4:107:GLU:HG3	2.21	0.41
51:M5:104:GLU:O	51:M5:108:ARG:HG3	2.21	0.41
52:M6:46:GLU:HB3	52:M6:134:LYS:HB3	2.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:N1:96:ILE:HA	57:N1:96:ILE:HD13	3.16	0.41
38:4:136:G:P	61:N5:48:SER:HG	2.43	0.41
64:N8:27:LYS:O	64:N8:28:HIS:HB2	4.56	0.41
64:N8:49:HIS:N	64:N8:50:PRO:HD3	2.70	0.41
65:N9:58:LYS:HD2	65:N9:58:LYS:HA	1.79	0.41
71:O5:6:ALA:HB1	71:O5:10:ARG:NH2	2.38	0.41
72:O6:15:LYS:HB3	36:5:73:C:C6	99.68	0.41
76:Q0:118:THR:OG1	76:Q0:120:GLN:HG3	2.20	0.41
5:S3:148:LYS:HE2	5:S3:148:LYS:HB2	3.14	0.41
5:S3:212:LYS:O	5:S3:214:GLU:HG2	3.07	0.41
5:S3:215:GLU:O	5:S3:215:GLU:HG2	2.35	0.41
7:S5:143:ARG:HG2	7:S5:167:ARG:CZ	4.36	0.41
7:S5:68:ILE:HD13	7:S5:69:PHE:N	4.51	0.41
7:S5:80:LYS:HG3	7:S5:83:ARG:NH1	3.71	0.41
8:S6:211:LEU:HD22	8:S6:211:LEU:HA	1.85	0.41
8:S6:73:ILE:HD11	8:S6:75:LEU:HD21	3.17	0.41
10:S8:136:SER:HB2	10:S8:139:ALA:HB3	3.91	0.41
1:2:332:U:P	10:S8:56:ARG:HH22	2.42	0.41
36:1:1412:G:OP1	68:O2:105:ARG:NH2	2.53	0.41
36:1:1447:G:O2'	36:1:1448:U:OP2	2.39	0.41
36:1:1637:A:H5''	63:N7:15:ARG:O	2.21	0.41
36:1:2306:C:O2	36:1:2306:C:H2'	2.20	0.41
36:1:2775:U:H2'	36:1:2776:C:C6	2.55	0.41
36:1:2888:U:C5	36:1:2910:A:C6	3.09	0.41
36:1:3061:G:N1	36:1:3083:G:C6	2.89	0.41
36:1:52:A:N3	36:1:811:U:O2'	2.51	0.41
36:1:692:A:OP1	51:M5:201:ARG:NH2	2.53	0.41
36:1:989:A:H2'	36:1:990:U:O4'	2.21	0.41
1:2:1011:G:HO2'	1:2:1012:U:H6	1.66	0.41
1:2:1294:G:C2	1:2:1322:A:C5	3.09	0.41
1:2:1459:C:H6	1:2:1459:C:OP2	2.03	0.41
1:2:1597:A:C8	31:D9:14:TYR:CD2	3.09	0.41
1:2:1766:A:H5''	85:2:1970:OHX:N3	2.35	0.41
85:2:1968:OHX:N1	85:2:2010:OHX:N4	2.67	0.41
1:2:549:G:H2'	1:2:550:A:H8	1.86	0.41
1:2:730:G:H21	1:2:731:C:C5'	2.33	0.41
1:2:738:G:H2'	1:2:739:G:H8	1.85	0.41
1:2:952:A:N3	1:2:952:A:H2'	2.36	0.41
1:2:992:A:OP1	1:2:1786:G:H5'	2.20	0.41
38:4:147:U:O5'	38:4:147:U:H6	2.03	0.41
36:5:100:A:C2'	36:5:101:G:H5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:65:A:H3'	36:5:111:C:H41	1.85	0.41
36:5:1838:G:H4'	36:5:1839:A:N3	2.35	0.41
36:5:2211:U:H2'	36:5:2212:C:O4'	2.20	0.41
39:L2:40:TYR:O	36:5:2550:U:C5	211.41	0.41
48:M1:57:PHE:HD2	36:5:2680:A:C4	309.96	0.41
40:L3:266:ARG:NH1	36:5:2988:C:O2	209.82	0.41
40:L3:97:ARG:NH1	36:5:3244:A:N1	244.72	0.41
36:5:3342:A:C6	36:5:3343:G:C5	3.09	0.41
69:O3:86:ARG:HH22	36:5:498:A:H5'	215.90	0.41
36:5:950:G:O2'	36:5:970:A:H4'	2.20	0.41
36:5:996:A:C2	36:5:1054:A:C4	3.08	0.41
1:6:1334:U:H2'	1:6:1335:U:O4'	2.20	0.41
1:6:1667:A:H61	1:6:1734:U:H3	1.68	0.41
1:6:293:U:H2'	1:6:294:C:C6	2.55	0.41
1:6:473:A:N6	1:6:474:A:N1	2.69	0.41
1:6:605:A:C4	1:6:606:A:C2	3.08	0.41
24:D2:32:LYS:HD3	1:6:638:U:OP2	364.61	0.41
1:6:836:U:C2	1:6:837:G:C8	3.09	0.41
37:7:19:C:OP2	37:7:19:C:H6	2.03	0.41
37:7:1:G:C2	37:7:2:G:C8	3.09	0.41
38:8:68:G:H1	38:8:91:C:N4	2.15	0.41
13:C1:90:TYR:CE1	13:C1:103:ARG:HB2	2.55	0.41
13:C1:110:HIS:HB2	13:C1:135:VAL:HG11	2.03	0.41
13:C1:33:ARG:HG2	13:C1:34:TRP:H	1.86	0.41
16:C4:25:ASP:HA	16:C4:54:GLU:O	2.21	0.41
19:C7:8:THR:HG21	1:6:1330:G:N2	419.92	0.41
21:C9:30:VAL:HG12	21:C9:54:PHE:CD2	2.49	0.41
24:D2:26:LEU:HD12	24:D2:27:ILE:H	6.13	0.41
28:D6:30:ILE:CG2	28:D6:35:ALA:HB2	4.17	0.41
28:D6:4:LYS:O	28:D6:5:ARG:HB2	2.20	0.41
30:D8:14:LYS:HB2	30:D8:14:LYS:HE3	4.45	0.41
31:D9:6:VAL:O	31:D9:8:PHE:N	4.51	0.41
39:L2:42:ARG:HD2	39:L2:87:PHE:CG	3.21	0.41
40:L3:278:ILE:HG13	40:L3:279:ASN:HB2	2.48	0.41
41:L4:99:MET:CE	41:L4:103:THR:H	2.33	0.41
42:L5:107:ARG:HH22	42:L5:120:LYS:HA	1.86	0.41
42:L5:155:THR:HA	42:L5:179:ARG:HA	2.06	0.41
42:L5:85:ARG:NH1	42:L5:86:TYR:OH	2.54	0.41
42:L5:95:TRP:O	42:L5:98:ALA:HB3	2.21	0.41
44:L7:147:LEU:HA	44:L7:147:LEU:HD23	2.31	0.41
44:L7:173:LEU:HB3	44:L7:178:ILE:HB	2.10	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:134:ILE:HD11	46:L9:146:LEU:HD23	2.17	0.41
46:L9:162:GLN:O	46:L9:165:CYS:HB2	3.06	0.41
49:M3:16:LYS:HD2	36:5:48:A:H3'	134.18	0.41
50:M4:58:ILE:HG12	50:M4:59:ASN:N	2.35	0.41
50:M4:72:LEU:HD13	50:M4:73:PRO:CD	2.50	0.41
53:M7:10:ASN:OD1	53:M7:12:ALA:N	3.00	0.41
53:M7:126:ARG:HD3	53:M7:140:GLU:OE2	2.34	0.41
53:M7:125:GLN:HG3	53:M7:143:PRO:HG3	3.39	0.41
54:M8:81:VAL:CG2	54:M8:101:VAL:HG22	2.50	0.41
55:M9:115:ILE:HB	55:M9:119:LEU:HD23	4.68	0.41
58:N2:50:LEU:O	58:N2:52:ASN:N	2.54	0.41
59:N3:49:LEU:HA	59:N3:50:PRO:HD3	1.93	0.41
60:N4:63:ILE:HB	60:N4:64:THR:H	3.96	0.41
62:N6:5:SER:C	62:N6:7:ASP:H	2.55	0.41
69:O3:75:HIS:O	69:O3:80:VAL:HG23	2.21	0.41
70:O4:58:ARG:HA	70:O4:59:PRO:HD2	2.27	0.41
72:O6:21:THR:OG1	72:O6:21:THR:O	2.35	0.41
2:S0:112:THR:OG1	2:S0:113:ARG:N	2.59	0.41
2:S0:188:LEU:HD23	2:S0:188:LEU:HA	3.29	0.41
3:S1:166:LYS:O	3:S1:169:SER:OG	3.95	0.41
3:S1:178:GLY:HA3	3:S1:187:LYS:NZ	2.36	0.41
3:S1:61:LEU:O	3:S1:64:ARG:HB2	6.39	0.41
4:S2:218:ILE:HD12	4:S2:219:GLY:N	2.69	0.41
4:S2:60:SER:OG	23:D1:15:ARG:NH2	2.73	0.41
5:S3:99:VAL:HG13	5:S3:173:ARG:NH2	2.39	0.41
5:S3:209:ILE:O	5:S3:211:PRO:HD3	2.20	0.41
6:S4:179:LYS:H	6:S4:195:ILE:HB	1.85	0.41
7:S5:40:ILE:HG23	7:S5:42:LEU:HG	4.82	0.41
8:S6:88:ARG:HB3	8:S6:91:GLU:HB2	2.03	0.41
10:S8:142:LYS:O	10:S8:146:ARG:N	3.15	0.41
34:SR:199:ILE:HA	34:SR:215:GLY:HA3	2.03	0.41
34:SR:307:ASP:O	34:SR:309:VAL:HG22	3.80	0.41
36:1:1260:A:H1'	36:1:1280:C:H1'	2.02	0.41
36:1:132:C:C2'	36:1:133:U:H5''	2.49	0.41
36:1:1659:U:O4	85:1:3707:OHX:N4	2.53	0.41
36:1:1764:U:OP1	55:M9:43:LYS:HD2	2.21	0.41
36:1:1767:C:H2'	36:1:1768:U:C6	2.56	0.41
36:1:1777:U:H4'	36:1:2099:A:O2'	2.21	0.41
36:1:2226:U:H2'	36:1:2227:C:H6	1.85	0.41
36:1:283:G:O2'	64:N8:59:ARG:NH1	2.47	0.41
36:1:3012:A:N1	36:1:3043:C:C2	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3132:C:H2'	36:1:3133:C:C6	2.56	0.41
36:1:3261:C:O2'	36:1:3262:U:H5'	2.20	0.41
36:1:2169:G:O6	85:1:3448:OHX:N1	2.53	0.41
36:1:1853:U:O4	85:1:3515:OHX:N5	2.53	0.41
36:1:378:A:N7	36:1:391:A:H2	2.19	0.41
1:2:1052:U:OP2	1:2:1052:U:H3'	2.21	0.41
1:2:1070:C:O2'	1:2:1071:U:H5'	2.21	0.41
1:2:1512:G:C6	1:2:1513:G:C5	3.09	0.41
1:2:1647:U:H2'	1:2:1648:A:C8	2.56	0.41
1:2:17:C:H4'	1:2:1109:G:C8	2.55	0.41
1:2:393:C:H41	1:2:400:A:H1'	1.85	0.41
1:2:622:A:H4'	1:2:623:A:OP1	2.20	0.41
1:2:639:U:O4	9:S7:100:PRO:HB3	2.20	0.41
1:2:652:G:H1	1:2:682:C:H42	1.68	0.41
1:2:898:A:C6	1:2:915:A:C5	3.09	0.41
37:3:48:U:O4	42:L5:58:LYS:NZ	2.53	0.41
36:5:1522:U:H4'	36:5:1523:U:OP2	2.21	0.41
36:5:2255:A:HO2'	36:5:2256:A:P	2.44	0.41
36:5:279:U:H2'	36:5:280:U:C6	2.56	0.41
36:5:3335:A:C2	36:5:3336:A:C4	3.09	0.41
36:5:3383:G:H2'	36:5:3384:U:C6	2.55	0.41
36:5:979:U:H1'	36:5:980:A:C8	2.56	0.41
1:6:1370:U:H4'	1:6:1371:A:H4'	2.03	0.41
1:6:1375:A:H2'	1:6:1376:C:O4'	2.20	0.41
1:6:1467:C:H2'	1:6:1468:U:H6	1.85	0.41
1:6:1631:A:OP2	85:6:2022:OHX:N3	2.53	0.41
1:6:375:U:H2'	1:6:376:C:H6	1.85	0.41
1:6:448:C:H2'	1:6:449:C:C6	2.55	0.41
1:6:496:G:O6	1:6:497:G:N2	2.50	0.41
1:6:813:U:O2	1:6:813:U:H2'	2.20	0.41
1:6:83:G:H8	1:6:83:G:O5'	2.03	0.41
15:C3:64:ARG:NH1	1:6:861:U:OP2	343.78	0.41
13:C1:75:VAL:HA	13:C1:86:ILE:HG22	2.01	0.41
15:C3:34:ILE:HD11	15:C3:67:THR:HB	4.30	0.41
20:C8:108:LYS:HA	20:C8:108:LYS:HD3	3.09	0.41
23:D1:3:ASN:OD1	23:D1:7:GLN:HB3	3.60	0.41
2:S0:56:LYS:HE3	23:D1:70:ASN:HD21	1.86	0.41
24:D2:93:LEU:HD12	24:D2:128:PHE:CD1	2.86	0.41
24:D2:18:GLU:OE1	24:D2:65:LEU:HB3	6.96	0.41
24:D2:79:PHE:O	24:D2:125:ILE:HG22	2.20	0.41
25:D3:6:PRO:HG2	25:D3:15:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:97:PRO:HA	28:D6:98:PRO:HD3	4.37	0.41
29:D7:47:PHE:HE1	29:D7:49:HIS:HB2	1.86	0.41
30:D8:32:PHE:HE1	30:D8:40:ILE:HD12	1.85	0.41
39:L2:193:ARG:HD2	36:5:2182:A:P	193.05	0.41
39:L2:246:LEU:HD23	39:L2:248:GLY:N	6.42	0.41
40:L3:114:VAL:O	40:L3:117:ARG:HB3	2.20	0.41
40:L3:290:ASP:CG	40:L3:292:ALA:H	5.87	0.41
40:L3:50:LYS:HG2	40:L3:331:ASN:O	4.07	0.41
40:L3:53:MET:CE	40:L3:77:THR:HG22	2.51	0.41
41:L4:49:ALA:HA	41:L4:109:TRP:CZ2	2.56	0.41
42:L5:144:VAL:HG13	42:L5:173:VAL:HG22	3.18	0.41
43:L6:31:ARG:HE	43:L6:31:ARG:HB3	1.67	0.41
43:L6:51:ARG:HD2	43:L6:158:TYR:CZ	2.55	0.41
46:L9:12:VAL:HA	46:L9:13:PRO:HD2	2.09	0.41
46:L9:16:VAL:HG12	46:L9:29:GLY:CA	2.46	0.41
46:L9:190:ASP:OD1	46:L9:191:LEU:HG	2.21	0.41
51:M5:27:VAL:HB	51:M5:122:ASN:ND2	2.36	0.41
51:M5:183:THR:HB	51:M5:187:ARG:HB2	2.02	0.41
51:M5:38:ARG:HH22	51:M5:60:VAL:HG22	1.86	0.41
52:M6:34:VAL:HB	52:M6:103:LYS:HB2	2.02	0.41
36:1:1307:G:O4'	52:M6:60:LYS:HE3	2.21	0.41
54:M8:122:ILE:HD13	54:M8:122:ILE:HG21	4.46	0.41
54:M8:24:VAL:O	54:M8:28:LEU:HG	2.20	0.41
54:M8:26:LEU:HD23	54:M8:26:LEU:HA	2.01	0.41
56:N0:77:VAL:HG12	56:N0:79:VAL:HG23	2.90	0.41
44:L7:77:VAL:CG2	57:N1:139:ARG:HG2	2.51	0.41
58:N2:96:VAL:HG12	58:N2:97:SER:N	2.61	0.41
59:N3:17:LEU:HD23	59:N3:17:LEU:HA	1.80	0.41
59:N3:95:PHE:CE1	60:N4:22:VAL:HG11	2.56	0.41
38:4:131:A:H5''	61:N5:93:TYR:CE2	2.56	0.41
62:N6:34:PRO:HA	62:N6:47:ALA:HB2	2.02	0.41
62:N6:85:VAL:O	62:N6:85:VAL:HG12	2.20	0.41
63:N7:27:LYS:HA	63:N7:28:PRO:HD2	1.94	0.41
49:M3:2:ALA:N	64:N8:33:GLY:O	4.14	0.41
64:N8:64:GLN:HB2	64:N8:67:HIS:HD2	1.85	0.41
68:O2:71:HIS:HB3	68:O2:92:TYR:C	2.59	0.41
68:O2:75:LEU:HD23	68:O2:75:LEU:HA	1.76	0.41
75:O9:42:ARG:HG2	75:O9:43:ASN:H	2.88	0.41
76:Q0:103:LEU:HA	76:Q0:103:LEU:HD23	1.85	0.41
79:Q3:35:ALA:HB3	79:Q3:37:TYR:HE2	2.97	0.41
3:S1:125:VAL:O	3:S1:136:ARG:HG3	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:106:ASP:CG	4:S2:108:ASN:H	2.22	0.41
4:S2:81:MET:CE	4:S2:186:LYS:HB3	2.50	0.41
6:S4:122:LYS:HG2	6:S4:162:ILE:HB	2.02	0.41
7:S5:63:GLN:HE22	7:S5:66:GLN:HB2	3.51	0.41
8:S6:155:ASP:N	8:S6:155:ASP:OD2	2.61	0.41
9:S7:154:LEU:HD21	9:S7:183:PHE:CD1	2.55	0.41
9:S7:67:LEU:HD23	9:S7:67:LEU:HA	1.76	0.41
10:S8:9:HIS:HD2	10:S8:10:LYS:N	2.19	0.41
10:S8:113:PHE:C	10:S8:115:ALA:H	2.25	0.41
10:S8:27:PHE:HB3	10:S8:49:ARG:NH2	2.35	0.41
11:S9:112:GLN:HG3	11:S9:148:VAL:HG21	2.25	0.41
11:S9:163:PRO:HG3	11:S9:170:GLY:N	5.25	0.41
11:S9:60:LEU:HA	11:S9:60:LEU:HD23	2.10	0.41
17:C5:130:ARG:H	35:SM:74:LYS:HD3	5.49	0.41
36:1:115:A:P	51:M5:49:ARG:HE	2.44	0.41
36:1:1495:U:H5''	36:1:1496:C:OP2	2.20	0.41
36:1:1534:A:O2'	36:1:1535:A:H5'	2.19	0.41
36:1:1919:G:H1'	36:1:1934:G:C2	2.55	0.41
36:1:2098:C:H2'	36:1:2099:A:H8	1.84	0.41
36:1:2351:U:P	53:M7:82:ARG:HH21	2.44	0.41
36:1:2791:G:C2	36:1:2792:A:C4	3.08	0.41
36:1:3058:U:OP1	67:O1:28:ARG:NH2	2.42	0.41
36:1:3060:C:H2'	36:1:3061:G:H8	1.85	0.41
36:1:3124:G:N2	36:1:3125:U:H1'	2.35	0.41
36:1:2908:G:N7	85:1:3410:OHX:N4	2.68	0.41
36:1:407:A:H8	36:1:407:A:O5'	2.04	0.41
36:1:595:G:N1	36:1:609:G:H5''	2.36	0.41
36:1:735:A:O5'	36:1:735:A:H8	2.04	0.41
36:1:992:A:O2'	36:1:993:G:H5'	2.20	0.41
36:1:996:A:C2	36:1:1054:A:C4	3.08	0.41
1:2:1600:A:H4'	1:2:1601:G:OP1	2.20	0.41
1:2:1687:U:O2	1:2:1715:G:N1	2.54	0.41
1:2:185:U:O2	1:2:201:G:N2	2.53	0.41
1:2:637:C:OP1	24:D2:32:LYS:N	2.43	0.41
1:2:71:A:N1	1:2:72:A:C6	2.88	0.41
36:5:1000:C:C2	36:5:1045:C:N4	2.88	0.41
36:5:1121:U:C5	36:5:1122:U:C5	3.09	0.41
36:5:1580:A:O2'	36:5:1581:C:OP2	2.30	0.41
36:5:1639:C:H2'	36:5:1640:G:C8	2.43	0.41
35:SM:31:SER:OG	36:5:2667:A:OP1	288.85	0.41
36:5:2888:U:C6	36:5:2911:A:N6	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3049:A:H2'	36:5:3050:U:O4'	2.20	0.41
36:5:3177:G:C2	36:5:3179:U:C4	3.08	0.41
36:5:3290:G:N7	85:5:3605:OHX:N5	2.68	0.41
36:5:300:G:O6	85:5:3695:OHX:N2	2.54	0.41
36:5:620:U:H5''	36:5:621:A:O5'	2.21	0.41
36:5:74:G:C2	36:5:75:G:C8	3.08	0.41
1:6:1391:A:H2'	1:6:1392:U:H6	1.84	0.41
1:6:555:A:H3'	1:6:555:A:C8	2.56	0.41
16:C4:18:ARG:HD2	1:6:918:U:H5''	277.20	0.41
38:8:39:G:H4'	38:8:40:A:H5'	2.03	0.41
12:C0:27:PHE:CD1	12:C0:40:LEU:HD23	2.55	0.41
5:S3:23:GLU:CG	12:C0:61:TRP:HE1	2.33	0.41
14:C2:123:VAL:CG1	14:C2:126:TRP:HB3	2.50	0.41
15:C3:136:PRO:C	15:C3:138:ASN:H	2.47	0.41
17:C5:129:GLY:HA3	35:SM:74:LYS:HD2	5.76	0.41
19:C7:71:PHE:HE1	19:C7:73:LEU:HD22	1.86	0.41
20:C8:121:ALA:O	20:C8:125:ILE:HG13	2.45	0.41
1:2:1533:C:H5'	20:C8:27:LYS:HZ2	1.84	0.41
24:D2:37:PHE:CE2	24:D2:103:ILE:HD12	2.56	0.41
26:D4:42:GLU:HG3	26:D4:52:LYS:HD3	2.02	0.41
33:E1:149:LYS:HE3	33:E1:149:LYS:HB2	2.74	0.41
40:L3:164:THR:HG23	40:L3:177:HIS:HB2	2.03	0.41
40:L3:92:TYR:HB3	40:L3:99:LEU:HD23	2.02	0.41
41:L4:170:LYS:HE3	41:L4:175:HIS:ND1	4.68	0.41
41:L4:151:VAL:HA	41:L4:250:TRP:O	2.20	0.41
41:L4:98:ARG:HD2	36:5:933:A:C6	134.91	0.41
42:L5:214:ASP:O	42:L5:215:ASP:HB2	2.21	0.41
42:L5:249:ALA:O	42:L5:251:PRO:HD3	3.32	0.41
44:L7:142:SER:O	44:L7:146:GLN:HG3	2.22	0.41
44:L7:33:ARG:O	44:L7:37:ASN:N	2.76	0.41
44:L7:54:GLU:OE2	44:L7:186:HIS:NE2	2.35	0.41
44:L7:89:ILE:HA	44:L7:89:ILE:HD13	1.75	0.41
45:L8:200:LEU:HD22	45:L8:202:GLU:O	2.20	0.41
45:L8:211:LEU:HD22	45:L8:211:LEU:HA	4.48	0.41
47:M0:10:ARG:O	47:M0:59:GLN:N	2.49	0.41
47:M0:161:GLY:O	47:M0:163:GLN:NE2	2.54	0.41
49:M3:46:ILE:HD12	49:M3:46:ILE:HA	1.84	0.41
50:M4:125:LYS:HE3	50:M4:125:LYS:HB3	1.97	0.41
50:M4:62:GLN:HG2	50:M4:62:GLN:H	3.29	0.41
36:1:68:C:O3'	51:M5:177:GLY:HA2	2.21	0.41
51:M5:91:GLU:O	51:M5:93:LYS:NZ	3.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:98:LEU:HD13	36:5:290:G:OP1	135.65	0.41
52:M6:182:ASN:O	52:M6:186:ALA:N	3.91	0.41
53:M7:148:LEU:HD12	53:M7:149:VAL:N	3.35	0.41
54:M8:124:LEU:HA	54:M8:124:LEU:HD23	2.23	0.41
54:M8:79:LYS:HA	54:M8:136:ASN:OD1	3.54	0.41
55:M9:175:GLN:OE1	55:M9:178:ALA:HB3	4.30	0.41
55:M9:17:VAL:HG22	55:M9:18:GLY:H	4.55	0.41
55:M9:17:VAL:HG13	55:M9:18:GLY:O	5.00	0.41
55:M9:7:GLN:HE21	55:M9:33:ALA:HA	1.84	0.41
63:N7:22:LYS:HD3	63:N7:129:TRP:CZ3	2.87	0.41
64:N8:103:ASP:O	64:N8:106:ALA:HB3	2.20	0.41
64:N8:121:VAL:HA	64:N8:122:PRO:HD3	1.94	0.41
71:O5:105:ARG:O	71:O5:109:ILE:HG13	2.44	0.41
73:O7:37:CYS:O	73:O7:45:ARG:HB3	3.44	0.41
73:O7:76:ASN:O	73:O7:79:GLN:HG3	2.57	0.41
4:S2:186:LYS:HA	4:S2:189:GLN:OE1	3.12	0.41
5:S3:133:GLY:HA3	5:S3:156:PHE:O	2.20	0.41
7:S5:102:ARG:HG3	7:S5:103:ASN:OD1	2.20	0.41
7:S5:190:ILE:O	7:S5:194:LEU:HB2	2.38	0.41
7:S5:209:TYR:O	7:S5:213:LYS:HB2	3.00	0.41
7:S5:29:ILE:HA	7:S5:30:PRO:HD3	1.89	0.41
8:S6:36:VAL:N	8:S6:50:PHE:O	2.89	0.41
10:S8:196:LEU:HA	10:S8:196:LEU:HD23	4.28	0.41
34:SR:114:ASP:HB3	34:SR:156:VAL:HG23	2.03	0.41
34:SR:179:LYS:NZ	34:SR:191:ASP:OD1	2.51	0.41
34:SR:29:GLN:HE21	34:SR:32:LEU:HD22	1.85	0.41
34:SR:44:SER:O	34:SR:58:VAL:HG22	2.21	0.41
36:1:1928:G:C6	36:1:1929:G:C4	3.08	0.41
36:1:2197:C:C2	36:1:2241:U:C4	3.09	0.41
36:1:2261:G:H21	36:1:2262:A:N6	2.19	0.41
36:1:2289:U:H2'	36:1:2290:C:H6	1.86	0.41
36:1:2357:A:C6	36:1:2983:C:H5	2.39	0.41
36:1:961:C:C4	36:1:2616:C:H5'	2.56	0.41
36:1:2897:A:C8	36:1:2899:C:C2	3.08	0.41
36:1:3308:C:H3'	36:1:3309:G:H21	1.86	0.41
36:1:3385:U:C2	36:1:3386:G:C8	3.09	0.41
36:1:709:A:C1'	64:N8:57:GLY:HA2	2.51	0.41
36:1:856:G:C6	36:1:857:G:N1	2.89	0.41
36:1:993:G:C4	36:1:2637:A:C2	3.09	0.41
1:2:1141:G:H2'	1:2:1142:A:H8	1.86	0.41
1:2:1348:A:H2'	1:2:1349:G:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1591:C:H2'	1:2:1592:A:C8	2.56	0.41
1:2:14:C:H2'	1:2:15:U:C6	2.55	0.41
1:2:17:C:O2'	1:2:1137:A:N6	2.51	0.41
1:2:558:U:HO2'	1:2:559:C:P	2.44	0.41
1:2:844:A:O5'	1:2:844:A:H8	2.04	0.41
1:2:63:G:N2	1:2:87:C:O2	2.44	0.41
37:3:53:U:H2'	37:3:54:U:C6	2.55	0.41
37:3:14:U:C4	37:3:67:G:N2	2.89	0.41
39:L2:192:LYS:NZ	36:5:2181:C:OP1	200.23	0.41
36:5:2898:G:H5''	36:5:2899:C:H5'	2.02	0.41
36:5:3006:A:H2'	36:5:3007:U:O4'	2.21	0.41
36:5:3287:U:C4	36:5:3288:G:N7	2.89	0.41
36:5:3340:G:H5''	36:5:3341:U:OP2	2.21	0.41
36:5:370:U:O4	36:5:371:G:C6	2.74	0.41
85:5:3718:OHX:N4	85:5:3728:OHX:N6	2.68	0.41
36:5:423:A:C6	36:5:424:G:C6	3.09	0.41
36:5:810:A:C2	36:5:811:U:C2	3.08	0.41
1:6:1240:U:H3	1:6:1242:A:H5''	1.86	0.41
1:6:1325:A:H2'	1:6:1326:A:H8	1.85	0.41
5:S3:5:ILE:HD11	1:6:1490:C:H5'	441.79	0.41
1:6:1498:G:C2	1:6:1499:G:C5	3.09	0.41
1:6:1655:A:N1	36:5:2291:A:O2'	2.44	0.41
1:6:348:U:O4	85:6:2017:OHX:N4	2.54	0.41
1:6:531:C:H2'	1:6:532:U:H5'	2.02	0.41
37:7:25:G:H2'	37:7:26:C:O4'	2.21	0.41
38:8:68:G:OP2	85:8:203:OHX:N3	2.54	0.41
1:2:952:A:O2'	15:C3:114:ARG:HG3	2.21	0.41
16:C4:51:ASP:OD1	1:6:902:G:N1	283.72	0.41
17:C5:22:LEU:HD21	17:C5:109:PRO:HB3	2.03	0.41
18:C6:27:GLY:HA2	18:C6:63:ILE:O	2.21	0.41
21:C9:14:PHE:CE2	21:C9:63:ARG:HB2	2.56	0.41
24:D2:104:LEU:HA	24:D2:126:LEU:H	1.85	0.41
33:E1:123:ASN:HA	33:E1:124:PRO:HD2	2.12	0.41
39:L2:183:GLY:O	39:L2:186:PHE:N	2.70	0.41
39:L2:238:ILE:C	39:L2:240:ALA:H	2.98	0.41
40:L3:144:ILE:O	40:L3:148:LEU:N	3.03	0.41
40:L3:346:THR:HG22	40:L3:346:THR:O	2.66	0.41
41:L4:215:ILE:HA	41:L4:215:ILE:HD12	1.84	0.41
42:L5:268:GLU:O	42:L5:270:LYS:N	4.44	0.41
43:L6:78:ARG:O	43:L6:79:VAL:HG23	3.02	0.41
44:L7:112:ASN:HD21	44:L7:209:ASN:CG	2.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:101:THR:HG23	45:L8:103:ALA:N	2.36	0.41
36:1:2561:A:C2	45:L8:32:LYS:HB2	2.56	0.41
46:L9:105:GLU:HA	46:L9:109:ALA:HB3	2.02	0.41
47:M0:191:LYS:O	47:M0:197:VAL:HG22	3.16	0.41
47:M0:24:ARG:O	47:M0:25:ALA:HB3	4.65	0.41
48:M1:43:GLN:HB2	48:M1:44:THR:H	3.90	0.41
49:M3:140:SER:HG	49:M3:143:ALA:H	1.87	0.41
49:M3:22:VAL:CG1	51:M5:197:LEU:HB3	2.51	0.41
49:M3:31:LYS:HB3	49:M3:31:LYS:HE2	3.94	0.41
50:M4:22:LEU:HD22	50:M4:94:TRP:HH2	2.27	0.41
53:M7:29:THR:O	53:M7:32:THR:HG23	2.61	0.41
55:M9:115:ILE:HD12	55:M9:142:ILE:HD13	2.02	0.41
57:N1:12:ARG:HD3	57:N1:13:TYR:CE1	3.88	0.41
59:N3:136:VAL:HG12	59:N3:137:VAL:HG23	4.40	0.41
60:N4:5:ILE:HD12	60:N4:6:ASP:O	2.59	0.41
60:N4:89:LEU:O	60:N4:93:ARG:HG2	4.04	0.41
36:1:15:C:H5''	61:N5:42:ARG:HG3	2.02	0.41
63:N7:104:PRO:HB2	63:N7:105:SER:H	2.03	0.41
68:O2:12:LYS:HD3	68:O2:57:TYR:C	2.48	0.41
69:O3:60:ARG:C	69:O3:62:SER:H	2.75	0.41
71:O5:101:THR:HG22	71:O5:104:GLN:HB2	3.44	0.41
74:O8:72:THR:O	74:O8:72:THR:OG1	3.78	0.41
2:S0:71:GLU:O	2:S0:73:VAL:N	2.46	0.41
4:S2:116:LYS:HB2	4:S2:131:ILE:HD12	2.03	0.41
6:S4:196:VAL:HB	6:S4:209:HIS:O	2.51	0.41
8:S6:175:ILE:H	8:S6:175:ILE:HG12	1.62	0.41
9:S7:67:LEU:HD13	9:S7:71:HIS:CE1	3.35	0.41
10:S8:46:VAL:HG13	10:S8:54:LYS:O	2.21	0.41
11:S9:169:PRO:HB2	11:S9:173:ALA:HB3	2.40	0.41
11:S9:97:LEU:C	11:S9:99:LEU:N	3.94	0.41
34:SR:239:GLU:O	34:SR:257:ALA:N	2.98	0.41
36:1:2186:U:H2'	36:1:2187:G:O4'	2.21	0.41
36:1:224:C:O2	62:N6:103:LYS:NZ	2.54	0.41
36:1:2951:G:N2	36:1:2952:G:C4	2.89	0.41
36:1:3015:G:C2	36:1:3040:A:N3	2.89	0.41
85:1:3556:OHX:N3	85:1:3594:OHX:N1	2.69	0.41
36:1:366:A:OP1	41:L4:95:ARG:NH1	2.51	0.41
85:1:3513:OHX:N5	85:1:3694:OHX:N2	2.69	0.41
36:1:36:C:H2'	36:1:37:U:H5'	2.02	0.41
36:1:501:A:N6	36:1:612:U:H3	2.18	0.41
36:1:782:U:C4	36:1:783:A:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:870:G:N7	85:1:3457:OHX:N4	2.68	0.41
36:1:806:A:C4	36:1:936:A:C2	3.09	0.41
36:1:981:U:HO2'	36:1:982:C:P	2.43	0.41
1:2:1156:C:O2'	1:2:1157:A:H5'	2.21	0.41
1:2:1163:A:C6	1:2:1164:G:C5	3.09	0.41
1:2:1277:G:H4'	5:S3:183:GLY:N	2.36	0.41
1:2:1357:A:H2'	1:2:1358:G:H8	1.85	0.41
1:2:1371:A:H2'	1:2:1371:A:OP1	2.21	0.41
1:2:1378:U:H2'	1:2:1379:C:O4'	2.20	0.41
1:2:1450:U:OP2	85:2:1940:OHX:N5	2.54	0.41
1:2:1460:A:C4	17:C5:128:HIS:CD2	3.08	0.41
1:2:1484:G:C2	1:2:1485:C:C4	3.09	0.41
1:2:1660:A:H2'	1:2:1661:U:C6	2.55	0.41
1:2:363:G:OP1	85:2:1956:OHX:N2	2.54	0.41
1:2:1657:U:C4	85:2:1967:OHX:N4	2.89	0.41
1:2:595:G:H2'	1:2:596:C:C6	2.56	0.41
1:2:879:G:C6	1:2:880:C:C4	3.09	0.41
36:5:104:G:H2'	36:5:105:C:O4'	2.21	0.41
36:5:1109:U:H2'	36:5:1110:U:O4'	2.21	0.41
36:5:1141:C:H2'	36:5:1142:G:O4'	2.20	0.41
36:5:1240:A:C2'	36:5:1241:U:H5'	2.50	0.41
36:5:1219:C:O2	36:5:1286:A:H2	2.03	0.41
36:5:1397:C:C4	36:5:1398:U:C5	3.09	0.41
36:5:1468:A:C6	36:5:1469:C:N4	2.89	0.41
36:5:1541:G:OP2	85:5:3597:OHX:N4	2.54	0.41
36:5:1658:G:C2	36:5:1796:G:C6	3.08	0.41
36:5:213:A:C2	36:5:214:G:H1'	2.56	0.41
36:5:2225:U:H2'	36:5:2226:U:H6	1.86	0.41
36:5:178:U:H1'	36:5:241:G:N1	2.36	0.41
36:5:255:A:H2'	36:5:256:G:C8	2.56	0.41
36:5:2607:G:C4	36:5:2608:G:C8	3.09	0.41
36:5:2659:G:H4'	36:5:2751:G:O2'	2.21	0.41
36:5:3155:U:C3'	36:5:3156:U:H5''	2.51	0.41
36:5:317:A:C6	36:5:318:A:C5	3.09	0.41
36:5:3298:C:O5'	36:5:3298:C:H6	2.04	0.41
36:5:559:A:H2'	36:5:560:G:O4'	2.21	0.41
1:6:1046:G:C2	1:6:1073:G:C2	3.09	0.41
1:6:1230:A:H1'	1:6:1256:A:C2	2.56	0.41
1:6:1294:G:O2'	1:6:1321:A:N1	2.35	0.41
1:6:1395:G:C6	1:6:1396:U:C4	3.09	0.41
1:6:1553:G:N2	1:6:1555:A:H3'	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1740:A:C6	1:6:1741:U:C4	3.09	0.41
1:6:1294:G:O6	85:6:1923:OHX:N5	2.54	0.41
1:6:218:A:H61	1:6:829:A:H2	1.68	0.41
38:8:1:A:C6	38:8:2:A:C5	3.09	0.41
14:C2:44:GLY:O	14:C2:48:SER:OG	2.29	0.41
17:C5:61:ARG:O	17:C5:64:LYS:N	2.54	0.41
18:C6:109:PHE:O	18:C6:112:TYR:N	2.84	0.41
19:C7:28:PHE:CE2	1:6:1389:C:H6	429.24	0.41
19:C7:80:ARG:C	19:C7:82:ASP:H	2.23	0.41
22:D0:74:GLU:HG3	22:D0:74:GLU:O	2.20	0.41
33:E1:140:TYR:CZ	33:E1:142:GLY:HA2	3.58	0.41
36:1:2181:C:H5"	39:L2:193:ARG:NH2	2.36	0.41
39:L2:204:MET:HE2	39:L2:209:HIS:HB2	2.02	0.41
39:L2:209:HIS:ND1	39:L2:210:PRO:HD2	2.57	0.41
39:L2:230:VAL:HG21	36:5:2424:A:N1	183.35	0.41
40:L3:284:ARG:CZ	40:L3:356:LEU:HD12	2.50	0.41
41:L4:21:PRO:O	41:L4:23:PRO:HD3	2.35	0.41
41:L4:138:ARG:HH21	41:L4:240:PRO:HB2	1.89	0.41
41:L4:262:TRP:O	41:L4:276:LEU:HD11	3.15	0.41
41:L4:267:VAL:HG23	41:L4:268:ALA:O	2.21	0.41
41:L4:281:ILE:HG22	54:M8:25:TYR:HB3	2.03	0.41
41:L4:339:LEU:HD12	41:L4:339:LEU:O	5.53	0.41
41:L4:69:ARG:O	41:L4:71:VAL:HG23	5.07	0.41
43:L6:3:ALA:HB1	68:O2:75:LEU:HD13	2.62	0.41
44:L7:174:GLY:O	44:L7:175:LYS:C	2.97	0.41
45:L8:78:PHE:C	45:L8:80:TYR:N	2.75	0.41
45:L8:79:GLN:HG2	45:L8:80:TYR:N	2.35	0.41
46:L9:34:LEU:HD11	46:L9:149:ASN:HB3	3.57	0.41
47:M0:128:ARG:HB3	47:M0:128:ARG:HE	4.54	0.41
47:M0:64:ALA:HB2	36:5:2853:A:O3'	295.85	0.41
48:M1:12:LEU:O	48:M1:13:LYS:HB3	4.11	0.41
48:M1:16:LYS:HE3	48:M1:130:VAL:HG11	2.03	0.41
48:M1:21:ILE:HG13	48:M1:37:LEU:HD11	2.04	0.41
36:1:86:G:C5	49:M3:13:HIS:CE1	3.09	0.41
49:M3:71:ALA:HB2	49:M3:147:ILE:HD12	3.20	0.41
52:M6:181:ALA:O	52:M6:184:THR:HG23	2.21	0.41
52:M6:39:GLU:HG2	52:M6:40:GLU:HG2	2.02	0.41
52:M6:3:VAL:HG13	52:M6:4:GLU:N	2.35	0.41
53:M7:131:ARG:HD2	53:M7:131:ARG:HA	2.52	0.41
54:M8:180:ARG:NH1	54:M8:185:LYS:HB3	2.87	0.41
54:M8:58:ASN:C	54:M8:60:PRO:HD3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:96:PHE:CD2	54:M8:97:PRO:HD2	2.55	0.41
54:M8:64:VAL:HG13	54:M8:96:PHE:CE2	5.31	0.41
55:M9:25:ASP:HA	55:M9:26:PRO:HD2	2.26	0.41
56:N0:96:ASP:OD1	56:N0:97:VAL:HG23	2.21	0.41
57:N1:130:ARG:HD3	36:5:1098:A:OP2	254.44	0.41
58:N2:31:ALA:O	58:N2:33:TYR:N	2.54	0.41
58:N2:34:ALA:O	58:N2:38:ILE:HB	2.37	0.41
61:N5:34:LEU:HA	61:N5:35:PRO:HD3	1.95	0.41
62:N6:28:ARG:HG3	62:N6:75:ARG:HH21	1.86	0.41
63:N7:40:HIS:HB2	63:N7:41:ALA:H	2.10	0.41
66:O0:19:LYS:HG2	66:O0:19:LYS:H	2.43	0.41
68:O2:115:LEU:HA	68:O2:115:LEU:HD23	2.06	0.41
68:O2:76:VAL:HG23	68:O2:81:ASP:HB3	2.02	0.41
69:O3:38:PRO:HG2	69:O3:39:GLN:H	4.41	0.41
70:O4:51:LEU:CD2	70:O4:51:LEU:H	2.34	0.41
71:O5:102:GLU:OE1	71:O5:106:LYS:HE3	2.21	0.41
71:O5:89:ARG:CG	71:O5:89:ARG:HH11	2.32	0.41
72:O6:58:ILE:O	72:O6:61:ILE:HB	2.39	0.41
74:O8:78:LEU:HD13	74:O8:78:LEU:HA	1.81	0.41
76:Q0:88:LYS:HB3	76:Q0:89:TYR:CD2	2.55	0.41
79:Q3:9:GLY:O	36:5:836:A:O2'	235.08	0.41
2:S0:136:ALA:C	2:S0:138:TYR:H	2.45	0.41
2:S0:172:LEU:HA	2:S0:172:LEU:HD23	1.98	0.41
4:S2:186:LYS:O	4:S2:190:LEU:HG	2.21	0.41
4:S2:38:VAL:HG23	4:S2:39:THR:HG23	4.85	0.41
1:2:1278:G:OP1	5:S3:185:LYS:HE2	2.20	0.41
6:S4:242:LYS:N	6:S4:242:LYS:HE3	2.36	0.41
7:S5:45:LYS:HD3	7:S5:45:LYS:HA	1.80	0.41
7:S5:87:CYS:HA	7:S5:88:PRO:HD2	1.80	0.41
8:S6:2:LYS:HE2	8:S6:17:GLU:OE2	2.98	0.41
9:S7:62:VAL:HB	9:S7:94:ALA:HA	2.02	0.41
10:S8:76:THR:HG22	10:S8:105:ASP:HB3	2.78	0.41
11:S9:163:PRO:HG2	11:S9:164:PHE:HD2	1.86	0.41
35:SM:113:ASP:OD1	35:SM:113:ASP:N	2.52	0.41
35:SM:68:ARG:HH21	1:6:1460:A:P	332.18	0.41
35:SM:79:SER:O	35:SM:82:THR:HG23	2.21	0.41
34:SR:99:THR:HG22	34:SR:101:GLN:H	1.86	0.41
36:1:1229:G:H2'	36:1:1230:G:C8	2.56	0.40
36:1:1366:A:C2	36:1:1367:G:C4	3.09	0.40
36:1:1441:G:C6	36:1:1442:U:C4	3.08	0.40
36:1:1718:G:C2	36:1:1719:G:C4	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1836:C:H2'	36:1:1837:U:C6	2.56	0.40
36:1:2218:G:C6	36:1:2228:A:C6	3.09	0.40
36:1:2736:A:O2'	57:N1:68:THR:HG21	2.20	0.40
36:1:2818:U:C6	36:1:2818:U:H5'	2.45	0.40
36:1:3343:G:N2	36:1:3363:U:C4	2.89	0.40
36:1:299:G:O6	85:1:3616:OHX:N2	2.55	0.40
36:1:386:A:H2'	36:1:387:A:O4'	2.20	0.40
36:1:549:U:H2'	36:1:550:A:C8	2.56	0.40
36:1:676:G:OP2	54:M8:107:THR:HG22	2.21	0.40
36:1:737:G:H2'	36:1:738:A:H8	1.85	0.40
36:1:72:C:N3	36:1:74:G:C4	2.90	0.40
1:2:1079:U:H2'	1:2:1080:U:C6	2.56	0.40
1:2:1143:A:O5'	1:2:1143:A:H8	2.05	0.40
1:2:1173:C:O2'	1:2:1174:C:H5'	2.21	0.40
1:2:1502:G:N2	1:2:1505:A:OP2	2.49	0.40
1:2:1628:U:H2'	1:2:1629:G:C8	2.55	0.40
1:2:1715:G:C6	1:2:1716:C:C4	3.09	0.40
1:2:542:A:O2'	1:2:543:C:H2'	2.21	0.40
36:5:1845:G:C2	36:5:1851:G:C5	3.08	0.40
36:5:1892:G:C6	36:5:1893:A:N7	2.89	0.40
36:5:2144:A:C4	36:5:2281:A:C6	3.09	0.40
36:5:2786:G:N2	36:5:2787:G:H1'	2.36	0.40
36:5:2879:C:C2'	36:5:2880:U:H5'	2.51	0.40
36:5:2951:G:C2'	36:5:2952:G:H5'	2.51	0.40
36:5:2961:G:N1	36:5:2972:G:C6	2.89	0.40
52:M6:68:ARG:NH1	36:5:2988:C:P	216.48	0.40
36:5:3084:C:H2'	36:5:3085:G:O4'	2.21	0.40
36:5:3394:U:O2'	36:5:3395:G:H5'	2.20	0.40
36:5:350:C:N3	36:5:368:G:H5'	2.36	0.40
85:5:3693:OHX:N5	85:5:3695:OHX:N2	2.69	0.40
36:5:567:G:O6	85:5:3635:OHX:N2	2.54	0.40
36:5:771:A:H2'	36:5:772:U:O4'	2.21	0.40
36:5:812:G:C5	36:5:813:G:C8	3.09	0.40
36:5:992:A:H8	36:5:992:A:O5'	2.04	0.40
1:6:1148:C:O2'	1:6:1149:G:H5'	2.21	0.40
21:C9:47:PRO:HA	1:6:1477:G:O2'	375.18	0.40
1:6:1614:A:C6	1:6:1615:C:C4	3.09	0.40
1:6:182:A:H2'	1:6:183:U:H6	1.85	0.40
1:6:564:G:N2	1:6:577:G:OP1	2.54	0.40
16:C4:123:SER:HA	1:6:929:A:C8	294.26	0.40
38:8:102:U:H2'	38:8:103:G:C8	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C1:93:TYR:O	13:C1:95:PRO:HD3	2.40	0.40
14:C2:33:ARG:HG2	14:C2:36:LEU:HD12	2.77	0.40
14:C2:88:LEU:N	14:C2:140:PHE:CZ	2.89	0.40
14:C2:91:VAL:HG22	14:C2:92:ALA:H	4.56	0.40
15:C3:107:LYS:O	15:C3:109:LYS:HG2	3.77	0.40
17:C5:89:MET:O	17:C5:107:ILE:HG13	2.83	0.40
19:C7:23:LYS:HB3	19:C7:34:LEU:HD11	2.03	0.40
25:D3:93:LEU:O	25:D3:93:LEU:HG	2.21	0.40
26:D4:102:LYS:H	26:D4:102:LYS:HD2	1.86	0.40
7:S5:164:PRO:HG3	30:D8:52:ASP:HB2	3.47	0.40
30:D8:61:ARG:HG2	30:D8:62:GLU:N	2.36	0.40
32:E0:20:LYS:HD2	32:E0:20:LYS:HA	4.34	0.40
40:L3:47:LEU:HD23	40:L3:164:THR:HG23	2.21	0.40
40:L3:166:ILE:HD13	40:L3:173:GLN:HB3	2.03	0.40
40:L3:292:ALA:HA	40:L3:303:LYS:O	2.21	0.40
40:L3:92:TYR:O	40:L3:155:ALA:HA	2.21	0.40
42:L5:219:PHE:HE1	42:L5:227:LEU:HD11	1.86	0.40
42:L5:86:TYR:CE1	42:L5:247:ILE:HA	2.70	0.40
43:L6:6:ALA:HB2	68:O2:74:PHE:CZ	2.56	0.40
44:L7:127:LEU:HA	44:L7:127:LEU:HD23	2.35	0.40
36:1:1362:G:H1'	44:L7:159:GLN:HG2	2.03	0.40
44:L7:181:ILE:O	44:L7:185:ILE:HG13	2.99	0.40
45:L8:82:LEU:HD13	45:L8:222:PHE:HE2	1.86	0.40
46:L9:12:VAL:O	46:L9:51:GLN:HB3	2.21	0.40
46:L9:164:ILE:HG12	46:L9:164:ILE:O	3.98	0.40
47:M0:140:THR:HG21	47:M0:144:ASN:HD22	1.86	0.40
47:M0:168:SER:OG	47:M0:170:LYS:HB2	3.07	0.40
47:M0:24:ARG:HG3	47:M0:24:ARG:H	3.39	0.40
47:M0:41:ALA:O	47:M0:139:ARG:NH2	3.48	0.40
47:M0:61:SER:HG	47:M0:63:GLU:HG2	2.64	0.40
49:M3:139:LEU:HD23	49:M3:139:LEU:HA	1.82	0.40
49:M3:57:VAL:HG13	49:M3:147:ILE:HG23	2.03	0.40
53:M7:112:LEU:HA	53:M7:112:LEU:HD12	1.81	0.40
56:N0:93:GLU:OE1	56:N0:137:ARG:N	2.54	0.40
42:L5:17:GLN:NE2	57:N1:22:HIS:O	2.38	0.40
57:N1:78:LYS:O	57:N1:85:LEU:N	2.69	0.40
58:N2:33:TYR:CE1	58:N2:80:THR:HG23	4.33	0.40
58:N2:82:LYS:HB2	58:N2:82:LYS:HE2	2.09	0.40
59:N3:40:LYS:HG2	59:N3:40:LYS:H	1.63	0.40
60:N4:52:THR:O	60:N4:55:PHE:HB3	2.21	0.40
70:O4:70:LYS:HD2	36:5:1804:A:H5'	170.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:O4:81:CYS:O	70:O4:81:CYS:SG	2.91	0.40
70:O4:97:GLU:O	70:O4:101:VAL:HG23	2.21	0.40
73:O7:18:LEU:HD11	75:O9:51:ILE:HG21	2.02	0.40
74:O8:36:LYS:HA	74:O8:37:PRO:HD3	2.28	0.40
2:S0:103:THR:HA	2:S0:104:PRO:HD3	1.72	0.40
2:S0:148:ASP:H	2:S0:164:ASN:ND2	3.25	0.40
4:S2:37:PRO:HA	4:S2:65:GLU:OE1	2.48	0.40
8:S6:27:PHE:HE1	8:S6:36:VAL:HG21	1.86	0.40
9:S7:170:GLN:HG2	9:S7:181:ILE:HG22	2.03	0.40
34:SR:201:THR:HB	34:SR:241:PHE:O	2.34	0.40
34:SR:229:LYS:HZ2	34:SR:229:LYS:HG3	1.73	0.40
34:SR:95:ALA:O	34:SR:96:THR:HG22	4.35	0.40
36:1:1129:A:N3	36:1:2826:U:O2'	2.46	0.40
36:1:1397:C:C2'	36:1:1398:U:H5'	2.51	0.40
36:1:639:G:H4'	36:1:1434:G:C6	2.57	0.40
36:1:1725:C:H5''	79:Q3:36:ARG:HH11	1.86	0.40
36:1:2098:C:H2'	36:1:2099:A:C8	2.55	0.40
36:1:2591:A:C6	36:1:2592:G:C6	3.10	0.40
36:1:283:G:O6	36:1:304:G:H1'	2.21	0.40
36:1:3087:A:P	85:1:3720:OHX:N5	2.95	0.40
36:1:3162:C:C2	36:1:3289:G:N2	2.89	0.40
36:1:378:A:H3'	36:1:379:C:C6	2.57	0.40
36:1:398:A:C4	53:M7:3:ARG:NH2	2.89	0.40
1:2:682:C:H2'	1:2:683:C:O4'	2.21	0.40
1:2:691:C:H2'	1:2:692:C:C6	2.56	0.40
1:2:887:A:H2'	1:2:888:U:C6	2.55	0.40
49:M3:65:TYR:CD1	36:5:103:G:H5'	103.74	0.40
45:L8:108:ARG:NH1	36:5:121:A:N3	96.83	0.40
36:5:126:U:H2'	36:5:127:G:O4'	2.20	0.40
36:5:1596:C:C2	36:5:1597:C:C5	3.09	0.40
36:5:1731:A:C5	36:5:1732:U:C5	3.09	0.40
36:5:2201:G:H2'	36:5:2202:C:C6	2.57	0.40
36:5:2206:G:OP2	36:5:2206:G:H8	2.04	0.40
36:5:229:G:C6	36:5:230:U:C4	3.09	0.40
36:5:249:U:O2'	36:5:250:U:H5''	2.21	0.40
36:5:2631:U:H4'	36:5:2697:A:C2	2.55	0.40
36:5:2951:G:H2'	36:5:2951:G:N3	2.36	0.40
36:5:319:A:C2	36:5:320:G:C8	3.09	0.40
36:5:3240:C:H42	36:5:3247:G:H1	1.68	0.40
36:5:3324:C:H2'	36:5:3325:G:C8	2.55	0.40
85:5:3537:OHX:N1	85:5:3585:OHX:N4	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:695:C:H2'	36:5:696:C:C6	2.56	0.40
36:5:965:A:C6	36:5:966:U:C4	3.09	0.40
1:6:1450:U:H2'	1:6:1451:C:C6	2.55	0.40
1:6:1203:A:C5	1:6:1556:A:C6	3.10	0.40
1:6:1563:C:H2'	1:6:1564:U:C6	2.55	0.40
1:6:129:U:O2	85:6:1913:OHX:N2	2.55	0.40
1:6:310:C:C4	1:6:311:U:C5	3.10	0.40
1:6:485:A:C6	1:6:486:G:H1'	2.57	0.40
1:6:56:U:O2	1:6:57:G:H1'	2.20	0.40
1:6:648:G:C4	1:6:687:G:N2	2.89	0.40
85:7:204:OHX:N3	85:7:209:OHX:N4	2.69	0.40
85:7:204:OHX:N5	85:7:209:OHX:N6	2.70	0.40
14:C2:74:LEU:HD21	33:E1:106:TYR:HB3	2.35	0.40
16:C4:121:VAL:HA	16:C4:122:PRO:HD3	2.15	0.40
17:C5:95:GLY:O	17:C5:102:PHE:HD1	2.05	0.40
19:C7:49:LYS:HA	1:6:1389:C:H4'	422.56	0.40
21:C9:99:SER:O	21:C9:103:LYS:HB2	2.21	0.40
21:C9:105:LEU:HD13	21:C9:122:ARG:NE	2.36	0.40
21:C9:68:ARG:HB3	21:C9:69:LYS:H	3.21	0.40
23:D1:15:ARG:HB3	23:D1:16:LYS:H	1.63	0.40
23:D1:54:ALA:O	23:D1:55:LEU:HD23	2.21	0.40
24:D2:79:PHE:O	24:D2:124:LYS:HA	2.44	0.40
24:D2:28:ARG:HH22	1:6:864:U:H3'	354.54	0.40
13:C1:99:ARG:HB3	25:D3:12:ALA:HB2	3.11	0.40
25:D3:48:HIS:CD2	25:D3:105:ALA:HB2	2.56	0.40
25:D3:68:ILE:HB	25:D3:70:LYS:NZ	3.35	0.40
26:D4:20:ARG:HD3	26:D4:76:TYR:CE2	3.37	0.40
28:D6:44:ILE:HD13	28:D6:65:PRO:C	4.14	0.40
28:D6:64:LEU:HA	28:D6:65:PRO:HD3	1.82	0.40
39:L2:114:SER:HB2	39:L2:169:ILE:HD11	2.02	0.40
39:L2:117:GLU:OE2	39:L2:120:PRO:HA	2.21	0.40
39:L2:116:VAL:CG1	39:L2:134:VAL:HG11	2.99	0.40
39:L2:52:SER:HB3	39:L2:191:LEU:HD23	2.03	0.40
39:L2:65:ASP:HA	39:L2:66:PRO:HD3	1.79	0.40
39:L2:7:ASN:OD1	39:L2:8:GLN:N	2.55	0.40
40:L3:238:LEU:HB2	40:L3:246:LEU:O	2.56	0.40
41:L4:11:LEU:HD11	41:L4:155:ASP:HB2	2.18	0.40
41:L4:146:PRO:HB2	41:L4:147:GLU:H	1.70	0.40
42:L5:9:SER:OG	42:L5:11:ALA:N	2.53	0.40
42:L5:160:PHE:O	42:L5:163:LEU:HB3	2.27	0.40
42:L5:198:TYR:O	42:L5:201:GLY:N	3.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:270:LYS:HG3	42:L5:273:ARG:CA	6.98	0.40
42:L5:98:ALA:O	42:L5:162:ALA:HA	2.45	0.40
46:L9:166:ARG:HH21	46:L9:166:ARG:CB	5.70	0.40
46:L9:171:ASP:O	46:L9:173:ARG:N	3.12	0.40
46:L9:43:VAL:HG23	46:L9:56:ALA:O	5.12	0.40
47:M0:140:THR:OG1	47:M0:141:LYS:N	2.53	0.40
47:M0:99:ILE:HD13	47:M0:101:LYS:HB2	4.58	0.40
50:M4:121:MET:HG3	36:5:3214:U:N3	282.05	0.40
50:M4:28:SER:O	50:M4:31:LYS:HB2	2.21	0.40
50:M4:17:VAL:HG22	50:M4:36:VAL:O	2.21	0.40
52:M6:27:LEU:CD2	52:M6:101:ARG:HB2	2.51	0.40
52:M6:58:LEU:HD12	52:M6:58:LEU:HA	1.96	0.40
52:M6:77:SER:O	52:M6:80:PHE:HB3	2.21	0.40
54:M8:104:LEU:HD23	54:M8:104:LEU:HA	1.69	0.40
55:M9:11:ALA:O	55:M9:15:VAL:HG23	2.22	0.40
55:M9:68:GLN:HA	55:M9:71:ARG:HD2	2.02	0.40
56:N0:142:GLN:O	56:N0:142:GLN:HG2	2.85	0.40
56:N0:78:TRP:CE2	56:N0:91:TYR:CD2	3.09	0.40
57:N1:70:SER:O	57:N1:92:ARG:HG2	2.21	0.40
59:N3:17:LEU:HA	59:N3:18:PRO:HD2	2.03	0.40
62:N6:108:LYS:HA	62:N6:108:LYS:HD3	2.57	0.40
63:N7:136:PHE:HB2	70:O4:88:ARG:HG3	3.63	0.40
63:N7:63:ALA:O	63:N7:67:LYS:HD3	2.72	0.40
64:N8:8:THR:HG21	36:5:662:U:OP1	149.45	0.40
43:L6:171:PRO:HG2	69:O3:102:LEU:HD21	2.53	0.40
69:O3:10:LYS:HB2	69:O3:33:GLU:HG3	2.03	0.40
70:O4:108:GLN:O	70:O4:112:ALA:N	2.55	0.40
70:O4:51:LEU:HA	70:O4:51:LEU:HD23	3.87	0.40
36:1:135:C:C2	71:O5:94:LYS:HB2	2.56	0.40
36:1:1493:G:O6	75:O9:2:ALA:N	2.55	0.40
2:S0:178:ALA:HA	2:S0:181:VAL:HG22	2.04	0.40
3:S1:71:ALA:O	3:S1:75:GLY:N	3.32	0.40
3:S1:30:PHE:CD1	3:S1:96:LEU:HD22	2.56	0.40
4:S2:181:SER:O	4:S2:183:ALA:N	3.12	0.40
4:S2:81:MET:HE1	4:S2:186:LYS:HG2	2.59	0.40
5:S3:150:MET:HB3	5:S3:152:PHE:CE2	2.56	0.40
1:2:1424:A:OP1	5:S3:151:LYS:HE3	2.20	0.40
6:S4:78:THR:O	6:S4:78:THR:OG1	2.33	0.40
8:S6:69:LEU:HA	8:S6:70:PRO:HD3	1.96	0.40
9:S7:111:LYS:HB3	9:S7:112:ARG:H	3.05	0.40
9:S7:16:LEU:O	9:S7:20:VAL:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:42:ARG:O	10:S8:58:LEU:O	2.40	0.40
11:S9:123:HIS:O	11:S9:127:VAL:HG23	2.49	0.40
11:S9:66:ASP:HA	11:S9:67:PRO:HD2	2.10	0.40
11:S9:60:LEU:HD12	11:S9:97:LEU:HD11	4.01	0.40
35:SM:24:GLU:O	35:SM:25:ILE:HD12	2.21	0.40
34:SR:214:ALA:HB2	34:SR:220:ILE:HA	2.03	0.40
36:1:1169:A:C6	36:1:1330:A:N7	2.89	0.40
36:1:1560:G:H2'	36:1:1561:G:H5'	2.04	0.40
36:1:1638:A:H2	36:1:1736:G:N3	2.20	0.40
36:1:1785:U:OP1	70:O4:19:LYS:NZ	2.54	0.40
36:1:2157:G:C2	36:1:2178:A:N7	2.89	0.40
36:1:2301:U:H2'	36:1:2302:G:H8	1.86	0.40
36:1:2340:U:H2'	36:1:2341:A:H8	1.86	0.40
36:1:41:G:H4'	36:1:2410:U:H2'	2.04	0.40
36:1:2676:A:H4'	36:1:2677:G:O5'	2.21	0.40
36:1:938:C:HO2'	36:1:2814:G:HO2'	1.48	0.40
36:1:2828:G:C6	36:1:2829:U:C2	3.09	0.40
36:1:3200:G:C5	36:1:3201:C:C5	3.09	0.40
85:1:3513:OHX:N5	85:1:3694:OHX:N6	2.69	0.40
36:1:706:A:H2'	36:1:707:U:O4'	2.22	0.40
36:1:811:U:H2'	36:1:812:G:C8	2.56	0.40
1:2:1018:U:O4	1:2:1019:A:N6	2.54	0.40
1:2:1032:G:C6	1:2:1104:U:C4	3.09	0.40
1:2:1092:A:C5	1:2:1094:G:C8	3.09	0.40
1:2:1240:U:O4	17:C5:59:LYS:NZ	2.40	0.40
1:2:1241:G:C6	1:2:1242:A:C6	3.08	0.40
1:2:142:G:C5	1:2:266:A:C6	3.09	0.40
1:2:1703:C:O5'	1:2:1703:C:H6	2.05	0.40
1:2:1773:C:H2'	1:2:1774:G:C8	2.55	0.40
85:2:1953:OHX:N3	85:2:2040:OHX:N5	2.69	0.40
1:2:249:U:H3'	1:2:250:C:H5'	2.03	0.40
1:2:567:A:H4'	32:E0:10:ARG:O	2.22	0.40
1:2:713:A:H5'	1:2:714:G:OP2	2.21	0.40
1:2:744:U:H5'	1:2:745:U:OP2	2.21	0.40
38:4:126:A:H3'	85:4:210:OHX:N6	2.37	0.40
38:4:37:A:N3	38:4:37:A:H2'	2.36	0.40
36:5:109:A:H8	36:5:109:A:O5'	2.05	0.40
36:5:1159:A:O2'	36:5:1160:C:H5'	2.22	0.40
36:5:1387:G:N1	36:5:1388:U:C4	2.89	0.40
36:5:1392:G:HO2'	36:5:1393:A:P	2.44	0.40
36:5:1798:A:H2'	36:5:1799:A:C8	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2201:G:H2'	36:5:2202:C:H6	1.85	0.40
36:5:2620:G:C6	36:5:2621:G:C5	3.08	0.40
36:5:2814:G:C2	36:5:2815:G:C4	3.09	0.40
36:5:2894:C:H2'	36:5:2895:G:C8	2.56	0.40
1:6:1617:U:H2'	1:6:1618:C:C6	2.57	0.40
1:6:1145:U:H3	1:6:1633:A:H61	1.68	0.40
1:6:1715:G:N3	1:6:1715:G:H2'	2.35	0.40
1:6:1658:G:C4	1:6:1744:A:C6	3.09	0.40
1:6:1010:C:P	85:6:2025:OHX:N3	2.94	0.40
1:6:2:A:C8	1:6:370:A:H1'	2.56	0.40
13:C1:92:HIS:NE2	1:6:307:G:H5''	335.28	0.40
1:6:369:A:O2'	1:6:371:G:OP2	2.30	0.40
1:6:40:A:H2'	1:6:41:A:O4'	2.22	0.40
1:6:634:G:C6	1:6:966:A:C6	3.09	0.40
13:C1:21:ASN:HD22	13:C1:31:THR:HA	2.57	0.40
14:C2:88:LEU:HD12	14:C2:88:LEU:HA	2.27	0.40
15:C3:89:TYR:HE2	15:C3:150:VAL:HA	2.65	0.40
15:C3:3:ARG:HB3	15:C3:8:GLY:O	2.22	0.40
17:C5:83:MET:HB3	17:C5:116:LEU:HD12	3.29	0.40
5:S3:209:ILE:HG22	19:C7:38:ILE:O	3.68	0.40
20:C8:100:THR:C	20:C8:101:LEU:HG	2.88	0.40
21:C9:31:PRO:HD2	21:C9:54:PHE:CE2	2.56	0.40
23:D1:13:VAL:HA	23:D1:14:PRO:HD3	1.87	0.40
24:D2:3:ARG:HH11	24:D2:3:ARG:HD3	1.78	0.40
26:D4:110:GLN:O	26:D4:114:ARG:HD3	4.55	0.40
26:D4:60:PHE:O	1:6:523:G:H5'	413.38	0.40
26:D4:57:VAL:HA	26:D4:73:GLY:HA2	2.03	0.40
27:D5:41:ILE:HG23	27:D5:42:LEU:N	2.36	0.40
27:D5:40:VAL:HA	27:D5:75:LEU:HD13	3.29	0.40
28:D6:44:ILE:H	28:D6:44:ILE:HG13	1.54	0.40
1:2:1797:A:C5	28:D6:87:ARG:NH1	2.90	0.40
31:D9:54:LYS:HG2	31:D9:54:LYS:H	2.97	0.40
40:L3:222:LYS:HG3	40:L3:223:GLY:N	2.37	0.40
40:L3:236:LYS:HD3	36:5:2340:U:OP1	234.33	0.40
36:1:3049:A:C2	40:L3:75:ALA:HB2	2.57	0.40
41:L4:193:LYS:HB3	41:L4:193:LYS:HE3	2.19	0.40
41:L4:203:ARG:NH2	41:L4:240:PRO:HB3	2.36	0.40
42:L5:54:ARG:NH1	42:L5:147:ASP:O	2.54	0.40
42:L5:80:SER:O	42:L5:83:LEU:HG	2.96	0.40
43:L6:63:LEU:HB2	43:L6:79:VAL:HG12	2.03	0.40
45:L8:101:THR:OG1	45:L8:104:GLU:HG3	5.15	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:144:GLU:OE1	72:O6:36:ARG:NH2	2.55	0.40
48:M1:98:ALA:HA	48:M1:156:LYS:HB2	2.03	0.40
49:M3:36:ARG:HG2	49:M3:36:ARG:NH1	4.15	0.40
50:M4:26:GLY:O	50:M4:27:GLN:C	2.86	0.40
52:M6:33:ILE:O	52:M6:102:LEU:HA	2.21	0.40
53:M7:49:GLU:O	53:M7:52:LEU:HB2	2.22	0.40
57:N1:83:ARG:CZ	57:N1:85:LEU:HD21	2.51	0.40
59:N3:54:LEU:HA	59:N3:54:LEU:HD13	1.73	0.40
60:N4:81:PRO:CB	60:N4:82:ILE:HA	2.51	0.40
63:N7:36:HIS:ND1	63:N7:36:HIS:N	3.44	0.40
63:N7:11:ALA:HB1	63:N7:80:LEU:CD2	3.38	0.40
64:N8:115:LYS:HB2	36:5:715:A:H8	146.93	0.40
66:O0:101:LEU:H	66:O0:101:LEU:HD22	3.46	0.40
66:O0:13:LYS:HE3	66:O0:103:THR:HG21	2.02	0.40
67:O1:25:PHE:C	67:O1:27:LYS:N	2.78	0.40
70:O4:61:GLN:HA	70:O4:64:THR:HG23	4.06	0.40
71:O5:41:LEU:HD13	71:O5:41:LEU:HA	1.91	0.40
78:Q2:47:GLN:OE1	78:Q2:54:THR:OG1	3.48	0.40
78:Q2:59:HIS:HA	78:Q2:61:LYS:NZ	6.03	0.40
2:S0:130:ALA:HA	2:S0:133:ILE:HD12	3.06	0.40
3:S1:134:VAL:HB	3:S1:219:LYS:HB2	2.03	0.40
5:S3:191:ASP:HA	5:S3:192:PRO:HD2	2.15	0.40
5:S3:90:ARG:HB3	5:S3:91:VAL:H	3.01	0.40
6:S4:127:LYS:HA	6:S4:127:LYS:HE2	4.80	0.40
6:S4:44:LEU:HD13	6:S4:65:LEU:HD21	2.85	0.40
7:S5:211:ILE:HA	7:S5:211:ILE:HD13	1.92	0.40
9:S7:10:SER:O	9:S7:10:SER:OG	2.35	0.40
9:S7:141:ARG:O	9:S7:148:LYS:HA	2.30	0.40
35:SM:101:ASP:HB3	35:SM:102:THR:H	1.69	0.40
4:S2:121:VAL:HG11	35:SM:117:LEU:HB2	2.03	0.40
34:SR:128:ASP:N	34:SR:128:ASP:OD1	2.53	0.40
34:SR:153:GLN:O	34:SR:172:ALA:N	2.51	0.40
34:SR:157:VAL:HA	34:SR:158:PRO:HD2	2.45	0.40
36:1:1008:U:C2	36:1:1043:C:C2	3.09	0.40
36:1:1319:G:C6	36:1:1320:C:C4	3.10	0.40
36:1:1699:A:H2'	36:1:1700:G:C8	2.57	0.40
36:1:1939:G:C6	36:1:1940:G:C5	3.09	0.40
36:1:2394:G:H5'	40:L3:252:ILE:HG22	2.02	0.40
36:1:2624:G:H2'	36:1:2625:C:C6	2.56	0.40
36:1:2756:C:N4	36:1:2757:U:O4	2.54	0.40
36:1:2419:A:C4	36:1:2804:A:C8	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3009:G:C6	36:1:3010:U:C4	3.09	0.40
36:1:172:G:N7	85:1:3529:OHX:N5	2.69	0.40
36:1:855:U:C4	36:1:856:G:C6	3.08	0.40
85:2:1953:OHX:N3	85:2:2040:OHX:N1	2.69	0.40
1:2:1485:C:OP1	85:2:1978:OHX:N6	2.54	0.40
1:2:328:A:H2'	1:2:329:G:H8	1.86	0.40
1:2:534:A:H3'	1:2:535:A:H8	1.86	0.40
1:2:586:G:C6	1:2:587:C:C4	3.10	0.40
36:5:1056:U:H2'	36:5:1057:A:O4'	2.21	0.40
36:5:1230:G:H1	36:5:1279:C:N4	2.16	0.40
36:5:1491:A:H2'	36:5:1492:G:O4'	2.22	0.40
36:5:1598:G:H2'	36:5:1599:G:H8	1.85	0.40
66:O0:85:PHE:CZ	36:5:1728:G:C6	252.08	0.40
57:N1:8:ARG:N	36:5:2757:U:O2'	239.37	0.40
78:Q2:41:ARG:NH2	36:5:2785:A:H4'	161.74	0.40
36:5:2936:A:H2'	36:5:2937:G:H8	1.84	0.40
36:5:1207:G:N7	85:5:3586:OHX:N1	2.69	0.40
36:5:620:U:H6	36:5:620:U:O5'	2.05	0.40
36:5:744:A:H2'	36:5:745:C:O4'	2.21	0.40
36:5:835:G:HO2'	36:5:857:G:H22	1.54	0.40
1:6:1082:C:N4	1:6:1091:A:N6	2.69	0.40
19:C7:10:LYS:HE3	1:6:1316:G:H4'	407.42	0.40
26:D4:131:ARG:NH2	1:6:153:G:OP2	320.92	0.40
1:6:1636:C:C4	1:6:1765:A:N1	2.90	0.40
1:6:271:A:H5'	1:6:272:U:OP2	2.21	0.40
1:6:985:G:H2'	1:6:986:G:O4'	2.20	0.40
16:C4:129:LYS:HB2	16:C4:129:LYS:HE3	1.84	0.40
16:C4:91:THR:C	16:C4:93:THR:H	2.24	0.40
18:C6:41:PRO:O	18:C6:42:GLU:HB3	2.21	0.40
19:C7:57:LEU:O	19:C7:61:ILE:HG13	2.35	0.40
21:C9:69:LYS:HB3	21:C9:70:GLN:NE2	2.36	0.40
13:C1:99:ARG:HD3	25:D3:11:SER:OG	4.49	0.40
26:D4:8:ARG:CZ	26:D4:28:LEU:HD11	4.42	0.40
27:D5:85:LYS:HG3	27:D5:86:GLU:H	1.86	0.40
27:D5:90:LYS:HA	27:D5:91:PRO:HD2	1.89	0.40
29:D7:31:TYR:CD2	29:D7:48:SER:HB3	2.75	0.40
33:E1:144:CYS:C	33:E1:146:SER:N	2.75	0.40
39:L2:245:LEU:HD12	39:L2:246:LEU:H	2.27	0.40
39:L2:77:ILE:HG13	39:L2:115:ASN:ND2	4.39	0.40
40:L3:60:LEU:HD23	40:L3:67:PHE:O	2.64	0.40
41:L4:132:ALA:O	41:L4:136:LEU:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:156:LEU:HD23	41:L4:159:ILE:HD12	2.04	0.40
41:L4:37:THR:OG1	41:L4:38:VAL:N	2.54	0.40
42:L5:211:LEU:HA	42:L5:211:LEU:HD23	1.92	0.40
36:1:501:A:H5'	43:L6:28:GLN:HE21	1.86	0.40
43:L6:42:LEU:HD23	43:L6:84:VAL:HG22	3.66	0.40
43:L6:38:THR:HA	43:L6:90:LYS:HG3	2.53	0.40
44:L7:83:LEU:HD22	44:L7:84:VAL:N	2.40	0.40
45:L8:148:ALA:C	45:L8:149:LYS:HD2	4.07	0.40
45:L8:81:THR:HG21	45:L8:181:LYS:HE2	3.75	0.40
36:1:2854:U:OP2	47:M0:3:ARG:NH2	2.55	0.40
47:M0:8:CYS:HB2	47:M0:9:TYR:CD1	2.99	0.40
48:M1:48:SER:O	48:M1:65:ILE:N	2.50	0.40
49:M3:98:ASP:CG	36:5:76:G:HO2'	80.46	0.40
50:M4:32:LEU:HD11	50:M4:94:TRP:CG	3.29	0.40
51:M5:194:GLN:H	51:M5:194:GLN:HG2	1.93	0.40
52:M6:108:ILE:HA	52:M6:109:PRO:HD2	1.95	0.40
52:M6:68:ARG:HG2	52:M6:68:ARG:H	1.70	0.40
54:M8:131:ALA:HB1	54:M8:135:GLN:H	1.87	0.40
54:M8:83:VAL:HB	54:M8:103:ALA:HB2	2.03	0.40
55:M9:128:LYS:HG2	55:M9:128:LYS:O	2.22	0.40
55:M9:20:ARG:NH2	36:5:1874:A:H62	149.57	0.40
36:1:1323:G:O3'	56:N0:2:ALA:HA	2.20	0.40
42:L5:40:HIS:CE1	57:N1:69:LYS:HA	2.69	0.40
58:N2:104:ARG:HH22	36:5:1758:G:P	119.58	0.40
60:N4:97:LYS:HG3	60:N4:98:PRO:HD2	5.24	0.40
63:N7:64:LYS:HD2	36:5:1812:G:O6	186.52	0.40
64:N8:74:ASN:OD1	64:N8:113:LEU:HB2	2.89	0.40
64:N8:44:ASN:O	64:N8:48:TYR:HB2	2.21	0.40
70:O4:82:ALA:O	70:O4:85:VAL:N	2.93	0.40
75:O9:9:ILE:HD12	75:O9:51:ILE:HG23	2.03	0.40
79:Q3:13:LYS:HG3	79:Q3:14:TYR:CD1	2.78	0.40
2:S0:56:LYS:HZ2	2:S0:158:VAL:HA	3.06	0.40
3:S1:105:PHE:HZ	3:S1:211:HIS:ND1	3.07	0.40
3:S1:70:LEU:HD13	3:S1:79:HIS:CG	4.06	0.40
4:S2:199:GLN:OE1	1:6:1097:U:H5	378.38	0.40
6:S4:105:VAL:HG11	6:S4:244:ILE:H	3.04	0.40
1:2:1471:A:H5'	7:S5:184:PHE:CE2	2.57	0.40
9:S7:10:SER:HB2	9:S7:42:GLN:CD	2.42	0.40
9:S7:151:LYS:HG3	9:S7:182:VAL:CG1	4.30	0.40
10:S8:2:GLY:O	10:S8:24:LYS:NZ	3.98	0.40
10:S8:49:ARG:HH22	1:6:399:A:P	314.07	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:150:A:C5	36:1:151:A:C8	3.10	0.40
36:1:1911:A:H8	36:1:1911:A:O5'	2.04	0.40
36:1:1921:A:H61	36:1:1929:G:H2'	1.87	0.40
36:1:2157:G:C6	39:L2:151:PRO:HD2	2.57	0.40
36:1:2191:U:H2'	36:1:2192:C:O4'	2.22	0.40
36:1:2700:G:H5''	57:N1:17:ARG:HD3	2.04	0.40
36:1:2689:A:C8	36:1:2702:A:N6	2.89	0.40
36:1:2281:A:C6	36:1:2959:C:H1'	2.56	0.40
36:1:2961:G:C6	36:1:2962:U:C4	3.09	0.40
36:1:3273:A:OP1	43:L6:77:ARG:NH1	2.52	0.40
36:1:3314:A:C6	36:1:3315:G:C6	3.10	0.40
36:1:3338:C:O5'	36:1:3338:C:H6	2.04	0.40
85:1:3404:OHX:N1	43:L6:29:LYS:O	2.55	0.40
36:1:1887:A:OP2	85:1:3428:OHX:N3	2.55	0.40
85:1:3565:OHX:N4	85:1:3685:OHX:N1	2.69	0.40
1:2:1086:A:C6	1:2:1087:A:C6	3.09	0.40
1:2:1098:U:H4'	1:2:1099:U:OP2	2.21	0.40
1:2:1320:U:N3	1:2:1323:C:OP1	2.40	0.40
85:2:1961:OHX:N4	85:2:1963:OHX:N2	2.69	0.40
1:2:330:G:H2'	1:2:331:A:H8	1.87	0.40
1:2:407:A:H2'	1:2:408:C:C6	2.57	0.40
1:2:498:G:C5	1:2:499:U:O4	2.75	0.40
1:2:755:A:O2'	1:2:756:A:OP1	2.34	0.40
1:2:864:U:O2'	15:C3:11:ILE:HG21	2.21	0.40
1:2:865:A:H2'	1:2:866:G:O4'	2.21	0.40
1:2:885:G:OP1	3:S1:136:ARG:NH1	2.55	0.40
36:5:1008:U:C2	36:5:1043:C:C2	3.09	0.40
36:5:1336:U:H2'	36:5:1337:A:C8	2.56	0.40
43:L6:4:GLN:HA	36:5:1422:G:O2'	145.34	0.40
36:5:1613:A:H2'	36:5:1614:C:H6	1.85	0.40
36:5:2107:A:C2	36:5:2108:C:C2	3.10	0.40
36:5:2537:U:O2	36:5:2543:U:N3	2.55	0.40
45:L8:241:LYS:HB2	36:5:2586:G:C6	184.22	0.40
50:M4:121:MET:HG3	36:5:3214:U:C4	282.31	0.40
36:5:1070:U:O4	85:5:3615:OHX:N6	2.54	0.40
36:5:601:U:H2'	36:5:602:A:O4'	2.21	0.40
36:5:652:G:OP1	36:5:1436:U:O2'	2.37	0.40
45:L8:193:LYS:O	36:5:7:C:H4'	125.82	0.40
1:6:1251:U:O2'	1:6:1252:C:H5''	2.22	0.40
1:6:1345:A:H2'	1:6:1348:A:H62	1.86	0.40
1:6:639:U:H5	1:6:695:U:C5	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:118:LEU:HB2	1:6:639:U:O2	369.88	0.40
1:6:755:A:C4	1:6:756:A:C8	3.10	0.40
1:6:624:G:C6	1:6:976:G:N2	2.90	0.40
38:8:6:U:H2'	38:8:7:U:C6	2.57	0.40
14:C2:41:LEU:HA	14:C2:41:LEU:HD23	1.91	0.40
14:C2:42:ALA:HB1	14:C2:47:GLU:HB3	2.36	0.40
15:C3:29:SER:N	15:C3:32:SER:OG	2.54	0.40
15:C3:55:ARG:NH1	15:C3:56:ASP:OD1	4.02	0.40
15:C3:81:ALA:HA	15:C3:82:PRO:HD2	2.06	0.40
16:C4:107:ARG:NH2	16:C4:107:ARG:HB2	3.37	0.40
16:C4:112:ILE:H	28:D6:57:SER:HA	1.86	0.40
19:C7:50:ILE:O	19:C7:54:THR:HG23	2.22	0.40
20:C8:102:ALA:O	20:C8:105:VAL:HG22	5.62	0.40
20:C8:134:ARG:O	20:C8:136:GLN:HG2	4.46	0.40
20:C8:17:LEU:HD12	20:C8:18:LEU:HD23	2.02	0.40
22:D0:101:LYS:HB2	22:D0:101:LYS:HE3	1.72	0.40
25:D3:27:ASN:O	25:D3:31:LYS:HG2	2.21	0.40
25:D3:56:LYS:HZ2	25:D3:97:ASP:H	1.69	0.40
26:D4:112:LYS:O	26:D4:116:LYS:HG3	2.22	0.40
26:D4:18:LEU:HA	26:D4:18:LEU:HD23	1.74	0.40
27:D5:43:ASP:HB2	27:D5:46:LYS:CD	2.52	0.40
28:D6:58:VAL:O	28:D6:59:TYR:HB2	2.41	0.40
39:L2:112:ILE:HG22	39:L2:135:ILE:HG12	7.46	0.40
39:L2:201:GLY:O	39:L2:211:HIS:HB2	2.22	0.40
40:L3:50:LYS:CG	40:L3:332:ARG:HA	3.28	0.40
40:L3:45:SER:HA	40:L3:338:LEU:O	2.42	0.40
40:L3:77:THR:HG23	40:L3:327:CYS:HA	2.03	0.40
40:L3:93:VAL:CG1	40:L3:155:ALA:HA	3.92	0.40
42:L5:146:LEU:HD23	42:L5:146:LEU:HA	1.83	0.40
43:L6:80:ASN:HB3	43:L6:83:TYR:HD2	3.00	0.40
36:1:1354:G:H4'	43:L6:8:LYS:HE2	2.03	0.40
44:L7:130:ILE:HG21	44:L7:130:ILE:HD13	1.93	0.40
45:L8:170:CYS:O	45:L8:175:VAL:N	2.46	0.40
46:L9:86:TYR:CD2	46:L9:151:VAL:HG22	2.88	0.40
47:M0:12:GLN:NE2	47:M0:128:ARG:HB3	2.68	0.40
47:M0:31:ILE:HB	47:M0:66:GLU:HB2	2.04	0.40
47:M0:52:LEU:HA	47:M0:52:LEU:HD23	1.84	0.40
48:M1:91:LEU:N	48:M1:170:ASP:O	3.16	0.40
48:M1:85:LYS:HA	48:M1:89:TYR:HE2	1.97	0.40
50:M4:128:ARG:HG2	50:M4:128:ARG:O	2.21	0.40
52:M6:117:ARG:HG2	52:M6:117:ARG:H	2.13	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:127:LYS:HB2	52:M6:190:VAL:HG11	4.51	0.40
52:M6:88:VAL:HG12	52:M6:89:SER:N	2.74	0.40
53:M7:153:LYS:HG3	53:M7:153:LYS:O	3.46	0.40
53:M7:168:LEU:HB2	53:M7:172:GLN:HB3	2.03	0.40
53:M7:32:THR:HG21	53:M7:87:SER:HB2	2.50	0.40
53:M7:78:VAL:HG13	53:M7:79:THR:N	3.12	0.40
54:M8:80:THR:O	54:M8:80:THR:OG1	2.39	0.40
56:N0:2:ALA:HB3	56:N0:32:SER:CB	2.52	0.40
57:N1:39:ILE:HG13	57:N1:102:ARG:HD2	4.56	0.40
58:N2:22:PRO:HB2	58:N2:28:PHE:HB2	2.34	0.40
58:N2:30:PRO:HA	58:N2:33:TYR:HB3	2.04	0.40
58:N2:74:LYS:HE3	36:5:1677:G:N7	152.31	0.40
59:N3:35:TYR:CE2	59:N3:37:ILE:HG22	2.57	0.40
62:N6:102:SER:C	62:N6:103:LYS:HD3	2.77	0.40
66:O0:54:SER:HB3	70:O4:94:LEU:HD13	2.04	0.40
36:1:3324:C:O2'	67:O1:105:GLN:HA	2.21	0.40
70:O4:30:LEU:HD23	70:O4:30:LEU:HA	2.18	0.40
63:N7:136:PHE:O	70:O4:88:ARG:HD3	2.21	0.40
72:O6:43:LEU:O	72:O6:47:ILE:HG13	2.21	0.40
72:O6:63:ASN:OD1	72:O6:63:ASN:N	2.54	0.40
2:S0:199:PRO:O	2:S0:201:LEU:N	3.05	0.40
6:S4:129:VAL:HG12	6:S4:156:VAL:HG22	2.14	0.40
6:S4:47:PHE:CE2	6:S4:90:ILE:HD12	2.56	0.40
7:S5:117:THR:HG22	7:S5:121:ILE:HD12	2.54	0.40
7:S5:25:LEU:HD21	7:S5:29:ILE:HD12	3.48	0.40
8:S6:22:HIS:CE1	8:S6:25:ARG:HH22	3.93	0.40
9:S7:162:ILE:HG22	9:S7:165:LYS:HD2	2.04	0.40
1:2:764:U:OP1	11:S9:82:ARG:NH2	2.54	0.40
34:SR:12:THR:HG22	34:SR:311:ARG:HG2	2.03	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)
36:5:2130:G:O4'	86:5:4174:MG:MG[1_656]	1.40	0.80
1:2:1353:U:O2'	36:5:3165:A:OP1[2_546]	2.07	0.13

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	S0	204/251 (81%)	151 (74%)	32 (16%)	21 (10%)	1	7
2	s0	204/251 (81%)	148 (72%)	36 (18%)	20 (10%)	1	8
3	S1	212/254 (84%)	145 (68%)	39 (18%)	28 (13%)	0	4
3	s1	214/254 (84%)	162 (76%)	36 (17%)	16 (8%)	1	13
4	S2	215/253 (85%)	182 (85%)	16 (7%)	17 (8%)	1	12
4	s2	215/253 (85%)	169 (79%)	35 (16%)	11 (5%)	2	24
5	S3	221/239 (92%)	174 (79%)	36 (16%)	11 (5%)	3	24
5	s3	221/239 (92%)	168 (76%)	36 (16%)	17 (8%)	1	12
6	S4	258/260 (99%)	199 (77%)	49 (19%)	10 (4%)	4	32
6	s4	258/260 (99%)	200 (78%)	35 (14%)	23 (9%)	1	9
7	S5	204/224 (91%)	156 (76%)	34 (17%)	14 (7%)	1	15
7	s5	204/224 (91%)	140 (69%)	50 (24%)	14 (7%)	1	15
8	S6	224/236 (95%)	185 (83%)	26 (12%)	13 (6%)	2	20
8	s6	216/236 (92%)	179 (83%)	21 (10%)	16 (7%)	1	14
9	S7	182/189 (96%)	131 (72%)	35 (19%)	16 (9%)	1	10
9	s7	184/189 (97%)	135 (73%)	34 (18%)	15 (8%)	1	11
10	S8	184/200 (92%)	153 (83%)	21 (11%)	10 (5%)	2	22
10	s8	184/200 (92%)	155 (84%)	18 (10%)	11 (6%)	2	19
11	S9	183/196 (93%)	138 (75%)	29 (16%)	16 (9%)	1	10
11	s9	183/196 (93%)	133 (73%)	41 (22%)	9 (5%)	3	25
12	C0	94/105 (90%)	68 (72%)	16 (17%)	10 (11%)	0	6
13	C1	145/155 (94%)	117 (81%)	18 (12%)	10 (7%)	1	15
13	c1	144/155 (93%)	116 (81%)	21 (15%)	7 (5%)	3	25
14	C2	108/142 (76%)	67 (62%)	28 (26%)	13 (12%)	0	5
14	c2	108/142 (76%)	66 (61%)	29 (27%)	13 (12%)	0	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	C3	148/150 (99%)	122 (82%)	20 (14%)	6 (4%)	3	30
15	c3	148/150 (99%)	108 (73%)	29 (20%)	11 (7%)	1	14
16	C4	125/136 (92%)	88 (70%)	22 (18%)	15 (12%)	0	5
16	c4	126/136 (93%)	96 (76%)	19 (15%)	11 (9%)	1	10
17	C5	122/141 (86%)	93 (76%)	19 (16%)	10 (8%)	1	11
17	c5	133/141 (94%)	93 (70%)	23 (17%)	17 (13%)	0	4
18	C6	139/142 (98%)	110 (79%)	22 (16%)	7 (5%)	3	24
18	c6	140/142 (99%)	113 (81%)	19 (14%)	8 (6%)	2	20
19	C7	116/136 (85%)	91 (78%)	17 (15%)	8 (7%)	1	15
19	c7	113/136 (83%)	91 (80%)	16 (14%)	6 (5%)	2	22
20	C8	143/145 (99%)	110 (77%)	24 (17%)	9 (6%)	2	18
20	c8	143/145 (99%)	111 (78%)	21 (15%)	11 (8%)	1	12
21	C9	141/143 (99%)	114 (81%)	19 (14%)	8 (6%)	2	20
21	c9	141/143 (99%)	117 (83%)	18 (13%)	6 (4%)	3	29
22	D0	105/120 (88%)	88 (84%)	13 (12%)	4 (4%)	4	32
22	d0	108/120 (90%)	83 (77%)	17 (16%)	8 (7%)	1	14
23	D1	85/87 (98%)	56 (66%)	19 (22%)	10 (12%)	0	5
23	d1	85/87 (98%)	66 (78%)	16 (19%)	3 (4%)	4	35
24	D2	127/129 (98%)	108 (85%)	12 (9%)	7 (6%)	2	21
24	d2	127/129 (98%)	99 (78%)	25 (20%)	3 (2%)	7	44
25	D3	142/144 (99%)	105 (74%)	26 (18%)	11 (8%)	1	12
25	d3	142/144 (99%)	120 (84%)	17 (12%)	5 (4%)	4	35
26	D4	132/134 (98%)	103 (78%)	18 (14%)	11 (8%)	1	11
26	d4	132/134 (98%)	103 (78%)	19 (14%)	10 (8%)	1	13
27	D5	68/107 (64%)	45 (66%)	13 (19%)	10 (15%)	0	3
27	d5	67/107 (63%)	54 (81%)	7 (10%)	6 (9%)	1	9
28	D6	95/97 (98%)	58 (61%)	19 (20%)	18 (19%)	0	1
28	d6	95/97 (98%)	71 (75%)	18 (19%)	6 (6%)	2	18
29	D7	79/81 (98%)	59 (75%)	15 (19%)	5 (6%)	2	18
29	d7	79/81 (98%)	61 (77%)	12 (15%)	6 (8%)	1	13
30	D8	61/66 (92%)	47 (77%)	13 (21%)	1 (2%)	12	53

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
30	d8	61/66 (92%)	46 (75%)	13 (21%)	2 (3%)	5	37
31	D9	51/55 (93%)	36 (71%)	11 (22%)	4 (8%)	1	12
31	d9	51/55 (93%)	44 (86%)	4 (8%)	3 (6%)	2	19
32	E0	58/62 (94%)	47 (81%)	7 (12%)	4 (7%)	1	15
32	e0	60/62 (97%)	46 (77%)	8 (13%)	6 (10%)	1	7
33	E1	69/76 (91%)	35 (51%)	13 (19%)	21 (30%)	0	0
33	e1	74/76 (97%)	35 (47%)	18 (24%)	21 (28%)	0	0
34	SR	316/318 (99%)	261 (83%)	44 (14%)	11 (4%)	4	35
34	sR	316/318 (99%)	260 (82%)	40 (13%)	16 (5%)	2	24
35	SM	131/182 (72%)	95 (72%)	18 (14%)	18 (14%)	0	3
35	sM	61/182 (34%)	34 (56%)	15 (25%)	12 (20%)	0	1
39	L2	250/253 (99%)	203 (81%)	36 (14%)	11 (4%)	3	28
39	l2	250/253 (99%)	204 (82%)	28 (11%)	18 (7%)	1	14
40	L3	384/386 (100%)	311 (81%)	54 (14%)	19 (5%)	3	25
40	l3	384/386 (100%)	331 (86%)	39 (10%)	14 (4%)	4	34
41	L4	359/361 (99%)	286 (80%)	49 (14%)	24 (7%)	1	16
41	l4	359/361 (99%)	280 (78%)	54 (15%)	25 (7%)	1	15
42	L5	294/296 (99%)	225 (76%)	37 (13%)	32 (11%)	0	6
42	l5	292/296 (99%)	235 (80%)	40 (14%)	17 (6%)	2	20
43	L6	152/175 (87%)	132 (87%)	16 (10%)	4 (3%)	7	42
43	l6	153/175 (87%)	116 (76%)	29 (19%)	8 (5%)	2	23
44	L7	220/243 (90%)	186 (84%)	24 (11%)	10 (4%)	3	27
44	l7	221/243 (91%)	183 (83%)	28 (13%)	10 (4%)	3	27
45	L8	231/255 (91%)	183 (79%)	37 (16%)	11 (5%)	3	25
45	l8	229/255 (90%)	171 (75%)	37 (16%)	21 (9%)	1	9
46	L9	189/191 (99%)	151 (80%)	28 (15%)	10 (5%)	2	22
46	l9	189/191 (99%)	162 (86%)	22 (12%)	5 (3%)	7	42
47	M0	207/220 (94%)	165 (80%)	34 (16%)	8 (4%)	4	32
47	m0	209/220 (95%)	168 (80%)	26 (12%)	15 (7%)	1	14
48	M1	167/173 (96%)	125 (75%)	24 (14%)	18 (11%)	0	6
48	m1	167/173 (96%)	136 (81%)	15 (9%)	16 (10%)	1	8

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
49	M3	191/198 (96%)	136 (71%)	40 (21%)	15 (8%)	1	12
49	m3	192/198 (97%)	146 (76%)	31 (16%)	15 (8%)	1	12
50	M4	134/137 (98%)	111 (83%)	13 (10%)	10 (8%)	1	13
50	m4	135/137 (98%)	109 (81%)	20 (15%)	6 (4%)	3	28
51	M5	201/203 (99%)	172 (86%)	21 (10%)	8 (4%)	4	31
51	m5	201/203 (99%)	169 (84%)	25 (12%)	7 (4%)	4	35
52	M6	195/198 (98%)	172 (88%)	18 (9%)	5 (3%)	7	42
52	m6	195/198 (98%)	180 (92%)	9 (5%)	6 (3%)	5	39
53	M7	181/183 (99%)	137 (76%)	34 (19%)	10 (6%)	2	21
53	m7	153/183 (84%)	125 (82%)	24 (16%)	4 (3%)	7	42
54	M8	183/185 (99%)	151 (82%)	30 (16%)	2 (1%)	17	61
54	m8	183/185 (99%)	148 (81%)	25 (14%)	10 (6%)	2	21
55	M9	186/188 (99%)	157 (84%)	24 (13%)	5 (3%)	6	41
55	m9	186/188 (99%)	157 (84%)	21 (11%)	8 (4%)	3	29
56	N0	170/172 (99%)	147 (86%)	18 (11%)	5 (3%)	6	40
56	n0	170/172 (99%)	153 (90%)	14 (8%)	3 (2%)	11	50
57	N1	157/159 (99%)	127 (81%)	23 (15%)	7 (4%)	3	27
57	n1	157/159 (99%)	134 (85%)	20 (13%)	3 (2%)	10	49
58	N2	98/120 (82%)	74 (76%)	17 (17%)	7 (7%)	1	15
58	n2	96/120 (80%)	77 (80%)	17 (18%)	2 (2%)	9	47
59	N3	134/136 (98%)	114 (85%)	17 (13%)	3 (2%)	8	46
59	n3	134/136 (98%)	120 (90%)	10 (8%)	4 (3%)	5	39
60	N4	96/155 (62%)	77 (80%)	12 (12%)	7 (7%)	1	14
60	n4	133/155 (86%)	94 (71%)	28 (21%)	11 (8%)	1	11
61	N5	119/141 (84%)	101 (85%)	17 (14%)	1 (1%)	24	67
61	n5	118/141 (84%)	83 (70%)	24 (20%)	11 (9%)	1	9
62	N6	124/126 (98%)	105 (85%)	14 (11%)	5 (4%)	4	31
62	n6	124/126 (98%)	106 (86%)	12 (10%)	6 (5%)	3	25
63	N7	133/135 (98%)	101 (76%)	19 (14%)	13 (10%)	1	8
63	n7	133/135 (98%)	101 (76%)	18 (14%)	14 (10%)	1	7
64	N8	146/148 (99%)	110 (75%)	25 (17%)	11 (8%)	1	13

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
64	n8	146/148 (99%)	114 (78%)	26 (18%)	6 (4%)	3	30
65	N9	56/58 (97%)	42 (75%)	11 (20%)	3 (5%)	2	22
65	n9	56/58 (97%)	42 (75%)	9 (16%)	5 (9%)	1	9
66	O0	95/104 (91%)	84 (88%)	11 (12%)	0	100	100
66	o0	98/104 (94%)	78 (80%)	12 (12%)	8 (8%)	1	11
67	O1	107/112 (96%)	92 (86%)	11 (10%)	4 (4%)	4	33
67	o1	107/112 (96%)	82 (77%)	18 (17%)	7 (6%)	1	17
68	O2	125/129 (97%)	109 (87%)	15 (12%)	1 (1%)	24	67
68	o2	125/129 (97%)	106 (85%)	13 (10%)	6 (5%)	3	25
69	O3	104/106 (98%)	93 (89%)	8 (8%)	3 (3%)	6	40
69	o3	104/106 (98%)	88 (85%)	13 (12%)	3 (3%)	6	40
70	O4	110/120 (92%)	94 (86%)	12 (11%)	4 (4%)	4	34
70	o4	110/120 (92%)	93 (84%)	11 (10%)	6 (6%)	2	21
71	O5	117/119 (98%)	99 (85%)	13 (11%)	5 (4%)	3	29
71	o5	117/119 (98%)	94 (80%)	18 (15%)	5 (4%)	3	29
72	O6	97/99 (98%)	65 (67%)	20 (21%)	12 (12%)	0	4
72	o6	97/99 (98%)	79 (81%)	13 (13%)	5 (5%)	2	23
73	O7	85/87 (98%)	64 (75%)	19 (22%)	2 (2%)	7	44
73	o7	85/87 (98%)	61 (72%)	16 (19%)	8 (9%)	1	8
74	O8	75/77 (97%)	59 (79%)	11 (15%)	5 (7%)	1	16
74	o8	75/77 (97%)	56 (75%)	16 (21%)	3 (4%)	4	31
75	O9	48/50 (96%)	40 (83%)	6 (12%)	2 (4%)	3	29
75	o9	48/50 (96%)	40 (83%)	8 (17%)	0	100	100
76	Q0	50/52 (96%)	42 (84%)	5 (10%)	3 (6%)	2	19
76	q0	50/52 (96%)	43 (86%)	6 (12%)	1 (2%)	9	48
77	Q1	23/25 (92%)	21 (91%)	2 (9%)	0	100	100
77	q1	23/25 (92%)	23 (100%)	0	0	100	100
78	Q2	103/105 (98%)	78 (76%)	19 (18%)	6 (6%)	2	20
78	q2	103/105 (98%)	90 (87%)	11 (11%)	2 (2%)	10	49
79	Q3	89/91 (98%)	74 (83%)	12 (14%)	3 (3%)	5	36
79	q3	89/91 (98%)	64 (72%)	21 (24%)	4 (4%)	3	27

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
80	c0	82/96 (85%)	62 (76%)	10 (12%)	10 (12%)	0	5
82	p0	117/311 (38%)	96 (82%)	16 (14%)	5 (4%)	3	29
All	All	22204/23954 (93%)	17573 (79%)	3238 (15%)	1393 (6%)	2	18

All (1393) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	4	PRO
2	S0	36	TYR
2	S0	158	VAL
3	S1	37	THR
3	S1	49	ASN
3	S1	58	SER
3	S1	132	ASP
3	S1	158	SER
3	S1	177	GLN
3	S1	181	LEU
3	S1	182	ALA
3	S1	206	PRO
3	S1	213	ARG
3	S1	221	PRO
4	S2	91	ARG
4	S2	95	ARG
4	S2	148	LEU
5	S3	62	ASN
5	S3	65	ARG
5	S3	220	PRO
6	S4	142	HIS
7	S5	26	ALA
7	S5	35	GLN
7	S5	39	GLU
7	S5	51	VAL
7	S5	63	GLN
7	S5	153	GLY
8	S6	132	ARG
8	S6	154	ARG
8	S6	173	PRO
9	S7	30	SER
9	S7	64	VAL
9	S7	74	GLN
9	S7	116	ARG

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Mol	Chain	Res	Type
9	S7	131	PHE
9	S7	134	GLU
10	S8	52	ASN
10	S8	149	SER
11	S9	93	LEU
11	S9	134	ILE
12	C0	60	SER
12	C0	81	ASN
12	C0	87	VAL
12	C0	88	PRO
13	C1	7	VAL
14	C2	91	VAL
14	C2	127	GLY
15	C3	22	ALA
16	C4	39	ILE
16	C4	51	ASP
16	C4	124	ASP
16	C4	126	THR
17	C5	39	ALA
17	C5	125	PRO
17	C5	126	VAL
18	C6	40	GLU
18	C6	41	PRO
19	C7	23	LYS
19	C7	85	VAL
19	C7	86	PRO
19	C7	88	VAL
20	C8	14	ILE
20	C8	82	PRO
20	C8	91	ASP
20	C8	92	ILE
21	C9	31	PRO
21	C9	53	TRP
23	D1	2	GLU
23	D1	6	GLY
24	D2	78	ARG
24	D2	83	ILE
25	D3	70	LYS
25	D3	92	CYS
26	D4	6	THR
27	D5	41	ILE
27	D5	43	ASP

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Mol	Chain	Res	Type
27	D5	44	GLN
27	D5	71	ILE
27	D5	97	LYS
28	D6	3	LYS
28	D6	45	VAL
28	D6	65	PRO
28	D6	82	ARG
28	D6	84	VAL
28	D6	85	ARG
28	D6	86	VAL
29	D7	62	ILE
32	E0	47	VAL
33	E1	105	TYR
33	E1	111	GLU
34	SR	161	LYS
34	SR	238	ASP
34	SR	318	ALA
35	SM	42	ALA
35	SM	140	ASP
40	L3	3	HIS
40	L3	4	ARG
40	L3	136	LYS
40	L3	140	ASP
40	L3	142	ALA
40	L3	155	ALA
40	L3	187	SER
41	L4	4	PRO
41	L4	15	ALA
41	L4	90	PHE
41	L4	130	ALA
41	L4	131	VAL
41	L4	146	PRO
41	L4	270	SER
41	L4	311	HIS
41	L4	339	LEU
42	L5	59	ASP
42	L5	85	ARG
42	L5	233	ALA
42	L5	234	ASP
42	L5	253	PHE
42	L5	295	GLY
43	L6	98	VAL

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Mol	Chain	Res	Type
44	L7	26	VAL
44	L7	55	TYR
45	L8	25	PRO
45	L8	31	PRO
46	L9	50	ASN
47	M0	142	ASP
47	M0	145	LYS
47	M0	194	GLY
47	M0	218	ALA
48	M1	8	PRO
48	M1	11	ASP
48	M1	115	LYS
48	M1	138	VAL
48	M1	140	ARG
48	M1	165	GLN
49	M3	47	ALA
49	M3	50	PRO
49	M3	51	LEU
49	M3	129	ASN
49	M3	165	SER
50	M4	8	LYS
50	M4	9	ALA
50	M4	136	ALA
51	M5	74	PRO
51	M5	75	VAL
51	M5	187	ARG
52	M6	93	ALA
52	M6	94	ARG
52	M6	111	PRO
53	M7	127	ARG
53	M7	157	VAL
55	M9	128	LYS
56	N0	167	ARG
58	N2	31	ALA
60	N4	64	THR
60	N4	81	PRO
63	N7	17	ARG
63	N7	30	ASP
63	N7	125	GLY
64	N8	27	LYS
64	N8	66	ALA
67	O1	83	GLU

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Mol	Chain	Res	Type
71	O5	119	LYS
72	O6	27	SER
72	O6	28	TYR
72	O6	33	ALA
75	O9	3	ALA
76	Q0	78	ILE
76	Q0	79	GLU
78	Q2	30	ALA
78	Q2	100	LYS
2	s0	4	PRO
2	s0	92	HIS
2	s0	111	ILE
2	s0	164	ASN
2	s0	189	VAL
2	s0	206	ASP
3	s1	206	PRO
3	s1	210	ILE
3	s1	223	PHE
4	s2	92	ALA
4	s2	107	SER
5	s3	61	GLU
5	s3	211	PRO
5	s3	216	PRO
5	s3	217	ILE
5	s3	220	PRO
6	s4	94	ALA
6	s4	104	ASP
6	s4	118	GLU
6	s4	163	ASP
6	s4	205	PHE
7	s5	28	PRO
7	s5	36	ALA
7	s5	43	PHE
7	s5	184	PHE
8	s6	126	ASP
8	s6	153	VAL
8	s6	154	ARG
8	s6	173	PRO
8	s6	174	LYS
9	s7	30	SER
9	s7	64	VAL
9	s7	66	SER

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Mol	Chain	Res	Type
9	s7	67	LEU
9	s7	131	PHE
10	s8	101	ILE
80	c0	2	LEU
80	c0	83	PRO
13	c1	40	LEU
13	c1	133	LYS
13	c1	145	ALA
15	c3	12	SER
15	c3	60	VAL
15	c3	66	ILE
15	c3	137	PRO
16	c4	51	ASP
16	c4	126	THR
17	c5	11	VAL
17	c5	17	TYR
17	c5	50	THR
17	c5	51	SER
17	c5	52	LYS
17	c5	126	VAL
17	c5	127	ARG
17	c5	131	ALA
17	c5	132	GLY
18	c6	42	GLU
18	c6	116	LEU
19	c7	88	VAL
19	c7	103	ASP
20	c8	18	LEU
21	c9	29	GLU
21	c9	33	TYR
21	c9	34	VAL
22	d0	15	GLN
22	d0	51	VAL
22	d0	118	VAL
24	d2	56	HIS
26	d4	30	PRO
26	d4	33	ALA
26	d4	35	VAL
26	d4	53	ASP
27	d5	87	GLY
27	d5	104	ALA
29	d7	59	CYS

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Mol	Chain	Res	Type
29	d7	75	GLU
30	d8	32	PHE
31	d9	7	TRP
32	e0	60	PRO
33	e1	79	LYS
33	e1	83	LYS
33	e1	84	VAL
33	e1	87	THR
33	e1	92	LYS
33	e1	98	VAL
33	e1	102	VAL
33	e1	103	LEU
33	e1	106	TYR
34	sR	163	ASP
34	sR	165	ASP
34	sR	318	ALA
39	l2	13	GLY
39	l2	14	SER
39	l2	130	SER
39	l2	144	ASN
39	l2	239	ALA
40	l3	129	ALA
40	l3	200	GLU
41	l4	25	VAL
41	l4	142	VAL
41	l4	146	PRO
41	l4	301	PRO
41	l4	311	HIS
42	l5	113	LEU
42	l5	178	ASN
42	l5	258	LYS
42	l5	260	PHE
42	l5	270	LYS
43	l6	45	GLY
43	l6	98	VAL
44	l7	54	GLU
45	l8	25	PRO
45	l8	34	PHE
45	l8	122	LYS
45	l8	124	ASP
45	l8	133	LYS
45	l8	240	ASN

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Mol	Chain	Res	Type
47	m0	82	ARG
47	m0	207	GLU
48	m1	8	PRO
48	m1	9	MET
48	m1	10	ARG
48	m1	94	ARG
48	m1	111	ASP
48	m1	145	LYS
48	m1	173	ASP
49	m3	44	ALA
49	m3	45	LYS
49	m3	47	ALA
49	m3	76	THR
49	m3	134	GLU
49	m3	150	PRO
50	m4	27	GLN
50	m4	137	LYS
51	m5	184	LYS
53	m7	66	SER
54	m8	112	ALA
55	m9	36	ASN
55	m9	112	ALA
57	n1	135	PRO
58	n2	50	LEU
60	n4	25	ASP
60	n4	64	THR
60	n4	134	GLN
61	n5	40	LEU
61	n5	44	PRO
61	n5	45	LYS
61	n5	136	ALA
62	n6	84	LYS
62	n6	125	LYS
63	n7	4	PHE
63	n7	125	GLY
64	n8	28	HIS
64	n8	94	ALA
65	n9	21	ILE
66	o0	85	PHE
66	o0	104	LEU
67	o1	26	LYS
67	o1	82	GLU

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Mol	Chain	Res	Type
67	o1	83	GLU
67	o1	84	ASP
69	o3	60	ARG
71	o5	119	LYS
72	o6	13	LYS
72	o6	33	ALA
73	o7	55	ARG
73	o7	70	VAL
73	o7	85	LYS
74	o8	18	ALA
76	q0	78	ILE
79	q3	61	LYS
82	p0	68	SER
82	p0	93	LEU
2	S0	5	ALA
2	S0	140	ASN
2	S0	192	THR
2	S0	202	TYR
3	S1	62	LYS
3	S1	63	GLY
3	S1	147	ALA
3	S1	223	PHE
4	S2	92	ALA
4	S2	106	ASP
4	S2	107	SER
4	S2	229	LEU
4	S2	247	ALA
5	S3	93	ASP
5	S3	195	SER
6	S4	104	ASP
6	S4	242	LYS
7	S5	33	VAL
7	S5	43	PHE
7	S5	150	GLY
8	S6	25	ARG
8	S6	149	LYS
8	S6	152	ASP
9	S7	29	ASN
9	S7	32	PRO
9	S7	67	LEU
10	S8	22	ARG
10	S8	79	ALA

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Mol	Chain	Res	Type
10	S8	120	THR
10	S8	152	ILE
10	S8	154	SER
11	S9	9	SER
11	S9	18	PRO
11	S9	98	ALA
11	S9	118	LEU
13	C1	3	THR
13	C1	4	GLU
13	C1	30	ARG
13	C1	55	ASP
13	C1	75	VAL
14	C2	25	GLU
14	C2	42	ALA
14	C2	83	GLU
14	C2	89	ILE
14	C2	125	ASN
14	C2	126	TRP
15	C3	68	GLY
15	C3	138	ASN
16	C4	38	THR
16	C4	42	VAL
16	C4	125	SER
18	C6	32	ASN
19	C7	9	VAL
19	C7	124	VAL
20	C8	60	GLU
20	C8	76	PRO
22	D0	49	ASN
23	D1	15	ARG
25	D3	3	LYS
25	D3	96	VAL
25	D3	112	LYS
26	D4	4	ALA
26	D4	36	SER
26	D4	53	ASP
27	D5	39	ALA
27	D5	88	ILE
28	D6	18	VAL
28	D6	35	ALA
28	D6	36	ILE
28	D6	47	ALA

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Mol	Chain	Res	Type
29	D7	38	PRO
29	D7	63	LEU
31	D9	20	GLN
32	E0	13	LYS
33	E1	83	LYS
33	E1	84	VAL
33	E1	96	LYS
33	E1	106	TYR
33	E1	128	ALA
33	E1	138	ARG
34	SR	98	GLU
34	SR	194	GLY
34	SR	237	GLN
35	SM	39	PRO
35	SM	87	THR
35	SM	99	LYS
35	SM	100	THR
35	SM	139	GLU
39	L2	13	GLY
39	L2	47	GLN
39	L2	78	ALA
40	L3	5	LYS
40	L3	38	SER
40	L3	317	ILE
41	L4	5	GLN
41	L4	233	LEU
41	L4	292	SER
41	L4	338	LYS
41	L4	349	THR
42	L5	7	ALA
42	L5	72	ASP
42	L5	110	LEU
42	L5	137	ASP
42	L5	178	ASN
42	L5	188	GLU
42	L5	215	ASP
42	L5	258	LYS
42	L5	292	ALA
44	L7	91	GLY
44	L7	158	LYS
44	L7	159	GLN
44	L7	163	LEU

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Mol	Chain	Res	Type
45	L8	36	ILE
45	L8	204	ARG
45	L8	254	ASP
46	L9	2	LYS
46	L9	59	ASN
47	M0	207	GLU
48	M1	24	GLY
48	M1	95	ASN
48	M1	108	GLU
48	M1	114	ILE
48	M1	137	ARG
48	M1	152	HIS
49	M3	88	ALA
49	M3	141	ALA
49	M3	166	ALA
49	M3	193	ALA
50	M4	36	VAL
50	M4	135	LEU
51	M5	81	TYR
51	M5	83	LYS
51	M5	179	LYS
52	M6	66	LYS
53	M7	53	ASP
54	M8	41	ASP
54	M8	98	LYS
55	M9	53	LYS
55	M9	111	ASP
56	N0	142	GLN
57	N1	122	GLN
57	N1	125	ALA
58	N2	11	ILE
58	N2	59	ASP
58	N2	60	GLY
59	N3	131	SER
61	N5	62	VAL
62	N6	84	LYS
63	N7	35	SER
64	N8	47	LYS
64	N8	76	ASP
64	N8	97	GLU
64	N8	117	ARG
67	O1	6	ASP

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Mol	Chain	Res	Type
67	O1	84	ASP
71	O5	89	ARG
72	O6	64	SER
74	O8	33	LYS
78	Q2	15	LYS
78	Q2	18	ARG
79	Q3	51	ALA
2	s0	8	ASP
3	s1	21	VAL
3	s1	39	GLU
3	s1	82	ARG
3	s1	93	GLY
3	s1	147	ALA
3	s1	218	LEU
4	s2	163	GLY
4	s2	225	LEU
4	s2	234	PRO
5	s3	179	GLN
6	s4	11	ARG
6	s4	12	LEU
6	s4	24	SER
6	s4	119	ALA
6	s4	195	ILE
6	s4	196	VAL
7	s5	39	GLU
7	s5	98	MET
7	s5	101	GLY
8	s6	68	LEU
8	s6	131	LYS
9	s7	15	GLU
9	s7	34	LEU
9	s7	74	GLN
9	s7	144	VAL
9	s7	158	ASP
10	s8	122	GLY
10	s8	136	SER
11	s9	22	SER
11	s9	91	LYS
11	s9	99	LEU
80	c0	69	THR
80	c0	82	LEU
13	c1	7	VAL

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Mol	Chain	Res	Type
13	c1	128	CYS
14	c2	101	ALA
15	c3	29	SER
15	c3	108	ASP
15	c3	139	TRP
16	c4	91	THR
17	c5	68	PRO
17	c5	69	GLU
17	c5	125	PRO
18	c6	39	VAL
18	c6	40	GLU
19	c7	99	VAL
20	c8	14	ILE
20	c8	65	GLU
20	c8	135	GLY
21	c9	100	ILE
22	d0	49	ASN
22	d0	52	LYS
22	d0	96	PRO
25	d3	27	ASN
26	d4	78	SER
27	d5	38	HIS
27	d5	85	LYS
28	d6	8	ASN
28	d6	13	LYS
28	d6	28	LYS
28	d6	34	LYS
29	d7	3	LEU
31	d9	6	VAL
32	e0	6	GLY
33	e1	85	TYR
33	e1	100	LEU
33	e1	127	GLY
33	e1	136	LYS
33	e1	137	ASP
34	sR	145	LEU
34	sR	160	GLU
34	sR	237	GLN
35	sM	36	ASP
39	l2	24	GLN
39	l2	142	ASP
39	l2	143	GLU

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Mol	Chain	Res	Type
39	l2	212	GLY
40	l3	3	HIS
40	l3	302	LYS
40	l3	386	ASP
41	l4	15	ALA
41	l4	154	THR
41	l4	231	ALA
41	l4	233	LEU
41	l4	305	ALA
42	l5	12	TYR
42	l5	30	TYR
43	l6	93	VAL
43	l6	172	HIS
44	l7	158	LYS
44	l7	217	PRO
44	l7	223	PHE
45	l8	26	LEU
45	l8	81	THR
45	l8	121	SER
45	l8	146	LYS
45	l8	208	GLU
45	l8	223	ALA
45	l8	237	ILE
45	l8	239	GLY
46	l9	144	ILE
47	m0	3	ARG
47	m0	25	ALA
47	m0	145	LYS
47	m0	156	ARG
47	m0	175	ASN
47	m0	195	ALA
47	m0	196	PHE
48	m1	95	ASN
49	m3	37	ASN
49	m3	50	PRO
50	m4	28	SER
51	m5	76	PRO
51	m5	155	VAL
51	m5	183	THR
52	m6	5	PRO
52	m6	16	VAL
54	m8	30	VAL

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Mol	Chain	Res	Type
54	m8	31	LYS
54	m8	84	VAL
54	m8	95	GLU
54	m8	97	PRO
54	m8	99	THR
54	m8	113	LYS
55	m9	5	ARG
56	n0	118	PHE
56	n0	139	TYR
60	n4	7	SER
60	n4	26	SER
60	n4	63	ILE
60	n4	83	THR
61	n5	38	LEU
61	n5	47	ALA
61	n5	77	GLU
62	n6	126	LEU
63	n7	34	LYS
63	n7	41	ALA
63	n7	70	PRO
63	n7	104	PRO
63	n7	129	TRP
64	n8	47	LYS
64	n8	129	PHE
65	n9	33	LYS
66	o0	52	ARG
66	o0	100	ILE
68	o2	5	PRO
68	o2	125	ARG
69	o3	61	GLY
70	o4	79	SER
71	o5	99	GLN
72	o6	98	ARG
73	o7	54	LYS
73	o7	87	SER
74	o8	17	ARG
78	q2	77	CYS
2	S0	27	ARG
2	S0	30	GLN
2	S0	39	ASN
2	S0	49	ASN
2	S0	185	ARG

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Mol	Chain	Res	Type
3	S1	26	ARG
3	S1	35	PRO
3	S1	54	LEU
3	S1	148	ASN
3	S1	209	ASN
4	S2	35	TRP
4	S2	39	THR
5	S3	196	ARG
5	S3	216	PRO
6	S4	26	CYS
6	S4	66	MET
6	S4	195	ILE
7	S5	58	LEU
8	S6	69	LEU
8	S6	138	ALA
8	S6	146	GLY
8	S6	148	SER
8	S6	174	LYS
9	S7	155	ASP
10	S8	153	GLU
11	S9	15	PRO
11	S9	16	LYS
11	S9	164	PHE
11	S9	169	PRO
12	C0	64	TYR
13	C1	51	GLY
13	C1	145	ALA
13	C1	146	ALA
14	C2	101	ALA
14	C2	119	SER
14	C2	131	ASP
15	C3	27	LYS
15	C3	28	LEU
16	C4	18	ARG
16	C4	92	LYS
17	C5	29	SER
17	C5	51	SER
17	C5	52	LYS
17	C5	54	ALA
17	C5	101	ALA
17	C5	127	ARG
20	C8	144	ARG

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Mol	Chain	Res	Type
21	C9	24	ARG
21	C9	28	LEU
21	C9	39	THR
21	C9	130	ARG
22	D0	17	GLN
23	D1	7	GLN
23	D1	18	SER
23	D1	42	GLU
23	D1	44	ARG
24	D2	30	SER
24	D2	66	ASN
24	D2	100	GLY
25	D3	40	SER
25	D3	114	LYS
26	D4	34	ASN
26	D4	35	VAL
26	D4	60	PHE
28	D6	46	GLU
28	D6	63	ALA
28	D6	66	LYS
30	D8	36	THR
31	D9	8	PHE
31	D9	11	PRO
32	E0	51	ASN
33	E1	98	VAL
33	E1	148	TYR
34	SR	146	GLY
35	SM	52	PRO
35	SM	64	LYS
35	SM	86	ASN
35	SM	111	GLY
39	L2	143	GLU
39	L2	152	SER
40	L3	96	PRO
41	L4	14	GLU
41	L4	16	THR
41	L4	268	ALA
41	L4	304	GLN
42	L5	20	PHE
42	L5	21	ARG
42	L5	84	PRO
42	L5	139	PRO

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Mol	Chain	Res	Type
42	L5	259	LYS
43	L6	151	LYS
45	L8	39	ALA
45	L8	47	SER
45	L8	122	LYS
45	L8	196	ALA
46	L9	66	ALA
46	L9	96	HIS
46	L9	110	LYS
47	M0	82	ARG
47	M0	195	ALA
48	M1	12	LEU
49	M3	76	THR
49	M3	131	LYS
49	M3	133	PRO
50	M4	11	ASN
51	M5	94	TYR
53	M7	3	ARG
53	M7	63	PHE
53	M7	160	ALA
53	M7	164	LYS
56	N0	107	TYR
57	N1	16	GLN
58	N2	50	LEU
59	N3	82	ALA
60	N4	77	LYS
60	N4	97	LYS
62	N6	19	TYR
62	N6	125	LYS
63	N7	3	LYS
63	N7	102	GLU
63	N7	103	GLN
63	N7	105	SER
64	N8	78	LEU
64	N8	79	TRP
65	N9	25	LYS
69	O3	40	ASP
69	O3	91	ALA
70	O4	17	SER
70	O4	62	TYR
72	O6	21	THR
72	O6	34	SER

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Mol	Chain	Res	Type
72	O6	52	PRO
72	O6	98	ARG
74	O8	62	ALA
78	Q2	34	SER
79	Q3	28	LYS
2	s0	30	GLN
2	s0	95	ALA
2	s0	124	THR
3	s1	106	THR
3	s1	129	THR
3	s1	209	ASN
4	s2	182	PRO
4	s2	238	SER
5	s3	33	GLY
5	s3	76	ARG
5	s3	90	ARG
5	s3	161	GLY
6	s4	95	THR
6	s4	164	LEU
6	s4	214	LEU
7	s5	55	ASP
7	s5	56	ALA
7	s5	204	GLY
8	s6	25	ARG
8	s6	117	GLY
8	s6	138	ALA
8	s6	152	ASP
8	s6	216	LEU
9	s7	111	LYS
9	s7	133	THR
9	s7	155	ASP
11	s9	167	ALA
80	c0	30	ALA
14	c2	39	ASP
14	c2	58	LEU
14	c2	66	VAL
14	c2	89	ILE
14	c2	119	SER
14	c2	131	ASP
15	c3	140	LYS
16	c4	50	ALA
17	c5	10	ARG

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Mol	Chain	Res	Type
17	c5	130	ARG
17	c5	135	THR
18	c6	142	TYR
19	c7	86	PRO
19	c7	96	SER
19	c7	98	GLY
20	c8	55	HIS
20	c8	61	LEU
20	c8	85	PHE
21	c9	28	LEU
21	c9	49	ASP
22	d0	45	ALA
23	d1	42	GLU
25	d3	13	ARG
25	d3	101	GLU
26	d4	36	SER
27	d5	44	GLN
29	d7	58	SER
33	e1	81	LYS
33	e1	145	HIS
34	sR	16	HIS
34	sR	47	LEU
34	sR	96	THR
34	sR	149	ASP
34	sR	161	LYS
34	sR	186	PHE
35	sM	47	ALA
35	sM	50	ASN
35	sM	65	THR
39	l2	32	LEU
39	l2	172	GLY
39	l2	215	ASN
40	l3	117	ARG
41	l4	14	GLU
41	l4	24	ALA
41	l4	90	PHE
41	l4	341	SER
42	l5	11	ALA
42	l5	228	ALA
42	l5	245	GLU
43	l6	10	TYR
44	l7	128	LYS

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Mol	Chain	Res	Type
44	l7	159	GLN
44	l7	191	VAL
45	l8	39	ALA
45	l8	196	ALA
45	l8	203	VAL
45	l8	233	TRP
46	l9	189	GLU
47	m0	170	LYS
48	m1	39	GLN
48	m1	114	ILE
48	m1	165	GLN
49	m3	43	ALA
49	m3	152	THR
50	m4	87	ALA
51	m5	81	TYR
51	m5	165	THR
52	m6	28	LEU
52	m6	47	PHE
54	m8	23	ASN
55	m9	155	LEU
55	m9	161	ALA
59	n3	54	LEU
60	n4	76	VAL
60	n4	133	THR
63	n7	103	GLN
63	n7	105	SER
63	n7	124	ALA
63	n7	127	ASN
64	n8	76	ASP
65	n9	24	PRO
65	n9	39	PHE
68	o2	6	HIS
68	o2	124	GLY
70	o4	51	LEU
70	o4	82	ALA
70	o4	100	ILE
71	o5	14	LYS
72	o6	28	TYR
73	o7	84	SER
2	S0	62	ARG
2	S0	103	THR
2	S0	115	PHE

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Mol	Chain	Res	Type
2	S0	189	VAL
3	S1	81	PHE
4	S2	145	GLY
4	S2	150	GLN
5	S3	51	ARG
5	S3	217	ILE
6	S4	23	LEU
6	S4	200	ARG
7	S5	64	VAL
7	S5	127	GLN
8	S6	20	ASP
8	S6	79	LYS
9	S7	53	GLY
9	S7	98	ILE
10	S8	40	ALA
10	S8	59	ARG
11	S9	147	MET
11	S9	162	SER
15	C3	137	PRO
16	C4	40	ALA
16	C4	50	ALA
16	C4	75	GLY
17	C5	69	GLU
18	C6	113	ASP
18	C6	142	TYR
19	C7	87	GLU
20	C8	142	GLY
21	C9	86	ARG
23	D1	16	LYS
23	D1	26	ALA
25	D3	41	SER
25	D3	131	SER
26	D4	5	VAL
26	D4	54	ALA
27	D5	94	LYS
28	D6	11	ASN
28	D6	62	TYR
28	D6	64	LEU
29	D7	12	ALA
29	D7	53	ALA
31	D9	6	VAL
33	E1	85	TYR

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Mol	Chain	Res	Type
33	E1	86	THR
33	E1	87	THR
33	E1	102	VAL
33	E1	137	ASP
35	SM	81	THR
35	SM	82	THR
35	SM	88	ARG
35	SM	101	ASP
39	L2	15	ILE
39	L2	130	SER
39	L2	153	GLY
39	L2	217	GLN
40	L3	29	VAL
40	L3	175	LYS
40	L3	255	CYS
40	L3	385	LYS
41	L4	140	HIS
41	L4	153	SER
41	L4	183	LYS
41	L4	313	LEU
42	L5	19	PRO
42	L5	185	PHE
42	L5	213	ASP
42	L5	260	PHE
43	L6	97	ASN
44	L7	24	GLU
44	L7	25	GLN
44	L7	191	VAL
46	L9	49	ASN
46	L9	98	PRO
47	M0	77	THR
48	M1	117	ASP
48	M1	132	ASN
48	M1	151	SER
49	M3	136	GLU
50	M4	106	ARG
51	M5	40	ALA
53	M7	161	ALA
56	N0	24	LEU
56	N0	106	LEU
57	N1	124	VAL
58	N2	51	GLY

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Mol	Chain	Res	Type
59	N3	67	PRO
60	N4	46	PRO
63	N7	4	PHE
63	N7	36	HIS
63	N7	128	GLN
64	N8	96	LYS
70	O4	77	GLY
71	O5	109	ILE
72	O6	78	GLY
72	O6	81	THR
76	Q0	97	ARG
2	s0	68	PRO
2	s0	152	PRO
2	s0	191	ARG
2	s0	200	ASP
3	s1	55	LYS
3	s1	179	SER
4	s2	217	ALA
5	s3	44	THR
5	s3	93	ASP
5	s3	219	ALA
6	s4	80	THR
6	s4	142	HIS
6	s4	166	SER
6	s4	168	LYS
6	s4	242	LYS
7	s5	42	LEU
7	s5	126	ASP
10	s8	94	ASN
10	s8	100	ALA
10	s8	114	GLU
11	s9	162	SER
80	c0	23	ALA
80	c0	31	LYS
80	c0	35	ILE
14	c2	40	GLY
14	c2	90	LYS
15	c3	27	LYS
16	c4	12	GLN
16	c4	37	GLU
16	c4	124	ASP
17	c5	14	THR

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Mol	Chain	Res	Type
17	c5	80	MET
18	c6	99	GLU
20	c8	33	THR
20	c8	145	ARG
23	d1	10	GLU
23	d1	77	GLY
24	d2	99	PHE
25	d3	65	ASN
25	d3	70	LYS
26	d4	58	PHE
26	d4	68	LYS
28	d6	35	ALA
30	d8	61	ARG
32	e0	61	SER
33	e1	112	GLY
33	e1	128	ALA
33	e1	146	SER
33	e1	148	TYR
34	sR	226	ALA
35	sM	64	LYS
35	sM	84	LYS
39	l2	80	GLU
39	l2	96	LEU
39	l2	127	ALA
39	l2	170	ALA
40	l3	23	ALA
40	l3	224	HIS
40	l3	235	THR
40	l3	385	LYS
41	l4	23	PRO
41	l4	282	SER
41	l4	328	ASN
41	l4	345	GLU
41	l4	346	LYS
42	l5	7	ALA
42	l5	103	LEU
42	l5	114	GLY
42	l5	119	TYR
43	l6	171	PRO
47	m0	12	GLN
47	m0	219	ALA
48	m1	108	GLU

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Mol	Chain	Res	Type
49	m3	60	ALA
49	m3	93	ILE
49	m3	135	ALA
50	m4	129	TYR
54	m8	108	ALA
59	n3	68	GLU
61	n5	48	SER
61	n5	62	VAL
62	n6	6	LEU
62	n6	49	PRO
63	n7	14	VAL
63	n7	134	LEU
66	o0	51	LEU
66	o0	96	GLY
69	o3	59	VAL
70	o4	59	PRO
71	o5	39	PRO
73	o7	67	LEU
74	o8	37	PRO
79	q3	20	SER
82	p0	33	VAL
82	p0	71	PRO
2	S0	126	PRO
2	S0	195	TRP
3	S1	38	PHE
3	S1	60	ALA
3	S1	82	ARG
3	S1	210	ILE
4	S2	215	PHE
4	S2	235	LEU
5	S3	59	LEU
5	S3	74	GLN
6	S4	150	PRO
7	S5	65	ARG
9	S7	132	PRO
9	S7	133	THR
9	S7	186	PRO
11	S9	99	LEU
11	S9	167	ALA
12	C0	89	GLY
12	C0	93	GLN
14	C2	130	THR

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Mol	Chain	Res	Type
16	C4	73	GLU
16	C4	96	PRO
16	C4	114	ARG
20	C8	7	GLU
21	C9	29	GLU
22	D0	55	PRO
22	D0	73	GLY
23	D1	85	TYR
24	D2	22	LYS
25	D3	97	ASP
26	D4	100	VAL
27	D5	54	VAL
27	D5	62	VAL
28	D6	5	ARG
32	E0	59	GLY
33	E1	100	LEU
33	E1	110	ALA
33	E1	118	ARG
33	E1	144	CYS
34	SR	15	GLY
34	SR	163	ASP
35	SM	90	ALA
39	L2	127	ALA
39	L2	251	LYS
40	L3	83	PRO
40	L3	135	ALA
40	L3	300	ARG
41	L4	232	SER
42	L5	91	GLY
42	L5	153	THR
42	L5	251	PRO
45	L8	157	VAL
46	L9	175	PHE
48	M1	74	PRO
48	M1	167	TYR
52	M6	110	PRO
53	M7	36	ILE
55	M9	130	ASN
62	N6	58	VAL
62	N6	101	PRO
63	N7	133	LYS
64	N8	24	LYS

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Mol	Chain	Res	Type
65	N9	21	ILE
65	N9	32	LEU
68	O2	101	SER
69	O3	59	VAL
70	O4	12	PRO
71	O5	75	TYR
71	O5	98	SER
73	O7	71	SER
74	O8	74	LYS
75	O9	36	ARG
78	Q2	77	CYS
79	Q3	7	LYS
2	s0	10	THR
2	s0	80	THR
2	s0	81	PHE
2	s0	109	ASN
2	s0	140	ASN
3	s1	22	ASP
3	s1	35	PRO
4	s2	91	ARG
4	s2	150	GLN
4	s2	235	LEU
5	s3	195	SER
6	s4	90	ILE
6	s4	215	ASP
6	s4	245	LYS
7	s5	29	ILE
10	s8	78	ILE
10	s8	105	ASP
11	s9	6	ARG
11	s9	147	MET
80	c0	32	HIS
13	c1	55	ASP
13	c1	61	THR
14	c2	82	PRO
14	c2	87	PRO
22	d0	13	GLU
26	d4	51	GLU
32	e0	47	VAL
32	e0	54	ARG
34	sR	17	ASN
35	sM	43	ASP

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Mol	Chain	Res	Type
35	sM	63	ASP
35	sM	67	GLY
40	l3	206	ASP
41	l4	62	ALA
41	l4	144	LYS
41	l4	270	SER
41	l4	342	LYS
42	l5	277	LEU
43	l6	138	GLN
43	l6	147	ALA
44	l7	127	LEU
45	l8	69	LEU
46	l9	167	VAL
47	m0	119	TRP
47	m0	176	LEU
48	m1	117	ASP
48	m1	152	HIS
48	m1	153	LYS
49	m3	29	ALA
50	m4	95	ALA
51	m5	187	ARG
52	m6	13	GLY
53	m7	75	GLU
53	m7	86	LYS
55	m9	28	GLU
56	n0	57	GLU
57	n1	58	GLN
61	n5	93	TYR
62	n6	83	ASP
64	n8	110	GLY
65	n9	23	LYS
67	o1	42	LEU
67	o1	86	LYS
67	o1	88	PRO
68	o2	4	LEU
68	o2	40	SER
72	o6	64	SER
78	q2	78	LYS
79	q3	17	ARG
79	q3	51	ALA
2	S0	11	PRO
2	S0	193	GLN

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Mol	Chain	Res	Type
3	S1	51	SER
6	S4	32	SER
7	S5	54	LYS
11	S9	163	PRO
12	C0	27	PHE
14	C2	87	PRO
18	C6	97	VAL
19	C7	63	LYS
25	D3	4	GLY
26	D4	51	GLU
33	E1	90	LYS
35	SM	12	VAL
40	L3	63	PRO
41	L4	174	ALA
42	L5	198	TYR
42	L5	223	PHE
44	L7	178	ILE
45	L8	30	THR
50	M4	4	ASP
50	M4	6	ILE
53	M7	88	VAL
57	N1	18	ASP
67	O1	7	VAL
72	O6	3	VAL
74	O8	37	PRO
6	s4	30	ARG
7	s5	60	ASP
8	s6	70	PRO
8	s6	156	PHE
8	s6	191	ARG
9	s7	163	ASP
10	s8	62	THR
11	s9	88	GLU
14	c2	26	ASP
15	c3	133	ALA
16	c4	132	ARG
20	c8	115	ARG
26	d4	84	LYS
33	e1	131	PHE
34	sR	231	MET
35	sM	42	ALA
35	sM	46	LYS

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Mol	Chain	Res	Type
39	l2	56	ALA
41	l4	159	ILE
44	l7	229	PHE
45	l8	216	SER
46	l9	110	LYS
48	m1	167	TYR
52	m6	162	VAL
66	o0	84	LEU
70	o4	74	ARG
71	o5	84	LYS
3	S1	176	VAL
4	S2	163	GLY
4	S2	223	GLY
9	S7	162	ILE
12	C0	92	ILE
18	C6	39	VAL
34	SR	28	GLY
43	L6	6	ALA
64	N8	15	VAL
2	s0	194	PRO
9	s7	63	PRO
10	s8	186	GLY
11	s9	168	ARG
80	c0	3	MET
14	c2	115	VAL
15	c3	22	ALA
16	c4	57	PRO
24	d2	6	VAL
27	d5	92	ILE
28	d6	59	TYR
29	d7	62	ILE
31	d9	11	PRO
39	l2	183	GLY
41	l4	277	PRO
44	l7	178	ILE
53	m7	78	VAL
57	n1	155	PRO
59	n3	16	GLY
59	n3	134	GLY
4	S2	151	PRO
11	S9	137	GLY
12	C0	35	ILE

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Mol	Chain	Res	Type
24	D2	77	PRO
33	E1	127	GLY
34	SR	105	GLY
42	L5	87	GLY
42	L5	125	VAL
49	M3	58	VAL
57	N1	81	GLY
60	N4	82	ILE
74	O8	70	PRO
5	s3	15	GLY
8	s6	69	LEU
10	s8	108	PRO
18	c6	4	VAL
20	c8	76	PRO
32	e0	45	VAL
34	sR	194	GLY
46	l9	172	ILE
13	C1	44	THR
35	SM	53	ARG
42	L5	83	LEU
50	M4	39	ILE
58	N2	22	PRO
60	N4	76	VAL
63	N7	70	PRO
72	O6	94	ILE
73	O7	29	VAL
5	s3	163	PRO
5	s3	180	GLY
16	c4	39	ILE
18	c6	97	VAL
29	d7	46	VAL
35	sM	56	GLY
40	l3	141	GLY
42	l5	91	GLY
42	l5	125	VAL
60	n4	132	GLY
73	o7	6	PRO
2	S0	70	PRO
3	S1	48	VAL
46	L9	108	GLY
55	M9	55	VAL
16	c4	131	GLY

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Mol	Chain	Res	Type
40	l3	83	PRO
40	l3	143	GLY
47	m0	47	PRO
49	m3	154	VAL
60	n4	15	PRO
63	n7	75	VAL
66	o0	10	ILE
82	p0	100	ILE
49	M3	130	GLY
57	N1	53	PRO
45	l8	182	GLY
55	m9	73	GLY
55	m9	113	GLY
58	n2	27	VAL
61	n5	52	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	
2	S0	173/209 (83%)	143 (83%)	30 (17%)	2	13
2	s0	173/209 (83%)	139 (80%)	34 (20%)	1	8
3	S1	191/223 (86%)	159 (83%)	32 (17%)	2	14
3	s1	192/223 (86%)	150 (78%)	42 (22%)	1	6
4	S2	176/204 (86%)	140 (80%)	36 (20%)	1	7
4	s2	176/204 (86%)	133 (76%)	43 (24%)	1	4
5	S3	182/194 (94%)	145 (80%)	37 (20%)	1	7
5	s3	182/194 (94%)	154 (85%)	28 (15%)	3	18
6	S4	221/221 (100%)	179 (81%)	42 (19%)	2	9
6	s4	221/221 (100%)	186 (84%)	35 (16%)	3	17
7	S5	173/190 (91%)	146 (84%)	27 (16%)	3	18
7	s5	173/190 (91%)	147 (85%)	26 (15%)	3	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	S6	193/201 (96%)	163 (84%)	30 (16%)	3	18
8	s6	187/201 (93%)	152 (81%)	35 (19%)	2	10
9	S7	165/169 (98%)	140 (85%)	25 (15%)	3	19
9	s7	166/169 (98%)	136 (82%)	30 (18%)	2	11
10	S8	150/161 (93%)	128 (85%)	22 (15%)	4	20
10	s8	150/161 (93%)	130 (87%)	20 (13%)	5	24
11	S9	158/165 (96%)	127 (80%)	31 (20%)	1	8
11	s9	158/165 (96%)	132 (84%)	26 (16%)	3	15
12	C0	77/98 (79%)	67 (87%)	10 (13%)	5	25
13	C1	129/129 (100%)	114 (88%)	15 (12%)	7	31
13	c1	129/129 (100%)	109 (84%)	20 (16%)	3	18
14	C2	88/106 (83%)	70 (80%)	18 (20%)	1	7
14	c2	88/106 (83%)	70 (80%)	18 (20%)	1	7
15	C3	127/127 (100%)	108 (85%)	19 (15%)	3	20
15	c3	127/127 (100%)	98 (77%)	29 (23%)	1	5
16	C4	81/104 (78%)	63 (78%)	18 (22%)	1	5
16	c4	97/104 (93%)	79 (81%)	18 (19%)	2	10
17	C5	101/117 (86%)	80 (79%)	21 (21%)	1	6
17	c5	103/117 (88%)	81 (79%)	22 (21%)	1	6
18	C6	117/118 (99%)	98 (84%)	19 (16%)	3	16
18	c6	118/118 (100%)	96 (81%)	22 (19%)	2	10
19	C7	109/124 (88%)	84 (77%)	25 (23%)	1	5
19	c7	106/124 (86%)	89 (84%)	17 (16%)	3	16
20	C8	128/128 (100%)	104 (81%)	24 (19%)	2	9
20	c8	128/128 (100%)	108 (84%)	20 (16%)	3	18
21	C9	115/115 (100%)	89 (77%)	26 (23%)	1	5
21	c9	115/115 (100%)	96 (84%)	19 (16%)	3	15
22	D0	100/113 (88%)	86 (86%)	14 (14%)	4	23
22	d0	103/113 (91%)	79 (77%)	24 (23%)	1	4
23	D1	74/74 (100%)	61 (82%)	13 (18%)	2	12
23	d1	74/74 (100%)	59 (80%)	15 (20%)	1	7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
24	D2	110/110 (100%)	86 (78%)	24 (22%)	1	6
24	d2	110/110 (100%)	90 (82%)	20 (18%)	2	11
25	D3	119/119 (100%)	94 (79%)	25 (21%)	1	6
25	d3	119/119 (100%)	94 (79%)	25 (21%)	1	6
26	D4	112/112 (100%)	94 (84%)	18 (16%)	3	16
26	d4	112/112 (100%)	94 (84%)	18 (16%)	3	16
27	D5	61/88 (69%)	46 (75%)	15 (25%)	1	4
27	d5	61/88 (69%)	51 (84%)	10 (16%)	3	15
28	D6	83/83 (100%)	62 (75%)	21 (25%)	1	3
28	d6	83/83 (100%)	66 (80%)	17 (20%)	1	7
29	D7	70/70 (100%)	61 (87%)	9 (13%)	5	26
29	d7	70/70 (100%)	57 (81%)	13 (19%)	2	10
30	D8	56/59 (95%)	44 (79%)	12 (21%)	1	6
30	d8	56/59 (95%)	48 (86%)	8 (14%)	4	22
31	D9	47/48 (98%)	41 (87%)	6 (13%)	5	26
31	d9	47/48 (98%)	38 (81%)	9 (19%)	2	9
32	E0	51/53 (96%)	41 (80%)	10 (20%)	1	8
32	e0	53/53 (100%)	39 (74%)	14 (26%)	0	3
33	E1	62/66 (94%)	49 (79%)	13 (21%)	1	6
33	e1	66/66 (100%)	49 (74%)	17 (26%)	0	3
34	SR	260/261 (100%)	230 (88%)	30 (12%)	7	31
34	sR	261/261 (100%)	237 (91%)	24 (9%)	11	43
35	SM	97/115 (84%)	80 (82%)	17 (18%)	2	13
35	sM	54/115 (47%)	37 (68%)	17 (32%)	0	2
39	L2	194/195 (100%)	155 (80%)	39 (20%)	1	7
39	l2	194/195 (100%)	160 (82%)	34 (18%)	2	13
40	L3	322/322 (100%)	246 (76%)	76 (24%)	1	4
40	l3	322/322 (100%)	258 (80%)	64 (20%)	1	8
41	L4	288/288 (100%)	240 (83%)	48 (17%)	3	14
41	l4	288/288 (100%)	235 (82%)	53 (18%)	2	10
42	L5	244/244 (100%)	199 (82%)	45 (18%)	2	10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
42	l5	243/244 (100%)	192 (79%)	51 (21%)	1	6
43	L6	134/152 (88%)	113 (84%)	21 (16%)	3	18
43	l6	135/152 (89%)	113 (84%)	22 (16%)	3	16
44	L7	186/204 (91%)	166 (89%)	20 (11%)	8	35
44	l7	187/204 (92%)	158 (84%)	29 (16%)	3	18
45	L8	191/207 (92%)	157 (82%)	34 (18%)	2	12
45	l8	177/207 (86%)	140 (79%)	37 (21%)	1	6
46	L9	171/171 (100%)	135 (79%)	36 (21%)	1	6
46	l9	171/171 (100%)	133 (78%)	38 (22%)	1	5
47	M0	180/186 (97%)	147 (82%)	33 (18%)	2	10
47	m0	182/186 (98%)	141 (78%)	41 (22%)	1	5
48	M1	147/149 (99%)	114 (78%)	33 (22%)	1	5
48	m1	147/149 (99%)	123 (84%)	24 (16%)	3	16
49	M3	154/158 (98%)	122 (79%)	32 (21%)	1	6
49	m3	154/158 (98%)	123 (80%)	31 (20%)	1	7
50	M4	107/108 (99%)	89 (83%)	18 (17%)	2	14
50	m4	108/108 (100%)	83 (77%)	25 (23%)	1	4
51	M5	175/175 (100%)	148 (85%)	27 (15%)	3	18
51	m5	175/175 (100%)	145 (83%)	30 (17%)	2	14
52	M6	160/161 (99%)	135 (84%)	25 (16%)	3	18
52	m6	160/161 (99%)	128 (80%)	32 (20%)	1	8
53	M7	145/145 (100%)	110 (76%)	35 (24%)	1	4
53	m7	125/145 (86%)	98 (78%)	27 (22%)	1	6
54	M8	150/150 (100%)	129 (86%)	21 (14%)	4	23
54	m8	150/150 (100%)	125 (83%)	25 (17%)	3	14
55	M9	153/153 (100%)	127 (83%)	26 (17%)	2	14
55	m9	153/153 (100%)	126 (82%)	27 (18%)	2	12
56	N0	156/156 (100%)	129 (83%)	27 (17%)	2	13
56	n0	156/156 (100%)	116 (74%)	40 (26%)	0	3
57	N1	136/136 (100%)	108 (79%)	28 (21%)	1	7
57	n1	136/136 (100%)	108 (79%)	28 (21%)	1	7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
58	N2	87/106 (82%)	72 (83%)	15 (17%)	2	13
58	n2	85/106 (80%)	69 (81%)	16 (19%)	2	9
59	N3	104/104 (100%)	76 (73%)	28 (27%)	0	3
59	n3	104/104 (100%)	90 (86%)	14 (14%)	5	24
60	N4	86/129 (67%)	72 (84%)	14 (16%)	3	16
60	n4	114/129 (88%)	94 (82%)	20 (18%)	2	13
61	N5	105/117 (90%)	77 (73%)	28 (27%)	0	3
61	n5	104/117 (89%)	82 (79%)	22 (21%)	1	6
62	N6	109/109 (100%)	90 (83%)	19 (17%)	2	13
62	n6	109/109 (100%)	89 (82%)	20 (18%)	2	10
63	N7	115/115 (100%)	95 (83%)	20 (17%)	2	13
63	n7	115/115 (100%)	93 (81%)	22 (19%)	2	9
64	N8	118/118 (100%)	94 (80%)	24 (20%)	1	7
64	n8	118/118 (100%)	94 (80%)	24 (20%)	1	7
65	N9	46/46 (100%)	39 (85%)	7 (15%)	3	19
65	n9	46/46 (100%)	38 (83%)	8 (17%)	2	13
66	O0	81/87 (93%)	64 (79%)	17 (21%)	1	6
66	o0	84/87 (97%)	65 (77%)	19 (23%)	1	5
67	O1	96/96 (100%)	78 (81%)	18 (19%)	2	9
67	o1	96/96 (100%)	79 (82%)	17 (18%)	2	12
68	O2	109/110 (99%)	94 (86%)	15 (14%)	4	23
68	o2	109/110 (99%)	87 (80%)	22 (20%)	1	7
69	O3	90/90 (100%)	72 (80%)	18 (20%)	1	8
69	o3	90/90 (100%)	76 (84%)	14 (16%)	3	18
70	O4	95/102 (93%)	77 (81%)	18 (19%)	2	9
70	o4	95/102 (93%)	81 (85%)	14 (15%)	4	20
71	O5	104/104 (100%)	89 (86%)	15 (14%)	4	21
71	o5	104/104 (100%)	83 (80%)	21 (20%)	1	7
72	O6	81/81 (100%)	58 (72%)	23 (28%)	0	2
72	o6	81/81 (100%)	55 (68%)	26 (32%)	0	2
73	O7	70/70 (100%)	54 (77%)	16 (23%)	1	5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
73	o7	70/70 (100%)	55 (79%)	15 (21%)	1	6
74	O8	68/68 (100%)	55 (81%)	13 (19%)	2	9
74	o8	68/68 (100%)	54 (79%)	14 (21%)	1	7
75	O9	45/45 (100%)	38 (84%)	7 (16%)	3	18
75	o9	45/45 (100%)	36 (80%)	9 (20%)	1	8
76	Q0	47/47 (100%)	38 (81%)	9 (19%)	2	9
76	q0	47/47 (100%)	38 (81%)	9 (19%)	2	9
77	Q1	23/23 (100%)	18 (78%)	5 (22%)	1	6
77	q1	23/23 (100%)	16 (70%)	7 (30%)	0	2
78	Q2	90/90 (100%)	72 (80%)	18 (20%)	1	8
78	q2	90/90 (100%)	71 (79%)	19 (21%)	1	6
79	Q3	71/71 (100%)	63 (89%)	8 (11%)	7	32
79	q3	71/71 (100%)	55 (78%)	16 (22%)	1	5
80	c0	73/78 (94%)	64 (88%)	9 (12%)	6	28
82	p0	105/232 (45%)	88 (84%)	17 (16%)	3	16
All	All	18856/19936 (95%)	15356 (81%)	3500 (19%)	2	10

All (3500) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	S0	6	THR
2	S0	9	LEU
2	S0	18	LEU
2	S0	37	VAL
2	S0	49	ASN
2	S0	50	VAL
2	S0	55	GLU
2	S0	57	LEU
2	S0	62	ARG
2	S0	84	ARG
2	S0	88	LYS
2	S0	101	ARG
2	S0	114	SER
2	S0	139	VAL
2	S0	140	ASN
2	S0	154	GLU
2	S0	157	ASP

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Mol	Chain	Res	Type
2	S0	168	HIS
2	S0	170	ILE
2	S0	172	LEU
2	S0	177	LEU
2	S0	185	ARG
2	S0	188	LEU
2	S0	189	VAL
2	S0	191	ARG
2	S0	193	GLN
2	S0	196	SER
2	S0	198	MET
2	S0	200	ASP
2	S0	204	TYR
3	S1	21	VAL
3	S1	25	THR
3	S1	29	TRP
3	S1	30	PHE
3	S1	31	ASP
3	S1	36	SER
3	S1	46	THR
3	S1	61	LEU
3	S1	70	LEU
3	S1	73	LEU
3	S1	78	ASP
3	S1	81	PHE
3	S1	96	LEU
3	S1	97	LEU
3	S1	103	MET
3	S1	105	PHE
3	S1	110	LEU
3	S1	111	ARG
3	S1	112	SER
3	S1	154	SER
3	S1	167	VAL
3	S1	180	THR
3	S1	181	LEU
3	S1	193	ILE
3	S1	198	GLU
3	S1	202	LYS
3	S1	212	VAL
3	S1	214	LYS
3	S1	218	LEU

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Mol	Chain	Res	Type
3	S1	220	GLN
3	S1	223	PHE
3	S1	225	VAL
4	S2	41	LEU
4	S2	58	LEU
4	S2	69	ILE
4	S2	70	ASP
4	S2	72	LEU
4	S2	73	LEU
4	S2	77	GLN
4	S2	86	VAL
4	S2	87	GLN
4	S2	89	GLN
4	S2	90	THR
4	S2	91	ARG
4	S2	94	GLN
4	S2	95	ARG
4	S2	96	THR
4	S2	97	ARG
4	S2	111	VAL
4	S2	113	LEU
4	S2	117	THR
4	S2	134	LEU
4	S2	140	ARG
4	S2	141	ARG
4	S2	148	LEU
4	S2	158	THR
4	S2	159	THR
4	S2	166	THR
4	S2	168	ARG
4	S2	169	LEU
4	S2	207	LEU
4	S2	222	TYR
4	S2	225	LEU
4	S2	226	THR
4	S2	235	LEU
4	S2	242	ILE
4	S2	244	SER
4	S2	245	ASP
5	S3	4	LEU
5	S3	21	LEU
5	S3	23	GLU

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Mol	Chain	Res	Type
5	S3	41	VAL
5	S3	62	ASN
5	S3	65	ARG
5	S3	66	ILE
5	S3	76	ARG
5	S3	84	ILE
5	S3	92	GLN
5	S3	94	ARG
5	S3	103	GLU
5	S3	105	MET
5	S3	111	ASN
5	S3	113	LEU
5	S3	115	ILE
5	S3	117	ARG
5	S3	124	ARG
5	S3	127	MET
5	S3	132	LYS
5	S3	134	CYS
5	S3	137	VAL
5	S3	151	LYS
5	S3	157	LEU
5	S3	158	ILE
5	S3	172	THR
5	S3	176	LEU
5	S3	178	ARG
5	S3	179	GLN
5	S3	181	VAL
5	S3	182	LEU
5	S3	189	MET
5	S3	190	ARG
5	S3	209	ILE
5	S3	217	ILE
5	S3	220	PRO
5	S3	223	LYS
6	S4	6	LYS
6	S4	7	LYS
6	S4	9	LEU
6	S4	12	LEU
6	S4	26	CYS
6	S4	30	ARG
6	S4	37	LYS
6	S4	38	LEU

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Mol	Chain	Res	Type
6	S4	42	LEU
6	S4	54	TYR
6	S4	62	LYS
6	S4	65	LEU
6	S4	77	ARG
6	S4	90	ILE
6	S4	92	LEU
6	S4	115	THR
6	S4	116	ASP
6	S4	123	LEU
6	S4	128	LYS
6	S4	130	GLN
6	S4	131	LEU
6	S4	180	LEU
6	S4	182	TYR
6	S4	187	ARG
6	S4	191	ARG
6	S4	192	ILE
6	S4	197	HIS
6	S4	206	ASP
6	S4	211	LYS
6	S4	215	ASP
6	S4	217	THR
6	S4	221	ARG
6	S4	227	VAL
6	S4	231	GLN
6	S4	238	LEU
6	S4	240	LYS
6	S4	242	LYS
6	S4	246	LEU
6	S4	248	ILE
6	S4	258	GLN
6	S4	259	GLN
6	S4	261	LEU
7	S5	25	LEU
7	S5	38	THR
7	S5	40	ILE
7	S5	41	LYS
7	S5	43	PHE
7	S5	45	LYS
7	S5	47	SER
7	S5	53	VAL

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Mol	Chain	Res	Type
7	S5	59	VAL
7	S5	63	GLN
7	S5	65	ARG
7	S5	69	PHE
7	S5	76	ARG
7	S5	79	ASN
7	S5	89	ILE
7	S5	94	THR
7	S5	96	SER
7	S5	97	LEU
7	S5	108	LEU
7	S5	146	THR
7	S5	156	ARG
7	S5	157	ARG
7	S5	162	VAL
7	S5	163	SER
7	S5	166	ARG
7	S5	216	GLU
7	S5	225	ARG
8	S6	13	GLN
8	S6	25	ARG
8	S6	51	LYS
8	S6	58	LYS
8	S6	59	GLN
8	S6	65	GLN
8	S6	69	LEU
8	S6	76	LEU
8	S6	78	THR
8	S6	79	LYS
8	S6	82	SER
8	S6	87	ARG
8	S6	114	VAL
8	S6	120	GLU
8	S6	125	THR
8	S6	126	ASP
8	S6	128	THR
8	S6	132	ARG
8	S6	133	LEU
8	S6	137	ARG
8	S6	144	PHE
8	S6	154	ARG
8	S6	170	THR

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Mol	Chain	Res	Type
8	S6	175	ILE
8	S6	177	ARG
8	S6	180	THR
8	S6	182	GLN
8	S6	211	LEU
8	S6	216	LEU
8	S6	223	LYS
9	S7	15	GLU
9	S7	39	ARG
9	S7	46	ILE
9	S7	49	ILE
9	S7	50	ASP
9	S7	51	VAL
9	S7	60	ILE
9	S7	67	LEU
9	S7	70	PHE
9	S7	76	LYS
9	S7	77	LEU
9	S7	80	GLU
9	S7	85	PHE
9	S7	87	ASP
9	S7	97	ARG
9	S7	110	GLN
9	S7	114	ARG
9	S7	126	LEU
9	S7	127	GLU
9	S7	131	PHE
9	S7	147	ASN
9	S7	167	GLU
9	S7	168	SER
9	S7	181	ILE
9	S7	185	ILE
10	S8	3	ILE
10	S8	4	SER
10	S8	8	ARG
10	S8	9	HIS
10	S8	10	LYS
10	S8	20	GLN
10	S8	21	PHE
10	S8	22	ARG
10	S8	25	ARG
10	S8	29	LEU

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Mol	Chain	Res	Type
10	S8	46	VAL
10	S8	47	ARG
10	S8	58	LEU
10	S8	74	LYS
10	S8	92	ARG
10	S8	103	GLN
10	S8	138	ASN
10	S8	160	PHE
10	S8	164	ARG
10	S8	184	LEU
10	S8	196	LEU
10	S8	199	LYS
11	S9	3	ARG
11	S9	14	THR
11	S9	28	LEU
11	S9	37	LYS
11	S9	39	LYS
11	S9	46	SER
11	S9	57	ARG
11	S9	60	LEU
11	S9	64	GLU
11	S9	78	ARG
11	S9	79	ARG
11	S9	80	LEU
11	S9	82	ARG
11	S9	88	GLU
11	S9	92	LYS
11	S9	93	LEU
11	S9	97	LEU
11	S9	99	LEU
11	S9	104	PHE
11	S9	118	LEU
11	S9	130	THR
11	S9	134	ILE
11	S9	138	LYS
11	S9	149	ARG
11	S9	157	ASP
11	S9	161	THR
11	S9	171	ARG
11	S9	172	VAL
11	S9	174	ARG
11	S9	175	ARG

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Mol	Chain	Res	Type
11	S9	186	GLU
12	C0	1	MET
12	C0	20	VAL
12	C0	25	LYS
12	C0	27	PHE
12	C0	29	GLN
12	C0	46	LEU
12	C0	55	VAL
12	C0	56	LYS
12	C0	76	LEU
12	C0	82	LEU
13	C1	10	GLU
13	C1	21	ASN
13	C1	29	LYS
13	C1	44	THR
13	C1	56	LYS
13	C1	63	LEU
13	C1	67	ARG
13	C1	69	LYS
13	C1	74	THR
13	C1	83	THR
13	C1	111	VAL
13	C1	118	GLN
13	C1	123	VAL
13	C1	140	VAL
13	C1	141	LYS
14	C2	28	LEU
14	C2	33	ARG
14	C2	41	LEU
14	C2	43	ARG
14	C2	45	LEU
14	C2	50	LYS
14	C2	61	VAL
14	C2	66	VAL
14	C2	71	ILE
14	C2	74	LEU
14	C2	83	GLU
14	C2	86	VAL
14	C2	89	ILE
14	C2	103	LEU
14	C2	126	TRP
14	C2	132	GLU

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Mol	Chain	Res	Type
14	C2	138	GLU
14	C2	139	HIS
15	C3	3	ARG
15	C3	6	SER
15	C3	9	LYS
15	C3	27	LYS
15	C3	32	SER
15	C3	39	LYS
15	C3	45	LEU
15	C3	61	THR
15	C3	64	ARG
15	C3	66	ILE
15	C3	67	THR
15	C3	83	GLU
15	C3	88	LEU
15	C3	102	LEU
15	C3	125	LEU
15	C3	132	VAL
15	C3	134	VAL
15	C3	140	LYS
15	C3	142	GLU
16	C4	13	VAL
16	C4	14	PHE
16	C4	16	VAL
16	C4	24	ASN
16	C4	26	THR
16	C4	29	HIS
16	C4	39	ILE
16	C4	42	VAL
16	C4	76	ILE
16	C4	86	THR
16	C4	92	LYS
16	C4	93	THR
16	C4	99	GLN
16	C4	103	ARG
16	C4	108	SER
16	C4	124	ASP
16	C4	132	ARG
16	C4	137	LEU
17	C5	11	VAL
17	C5	13	LYS
17	C5	20	VAL

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Mol	Chain	Res	Type
17	C5	22	LEU
17	C5	26	LEU
17	C5	29	SER
17	C5	34	VAL
17	C5	35	LYS
17	C5	36	LEU
17	C5	43	ARG
17	C5	44	ARG
17	C5	47	ARG
17	C5	52	LYS
17	C5	69	GLU
17	C5	86	VAL
17	C5	94	VAL
17	C5	110	GLU
17	C5	121	ILE
17	C5	124	THR
17	C5	126	VAL
17	C5	128	HIS
18	C6	8	GLN
18	C6	26	LYS
18	C6	31	VAL
18	C6	44	LEU
18	C6	54	LEU
18	C6	66	ARG
18	C6	68	ARG
18	C6	69	VAL
18	C6	70	THR
18	C6	74	HIS
18	C6	98	ASP
18	C6	106	LYS
18	C6	114	ARG
18	C6	116	LEU
18	C6	118	ILE
18	C6	123	ARG
18	C6	128	LYS
18	C6	137	ARG
18	C6	138	PHE
19	C7	5	ARG
19	C7	6	THR
19	C7	8	THR
19	C7	26	LEU
19	C7	29	GLN

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Mol	Chain	Res	Type
19	C7	38	ILE
19	C7	46	LEU
19	C7	49	LYS
19	C7	58	MET
19	C7	62	GLN
19	C7	69	ILE
19	C7	71	PHE
19	C7	72	LYS
19	C7	78	ARG
19	C7	83	GLN
19	C7	84	TYR
19	C7	88	VAL
19	C7	96	SER
19	C7	101	ASN
19	C7	102	VAL
19	C7	103	ASP
19	C7	104	ASN
19	C7	115	LEU
19	C7	117	LEU
19	C7	119	LEU
20	C8	3	LEU
20	C8	5	VAL
20	C8	8	GLN
20	C8	11	PHE
20	C8	12	GLN
20	C8	13	HIS
20	C8	14	ILE
20	C8	20	THR
20	C8	26	ILE
20	C8	28	ILE
20	C8	40	ARG
20	C8	71	GLN
20	C8	77	THR
20	C8	80	LYS
20	C8	89	GLN
20	C8	92	ILE
20	C8	93	THR
20	C8	97	ASP
20	C8	104	ASN
20	C8	132	ARG
20	C8	133	VAL
20	C8	136	GLN

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Mol	Chain	Res	Type
20	C8	141	THR
20	C8	143	ARG
21	C9	4	VAL
21	C9	6	VAL
21	C9	18	TYR
21	C9	22	LEU
21	C9	28	LEU
21	C9	30	VAL
21	C9	33	TYR
21	C9	34	VAL
21	C9	35	ASP
21	C9	36	ILE
21	C9	38	LYS
21	C9	57	ARG
21	C9	67	MET
21	C9	68	ARG
21	C9	70	GLN
21	C9	71	VAL
21	C9	104	VAL
21	C9	122	ARG
21	C9	125	SER
21	C9	130	ARG
21	C9	131	ASP
21	C9	132	LEU
21	C9	134	ARG
21	C9	140	LEU
21	C9	143	ASP
21	C9	144	GLU
22	D0	22	ILE
22	D0	23	ARG
22	D0	27	THR
22	D0	30	LYS
22	D0	40	ASN
22	D0	47	GLN
22	D0	51	VAL
22	D0	57	ARG
22	D0	61	LYS
22	D0	68	ARG
22	D0	74	GLU
22	D0	80	GLU
22	D0	81	THR
22	D0	103	ILE

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Mol	Chain	Res	Type
23	D1	5	LYS
23	D1	7	GLN
23	D1	11	LEU
23	D1	32	VAL
23	D1	41	GLU
23	D1	52	THR
23	D1	68	SER
23	D1	69	LEU
23	D1	75	ASN
23	D1	78	LEU
23	D1	79	LEU
23	D1	80	LYS
23	D1	87	ARG
24	D2	4	SER
24	D2	7	LEU
24	D2	12	ASN
24	D2	24	GLN
24	D2	25	VAL
24	D2	26	LEU
24	D2	27	ILE
24	D2	31	SER
24	D2	36	LYS
24	D2	43	LYS
24	D2	50	PHE
24	D2	53	ILE
24	D2	65	LEU
24	D2	66	ASN
24	D2	68	ARG
24	D2	76	SER
24	D2	87	GLU
24	D2	98	GLN
24	D2	103	ILE
24	D2	104	LEU
24	D2	105	THR
24	D2	121	VAL
24	D2	122	SER
24	D2	125	ILE
25	D3	3	LYS
25	D3	7	ARG
25	D3	9	LEU
25	D3	16	ARG
25	D3	19	ARG

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Mol	Chain	Res	Type
25	D3	33	LEU
25	D3	46	SER
25	D3	66	SER
25	D3	72	VAL
25	D3	77	ILE
25	D3	82	LYS
25	D3	84	THR
25	D3	87	VAL
25	D3	89	ASN
25	D3	96	VAL
25	D3	100	ASP
25	D3	107	PHE
25	D3	110	LYS
25	D3	114	LYS
25	D3	117	ILE
25	D3	127	VAL
25	D3	131	SER
25	D3	133	LEU
25	D3	140	LYS
25	D3	144	ARG
26	D4	2	SER
26	D4	17	LEU
26	D4	28	LEU
26	D4	29	HIS
26	D4	32	ARG
26	D4	34	ASN
26	D4	36	SER
26	D4	51	GLU
26	D4	57	VAL
26	D4	61	ARG
26	D4	62	THR
26	D4	96	LEU
26	D4	98	GLU
26	D4	99	LYS
26	D4	102	LYS
26	D4	123	LYS
26	D4	124	ARG
26	D4	127	LYS
27	D5	42	LEU
27	D5	58	ARG
27	D5	59	TYR
27	D5	60	VAL

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Mol	Chain	Res	Type
27	D5	63	SER
27	D5	65	LEU
27	D5	67	ASP
27	D5	68	ARG
27	D5	69	LEU
27	D5	71	ILE
27	D5	75	LEU
27	D5	85	LYS
27	D5	95	HIS
27	D5	100	ILE
27	D5	103	ARG
28	D6	4	LYS
28	D6	5	ARG
28	D6	18	VAL
28	D6	36	ILE
28	D6	38	ARG
28	D6	39	MET
28	D6	41	ILE
28	D6	44	ILE
28	D6	45	VAL
28	D6	46	GLU
28	D6	61	GLU
28	D6	64	LEU
28	D6	66	LYS
28	D6	68	TYR
28	D6	69	ASN
28	D6	71	LEU
28	D6	82	ARG
28	D6	85	ARG
28	D6	86	VAL
28	D6	90	GLU
28	D6	95	ARG
29	D7	3	LEU
29	D7	15	GLU
29	D7	26	GLN
29	D7	33	LEU
29	D7	35	VAL
29	D7	36	LYS
29	D7	62	ILE
29	D7	72	LYS
29	D7	78	SER
30	D8	13	ILE

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Mol	Chain	Res	Type
30	D8	15	VAL
30	D8	19	THR
30	D8	31	GLU
30	D8	32	PHE
30	D8	33	LEU
30	D8	34	GLU
30	D8	35	ASP
30	D8	39	THR
30	D8	49	ARG
30	D8	54	LEU
30	D8	58	GLU
31	D9	12	ARG
31	D9	19	ARG
31	D9	30	LEU
31	D9	36	LEU
31	D9	49	ASP
31	D9	54	LYS
32	E0	3	LYS
32	E0	14	VAL
32	E0	21	VAL
32	E0	22	GLU
32	E0	28	LYS
32	E0	39	LEU
32	E0	42	ARG
32	E0	47	VAL
32	E0	53	LYS
32	E0	56	MET
33	E1	83	LYS
33	E1	84	VAL
33	E1	86	THR
33	E1	91	ILE
33	E1	97	LYS
33	E1	100	LEU
33	E1	108	VAL
33	E1	113	LYS
33	E1	120	GLU
33	E1	130	VAL
33	E1	139	LEU
33	E1	140	TYR
33	E1	151	ASN
34	SR	6	VAL
34	SR	10	ARG

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Mol	Chain	Res	Type
34	SR	17	ASN
34	SR	46	LYS
34	SR	50	ASP
34	SR	52	GLN
34	SR	59	ARG
34	SR	66	HIS
34	SR	76	ASP
34	SR	106	HIS
34	SR	117	LYS
34	SR	127	ARG
34	SR	134	TRP
34	SR	136	ILE
34	SR	140	CYS
34	SR	141	LEU
34	SR	144	LEU
34	SR	149	ASP
34	SR	153	GLN
34	SR	165	ASP
34	SR	166	SER
34	SR	191	ASP
34	SR	196	ASN
34	SR	233	THR
34	SR	238	ASP
34	SR	258	THR
34	SR	268	GLN
34	SR	290	VAL
34	SR	300	THR
34	SR	317	THR
35	SM	28	SER
35	SM	34	LYS
35	SM	46	LYS
35	SM	48	ARG
35	SM	49	LYS
35	SM	64	LYS
35	SM	68	ARG
35	SM	69	ARG
35	SM	75	ASP
35	SM	77	THR
35	SM	84	LYS
35	SM	89	ARG
35	SM	91	THR
35	SM	102	THR

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Mol	Chain	Res	Type
35	SM	104	LYS
35	SM	130	GLU
35	SM	140	ASP
39	L2	14	SER
39	L2	20	THR
39	L2	22	LEU
39	L2	32	LEU
39	L2	44	ILE
39	L2	45	VAL
39	L2	49	VAL
39	L2	62	VAL
39	L2	64	ARG
39	L2	70	ARG
39	L2	72	ARG
39	L2	74	GLU
39	L2	88	ILE
39	L2	95	SER
39	L2	96	LEU
39	L2	97	ASN
39	L2	98	VAL
39	L2	101	VAL
39	L2	107	VAL
39	L2	109	GLU
39	L2	111	THR
39	L2	116	VAL
39	L2	132	ASN
39	L2	139	HIS
39	L2	142	ASP
39	L2	157	VAL
39	L2	159	SER
39	L2	165	VAL
39	L2	176	ASP
39	L2	179	LEU
39	L2	180	LEU
39	L2	192	LYS
39	L2	204	MET
39	L2	207	VAL
39	L2	227	ARG
39	L2	231	SER
39	L2	243	THR
39	L2	245	LEU
39	L2	247	ARG

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Mol	Chain	Res	Type
40	L3	7	GLU
40	L3	13	HIS
40	L3	19	ARG
40	L3	20	LYS
40	L3	25	ILE
40	L3	30	LYS
40	L3	36	ASP
40	L3	37	ARG
40	L3	38	SER
40	L3	46	PHE
40	L3	47	LEU
40	L3	55	THR
40	L3	56	ILE
40	L3	70	ARG
40	L3	72	VAL
40	L3	81	THR
40	L3	85	VAL
40	L3	93	VAL
40	L3	99	LEU
40	L3	100	ARG
40	L3	103	THR
40	L3	104	THR
40	L3	114	VAL
40	L3	116	ARG
40	L3	126	LYS
40	L3	136	LYS
40	L3	139	GLN
40	L3	148	LEU
40	L3	150	ARG
40	L3	161	LEU
40	L3	166	ILE
40	L3	183	LEU
40	L3	192	VAL
40	L3	193	ASP
40	L3	205	VAL
40	L3	208	VAL
40	L3	210	GLU
40	L3	211	GLN
40	L3	214	MET
40	L3	222	LYS
40	L3	226	PHE
40	L3	229	VAL

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Mol	Chain	Res	Type
40	L3	232	ARG
40	L3	236	LYS
40	L3	238	LEU
40	L3	241	LYS
40	L3	243	HIS
40	L3	244	ARG
40	L3	256	HIS
40	L3	264	VAL
40	L3	275	ARG
40	L3	277	SER
40	L3	282	ILE
40	L3	284	ARG
40	L3	285	VAL
40	L3	289	ASP
40	L3	291	GLU
40	L3	296	THR
40	L3	304	THR
40	L3	305	ILE
40	L3	319	ASN
40	L3	320	ASP
40	L3	324	VAL
40	L3	328	ILE
40	L3	332	ARG
40	L3	336	VAL
40	L3	337	THR
40	L3	341	SER
40	L3	346	THR
40	L3	347	SER
40	L3	348	ARG
40	L3	351	LEU
40	L3	355	SER
40	L3	361	THR
40	L3	369	ARG
40	L3	372	THR
41	L4	3	ARG
41	L4	4	PRO
41	L4	25	VAL
41	L4	37	THR
41	L4	41	SER
41	L4	52	VAL
41	L4	60	THR
41	L4	73	ARG

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Mol	Chain	Res	Type
41	L4	74	ILE
41	L4	84	ARG
41	L4	93	MET
41	L4	99	MET
41	L4	108	LYS
41	L4	112	LYS
41	L4	120	TYR
41	L4	136	LEU
41	L4	138	ARG
41	L4	150	LEU
41	L4	153	SER
41	L4	154	THR
41	L4	156	LEU
41	L4	158	SER
41	L4	172	VAL
41	L4	177	ASP
41	L4	179	LEU
41	L4	193	LYS
41	L4	200	THR
41	L4	203	ARG
41	L4	220	ARG
41	L4	222	VAL
41	L4	230	VAL
41	L4	246	ARG
41	L4	252	GLU
41	L4	256	THR
41	L4	282	SER
41	L4	287	THR
41	L4	292	SER
41	L4	293	SER
41	L4	296	GLN
41	L4	297	SER
41	L4	304	GLN
41	L4	308	LYS
41	L4	313	LEU
41	L4	333	VAL
41	L4	338	LYS
41	L4	347	THR
41	L4	349	THR
41	L4	354	VAL
42	L5	8	LYS
42	L5	22	ARG

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Mol	Chain	Res	Type
42	L5	23	ARG
42	L5	35	ARG
42	L5	41	LYS
42	L5	64	ILE
42	L5	66	SER
42	L5	67	SER
42	L5	69	ILE
42	L5	89	THR
42	L5	92	LEU
42	L5	93	THR
42	L5	95	TRP
42	L5	101	THR
42	L5	105	ILE
42	L5	112	LYS
42	L5	115	LEU
42	L5	124	GLU
42	L5	131	LEU
42	L5	135	VAL
42	L5	137	ASP
42	L5	140	ARG
42	L5	144	VAL
42	L5	146	LEU
42	L5	152	ARG
42	L5	155	THR
42	L5	159	VAL
42	L5	163	LEU
42	L5	177	GLU
42	L5	185	PHE
42	L5	188	GLU
42	L5	197	SER
42	L5	205	SER
42	L5	216	GLU
42	L5	222	LEU
42	L5	231	ILE
42	L5	232	ASP
42	L5	234	ASP
42	L5	254	LYS
42	L5	258	LYS
42	L5	259	LYS
42	L5	263	GLU
42	L5	273	ARG
42	L5	290	ILE

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Mol	Chain	Res	Type
42	L5	293	LEU
43	L6	5	LYS
43	L6	15	VAL
43	L6	21	THR
43	L6	30	LEU
43	L6	31	ARG
43	L6	38	THR
43	L6	46	ARG
43	L6	62	THR
43	L6	64	LEU
43	L6	78	ARG
43	L6	79	VAL
43	L6	89	THR
43	L6	98	VAL
43	L6	109	GLU
43	L6	129	GLU
43	L6	134	ARG
43	L6	141	VAL
43	L6	149	ILE
43	L6	155	LEU
43	L6	156	LYS
43	L6	164	SER
44	L7	25	GLN
44	L7	26	VAL
44	L7	38	LYS
44	L7	45	LEU
44	L7	80	GLN
44	L7	82	LYS
44	L7	83	LEU
44	L7	109	THR
44	L7	110	ARG
44	L7	128	LYS
44	L7	134	VAL
44	L7	164	SER
44	L7	175	LYS
44	L7	179	LEU
44	L7	180	SER
44	L7	182	ASP
44	L7	184	LEU
44	L7	234	GLU
44	L7	239	LEU
44	L7	241	LYS

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Mol	Chain	Res	Type
45	L8	26	LEU
45	L8	41	GLN
45	L8	47	SER
45	L8	50	VAL
45	L8	51	LYS
45	L8	63	LYS
45	L8	67	ILE
45	L8	71	VAL
45	L8	74	THR
45	L8	77	GLN
45	L8	79	GLN
45	L8	81	THR
45	L8	84	ARG
45	L8	92	LYS
45	L8	106	LYS
45	L8	132	VAL
45	L8	136	LEU
45	L8	138	HIS
45	L8	156	ASP
45	L8	169	LEU
45	L8	185	ARG
45	L8	189	LEU
45	L8	194	THR
45	L8	203	VAL
45	L8	204	ARG
45	L8	214	LEU
45	L8	215	VAL
45	L8	217	THR
45	L8	219	ASP
45	L8	224	ASP
45	L8	238	LEU
45	L8	246	MET
45	L8	248	LYS
45	L8	253	SER
46	L9	4	ILE
46	L9	5	GLN
46	L9	6	THR
46	L9	18	VAL
46	L9	19	SER
46	L9	20	ILE
46	L9	28	VAL
46	L9	41	ILE

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Mol	Chain	Res	Type
46	L9	44	THR
46	L9	48	VAL
46	L9	52	LEU
46	L9	53	ILE
46	L9	55	VAL
46	L9	62	ARG
46	L9	68	LEU
46	L9	69	ARG
46	L9	70	THR
46	L9	82	VAL
46	L9	110	LYS
46	L9	118	LEU
46	L9	130	ASP
46	L9	138	THR
46	L9	139	ASN
46	L9	141	LYS
46	L9	149	ASN
46	L9	151	VAL
46	L9	152	GLU
46	L9	155	SER
46	L9	157	ASN
46	L9	161	LEU
46	L9	162	GLN
46	L9	164	ILE
46	L9	170	LYS
46	L9	172	ILE
46	L9	189	GLU
46	L9	190	ASP
47	M0	3	ARG
47	M0	30	LYS
47	M0	32	ARG
47	M0	33	ILE
47	M0	35	ASP
47	M0	39	LYS
47	M0	42	THR
47	M0	48	LEU
47	M0	52	LEU
47	M0	61	SER
47	M0	62	SER
47	M0	90	ARG
47	M0	91	VAL
47	M0	102	MET

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Mol	Chain	Res	Type
47	M0	115	MET
47	M0	121	LYS
47	M0	130	ASP
47	M0	138	VAL
47	M0	139	ARG
47	M0	142	ASP
47	M0	145	LYS
47	M0	146	ASP
47	M0	156	ARG
47	M0	163	GLN
47	M0	165	ILE
47	M0	167	LEU
47	M0	169	LYS
47	M0	175	ASN
47	M0	177	ASP
47	M0	185	ARG
47	M0	203	LYS
47	M0	208	ASN
47	M0	215	GLU
48	M1	6	GLN
48	M1	7	ASN
48	M1	9	MET
48	M1	10	ARG
48	M1	11	ASP
48	M1	12	LEU
48	M1	13	LYS
48	M1	19	LEU
48	M1	20	ASN
48	M1	29	ARG
48	M1	31	THR
48	M1	34	SER
48	M1	46	VAL
48	M1	51	ARG
48	M1	56	THR
48	M1	65	ILE
48	M1	70	THR
48	M1	72	ARG
48	M1	77	GLU
48	M1	80	LEU
48	M1	82	ARG
48	M1	94	ARG
48	M1	106	ILE

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Mol	Chain	Res	Type
48	M1	107	ASP
48	M1	112	LEU
48	M1	115	LYS
48	M1	120	ILE
48	M1	130	VAL
48	M1	137	ARG
48	M1	140	ARG
48	M1	142	LYS
48	M1	166	LYS
48	M1	171	VAL
49	M3	11	LYS
49	M3	16	LYS
49	M3	22	VAL
49	M3	23	LYS
49	M3	24	VAL
49	M3	33	VAL
49	M3	54	LEU
49	M3	55	ARG
49	M3	57	VAL
49	M3	59	ARG
49	M3	67	ARG
49	M3	69	VAL
49	M3	70	ARG
49	M3	73	ARG
49	M3	85	LEU
49	M3	104	ARG
49	M3	108	ILE
49	M3	114	GLN
49	M3	116	LEU
49	M3	117	LYS
49	M3	121	SER
49	M3	124	ILE
49	M3	131	LYS
49	M3	136	GLU
49	M3	139	LEU
49	M3	154	VAL
49	M3	157	ARG
49	M3	168	ARG
49	M3	169	THR
49	M3	175	SER
49	M3	190	LYS
49	M3	194	GLU

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Mol	Chain	Res	Type
50	M4	8	LYS
50	M4	11	ASN
50	M4	15	VAL
50	M4	20	VAL
50	M4	40	ASP
50	M4	53	VAL
50	M4	66	THR
50	M4	72	LEU
50	M4	74	ARG
50	M4	82	SER
50	M4	90	VAL
50	M4	91	CYS
50	M4	92	GLU
50	M4	94	TRP
50	M4	102	LYS
50	M4	106	ARG
50	M4	126	GLN
50	M4	133	LYS
51	M5	10	LEU
51	M5	13	LYS
51	M5	18	VAL
51	M5	19	LEU
51	M5	22	LEU
51	M5	38	ARG
51	M5	43	THR
51	M5	68	ARG
51	M5	80	THR
51	M5	85	THR
51	M5	98	LEU
51	M5	104	GLU
51	M5	109	ARG
51	M5	117	ASN
51	M5	132	VAL
51	M5	133	ILE
51	M5	138	GLN
51	M5	151	ILE
51	M5	153	ASP
51	M5	155	VAL
51	M5	159	ARG
51	M5	187	ARG
51	M5	190	THR
51	M5	198	SER

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Mol	Chain	Res	Type
51	M5	201	ARG
51	M5	203	ARG
51	M5	204	LYS
52	M6	9	ILE
52	M6	22	VAL
52	M6	27	LEU
52	M6	34	VAL
52	M6	44	SER
52	M6	52	LEU
52	M6	58	LEU
52	M6	59	ARG
52	M6	79	ILE
52	M6	84	LEU
52	M6	85	ARG
52	M6	106	GLU
52	M6	116	LYS
52	M6	117	ARG
52	M6	122	GLN
52	M6	124	LEU
52	M6	126	VAL
52	M6	129	LEU
52	M6	143	THR
52	M6	160	ARG
52	M6	170	LYS
52	M6	180	SER
52	M6	184	THR
52	M6	188	SER
52	M6	190	VAL
53	M7	9	THR
53	M7	16	SER
53	M7	18	ARG
53	M7	20	SER
53	M7	29	THR
53	M7	32	THR
53	M7	34	GLN
53	M7	36	ILE
53	M7	41	LEU
53	M7	42	THR
53	M7	49	GLU
53	M7	51	VAL
53	M7	52	LEU
53	M7	67	ILE

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Mol	Chain	Res	Type
53	M7	69	ARG
53	M7	79	THR
53	M7	82	ARG
53	M7	91	VAL
53	M7	107	LEU
53	M7	112	LEU
53	M7	114	VAL
53	M7	115	SER
53	M7	119	VAL
53	M7	120	ASN
53	M7	127	ARG
53	M7	128	ARG
53	M7	141	SER
53	M7	142	SER
53	M7	144	SER
53	M7	146	ILE
53	M7	148	LEU
53	M7	153	LYS
53	M7	168	LEU
53	M7	180	LYS
53	M7	181	ARG
54	M8	7	SER
54	M8	13	SER
54	M8	23	ASN
54	M8	24	VAL
54	M8	26	LEU
54	M8	32	LEU
54	M8	39	ARG
54	M8	40	THR
54	M8	50	LYS
54	M8	66	ARG
54	M8	69	ARG
54	M8	73	GLN
54	M8	84	VAL
54	M8	86	THR
54	M8	95	GLU
54	M8	100	THR
54	M8	111	ARG
54	M8	122	ILE
54	M8	135	GLN
54	M8	168	THR
54	M8	179	ARG

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Mol	Chain	Res	Type
55	M9	5	ARG
55	M9	6	THR
55	M9	17	VAL
55	M9	25	ASP
55	M9	31	GLU
55	M9	43	LYS
55	M9	44	LEU
55	M9	46	LYS
55	M9	52	LYS
55	M9	55	VAL
55	M9	69	SER
55	M9	71	ARG
55	M9	72	GLU
55	M9	74	ARG
55	M9	81	ARG
55	M9	86	GLU
55	M9	89	LEU
55	M9	99	LEU
55	M9	104	ARG
55	M9	105	LEU
55	M9	116	ASP
55	M9	127	SER
55	M9	156	ASN
55	M9	164	LEU
55	M9	175	GLN
55	M9	180	LYS
56	N0	13	ARG
56	N0	16	THR
56	N0	49	HIS
56	N0	50	LYS
56	N0	53	LYS
56	N0	58	ILE
56	N0	70	THR
56	N0	71	LYS
56	N0	79	VAL
56	N0	80	ARG
56	N0	87	THR
56	N0	100	VAL
56	N0	103	VAL
56	N0	106	LEU
56	N0	117	ARG
56	N0	122	HIS

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Mol	Chain	Res	Type
56	N0	132	THR
56	N0	137	ARG
56	N0	138	GLN
56	N0	142	GLN
56	N0	145	THR
56	N0	148	LEU
56	N0	155	ARG
56	N0	162	THR
56	N0	166	LYS
56	N0	167	ARG
56	N0	172	TYR
57	N1	12	ARG
57	N1	18	ASP
57	N1	27	LEU
57	N1	29	THR
57	N1	38	ASP
57	N1	40	VAL
57	N1	52	MET
57	N1	55	LYS
57	N1	68	THR
57	N1	75	ILE
57	N1	78	LYS
57	N1	79	MET
57	N1	80	VAL
57	N1	83	ARG
57	N1	92	ARG
57	N1	93	VAL
57	N1	97	LYS
57	N1	102	ARG
57	N1	104	GLU
57	N1	110	LYS
57	N1	122	GLN
57	N1	126	VAL
57	N1	127	GLN
57	N1	128	LEU
57	N1	131	GLN
57	N1	139	ARG
57	N1	144	GLU
57	N1	154	VAL
58	N2	10	LYS
58	N2	14	THR
58	N2	16	THR

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Mol	Chain	Res	Type
58	N2	32	SER
58	N2	38	ILE
58	N2	42	LYS
58	N2	43	VAL
58	N2	52	ASN
58	N2	54	VAL
58	N2	58	GLU
58	N2	66	VAL
58	N2	67	SER
58	N2	88	GLN
58	N2	91	ASP
58	N2	100	THR
59	N3	9	THR
59	N3	13	ILE
59	N3	14	SER
59	N3	29	SER
59	N3	32	ARG
59	N3	35	TYR
59	N3	44	SER
59	N3	45	ARG
59	N3	46	LEU
59	N3	48	ARG
59	N3	54	LEU
59	N3	59	MET
59	N3	64	LYS
59	N3	69	LEU
59	N3	71	LYS
59	N3	73	VAL
59	N3	74	MET
59	N3	83	LYS
59	N3	87	ARG
59	N3	88	ARG
59	N3	91	VAL
59	N3	101	VAL
59	N3	102	ILE
59	N3	104	ASN
59	N3	120	LYS
59	N3	133	SER
59	N3	135	VAL
59	N3	137	VAL
60	N4	1	MET
60	N4	4	GLU

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Mol	Chain	Res	Type
60	N4	5	ILE
60	N4	19	THR
60	N4	28	ILE
60	N4	34	SER
60	N4	39	LEU
60	N4	43	ARG
60	N4	47	ARG
60	N4	52	THR
60	N4	80	ARG
60	N4	87	LEU
60	N4	90	ILE
60	N4	96	LEU
61	N5	26	VAL
61	N5	27	ARG
61	N5	34	LEU
61	N5	38	LEU
61	N5	39	LYS
61	N5	45	LYS
61	N5	49	LYS
61	N5	57	LEU
61	N5	63	ILE
61	N5	71	THR
61	N5	73	MET
61	N5	85	GLN
61	N5	87	SER
61	N5	92	LYS
61	N5	108	LEU
61	N5	112	THR
61	N5	113	LEU
61	N5	114	VAL
61	N5	115	ARG
61	N5	124	VAL
61	N5	125	ARG
61	N5	130	TYR
61	N5	133	LEU
61	N5	134	ASP
61	N5	135	ILE
61	N5	137	ASN
61	N5	139	ILE
61	N5	142	ILE
62	N6	3	LYS
62	N6	5	SER

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Mol	Chain	Res	Type
62	N6	10	SER
62	N6	13	ARG
62	N6	17	LYS
62	N6	37	LYS
62	N6	42	GLN
62	N6	45	ILE
62	N6	50	ILE
62	N6	51	ARG
62	N6	55	GLU
62	N6	56	VAL
62	N6	57	LEU
62	N6	70	ILE
62	N6	74	TYR
62	N6	83	ASP
62	N6	111	LEU
62	N6	112	ASP
62	N6	115	ARG
63	N7	3	LYS
63	N7	14	VAL
63	N7	17	ARG
63	N7	24	VAL
63	N7	33	SER
63	N7	34	LYS
63	N7	46	ILE
63	N7	52	LYS
63	N7	72	ILE
63	N7	75	VAL
63	N7	81	LEU
63	N7	83	THR
63	N7	90	GLU
63	N7	92	PHE
63	N7	99	GLU
63	N7	102	GLU
63	N7	109	GLU
63	N7	116	LYS
63	N7	127	ASN
63	N7	134	LEU
64	N8	4	ARG
64	N8	7	LYS
64	N8	8	THR
64	N8	10	LYS
64	N8	16	SER

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Mol	Chain	Res	Type
64	N8	34	MET
64	N8	42	ARG
64	N8	46	ASP
64	N8	47	LYS
64	N8	60	TYR
64	N8	68	PHE
64	N8	74	ASN
64	N8	78	LEU
64	N8	84	GLU
64	N8	91	LEU
64	N8	92	LYS
64	N8	93	SER
64	N8	102	ILE
64	N8	115	LYS
64	N8	118	ILE
64	N8	120	ASN
64	N8	130	VAL
64	N8	133	LEU
64	N8	135	GLU
65	N9	13	THR
65	N9	14	ARG
65	N9	22	LYS
65	N9	25	LYS
65	N9	28	LYS
65	N9	50	THR
65	N9	59	LYS
66	O0	16	LEU
66	O0	34	LEU
66	O0	40	LYS
66	O0	41	LEU
66	O0	48	THR
66	O0	51	LEU
66	O0	52	ARG
66	O0	54	SER
66	O0	55	GLU
66	O0	61	MET
66	O0	79	THR
66	O0	83	LYS
66	O0	87	VAL
66	O0	99	ASP
66	O0	101	LEU
66	O0	103	THR

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Mol	Chain	Res	Type
66	O0	104	LEU
67	O1	6	ASP
67	O1	8	VAL
67	O1	16	LEU
67	O1	26	LYS
67	O1	31	ARG
67	O1	42	LEU
67	O1	44	MET
67	O1	46	THR
67	O1	64	VAL
67	O1	68	GLU
67	O1	79	ARG
67	O1	82	GLU
67	O1	83	GLU
67	O1	84	ASP
67	O1	86	LYS
67	O1	96	VAL
67	O1	106	THR
67	O1	107	VAL
68	O2	10	VAL
68	O2	19	ARG
68	O2	27	ARG
68	O2	34	LYS
68	O2	38	ILE
68	O2	44	ARG
68	O2	51	SER
68	O2	61	LYS
68	O2	73	THR
68	O2	75	LEU
68	O2	82	LEU
68	O2	84	THR
68	O2	86	THR
68	O2	103	LYS
68	O2	128	LEU
69	O3	4	SER
69	O3	20	LYS
69	O3	21	ARG
69	O3	28	SER
69	O3	37	THR
69	O3	40	ASP
69	O3	42	GLN
69	O3	45	LEU

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Mol	Chain	Res	Type
69	O3	48	ARG
69	O3	59	VAL
69	O3	70	LYS
69	O3	72	THR
69	O3	80	VAL
69	O3	81	VAL
69	O3	86	ARG
69	O3	98	VAL
69	O3	106	ASN
69	O3	107	ILE
70	O4	3	GLN
70	O4	6	THR
70	O4	10	ARG
70	O4	16	ARG
70	O4	24	LYS
70	O4	44	CYS
70	O4	49	SER
70	O4	51	LEU
70	O4	54	ILE
70	O4	57	LEU
70	O4	58	ARG
70	O4	65	VAL
70	O4	71	THR
70	O4	74	ARG
70	O4	86	LYS
70	O4	87	GLU
70	O4	102	LYS
70	O4	103	LYS
71	O5	4	VAL
71	O5	15	GLU
71	O5	21	LEU
71	O5	27	GLU
71	O5	41	LEU
71	O5	46	THR
71	O5	47	VAL
71	O5	48	ARG
71	O5	49	LYS
71	O5	64	GLU
71	O5	68	GLN
71	O5	89	ARG
71	O5	90	ARG
71	O5	101	THR

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Mol	Chain	Res	Type
71	O5	119	LYS
72	O6	2	THR
72	O6	7	ILE
72	O6	13	LYS
72	O6	17	VAL
72	O6	21	THR
72	O6	26	ILE
72	O6	30	LYS
72	O6	34	SER
72	O6	36	ARG
72	O6	41	ARG
72	O6	45	ARG
72	O6	57	LEU
72	O6	58	ILE
72	O6	63	ASN
72	O6	66	GLU
72	O6	67	LYS
72	O6	68	ARG
72	O6	76	ARG
72	O6	79	SER
72	O6	81	THR
72	O6	84	LYS
72	O6	88	GLU
72	O6	99	ARG
73	O7	10	LYS
73	O7	12	HIS
73	O7	15	SER
73	O7	24	ARG
73	O7	25	ARG
73	O7	30	GLN
73	O7	33	THR
73	O7	34	CYS
73	O7	36	SER
73	O7	55	ARG
73	O7	58	THR
73	O7	59	THR
73	O7	65	ARG
73	O7	67	LEU
73	O7	76	ASN
73	O7	85	LYS
74	O8	22	THR
74	O8	32	ASN

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Mol	Chain	Res	Type
74	O8	41	THR
74	O8	45	VAL
74	O8	48	SER
74	O8	53	THR
74	O8	55	VAL
74	O8	64	LYS
74	O8	65	LEU
74	O8	67	GLN
74	O8	68	SER
74	O8	69	LEU
74	O8	77	ARG
75	O9	5	LYS
75	O9	10	LYS
75	O9	21	ARG
75	O9	29	LEU
75	O9	34	THR
75	O9	45	ARG
75	O9	51	ILE
76	Q0	77	ILE
76	Q0	78	ILE
76	Q0	79	GLU
76	Q0	98	LYS
76	Q0	106	ARG
76	Q0	112	LYS
76	Q0	113	ARG
76	Q0	114	LYS
76	Q0	127	LEU
77	Q1	2	ARG
77	Q1	5	TRP
77	Q1	9	ARG
77	Q1	11	ARG
77	Q1	17	ARG
78	Q2	2	VAL
78	Q2	4	VAL
78	Q2	8	ARG
78	Q2	13	LYS
78	Q2	21	THR
78	Q2	23	HIS
78	Q2	29	LYS
78	Q2	35	LEU
78	Q2	47	GLN
78	Q2	60	LYS

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Mol	Chain	Res	Type
78	Q2	71	ARG
78	Q2	73	GLU
78	Q2	78	LYS
78	Q2	83	LEU
78	Q2	84	THR
78	Q2	85	LEU
78	Q2	92	GLU
78	Q2	104	LEU
79	Q3	11	THR
79	Q3	16	VAL
79	Q3	24	ARG
79	Q3	25	GLN
79	Q3	31	ILE
79	Q3	45	LYS
79	Q3	49	ARG
79	Q3	59	CYS
2	s0	6	THR
2	s0	30	GLN
2	s0	31	VAL
2	s0	32	HIS
2	s0	41	ARG
2	s0	45	VAL
2	s0	50	VAL
2	s0	57	LEU
2	s0	59	LEU
2	s0	87	LEU
2	s0	88	LYS
2	s0	101	ARG
2	s0	106	SER
2	s0	110	TYR
2	s0	111	ILE
2	s0	113	ARG
2	s0	131	GLN
2	s0	135	GLU
2	s0	144	ILE
2	s0	153	SER
2	s0	154	GLU
2	s0	157	ASP
2	s0	158	VAL
2	s0	162	CYS
2	s0	172	LEU
2	s0	179	ARG

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Mol	Chain	Res	Type
2	s0	180	GLU
2	s0	183	ARG
2	s0	185	ARG
2	s0	188	LEU
2	s0	189	VAL
2	s0	190	ASP
2	s0	198	MET
2	s0	205	ARG
3	s1	21	VAL
3	s1	25	THR
3	s1	31	ASP
3	s1	37	THR
3	s1	40	ASN
3	s1	47	LEU
3	s1	51	SER
3	s1	62	LYS
3	s1	68	VAL
3	s1	70	LEU
3	s1	74	GLN
3	s1	81	PHE
3	s1	83	LYS
3	s1	87	ARG
3	s1	104	ASP
3	s1	105	PHE
3	s1	110	LEU
3	s1	115	ARG
3	s1	122	GLU
3	s1	124	ASN
3	s1	125	VAL
3	s1	126	THR
3	s1	129	THR
3	s1	137	ILE
3	s1	159	SER
3	s1	175	GLU
3	s1	177	GLN
3	s1	179	SER
3	s1	180	THR
3	s1	181	LEU
3	s1	184	LEU
3	s1	185	THR
3	s1	193	ILE
3	s1	194	ASN

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Mol	Chain	Res	Type
3	s1	204	ILE
3	s1	206	PRO
3	s1	212	VAL
3	s1	213	ARG
3	s1	222	LYS
3	s1	223	PHE
3	s1	232	HIS
3	s1	234	GLU
4	s2	41	LEU
4	s2	53	ILE
4	s2	54	GLU
4	s2	55	GLU
4	s2	58	LEU
4	s2	64	LYS
4	s2	69	ILE
4	s2	72	LEU
4	s2	77	GLN
4	s2	81	MET
4	s2	82	ASN
4	s2	83	ILE
4	s2	91	ARG
4	s2	94	GLN
4	s2	95	ARG
4	s2	96	THR
4	s2	97	ARG
4	s2	111	VAL
4	s2	113	LEU
4	s2	117	THR
4	s2	125	ILE
4	s2	134	LEU
4	s2	140	ARG
4	s2	141	ARG
4	s2	146	THR
4	s2	148	LEU
4	s2	150	GLN
4	s2	152	HIS
4	s2	153	SER
4	s2	162	CYS
4	s2	164	SER
4	s2	166	THR
4	s2	170	ILE
4	s2	179	VAL

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Mol	Chain	Res	Type
4	s2	205	ARG
4	s2	206	THR
4	s2	207	LEU
4	s2	222	TYR
4	s2	224	PHE
4	s2	228	ASN
4	s2	233	GLN
4	s2	237	VAL
4	s2	248	SER
5	s3	4	LEU
5	s3	10	LYS
5	s3	14	ASP
5	s3	34	TYR
5	s3	44	THR
5	s3	54	ARG
5	s3	57	ASP
5	s3	76	ARG
5	s3	84	ILE
5	s3	91	VAL
5	s3	103	GLU
5	s3	111	ASN
5	s3	115	ILE
5	s3	117	ARG
5	s3	127	MET
5	s3	128	GLU
5	s3	134	CYS
5	s3	143	ARG
5	s3	148	LYS
5	s3	158	ILE
5	s3	164	VAL
5	s3	169	ASP
5	s3	176	LEU
5	s3	197	THR
5	s3	212	LYS
5	s3	213	GLU
5	s3	215	GLU
5	s3	223	LYS
6	s4	7	LYS
6	s4	12	LEU
6	s4	23	LEU
6	s4	38	LEU
6	s4	41	SER

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Mol	Chain	Res	Type
6	s4	42	LEU
6	s4	49	ARG
6	s4	51	ARG
6	s4	65	LEU
6	s4	97	GLU
6	s4	108	ARG
6	s4	111	VAL
6	s4	113	ARG
6	s4	116	ASP
6	s4	126	VAL
6	s4	128	LYS
6	s4	131	LEU
6	s4	138	TYR
6	s4	146	THR
6	s4	147	ILE
6	s4	148	ARG
6	s4	156	VAL
6	s4	176	ASP
6	s4	180	LEU
6	s4	181	VAL
6	s4	182	TYR
6	s4	191	ARG
6	s4	196	VAL
6	s4	214	LEU
6	s4	219	VAL
6	s4	222	LEU
6	s4	223	ASN
6	s4	227	VAL
6	s4	236	ILE
6	s4	246	LEU
7	s5	25	LEU
7	s5	27	THR
7	s5	31	GLU
7	s5	38	THR
7	s5	39	GLU
7	s5	59	VAL
7	s5	63	GLN
7	s5	64	VAL
7	s5	68	ILE
7	s5	73	THR
7	s5	76	ARG
7	s5	83	ARG

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Mol	Chain	Res	Type
7	s5	89	ILE
7	s5	93	LEU
7	s5	125	THR
7	s5	146	THR
7	s5	147	THR
7	s5	148	ARG
7	s5	149	VAL
7	s5	157	ARG
7	s5	166	ARG
7	s5	170	GLN
7	s5	194	LEU
7	s5	203	LYS
7	s5	213	LYS
7	s5	216	GLU
8	s6	15	THR
8	s6	17	GLU
8	s6	21	GLU
8	s6	25	ARG
8	s6	30	LYS
8	s6	34	GLN
8	s6	50	PHE
8	s6	57	ASP
8	s6	59	GLN
8	s6	63	MET
8	s6	67	VAL
8	s6	69	LEU
8	s6	71	THR
8	s6	78	THR
8	s6	82	SER
8	s6	93	LYS
8	s6	94	ARG
8	s6	105	ASP
8	s6	108	VAL
8	s6	109	LEU
8	s6	121	LEU
8	s6	126	ASP
8	s6	127	THR
8	s6	128	THR
8	s6	129	VAL
8	s6	143	LYS
8	s6	151	ASP
8	s6	155	ASP

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Mol	Chain	Res	Type
8	s6	156	PHE
8	s6	175	ILE
8	s6	177	ARG
8	s6	180	THR
8	s6	191	ARG
8	s6	215	ARG
8	s6	216	LEU
9	s7	8	ILE
9	s7	11	GLN
9	s7	16	LEU
9	s7	28	GLU
9	s7	33	GLU
9	s7	35	LYS
9	s7	38	LEU
9	s7	44	LYS
9	s7	48	GLU
9	s7	49	ILE
9	s7	60	ILE
9	s7	67	LEU
9	s7	75	THR
9	s7	87	ASP
9	s7	97	ARG
9	s7	108	GLN
9	s7	114	ARG
9	s7	116	ARG
9	s7	117	THR
9	s7	118	LEU
9	s7	119	THR
9	s7	143	LEU
9	s7	144	VAL
9	s7	149	ILE
9	s7	156	SER
9	s7	160	GLN
9	s7	161	GLN
9	s7	166	LEU
9	s7	182	VAL
9	s7	185	ILE
10	s8	7	SER
10	s8	20	GLN
10	s8	22	ARG
10	s8	25	ARG
10	s8	29	LEU

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Mol	Chain	Res	Type
10	s8	45	SER
10	s8	46	VAL
10	s8	66	SER
10	s8	69	SER
10	s8	74	LYS
10	s8	76	THR
10	s8	82	VAL
10	s8	111	GLN
10	s8	120	THR
10	s8	135	LYS
10	s8	138	ASN
10	s8	152	ILE
10	s8	155	SER
10	s8	175	GLN
10	s8	184	LEU
11	s9	3	ARG
11	s9	7	THR
11	s9	9	SER
11	s9	14	THR
11	s9	21	SER
11	s9	28	LEU
11	s9	30	LEU
11	s9	39	LYS
11	s9	40	LYS
11	s9	49	LEU
11	s9	78	ARG
11	s9	82	ARG
11	s9	109	LEU
11	s9	126	ARG
11	s9	130	THR
11	s9	134	ILE
11	s9	143	ILE
11	s9	151	ASP
11	s9	154	LYS
11	s9	161	THR
11	s9	168	ARG
11	s9	171	ARG
11	s9	172	VAL
11	s9	175	ARG
11	s9	180	LYS
11	s9	182	GLU
80	c0	2	LEU

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Mol	Chain	Res	Type
80	c0	3	MET
80	c0	5	LYS
80	c0	15	LEU
80	c0	20	VAL
80	c0	28	ASN
80	c0	55	VAL
80	c0	57	THR
80	c0	71	GLU
13	c1	2	SER
13	c1	5	LEU
13	c1	6	THR
13	c1	10	GLU
13	c1	26	LYS
13	c1	30	ARG
13	c1	31	THR
13	c1	32	LYS
13	c1	33	ARG
13	c1	44	THR
13	c1	46	LYS
13	c1	60	PHE
13	c1	66	ILE
13	c1	67	ARG
13	c1	71	LEU
13	c1	72	THR
13	c1	74	THR
13	c1	99	ARG
13	c1	129	ARG
13	c1	132	SER
14	c2	28	LEU
14	c2	39	ASP
14	c2	43	ARG
14	c2	50	LYS
14	c2	53	THR
14	c2	58	LEU
14	c2	61	VAL
14	c2	62	LEU
14	c2	71	ILE
14	c2	74	LEU
14	c2	83	GLU
14	c2	85	LYS
14	c2	89	ILE
14	c2	103	LEU

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Mol	Chain	Res	Type
14	c2	121	VAL
14	c2	132	GLU
14	c2	139	HIS
14	c2	140	PHE
15	c3	6	SER
15	c3	12	SER
15	c3	16	ILE
15	c3	19	SER
15	c3	21	ASN
15	c3	29	SER
15	c3	33	VAL
15	c3	36	GLN
15	c3	43	LYS
15	c3	46	THR
15	c3	52	VAL
15	c3	58	HIS
15	c3	60	VAL
15	c3	62	GLN
15	c3	64	ARG
15	c3	66	ILE
15	c3	70	LYS
15	c3	73	ARG
15	c3	80	LEU
15	c3	84	ILE
15	c3	87	ASP
15	c3	97	SER
15	c3	103	GLU
15	c3	121	ARG
15	c3	125	LEU
15	c3	127	ARG
15	c3	132	VAL
15	c3	134	VAL
15	c3	138	ASN
16	c4	13	VAL
16	c4	23	PHE
16	c4	28	VAL
16	c4	31	THR
16	c4	36	LYS
16	c4	43	THR
16	c4	66	ASP
16	c4	81	VAL
16	c4	91	THR

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Mol	Chain	Res	Type
16	c4	107	ARG
16	c4	114	ARG
16	c4	119	THR
16	c4	121	VAL
16	c4	123	SER
16	c4	124	ASP
16	c4	132	ARG
16	c4	136	ARG
16	c4	137	LEU
17	c5	12	PHE
17	c5	20	VAL
17	c5	21	ASP
17	c5	24	LYS
17	c5	27	GLU
17	c5	28	MET
17	c5	36	LEU
17	c5	41	VAL
17	c5	43	ARG
17	c5	50	THR
17	c5	52	LYS
17	c5	69	GLU
17	c5	71	GLU
17	c5	97	TYR
17	c5	103	ASN
17	c5	107	ILE
17	c5	110	GLU
17	c5	121	ILE
17	c5	122	THR
17	c5	124	THR
17	c5	127	ARG
17	c5	128	HIS
18	c6	23	LYS
18	c6	28	LEU
18	c6	37	THR
18	c6	43	ILE
18	c6	53	LEU
18	c6	54	LEU
18	c6	57	LEU
18	c6	58	ASP
18	c6	63	ILE
18	c6	68	ARG
18	c6	69	VAL

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Mol	Chain	Res	Type
18	c6	70	THR
18	c6	76	SER
18	c6	82	ARG
18	c6	100	GLN
18	c6	111	SER
18	c6	114	ARG
18	c6	115	THR
18	c6	118	ILE
18	c6	128	LYS
18	c6	136	SER
18	c6	137	ARG
19	c7	3	ARG
19	c7	5	ARG
19	c7	6	THR
19	c7	25	THR
19	c7	29	GLN
19	c7	34	LEU
19	c7	46	LEU
19	c7	69	ILE
19	c7	83	GLN
19	c7	85	VAL
19	c7	88	VAL
19	c7	100	LEU
19	c7	102	VAL
19	c7	103	ASP
19	c7	105	GLN
19	c7	106	THR
19	c7	121	VAL
20	c8	2	SER
20	c8	3	LEU
20	c8	4	VAL
20	c8	5	VAL
20	c8	6	GLN
20	c8	13	HIS
20	c8	15	LEU
20	c8	16	ARG
20	c8	28	ILE
20	c8	36	LYS
20	c8	40	ARG
20	c8	61	LEU
20	c8	63	GLN
20	c8	74	GLN

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Mol	Chain	Res	Type
20	c8	77	THR
20	c8	94	ASP
20	c8	127	HIS
20	c8	138	THR
20	c8	143	ARG
20	c8	144	ARG
21	c9	6	VAL
21	c9	27	LYS
21	c9	28	LEU
21	c9	29	GLU
21	c9	34	VAL
21	c9	37	VAL
21	c9	57	ARG
21	c9	68	ARG
21	c9	71	VAL
21	c9	88	VAL
21	c9	91	TYR
21	c9	99	SER
21	c9	110	LYS
21	c9	123	ARG
21	c9	126	GLU
21	c9	131	ASP
21	c9	139	THR
21	c9	140	LEU
21	c9	141	GLU
22	d0	22	ILE
22	d0	23	ARG
22	d0	27	THR
22	d0	30	LYS
22	d0	31	VAL
22	d0	34	LEU
22	d0	44	ASN
22	d0	51	VAL
22	d0	57	ARG
22	d0	67	THR
22	d0	70	THR
22	d0	74	GLU
22	d0	77	LYS
22	d0	81	THR
22	d0	88	LYS
22	d0	99	ILE
22	d0	102	ARG

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Mol	Chain	Res	Type
22	d0	103	ILE
22	d0	105	GLN
22	d0	107	THR
22	d0	109	GLU
22	d0	114	VAL
22	d0	115	GLU
22	d0	121	ASN
23	d1	2	GLU
23	d1	5	LYS
23	d1	8	LEU
23	d1	11	LEU
23	d1	12	TYR
23	d1	17	CYS
23	d1	24	ILE
23	d1	32	VAL
23	d1	38	LYS
23	d1	50	TYR
23	d1	61	SER
23	d1	68	SER
23	d1	78	LEU
23	d1	85	TYR
23	d1	87	ARG
24	d2	2	THR
24	d2	15	ASN
24	d2	22	LYS
24	d2	23	ARG
24	d2	25	VAL
24	d2	28	ARG
24	d2	31	SER
24	d2	37	PHE
24	d2	43	LYS
24	d2	65	LEU
24	d2	68	ARG
24	d2	76	SER
24	d2	81	VAL
24	d2	88	LYS
24	d2	93	LEU
24	d2	98	GLN
24	d2	103	ILE
24	d2	117	ARG
24	d2	125	ILE
24	d2	126	LEU

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Mol	Chain	Res	Type
25	d3	9	LEU
25	d3	11	SER
25	d3	13	ARG
25	d3	16	ARG
25	d3	19	ARG
25	d3	33	LEU
25	d3	36	THR
25	d3	46	SER
25	d3	52	ILE
25	d3	66	SER
25	d3	72	VAL
25	d3	73	ARG
25	d3	74	VAL
25	d3	83	VAL
25	d3	84	THR
25	d3	96	VAL
25	d3	99	ASN
25	d3	100	ASP
25	d3	103	LEU
25	d3	107	PHE
25	d3	109	ARG
25	d3	125	VAL
25	d3	132	LEU
25	d3	133	LEU
25	d3	144	ARG
26	d4	10	ARG
26	d4	13	ILE
26	d4	26	ASP
26	d4	34	ASN
26	d4	42	GLU
26	d4	43	LYS
26	d4	44	LEU
26	d4	47	VAL
26	d4	49	LYS
26	d4	51	GLU
26	d4	62	THR
26	d4	88	THR
26	d4	91	LEU
26	d4	92	VAL
26	d4	118	ILE
26	d4	121	THR
26	d4	125	LEU

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Mol	Chain	Res	Type
26	d4	132	ARG
27	d5	41	ILE
27	d5	51	LEU
27	d5	53	GLU
27	d5	57	TYR
27	d5	61	SER
27	d5	68	ARG
27	d5	71	ILE
27	d5	81	ARG
27	d5	88	ILE
27	d5	92	ILE
28	d6	10	ARG
28	d6	18	VAL
28	d6	24	VAL
28	d6	28	LYS
28	d6	30	ILE
28	d6	39	MET
28	d6	41	ILE
28	d6	42	ARG
28	d6	46	GLU
28	d6	51	ARG
28	d6	53	LEU
28	d6	67	THR
28	d6	77	CYS
28	d6	82	ARG
28	d6	85	ARG
28	d6	89	ARG
28	d6	90	GLU
29	d7	3	LEU
29	d7	11	THR
29	d7	14	SER
29	d7	22	LYS
29	d7	23	THR
29	d7	41	LEU
29	d7	43	ILE
29	d7	46	VAL
29	d7	52	THR
29	d7	55	THR
29	d7	72	LYS
29	d7	77	THR
29	d7	81	ARG
30	d8	15	VAL

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Mol	Chain	Res	Type
30	d8	19	THR
30	d8	30	VAL
30	d8	32	PHE
30	d8	33	LEU
30	d8	64	ARG
30	d8	65	ARG
30	d8	66	LEU
31	d9	10	HIS
31	d9	16	LYS
31	d9	28	THR
31	d9	31	ILE
31	d9	36	LEU
31	d9	48	ASN
31	d9	49	ASP
31	d9	54	LYS
31	d9	56	ARG
32	e0	13	LYS
32	e0	18	THR
32	e0	22	GLU
32	e0	26	LYS
32	e0	27	PRO
32	e0	28	LYS
32	e0	29	LYS
32	e0	41	THR
32	e0	42	ARG
32	e0	44	PHE
32	e0	45	VAL
32	e0	46	ASN
32	e0	49	LEU
32	e0	62	VAL
33	e1	80	ARG
33	e1	84	VAL
33	e1	86	THR
33	e1	90	LYS
33	e1	95	HIS
33	e1	96	LYS
33	e1	98	VAL
33	e1	100	LEU
33	e1	102	VAL
33	e1	106	TYR
33	e1	109	ASP
33	e1	113	LYS

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Mol	Chain	Res	Type
33	e1	118	ARG
33	e1	119	ARG
33	e1	122	SER
33	e1	135	HIS
33	e1	149	LYS
34	sR	25	THR
34	sR	48	THR
34	sR	52	GLN
34	sR	58	VAL
34	sR	59	ARG
34	sR	60	SER
34	sR	64	HIS
34	sR	66	HIS
34	sR	76	ASP
34	sR	96	THR
34	sR	106	HIS
34	sR	149	ASP
34	sR	176	LYS
34	sR	182	ASN
34	sR	207	ASP
34	sR	232	TYR
34	sR	245	PHE
34	sR	256	THR
34	sR	258	THR
34	sR	266	ASP
34	sR	286	GLU
34	sR	297	ASP
34	sR	309	VAL
34	sR	314	GLN
35	sM	23	LYS
35	sM	24	GLU
35	sM	30	THR
35	sM	41	SER
35	sM	43	ASP
35	sM	46	LYS
35	sM	48	ARG
35	sM	49	LYS
35	sM	53	ARG
35	sM	61	ILE
35	sM	62	ARG
35	sM	68	ARG
35	sM	71	ASN

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Mol	Chain	Res	Type
35	sM	74	LYS
35	sM	75	ASP
35	sM	77	THR
35	sM	78	ASP
39	l2	15	ILE
39	l2	20	THR
39	l2	32	LEU
39	l2	44	ILE
39	l2	48	ILE
39	l2	62	VAL
39	l2	70	ARG
39	l2	71	LEU
39	l2	74	GLU
39	l2	77	ILE
39	l2	82	VAL
39	l2	101	VAL
39	l2	109	GLU
39	l2	111	THR
39	l2	119	LYS
39	l2	122	ASP
39	l2	128	ARG
39	l2	137	ILE
39	l2	144	ASN
39	l2	147	ARG
39	l2	155	LYS
39	l2	165	VAL
39	l2	177	LYS
39	l2	180	LEU
39	l2	184	ARG
39	l2	192	LYS
39	l2	193	ARG
39	l2	207	VAL
39	l2	215	ASN
39	l2	227	ARG
39	l2	238	ILE
39	l2	242	ARG
39	l2	243	THR
39	l2	246	LEU
40	l3	3	HIS
40	l3	4	ARG
40	l3	17	LEU
40	l3	19	ARG

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Mol	Chain	Res	Type
40	l3	24	SER
40	l3	39	LYS
40	l3	50	LYS
40	l3	56	ILE
40	l3	65	SER
40	l3	69	LYS
40	l3	70	ARG
40	l3	73	VAL
40	l3	77	THR
40	l3	81	THR
40	l3	85	VAL
40	l3	89	VAL
40	l3	95	THR
40	l3	99	LEU
40	l3	103	THR
40	l3	114	VAL
40	l3	116	ARG
40	l3	123	TYR
40	l3	124	LYS
40	l3	134	SER
40	l3	139	GLN
40	l3	146	ARG
40	l3	157	VAL
40	l3	162	VAL
40	l3	165	GLN
40	l3	167	ARG
40	l3	169	THR
40	l3	178	LEU
40	l3	188	ILE
40	l3	192	VAL
40	l3	197	GLU
40	l3	202	THR
40	l3	208	VAL
40	l3	211	GLN
40	l3	229	VAL
40	l3	230	THR
40	l3	232	ARG
40	l3	235	THR
40	l3	238	LEU
40	l3	249	VAL
40	l3	252	ILE
40	l3	264	VAL

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Mol	Chain	Res	Type
40	l3	270	ARG
40	l3	274	SER
40	l3	278	ILE
40	l3	284	ARG
40	l3	287	LYS
40	l3	299	ASP
40	l3	304	THR
40	l3	311	PHE
40	l3	324	VAL
40	l3	328	ILE
40	l3	332	ARG
40	l3	335	ILE
40	l3	340	LYS
40	l3	344	THR
40	l3	347	SER
40	l3	348	ARG
40	l3	359	ILE
40	l3	380	MET
41	l4	22	LEU
41	l4	25	VAL
41	l4	33	ASP
41	l4	35	VAL
41	l4	37	THR
41	l4	43	ASN
41	l4	46	LYS
41	l4	47	ARG
41	l4	60	THR
41	l4	73	ARG
41	l4	77	VAL
41	l4	82	THR
41	l4	93	MET
41	l4	116	ASN
41	l4	120	TYR
41	l4	122	THR
41	l4	133	SER
41	l4	144	LYS
41	l4	145	ILE
41	l4	151	VAL
41	l4	156	LEU
41	l4	163	LYS
41	l4	172	VAL
41	l4	178	LEU

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Mol	Chain	Res	Type
41	14	179	LEU
41	14	187	LEU
41	14	193	LYS
41	14	203	ARG
41	14	206	LEU
41	14	217	LYS
41	14	220	ARG
41	14	222	VAL
41	14	230	VAL
41	14	246	ARG
41	14	256	THR
41	14	259	ASP
41	14	265	GLU
41	14	266	THR
41	14	267	VAL
41	14	282	SER
41	14	287	THR
41	14	292	SER
41	14	300	ARG
41	14	304	GLN
41	14	307	GLN
41	14	313	LEU
41	14	316	ASN
41	14	327	LEU
41	14	332	LYS
41	14	333	VAL
41	14	345	GLU
41	14	346	LYS
41	14	356	THR
42	15	10	SER
42	15	13	SER
42	15	34	LYS
42	15	35	ARG
42	15	36	LEU
42	15	51	LEU
42	15	61	ILE
42	15	66	SER
42	15	69	ILE
42	15	70	THR
42	15	73	VAL
42	15	84	PRO
42	15	101	THR

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Mol	Chain	Res	Type
42	15	110	LEU
42	15	112	LYS
42	15	113	LEU
42	15	115	LEU
42	15	118	THR
42	15	122	VAL
42	15	124	GLU
42	15	128	GLU
42	15	133	GLU
42	15	135	VAL
42	15	137	ASP
42	15	140	ARG
42	15	146	LEU
42	15	148	ILE
42	15	152	ARG
42	15	155	THR
42	15	158	ARG
42	15	177	GLU
42	15	185	PHE
42	15	193	GLU
42	15	194	LEU
42	15	196	ARG
42	15	197	SER
42	15	211	LEU
42	15	214	ASP
42	15	218	ARG
42	15	222	LEU
42	15	227	LEU
42	15	232	ASP
42	15	236	LEU
42	15	254	LYS
42	15	258	LYS
42	15	259	LYS
42	15	262	LYS
42	15	273	ARG
42	15	282	ARG
42	15	293	LEU
42	15	297	GLN
43	16	4	GLN
43	16	14	ASP
43	16	15	VAL
43	16	21	THR

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Mol	Chain	Res	Type
43	16	31	ARG
43	16	33	SER
43	16	50	LYS
43	16	64	LEU
43	16	65	ILE
43	16	74	VAL
43	16	76	LEU
43	16	78	ARG
43	16	87	THR
43	16	89	THR
43	16	91	VAL
43	16	98	VAL
43	16	108	LYS
43	16	109	GLU
43	16	131	LYS
43	16	152	THR
43	16	155	LEU
43	16	160	SER
44	17	22	THR
44	17	24	GLU
44	17	41	ARG
44	17	54	GLU
44	17	60	ARG
44	17	83	LEU
44	17	88	ARG
44	17	100	ARG
44	17	105	LEU
44	17	113	SER
44	17	115	THR
44	17	124	LEU
44	17	130	ILE
44	17	147	LEU
44	17	156	ILE
44	17	157	ASN
44	17	158	LYS
44	17	159	GLN
44	17	173	LEU
44	17	175	LYS
44	17	179	LEU
44	17	184	LEU
44	17	190	THR
44	17	207	LEU

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Mol	Chain	Res	Type
44	17	216	VAL
44	17	219	LYS
44	17	229	PHE
44	17	234	GLU
44	17	239	LEU
45	18	26	LEU
45	18	27	THR
45	18	41	GLN
45	18	50	VAL
45	18	68	ARG
45	18	71	VAL
45	18	74	THR
45	18	79	GLN
45	18	81	THR
45	18	89	GLU
45	18	90	THR
45	18	91	PHE
45	18	93	LEU
45	18	136	LEU
45	18	146	LYS
45	18	149	LYS
45	18	150	LEU
45	18	160	ILE
45	18	169	LEU
45	18	172	LYS
45	18	173	MET
45	18	183	LYS
45	18	194	THR
45	18	200	LEU
45	18	204	ARG
45	18	208	GLU
45	18	211	LEU
45	18	213	LYS
45	18	214	LEU
45	18	217	THR
45	18	219	ASP
45	18	222	PHE
45	18	224	ASP
45	18	230	LYS
45	18	245	LYS
45	18	246	MET
45	18	248	LYS

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Mol	Chain	Res	Type
46	19	2	LYS
46	19	5	GLN
46	19	6	THR
46	19	7	GLU
46	19	16	VAL
46	19	18	VAL
46	19	19	SER
46	19	24	ILE
46	19	28	VAL
46	19	33	THR
46	19	48	VAL
46	19	52	LEU
46	19	55	VAL
46	19	62	ARG
46	19	68	LEU
46	19	69	ARG
46	19	70	THR
46	19	78	MET
46	19	92	TYR
46	19	118	LEU
46	19	124	ARG
46	19	132	VAL
46	19	134	ILE
46	19	138	THR
46	19	144	ILE
46	19	151	VAL
46	19	154	VAL
46	19	155	SER
46	19	157	ASN
46	19	161	LEU
46	19	162	GLN
46	19	163	GLN
46	19	166	ARG
46	19	172	ILE
46	19	173	ARG
46	19	181	VAL
46	19	188	THR
46	19	191	LEU
47	m0	3	ARG
47	m0	13	LYS
47	m0	15	LYS
47	m0	21	ARG

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Mol	Chain	Res	Type
47	m0	22	TYR
47	m0	24	ARG
47	m0	26	VAL
47	m0	36	LEU
47	m0	39	LYS
47	m0	42	THR
47	m0	48	LEU
47	m0	52	LEU
47	m0	57	LEU
47	m0	58	GLU
47	m0	63	GLU
47	m0	77	THR
47	m0	87	LEU
47	m0	95	HIS
47	m0	100	ASN
47	m0	112	GLN
47	m0	113	GLN
47	m0	139	ARG
47	m0	143	SER
47	m0	148	VAL
47	m0	154	ARG
47	m0	156	ARG
47	m0	169	LYS
47	m0	170	LYS
47	m0	177	ASP
47	m0	192	ASP
47	m0	197	VAL
47	m0	201	SER
47	m0	205	SER
47	m0	206	LEU
47	m0	208	ASN
47	m0	209	ASN
47	m0	210	ILE
47	m0	211	ARG
47	m0	215	GLU
47	m0	217	PHE
47	m0	220	GLN
48	m1	6	GLN
48	m1	10	ARG
48	m1	12	LEU
48	m1	28	ASP
48	m1	31	THR

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Mol	Chain	Res	Type
48	m1	39	GLN
48	m1	43	GLN
48	m1	44	THR
48	m1	54	VAL
48	m1	67	VAL
48	m1	71	VAL
48	m1	77	GLU
48	m1	92	ARG
48	m1	112	LEU
48	m1	129	VAL
48	m1	130	VAL
48	m1	138	VAL
48	m1	140	ARG
48	m1	153	LYS
48	m1	155	THR
48	m1	157	GLU
48	m1	160	VAL
48	m1	161	SER
48	m1	166	LYS
49	m3	4	SER
49	m3	12	ASN
49	m3	13	HIS
49	m3	22	VAL
49	m3	23	LYS
49	m3	39	ARG
49	m3	58	VAL
49	m3	63	VAL
49	m3	67	ARG
49	m3	69	VAL
49	m3	70	ARG
49	m3	73	ARG
49	m3	75	PHE
49	m3	76	THR
49	m3	80	VAL
49	m3	86	THR
49	m3	97	VAL
49	m3	106	GLN
49	m3	107	GLU
49	m3	118	GLU
49	m3	123	ILE
49	m3	138	VAL
49	m3	153	ASP

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Mol	Chain	Res	Type
49	m3	154	VAL
49	m3	165	SER
49	m3	168	ARG
49	m3	171	ARG
49	m3	175	SER
49	m3	180	ARG
49	m3	184	GLU
49	m3	194	GLU
50	m4	3	THR
50	m4	5	SER
50	m4	6	ILE
50	m4	8	LYS
50	m4	14	LEU
50	m4	15	VAL
50	m4	16	GLU
50	m4	20	VAL
50	m4	24	LYS
50	m4	39	ILE
50	m4	45	LEU
50	m4	60	LEU
50	m4	62	GLN
50	m4	64	VAL
50	m4	69	THR
50	m4	72	LEU
50	m4	80	THR
50	m4	98	SER
50	m4	102	LYS
50	m4	103	ILE
50	m4	107	GLU
50	m4	123	LEU
50	m4	128	ARG
50	m4	130	THR
50	m4	135	LEU
51	m5	15	GLN
51	m5	18	VAL
51	m5	22	LEU
51	m5	32	GLN
51	m5	49	ARG
51	m5	53	TYR
51	m5	54	LYS
51	m5	68	ARG
51	m5	71	ARG

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Mol	Chain	Res	Type
51	m5	80	THR
51	m5	83	LYS
51	m5	87	GLN
51	m5	92	LEU
51	m5	96	ARG
51	m5	106	VAL
51	m5	112	ASN
51	m5	116	LEU
51	m5	117	ASN
51	m5	138	GLN
51	m5	153	ASP
51	m5	170	LYS
51	m5	171	SER
51	m5	175	ASN
51	m5	182	ASN
51	m5	188	ARG
51	m5	190	THR
51	m5	194	GLN
51	m5	196	THR
51	m5	201	ARG
51	m5	204	LYS
52	m6	7	VAL
52	m6	22	VAL
52	m6	25	LYS
52	m6	41	LEU
52	m6	46	GLU
52	m6	59	ARG
52	m6	60	LYS
52	m6	66	LYS
52	m6	67	THR
52	m6	78	ARG
52	m6	84	LEU
52	m6	85	ARG
52	m6	100	GLU
52	m6	106	GLU
52	m6	108	ILE
52	m6	115	LYS
52	m6	116	LYS
52	m6	117	ARG
52	m6	118	VAL
52	m6	122	GLN
52	m6	124	LEU

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Mol	Chain	Res	Type
52	m6	126	VAL
52	m6	129	LEU
52	m6	134	LYS
52	m6	142	SER
52	m6	143	THR
52	m6	167	TYR
52	m6	170	LYS
52	m6	175	THR
52	m6	182	ASN
52	m6	188	SER
52	m6	197	LEU
53	m7	7	THR
53	m7	14	SER
53	m7	16	SER
53	m7	18	ARG
53	m7	22	LEU
53	m7	32	THR
53	m7	41	LEU
53	m7	52	LEU
53	m7	53	ASP
53	m7	69	ARG
53	m7	76	PHE
53	m7	78	VAL
53	m7	89	LYS
53	m7	91	VAL
53	m7	114	VAL
53	m7	119	VAL
53	m7	120	ASN
53	m7	125	GLN
53	m7	126	ARG
53	m7	127	ARG
53	m7	128	ARG
53	m7	142	SER
53	m7	144	SER
53	m7	148	LEU
53	m7	150	VAL
53	m7	153	LYS
53	m7	155	GLU
54	m8	12	ARG
54	m8	17	THR
54	m8	21	SER
54	m8	22	ASP

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Mol	Chain	Res	Type
54	m8	26	LEU
54	m8	32	LEU
54	m8	34	THR
54	m8	38	ARG
54	m8	55	SER
54	m8	57	ILE
54	m8	63	SER
54	m8	64	VAL
54	m8	80	THR
54	m8	81	VAL
54	m8	86	THR
54	m8	93	ILE
54	m8	113	LYS
54	m8	130	ARG
54	m8	135	GLN
54	m8	146	SER
54	m8	147	ARG
54	m8	166	LEU
54	m8	170	ARG
54	m8	176	ARG
54	m8	178	ARG
55	m9	6	THR
55	m9	7	GLN
55	m9	10	LEU
55	m9	17	VAL
55	m9	20	ARG
55	m9	36	ASN
55	m9	41	ILE
55	m9	43	LYS
55	m9	49	THR
55	m9	57	VAL
55	m9	61	SER
55	m9	63	THR
55	m9	70	LYS
55	m9	88	ARG
55	m9	92	GLN
55	m9	99	LEU
55	m9	104	ARG
55	m9	110	ARG
55	m9	127	SER
55	m9	128	LYS
55	m9	152	GLU

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Mol	Chain	Res	Type
55	m9	153	LYS
55	m9	156	ASN
55	m9	164	LEU
55	m9	170	ARG
55	m9	173	ARG
55	m9	180	LYS
56	n0	3	HIS
56	n0	13	ARG
56	n0	16	THR
56	n0	17	GLU
56	n0	18	SER
56	n0	21	GLU
56	n0	23	LYS
56	n0	32	SER
56	n0	45	LEU
56	n0	50	LYS
56	n0	52	LYS
56	n0	58	ILE
56	n0	60	SER
56	n0	61	ILE
56	n0	62	ASN
56	n0	70	THR
56	n0	73	LYS
56	n0	80	ARG
56	n0	87	THR
56	n0	88	HIS
56	n0	89	ASN
56	n0	96	ASP
56	n0	97	VAL
56	n0	99	ARG
56	n0	100	VAL
56	n0	107	TYR
56	n0	117	ARG
56	n0	120	SER
56	n0	123	ILE
56	n0	130	GLU
56	n0	132	THR
56	n0	136	LYS
56	n0	137	ARG
56	n0	145	THR
56	n0	148	LEU
56	n0	149	LYS

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Mol	Chain	Res	Type
56	n0	155	ARG
56	n0	162	THR
56	n0	167	ARG
56	n0	172	TYR
57	n1	9	SER
57	n1	12	ARG
57	n1	17	ARG
57	n1	25	VAL
57	n1	26	HIS
57	n1	36	VAL
57	n1	39	ILE
57	n1	47	SER
57	n1	48	ILE
57	n1	52	MET
57	n1	71	SER
57	n1	78	LYS
57	n1	80	VAL
57	n1	83	ARG
57	n1	86	GLU
57	n1	88	ARG
57	n1	89	LEU
57	n1	93	VAL
57	n1	96	ILE
57	n1	102	ARG
57	n1	104	GLU
57	n1	126	VAL
57	n1	135	PRO
57	n1	139	ARG
57	n1	143	THR
57	n1	150	THR
57	n1	154	VAL
57	n1	158	THR
58	n2	14	THR
58	n2	27	VAL
58	n2	28	PHE
58	n2	32	SER
58	n2	37	LEU
58	n2	38	ILE
58	n2	43	VAL
58	n2	50	LEU
58	n2	52	ASN
58	n2	57	THR

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Mol	Chain	Res	Type
58	n2	62	VAL
58	n2	63	VAL
58	n2	68	THR
58	n2	74	LYS
58	n2	75	TYR
58	n2	81	LYS
59	n3	7	GLN
59	n3	13	ILE
59	n3	14	SER
59	n3	22	ILE
59	n3	28	ASN
59	n3	45	ARG
59	n3	58	VAL
59	n3	61	THR
59	n3	66	LYS
59	n3	70	ARG
59	n3	72	LYS
59	n3	91	VAL
59	n3	125	LEU
59	n3	135	VAL
60	n4	1	MET
60	n4	4	GLU
60	n4	5	ILE
60	n4	25	ASP
60	n4	39	LEU
60	n4	57	LYS
60	n4	59	HIS
60	n4	63	ILE
60	n4	77	LYS
60	n4	82	ILE
60	n4	89	LEU
60	n4	95	SER
60	n4	96	LEU
60	n4	100	VAL
60	n4	105	ARG
60	n4	107	GLU
60	n4	123	ARG
60	n4	126	GLU
60	n4	127	LYS
60	n4	130	SER
61	n5	24	LEU
61	n5	27	ARG

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Mol	Chain	Res	Type
61	n5	37	THR
61	n5	40	LEU
61	n5	52	PRO
61	n5	56	ARG
61	n5	59	SER
61	n5	61	LYS
61	n5	63	ILE
61	n5	71	THR
61	n5	73	MET
61	n5	78	ASP
61	n5	86	VAL
61	n5	87	SER
61	n5	88	MET
61	n5	109	LYS
61	n5	115	ARG
61	n5	124	VAL
61	n5	125	ARG
61	n5	133	LEU
61	n5	135	ILE
61	n5	142	ILE
62	n6	4	GLN
62	n6	8	VAL
62	n6	12	ARG
62	n6	13	ARG
62	n6	35	LEU
62	n6	36	SER
62	n6	37	LYS
62	n6	40	ARG
62	n6	45	ILE
62	n6	50	ILE
62	n6	56	VAL
62	n6	57	LEU
62	n6	66	GLN
62	n6	71	SER
62	n6	74	TYR
62	n6	80	VAL
62	n6	102	SER
62	n6	105	VAL
62	n6	108	LYS
62	n6	111	LEU
63	n7	3	LYS
63	n7	24	VAL

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Mol	Chain	Res	Type
63	n7	34	LYS
63	n7	35	SER
63	n7	36	HIS
63	n7	46	ILE
63	n7	47	GLU
63	n7	52	LYS
63	n7	57	HIS
63	n7	65	ARG
63	n7	66	THR
63	n7	72	ILE
63	n7	81	LEU
63	n7	83	THR
63	n7	94	SER
63	n7	95	VAL
63	n7	100	THR
63	n7	103	GLN
63	n7	105	SER
63	n7	111	LYS
63	n7	126	LYS
63	n7	132	SER
64	n8	6	THR
64	n8	8	THR
64	n8	15	VAL
64	n8	27	LYS
64	n8	32	ARG
64	n8	42	ARG
64	n8	43	ILE
64	n8	44	ASN
64	n8	46	ASP
64	n8	47	LYS
64	n8	60	TYR
64	n8	67	HIS
64	n8	68	PHE
64	n8	70	LYS
64	n8	73	LEU
64	n8	82	ILE
64	n8	91	LEU
64	n8	93	SER
64	n8	96	LYS
64	n8	98	THR
64	n8	123	VAL
64	n8	132	LYS

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Mol	Chain	Res	Type
64	n8	135	GLU
64	n8	144	VAL
65	n9	5	LYS
65	n9	13	THR
65	n9	19	ASN
65	n9	21	ILE
65	n9	33	LYS
65	n9	38	LYS
65	n9	58	LYS
65	n9	59	LYS
66	o0	6	SER
66	o0	8	GLU
66	o0	10	ILE
66	o0	12	GLN
66	o0	19	LYS
66	o0	32	LYS
66	o0	33	SER
66	o0	34	LEU
66	o0	40	LYS
66	o0	41	LEU
66	o0	55	GLU
66	o0	58	TYR
66	o0	61	MET
66	o0	66	LYS
66	o0	74	ASN
66	o0	86	ARG
66	o0	87	VAL
66	o0	99	ASP
66	o0	103	THR
67	o1	6	ASP
67	o1	10	ARG
67	o1	13	THR
67	o1	16	LEU
67	o1	24	SER
67	o1	26	LYS
67	o1	31	ARG
67	o1	44	MET
67	o1	46	THR
67	o1	47	ASP
67	o1	76	SER
67	o1	77	ARG
67	o1	84	ASP

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Mol	Chain	Res	Type
67	o1	90	PHE
67	o1	102	LYS
67	o1	104	LEU
67	o1	106	THR
68	o2	4	LEU
68	o2	6	HIS
68	o2	9	ILE
68	o2	24	ARG
68	o2	27	ARG
68	o2	33	ARG
68	o2	41	VAL
68	o2	44	ARG
68	o2	45	ARG
68	o2	47	ARG
68	o2	51	SER
68	o2	54	LYS
68	o2	61	LYS
68	o2	73	THR
68	o2	75	LEU
68	o2	82	LEU
68	o2	89	THR
68	o2	91	THR
68	o2	106	VAL
68	o2	108	ILE
68	o2	125	ARG
68	o2	126	LEU
69	o3	4	SER
69	o3	22	VAL
69	o3	31	LYS
69	o3	37	THR
69	o3	42	GLN
69	o3	48	ARG
69	o3	58	GLU
69	o3	60	ARG
69	o3	70	LYS
69	o3	81	VAL
69	o3	92	LYS
69	o3	98	VAL
69	o3	105	SER
69	o3	107	ILE
70	o4	20	ILE
70	o4	24	LYS

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Mol	Chain	Res	Type
70	o4	25	THR
70	o4	38	LEU
70	o4	46	ASP
70	o4	47	CYS
70	o4	58	ARG
70	o4	64	THR
70	o4	65	VAL
70	o4	71	THR
70	o4	83	ASN
70	o4	98	GLN
70	o4	104	VAL
70	o4	109	THR
71	o5	4	VAL
71	o5	20	GLN
71	o5	26	LYS
71	o5	27	GLU
71	o5	28	LEU
71	o5	40	SER
71	o5	46	THR
71	o5	47	VAL
71	o5	48	ARG
71	o5	62	GLN
71	o5	68	GLN
71	o5	69	LEU
71	o5	71	LYS
71	o5	81	ARG
71	o5	86	ARG
71	o5	89	ARG
71	o5	90	ARG
71	o5	107	LYS
71	o5	108	GLN
71	o5	113	GLN
71	o5	116	TYR
72	o6	3	VAL
72	o6	9	ILE
72	o6	11	LEU
72	o6	15	LYS
72	o6	17	VAL
72	o6	19	SER
72	o6	21	THR
72	o6	26	ILE
72	o6	29	LYS

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Mol	Chain	Res	Type
72	o6	34	SER
72	o6	35	ASN
72	o6	36	ARG
72	o6	42	SER
72	o6	43	LEU
72	o6	45	ARG
72	o6	57	LEU
72	o6	58	ILE
72	o6	60	LEU
72	o6	64	SER
72	o6	68	ARG
72	o6	72	VAL
72	o6	81	THR
72	o6	88	GLU
72	o6	90	MET
72	o6	94	ILE
72	o6	98	ARG
73	o7	5	THR
73	o7	17	THR
73	o7	24	ARG
73	o7	33	THR
73	o7	44	THR
73	o7	45	ARG
73	o7	48	ASN
73	o7	49	TRP
73	o7	55	ARG
73	o7	58	THR
73	o7	59	THR
73	o7	65	ARG
73	o7	67	LEU
73	o7	68	LYS
73	o7	80	THR
74	o8	16	ARG
74	o8	24	THR
74	o8	31	LEU
74	o8	33	LYS
74	o8	41	THR
74	o8	50	SER
74	o8	53	THR
74	o8	55	VAL
74	o8	61	LYS
74	o8	64	LYS

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Mol	Chain	Res	Type
74	o8	65	LEU
74	o8	67	GLN
74	o8	69	LEU
74	o8	72	THR
75	o9	6	SER
75	o9	9	ILE
75	o9	11	GLN
75	o9	15	LYS
75	o9	21	ARG
75	o9	23	LEU
75	o9	34	THR
75	o9	45	ARG
75	o9	48	LYS
76	q0	79	GLU
76	q0	85	LEU
76	q0	87	SER
76	q0	88	LYS
76	q0	94	SER
76	q0	106	ARG
76	q0	112	LYS
76	q0	113	ARG
76	q0	114	LYS
77	q1	2	ARG
77	q1	6	ARG
77	q1	9	ARG
77	q1	11	ARG
77	q1	13	LEU
77	q1	19	LYS
77	q1	21	ARG
78	q2	6	LYS
78	q2	7	THR
78	q2	8	ARG
78	q2	10	THR
78	q2	18	ARG
78	q2	24	LYS
78	q2	32	LYS
78	q2	35	LEU
78	q2	45	ARG
78	q2	48	SER
78	q2	61	LYS
78	q2	69	VAL
78	q2	72	LEU

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Mol	Chain	Res	Type
78	q2	83	LEU
78	q2	84	THR
78	q2	85	LEU
78	q2	93	LEU
78	q2	100	LYS
78	q2	106	PHE
79	q3	3	LYS
79	q3	4	ARG
79	q3	8	VAL
79	q3	17	ARG
79	q3	33	GLN
79	q3	34	HIS
79	q3	41	PHE
79	q3	49	ARG
79	q3	54	ILE
79	q3	56	THR
79	q3	58	SER
79	q3	59	CYS
79	q3	70	THR
79	q3	79	VAL
79	q3	81	SER
79	q3	90	VAL
82	p0	4	ILE
82	p0	5	ARG
82	p0	10	GLU
82	p0	46	ARG
82	p0	48	ARG
82	p0	52	LEU
82	p0	67	LEU
82	p0	69	ASP
82	p0	70	LEU
82	p0	72	ASP
82	p0	76	LEU
82	p0	87	VAL
82	p0	93	LEU
82	p0	97	LYS
82	p0	104	ARG
82	p0	193	ASN
82	p0	196	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (75) such sidechains are listed below:

Mol	Chain	Res	Type
2	S0	15	GLN
2	S0	193	GLN
4	S2	189	GLN
7	S5	79	ASN
7	S5	104	ASN
8	S6	34	GLN
8	S6	59	GLN
9	S7	71	HIS
10	S8	9	HIS
10	S8	64	ASN
13	C1	104	HIS
19	C7	83	GLN
20	C8	136	GLN
22	D0	17	GLN
23	D1	74	GLN
24	D2	15	ASN
27	D5	95	HIS
40	L3	109	HIS
42	L5	63	GLN
44	L7	104	GLN
46	L9	156	GLN
46	L9	162	GLN
47	M0	100	ASN
48	M1	95	ASN
53	M7	10	ASN
56	N0	138	GLN
59	N3	98	ASN
59	N3	132	ASN
60	N4	45	ASN
61	N5	80	ASN
65	N9	45	HIS
67	O1	21	HIS
78	Q2	99	GLN
78	Q2	102	GLN
2	s0	131	GLN
3	s1	149	GLN
3	s1	157	GLN
3	s1	208	GLN
3	s1	209	ASN
7	s5	100	ASN
8	s6	190	GLN
9	s7	71	HIS
11	s9	123	HIS

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Mol	Chain	Res	Type
80	c0	32	HIS
13	c1	110	HIS
15	c3	36	GLN
15	c3	78	ASN
20	c8	122	HIS
21	c9	101	ASN
22	d0	72	ASN
24	d2	56	HIS
31	d9	27	HIS
39	l2	38	HIS
40	l3	211	GLN
42	l5	264	GLN
44	l7	112	ASN
45	l8	24	ASN
45	l8	28	HIS
45	l8	38	GLN
46	l9	37	ASN
49	m3	99	HIS
51	m5	178	HIS
52	m6	193	GLN
53	m7	45	GLN
53	m7	137	ASN
55	m9	7	GLN
55	m9	92	GLN
56	n0	88	HIS
57	n1	134	GLN
60	n4	104	ASN
63	n7	128	GLN
64	n8	44	ASN
72	o6	35	ASN
78	q2	47	GLN
79	q3	33	GLN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1777/1800 (98%)	519 (29%)	56 (3%)
1	6	1792/1800 (99%)	472 (26%)	47 (2%)
36	1	3145/3396 (92%)	710 (22%)	70 (2%)
36	5	3146/3396 (92%)	753 (23%)	72 (2%)
37	3	120/121 (99%)	18 (15%)	1 (0%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
37	7	120/121 (99%)	23 (19%)	1 (0%)
38	4	157/158 (99%)	37 (23%)	2 (1%)
38	8	157/158 (99%)	37 (23%)	1 (0%)
All	All	10414/10950 (95%)	2569 (24%)	250 (2%)

All (2569) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	3	U
1	2	4	C
1	2	13	C
1	2	25	C
1	2	26	A
1	2	27	U
1	2	34	G
1	2	45	U
1	2	46	A
1	2	47	A
1	2	49	C
1	2	50	C
1	2	57	G
1	2	60	U
1	2	68	A
1	2	69	G
1	2	72	A
1	2	73	U
1	2	74	U
1	2	75	U
1	2	104	A
1	2	114	C
1	2	117	U
1	2	128	U
1	2	131	C
1	2	132	U
1	2	133	U
1	2	134	U
1	2	135	A
1	2	136	C
1	2	137	U
1	2	140	A
1	2	141	U

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Mol	Chain	Res	Type
1	2	144	U
1	2	145	A
1	2	146	U
1	2	153	G
1	2	158	U
1	2	159	U
1	2	169	A
1	2	178	U
1	2	179	A
1	2	185	U
1	2	186	C
1	2	187	G
1	2	190	C
1	2	191	C
1	2	192	U
1	2	193	U
1	2	194	U
1	2	195	G
1	2	196	G
1	2	197	A
1	2	198	A
1	2	200	A
1	2	204	G
1	2	215	A
1	2	218	A
1	2	219	A
1	2	226	A
1	2	227	U
1	2	228	G
1	2	229	U
1	2	231	U
1	2	233	C
1	2	234	G
1	2	235	G
1	2	236	A
1	2	238	U
1	2	239	C
1	2	240	U
1	2	241	U
1	2	242	U
1	2	250	C
1	2	261	U

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Mol	Chain	Res	Type
1	2	262	U
1	2	265	A
1	2	270	C
1	2	271	A
1	2	272	U
1	2	274	G
1	2	275	C
1	2	276	C
1	2	277	U
1	2	278	U
1	2	279	G
1	2	280	U
1	2	281	G
1	2	288	A
1	2	290	G
1	2	299	A
1	2	302	U
1	2	308	C
1	2	309	C
1	2	314	C
1	2	316	A
1	2	319	U
1	2	320	U
1	2	321	C
1	2	322	G
1	2	324	U
1	2	333	A
1	2	337	G
1	2	338	C
1	2	352	A
1	2	359	A
1	2	360	A
1	2	361	C
1	2	363	G
1	2	378	A
1	2	380	U
1	2	387	A
1	2	390	G
1	2	393	C
1	2	397	A
1	2	400	A
1	2	401	A

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Mol	Chain	Res	Type
1	2	402	C
1	2	404	G
1	2	409	C
1	2	416	A
1	2	418	G
1	2	419	G
1	2	423	G
1	2	424	C
1	2	425	A
1	2	426	G
1	2	428	A
1	2	431	C
1	2	434	G
1	2	437	A
1	2	439	U
1	2	444	C
1	2	448	C
1	2	454	U
1	2	455	C
1	2	462	G
1	2	468	A
1	2	475	A
1	2	477	A
1	2	480	G
1	2	484	C
1	2	485	A
1	2	486	G
1	2	488	G
1	2	493	U
1	2	494	U
1	2	495	C
1	2	496	G
1	2	497	G
1	2	498	G
1	2	499	U
1	2	500	C
1	2	502	U
1	2	503	G
1	2	504	U
1	2	505	A
1	2	506	A
1	2	507	U

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Mol	Chain	Res	Type
1	2	508	U
1	2	510	G
1	2	511	A
1	2	512	A
1	2	513	U
1	2	514	G
1	2	515	A
1	2	516	G
1	2	519	C
1	2	520	A
1	2	527	A
1	2	532	U
1	2	536	C
1	2	538	A
1	2	539	G
1	2	540	G
1	2	541	A
1	2	542	A
1	2	543	C
1	2	544	A
1	2	546	U
1	2	548	G
1	2	554	C
1	2	555	A
1	2	556	A
1	2	557	G
1	2	558	U
1	2	559	C
1	2	565	C
1	2	578	U
1	2	579	A
1	2	580	A
1	2	582	U
1	2	583	C
1	2	594	A
1	2	595	G
1	2	609	U
1	2	611	U
1	2	619	A
1	2	620	A
1	2	621	A
1	2	622	A

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Mol	Chain	Res	Type
1	2	623	A
1	2	624	G
1	2	630	A
1	2	639	U
1	2	640	U
1	2	650	U
1	2	653	C
1	2	655	G
1	2	656	G
1	2	658	C
1	2	677	G
1	2	680	U
1	2	682	C
1	2	684	A
1	2	685	A
1	2	686	C
1	2	692	C
1	2	694	U
1	2	696	C
1	2	697	C
1	2	698	U
1	2	700	C
1	2	701	U
1	2	702	G
1	2	703	G
1	2	704	C
1	2	705	U
1	2	706	A
1	2	707	A
1	2	709	C
1	2	710	U
1	2	711	U
1	2	712	G
1	2	713	A
1	2	714	G
1	2	717	C
1	2	718	U
1	2	719	U
1	2	720	G
1	2	721	U
1	2	722	G
1	2	723	G

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Mol	Chain	Res	Type
1	2	725	U
1	2	727	U
1	2	728	U
1	2	731	C
1	2	732	G
1	2	733	A
1	2	734	A
1	2	735	C
1	2	736	C
1	2	737	A
1	2	738	G
1	2	742	U
1	2	745	U
1	2	754	A
1	2	755	A
1	2	756	A
1	2	759	U
1	2	765	G
1	2	766	U
1	2	774	A
1	2	775	G
1	2	778	G
1	2	779	U
1	2	781	U
1	2	783	G
1	2	784	C
1	2	789	A
1	2	793	A
1	2	794	U
1	2	795	U
1	2	801	G
1	2	803	A
1	2	806	A
1	2	812	A
1	2	814	A
1	2	815	G
1	2	816	G
1	2	818	C
1	2	819	G
1	2	820	U
1	2	821	U
1	2	822	U

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Mol	Chain	Res	Type
1	2	824	G
1	2	829	A
1	2	830	U
1	2	831	U
1	2	833	U
1	2	846	G
1	2	848	C
1	2	856	A
1	2	860	U
1	2	863	A
1	2	865	A
1	2	876	G
1	2	886	U
1	2	896	U
1	2	898	A
1	2	912	U
1	2	913	G
1	2	914	G
1	2	916	U
1	2	921	U
1	2	926	A
1	2	933	A
1	2	935	U
1	2	942	G
1	2	944	A
1	2	951	A
1	2	952	A
1	2	959	U
1	2	960	U
1	2	966	A
1	2	971	A
1	2	991	G
1	2	992	A
1	2	993	A
1	2	1001	A
1	2	1002	G
1	2	1003	A
1	2	1004	U
1	2	1005	A
1	2	1024	U
1	2	1026	A
1	2	1027	A

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Mol	Chain	Res	Type
1	2	1028	C
1	2	1031	U
1	2	1039	A
1	2	1040	G
1	2	1052	U
1	2	1053	G
1	2	1058	U
1	2	1059	U
1	2	1060	U
1	2	1061	A
1	2	1074	G
1	2	1079	U
1	2	1080	U
1	2	1082	C
1	2	1083	G
1	2	1091	A
1	2	1092	A
1	2	1093	A
1	2	1096	C
1	2	1097	U
1	2	1100	G
1	2	1109	G
1	2	1111	G
1	2	1138	A
1	2	1139	A
1	2	1146	G
1	2	1151	A
1	2	1155	G
1	2	1157	A
1	2	1158	C
1	2	1159	C
1	2	1160	A
1	2	1161	C
1	2	1164	G
1	2	1167	G
1	2	1168	U
1	2	1173	C
1	2	1185	U
1	2	1191	U
1	2	1194	A
1	2	1196	A
1	2	1197	C

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Mol	Chain	Res	Type
1	2	1198	G
1	2	1199	G
1	2	1200	G
1	2	1202	A
1	2	1203	A
1	2	1205	C
1	2	1207	C
1	2	1217	A
1	2	1218	G
1	2	1227	A
1	2	1228	G
1	2	1229	G
1	2	1243	G
1	2	1244	A
1	2	1245	G
1	2	1250	U
1	2	1251	U
1	2	1257	U
1	2	1258	U
1	2	1263	G
1	2	1267	G
1	2	1275	A
1	2	1284	C
1	2	1285	U
1	2	1286	U
1	2	1291	G
1	2	1293	U
1	2	1301	U
1	2	1307	U
1	2	1314	U
1	2	1315	U
1	2	1316	G
1	2	1321	A
1	2	1337	A
1	2	1340	U
1	2	1341	A
1	2	1344	A
1	2	1345	A
1	2	1347	U
1	2	1348	A
1	2	1354	G
1	2	1355	C

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Mol	Chain	Res	Type
1	2	1359	C
1	2	1361	U
1	2	1363	U
1	2	1364	G
1	2	1370	U
1	2	1371	A
1	2	1388	A
1	2	1390	U
1	2	1398	U
1	2	1399	C
1	2	1401	A
1	2	1412	G
1	2	1413	U
1	2	1414	U
1	2	1415	U
1	2	1422	A
1	2	1426	C
1	2	1427	A
1	2	1428	G
1	2	1436	A
1	2	1446	A
1	2	1456	C
1	2	1457	C
1	2	1459	C
1	2	1460	A
1	2	1461	C
1	2	1462	G
1	2	1471	A
1	2	1473	U
1	2	1474	G
1	2	1482	C
1	2	1486	G
1	2	1489	U
1	2	1490	C
1	2	1491	U
1	2	1492	A
1	2	1493	A
1	2	1496	U
1	2	1499	G
1	2	1506	G
1	2	1510	U
1	2	1514	U

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Mol	Chain	Res	Type
1	2	1515	A
1	2	1516	A
1	2	1517	U
1	2	1521	G
1	2	1523	G
1	2	1524	A
1	2	1526	A
1	2	1530	C
1	2	1535	U
1	2	1536	G
1	2	1537	C
1	2	1538	U
1	2	1540	G
1	2	1542	G
1	2	1555	A
1	2	1557	U
1	2	1559	A
1	2	1560	U
1	2	1569	A
1	2	1573	A
1	2	1574	G
1	2	1584	G
1	2	1601	G
1	2	1616	G
1	2	1623	C
1	2	1625	C
1	2	1631	A
1	2	1634	C
1	2	1657	U
1	2	1658	G
1	2	1673	G
1	2	1681	A
1	2	1682	U
1	2	1683	C
1	2	1684	U
1	2	1685	G
1	2	1686	C
1	2	1697	G
1	2	1698	G
1	2	1699	G
1	2	1700	C
1	2	1701	A

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Mol	Chain	Res	Type
1	2	1702	A
1	2	1703	C
1	2	1704	U
1	2	1711	C
1	2	1712	A
1	2	1713	G
1	2	1715	G
1	2	1731	A
1	2	1734	U
1	2	1757	G
1	2	1760	G
1	2	1762	A
1	2	1766	A
1	2	1769	U
1	2	1780	G
1	2	1782	A
1	2	1783	C
1	2	1790	A
1	2	1792	G
1	2	1793	G
1	2	1794	A
1	2	1796	C
1	2	1798	U
36	1	26	A
36	1	40	A
36	1	43	A
36	1	45	A
36	1	49	A
36	1	52	A
36	1	59	G
36	1	60	A
36	1	65	A
36	1	66	A
36	1	73	C
36	1	75	G
36	1	76	G
36	1	85	A
36	1	92	G
36	1	93	C
36	1	94	G
36	1	102	C
36	1	109	A

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Mol	Chain	Res	Type
36	1	110	G
36	1	111	C
36	1	113	C
36	1	116	A
36	1	121	A
36	1	122	A
36	1	133	U
36	1	135	C
36	1	136	G
36	1	147	U
36	1	148	G
36	1	156	G
36	1	157	A
36	1	166	C
36	1	169	U
36	1	170	G
36	1	187	A
36	1	190	U
36	1	191	U
36	1	192	C
36	1	200	C
36	1	201	A
36	1	210	U
36	1	213	A
36	1	218	G
36	1	219	A
36	1	235	A
36	1	240	U
36	1	241	G
36	1	243	G
36	1	249	U
36	1	251	G
36	1	252	U
36	1	269	G
36	1	282	G
36	1	283	G
36	1	286	U
36	1	295	A
36	1	298	U
36	1	299	G
36	1	315	C
36	1	323	A

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Mol	Chain	Res	Type
36	1	329	U
36	1	339	C
36	1	344	A
36	1	349	A
36	1	350	C
36	1	352	A
36	1	362	U
36	1	366	A
36	1	368	G
36	1	374	A
36	1	375	A
36	1	376	G
36	1	398	A
36	1	399	A
36	1	401	U
36	1	402	A
36	1	403	C
36	1	404	G
36	1	421	G
36	1	422	A
36	1	439	C
36	1	440	A
36	1	495	G
36	1	520	U
36	1	521	A
36	1	532	A
36	1	535	G
36	1	536	U
36	1	544	C
36	1	546	C
36	1	547	G
36	1	548	G
36	1	552	G
36	1	555	U
36	1	557	A
36	1	558	U
36	1	559	A
36	1	560	G
36	1	569	A
36	1	578	A
36	1	579	G
36	1	592	A

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Mol	Chain	Res	Type
36	1	604	G
36	1	609	G
36	1	611	A
36	1	619	A
36	1	620	U
36	1	621	A
36	1	622	A
36	1	636	C
36	1	640	U
36	1	649	A
36	1	658	G
36	1	660	A
36	1	662	U
36	1	670	C
36	1	671	U
36	1	677	A
36	1	681	U
36	1	689	U
36	1	691	A
36	1	705	A
36	1	708	G
36	1	709	A
36	1	712	G
36	1	715	A
36	1	716	A
36	1	719	U
36	1	725	G
36	1	758	C
36	1	764	U
36	1	766	U
36	1	767	U
36	1	768	C
36	1	776	U
36	1	777	U
36	1	780	A
36	1	781	G
36	1	785	G
36	1	786	A
36	1	792	G
36	1	806	A
36	1	817	A
36	1	830	A

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Mol	Chain	Res	Type
36	1	837	A
36	1	849	C
36	1	861	C
36	1	872	U
36	1	874	U
36	1	879	U
36	1	886	C
36	1	890	C
36	1	895	A
36	1	896	A
36	1	907	G
36	1	908	G
36	1	914	A
36	1	916	G
36	1	917	A
36	1	920	A
36	1	924	G
36	1	929	A
36	1	937	G
36	1	943	U
36	1	944	C
36	1	953	G
36	1	959	C
36	1	960	U
36	1	974	G
36	1	979	U
36	1	980	A
36	1	981	U
36	1	982	C
36	1	993	G
36	1	994	G
36	1	1001	G
36	1	1002	A
36	1	1006	A
36	1	1009	A
36	1	1010	G
36	1	1016	C
36	1	1017	C
36	1	1018	G
36	1	1020	G
36	1	1024	G
36	1	1025	A

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Mol	Chain	Res	Type
36	1	1029	G
36	1	1034	U
36	1	1036	A
36	1	1037	C
36	1	1041	U
36	1	1047	A
36	1	1049	C
36	1	1052	U
36	1	1064	A
36	1	1065	A
36	1	1072	G
36	1	1079	A
36	1	1081	U
36	1	1087	G
36	1	1093	A
36	1	1094	U
36	1	1095	U
36	1	1096	U
36	1	1097	G
36	1	1098	A
36	1	1103	A
36	1	1104	G
36	1	1117	G
36	1	1129	A
36	1	1131	G
36	1	1138	U
36	1	1143	A
36	1	1144	U
36	1	1153	A
36	1	1159	A
36	1	1160	C
36	1	1177	G
36	1	1178	G
36	1	1179	A
36	1	1180	A
36	1	1181	U
36	1	1182	A
36	1	1190	A
36	1	1191	U
36	1	1192	C
36	1	1200	A
36	1	1201	C

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Mol	Chain	Res	Type
36	1	1202	A
36	1	1209	G
36	1	1211	U
36	1	1213	G
36	1	1216	C
36	1	1217	A
36	1	1221	A
36	1	1222	G
36	1	1227	C
36	1	1232	C
36	1	1234	G
36	1	1235	U
36	1	1236	G
36	1	1237	G
36	1	1241	U
36	1	1243	G
36	1	1245	A
36	1	1246	G
36	1	1248	C
36	1	1249	G
36	1	1251	A
36	1	1258	U
36	1	1262	G
36	1	1263	A
36	1	1264	G
36	1	1265	U
36	1	1266	G
36	1	1267	U
36	1	1269	U
36	1	1270	A
36	1	1271	A
36	1	1272	C
36	1	1274	A
36	1	1278	A
36	1	1279	C
36	1	1280	C
36	1	1285	G
36	1	1287	A
36	1	1295	G
36	1	1305	U
36	1	1307	G
36	1	1308	A

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Mol	Chain	Res	Type
36	1	1309	U
36	1	1313	G
36	1	1330	A
36	1	1331	U
36	1	1348	U
36	1	1349	G
36	1	1350	A
36	1	1351	U
36	1	1352	A
36	1	1353	U
36	1	1355	A
36	1	1356	U
36	1	1357	G
36	1	1380	G
36	1	1386	A
36	1	1387	G
36	1	1399	A
36	1	1400	G
36	1	1417	G
36	1	1418	A
36	1	1419	A
36	1	1421	G
36	1	1431	G
36	1	1433	A
36	1	1434	G
36	1	1435	A
36	1	1437	C
36	1	1446	A
36	1	1450	G
36	1	1452	A
36	1	1455	U
36	1	1462	A
36	1	1477	A
36	1	1481	A
36	1	1482	A
36	1	1485	G
36	1	1492	G
36	1	1494	U
36	1	1508	C
36	1	1511	U
36	1	1516	C
36	1	1528	G

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Mol	Chain	Res	Type
36	1	1531	C
36	1	1535	A
36	1	1541	G
36	1	1549	U
36	1	1556	C
36	1	1557	A
36	1	1560	G
36	1	1561	G
36	1	1562	C
36	1	1563	C
36	1	1564	U
36	1	1566	A
36	1	1567	U
36	1	1568	U
36	1	1569	U
36	1	1570	U
36	1	1576	G
36	1	1578	C
36	1	1580	A
36	1	1582	C
36	1	1583	A
36	1	1587	A
36	1	1589	A
36	1	1596	C
36	1	1607	U
36	1	1620	U
36	1	1621	A
36	1	1629	U
36	1	1639	C
36	1	1642	A
36	1	1643	A
36	1	1645	U
36	1	1657	C
36	1	1683	A
36	1	1715	A
36	1	1716	U
36	1	1717	U
36	1	1724	U
36	1	1725	C
36	1	1727	G
36	1	1729	A
36	1	1736	G

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Mol	Chain	Res	Type
36	1	1741	A
36	1	1742	U
36	1	1743	G
36	1	1745	C
36	1	1750	A
36	1	1751	G
36	1	1760	A
36	1	1762	C
36	1	1765	U
36	1	1766	G
36	1	1767	C
36	1	1769	G
36	1	1770	G
36	1	1775	G
36	1	1779	C
36	1	1780	G
36	1	1781	C
36	1	1787	A
36	1	1788	C
36	1	1797	A
36	1	1809	A
36	1	1810	A
36	1	1814	A
36	1	1815	U
36	1	1816	A
36	1	1817	G
36	1	1819	U
36	1	1820	U
36	1	1821	U
36	1	1822	C
36	1	1834	U
36	1	1835	A
36	1	1839	A
36	1	1841	A
36	1	1842	A
36	1	1845	G
36	1	1846	C
36	1	1849	C
36	1	1850	A
36	1	1857	C
36	1	1858	A
36	1	1866	C

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Mol	Chain	Res	Type
36	1	1879	A
36	1	1880	U
36	1	1881	A
36	1	1886	A
36	1	1900	A
36	1	1906	G
36	1	1931	U
36	1	1932	A
36	1	1935	G
36	1	1948	G
36	1	1950	U
36	1	1951	C
36	1	1952	G
36	1	1953	G
36	1	1954	G
36	1	2094	C
36	1	2101	C
36	1	2102	U
36	1	2111	G
36	1	2112	U
36	1	2113	A
36	1	2114	C
36	1	2121	G
36	1	2122	G
36	1	2131	A
36	1	2134	G
36	1	2140	U
36	1	2144	A
36	1	2158	A
36	1	2168	A
36	1	2169	G
36	1	2170	U
36	1	2171	G
36	1	2185	G
36	1	2188	A
36	1	2198	A
36	1	2205	U
36	1	2208	A
36	1	2210	G
36	1	2222	A
36	1	2223	A
36	1	2225	U

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Mol	Chain	Res	Type
36	1	2228	A
36	1	2229	A
36	1	2230	C
36	1	2244	A
36	1	2248	C
36	1	2250	G
36	1	2255	A
36	1	2256	A
36	1	2257	C
36	1	2263	C
36	1	2272	G
36	1	2279	A
36	1	2281	A
36	1	2282	U
36	1	2284	C
36	1	2288	G
36	1	2295	A
36	1	2299	A
36	1	2307	G
36	1	2310	U
36	1	2313	A
36	1	2314	U
36	1	2315	G
36	1	2334	U
36	1	2336	U
36	1	2345	A
36	1	2372	A
36	1	2373	A
36	1	2374	C
36	1	2375	G
36	1	2385	G
36	1	2393	G
36	1	2394	G
36	1	2397	A
36	1	2398	A
36	1	2401	A
36	1	2403	G
36	1	2404	A
36	1	2405	C
36	1	2411	U
36	1	2418	G
36	1	2419	A

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Mol	Chain	Res	Type
36	1	2434	U
36	1	2437	G
36	1	2444	C
36	1	2445	A
36	1	2502	A
36	1	2503	G
36	1	2507	C
36	1	2514	U
36	1	2515	A
36	1	2522	G
36	1	2523	A
36	1	2532	U
36	1	2533	G
36	1	2534	G
36	1	2537	U
36	1	2538	U
36	1	2539	C
36	1	2540	A
36	1	2541	U
36	1	2542	U
36	1	2543	U
36	1	2547	A
36	1	2548	C
36	1	2549	G
36	1	2552	C
36	1	2555	G
36	1	2560	C
36	1	2561	A
36	1	2568	C
36	1	2569	A
36	1	2570	U
36	1	2571	U
36	1	2572	C
36	1	2573	G
36	1	2581	U
36	1	2585	G
36	1	2586	G
36	1	2593	A
36	1	2594	C
36	1	2606	G
36	1	2607	G
36	1	2614	G

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Mol	Chain	Res	Type
36	1	2618	G
36	1	2638	C
36	1	2648	G
36	1	2649	A
36	1	2652	U
36	1	2656	A
36	1	2657	A
36	1	2662	G
36	1	2672	G
36	1	2674	A
36	1	2676	A
36	1	2677	G
36	1	2681	U
36	1	2689	A
36	1	2690	G
36	1	2694	A
36	1	2696	A
36	1	2705	A
36	1	2714	G
36	1	2727	A
36	1	2728	G
36	1	2729	U
36	1	2740	A
36	1	2752	U
36	1	2753	G
36	1	2755	C
36	1	2762	A
36	1	2771	U
36	1	2772	C
36	1	2777	G
36	1	2778	G
36	1	2780	A
36	1	2796	G
36	1	2800	G
36	1	2801	A
36	1	2802	A
36	1	2810	C
36	1	2814	G
36	1	2817	A
36	1	2818	U
36	1	2829	U
36	1	2842	U

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Mol	Chain	Res	Type
36	1	2843	U
36	1	2845	A
36	1	2849	C
36	1	2855	U
36	1	2860	U
36	1	2863	G
36	1	2869	U
36	1	2870	C
36	1	2871	G
36	1	2872	A
36	1	2873	U
36	1	2874	G
36	1	2875	U
36	1	2878	G
36	1	2887	A
36	1	2889	C
36	1	2895	G
36	1	2898	G
36	1	2899	C
36	1	2900	A
36	1	2911	A
36	1	2917	G
36	1	2923	U
36	1	2927	C
36	1	2935	U
36	1	2936	A
36	1	2947	G
36	1	2951	G
36	1	2954	U
36	1	2955	U
36	1	2971	A
36	1	2974	U
36	1	2976	A
36	1	2978	U
36	1	2979	U
36	1	2983	C
36	1	2990	G
36	1	2996	U
36	1	2997	G
36	1	3012	A
36	1	3021	A
36	1	3056	U

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Mol	Chain	Res	Type
36	1	3058	U
36	1	3059	G
36	1	3078	U
36	1	3079	U
36	1	3080	G
36	1	3083	G
36	1	3086	A
36	1	3087	A
36	1	3088	G
36	1	3091	A
36	1	3092	C
36	1	3104	U
36	1	3109	G
36	1	3117	C
36	1	3118	C
36	1	3122	A
36	1	3129	A
36	1	3130	A
36	1	3131	U
36	1	3139	A
36	1	3142	A
36	1	3143	C
36	1	3145	C
36	1	3151	U
36	1	3153	U
36	1	3154	C
36	1	3155	U
36	1	3156	U
36	1	3157	U
36	1	3164	C
36	1	3165	A
36	1	3169	U
36	1	3170	A
36	1	3171	U
36	1	3173	G
36	1	3174	A
36	1	3175	U
36	1	3176	G
36	1	3179	U
36	1	3180	A
36	1	3181	C
36	1	3187	A

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Mol	Chain	Res	Type
36	1	3195	U
36	1	3196	U
36	1	3199	G
36	1	3207	U
36	1	3208	G
36	1	3210	A
36	1	3217	C
36	1	3218	A
36	1	3219	G
36	1	3228	C
36	1	3229	G
36	1	3235	C
36	1	3243	A
36	1	3244	A
36	1	3245	A
36	1	3246	G
36	1	3247	G
36	1	3253	G
36	1	3259	U
36	1	3270	U
36	1	3272	C
36	1	3276	G
36	1	3279	A
36	1	3280	U
36	1	3281	U
36	1	3286	G
36	1	3287	U
36	1	3289	G
36	1	3294	A
36	1	3295	A
36	1	3304	U
36	1	3309	G
36	1	3316	A
36	1	3317	U
36	1	3318	G
36	1	3319	U
36	1	3320	A
36	1	3330	A
36	1	3335	A
36	1	3341	U
36	1	3342	A
36	1	3345	G

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Mol	Chain	Res	Type
36	1	3347	A
36	1	3349	C
36	1	3350	C
36	1	3351	U
36	1	3352	U
36	1	3353	G
36	1	3354	U
36	1	3355	U
36	1	3356	G
36	1	3363	U
36	1	3369	G
36	1	3375	A
36	1	3376	A
36	1	3378	C
36	1	3382	U
36	1	3383	G
36	1	3389	U
36	1	3390	G
36	1	3396	U
37	3	7	G
37	3	13	A
37	3	22	A
37	3	23	A
37	3	41	G
37	3	51	A
37	3	53	U
37	3	54	U
37	3	55	A
37	3	65	G
37	3	74	C
37	3	76	A
37	3	91	G
37	3	102	A
37	3	103	A
37	3	106	U
37	3	112	G
37	3	121	U
38	4	2	A
38	4	16	G
38	4	17	A
38	4	18	U
38	4	34	U

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Mol	Chain	Res	Type
38	4	35	C
38	4	43	A
38	4	51	G
38	4	59	A
38	4	62	C
38	4	63	G
38	4	75	G
38	4	79	A
38	4	80	A
38	4	81	U
38	4	82	U
38	4	83	C
38	4	84	C
38	4	85	G
38	4	86	U
38	4	90	U
38	4	95	G
38	4	104	A
38	4	106	C
38	4	110	C
38	4	111	A
38	4	113	U
38	4	125	U
38	4	126	A
38	4	128	U
38	4	138	A
38	4	144	G
38	4	148	G
38	4	152	G
38	4	155	A
38	4	157	U
38	4	158	U
1	6	2	A
1	6	4	C
1	6	11	A
1	6	17	C
1	6	25	C
1	6	26	A
1	6	27	U
1	6	34	G
1	6	42	G
1	6	45	U

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Mol	Chain	Res	Type
1	6	47	A
1	6	48	G
1	6	50	C
1	6	57	G
1	6	60	U
1	6	66	U
1	6	67	A
1	6	68	A
1	6	69	G
1	6	72	A
1	6	73	U
1	6	75	U
1	6	76	A
1	6	77	U
1	6	78	A
1	6	100	A
1	6	103	A
1	6	104	A
1	6	105	A
1	6	111	U
1	6	114	C
1	6	115	G
1	6	128	U
1	6	137	U
1	6	138	A
1	6	140	A
1	6	141	U
1	6	144	U
1	6	145	A
1	6	146	U
1	6	158	U
1	6	159	U
1	6	161	U
1	6	166	C
1	6	178	U
1	6	185	U
1	6	188	A
1	6	190	C
1	6	191	C
1	6	192	U
1	6	193	U
1	6	194	U

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Mol	Chain	Res	Type
1	6	195	G
1	6	199	G
1	6	200	A
1	6	215	A
1	6	216	U
1	6	217	A
1	6	218	A
1	6	219	A
1	6	220	A
1	6	222	A
1	6	226	A
1	6	227	U
1	6	228	G
1	6	230	C
1	6	232	U
1	6	233	C
1	6	235	G
1	6	240	U
1	6	241	U
1	6	249	U
1	6	250	C
1	6	260	U
1	6	261	U
1	6	265	A
1	6	268	C
1	6	271	A
1	6	272	U
1	6	273	G
1	6	277	U
1	6	278	U
1	6	280	U
1	6	281	G
1	6	287	G
1	6	299	A
1	6	302	U
1	6	304	U
1	6	306	U
1	6	314	C
1	6	316	A
1	6	320	U
1	6	321	C
1	6	324	U

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Mol	Chain	Res	Type
1	6	333	A
1	6	337	G
1	6	338	C
1	6	352	A
1	6	357	G
1	6	359	A
1	6	360	A
1	6	361	C
1	6	390	G
1	6	391	A
1	6	400	A
1	6	401	A
1	6	402	C
1	6	404	G
1	6	416	A
1	6	418	G
1	6	424	C
1	6	425	A
1	6	426	G
1	6	434	G
1	6	437	A
1	6	439	U
1	6	444	C
1	6	448	C
1	6	454	U
1	6	468	A
1	6	477	A
1	6	484	C
1	6	485	A
1	6	486	G
1	6	487	G
1	6	488	G
1	6	489	C
1	6	490	C
1	6	492	A
1	6	493	U
1	6	494	U
1	6	496	G
1	6	497	G
1	6	500	C
1	6	501	U
1	6	504	U

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Mol	Chain	Res	Type
1	6	505	A
1	6	506	A
1	6	507	U
1	6	508	U
1	6	510	G
1	6	511	A
1	6	512	A
1	6	513	U
1	6	515	A
1	6	519	C
1	6	527	A
1	6	534	A
1	6	538	A
1	6	539	G
1	6	540	G
1	6	541	A
1	6	542	A
1	6	543	C
1	6	544	A
1	6	548	G
1	6	551	G
1	6	555	A
1	6	556	A
1	6	557	G
1	6	558	U
1	6	559	C
1	6	564	G
1	6	565	C
1	6	574	G
1	6	578	U
1	6	579	A
1	6	580	A
1	6	582	U
1	6	594	A
1	6	595	G
1	6	597	G
1	6	610	G
1	6	619	A
1	6	620	A
1	6	622	A
1	6	623	A
1	6	624	G

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Mol	Chain	Res	Type
1	6	630	A
1	6	635	A
1	6	639	U
1	6	645	C
1	6	649	U
1	6	650	U
1	6	651	G
1	6	652	G
1	6	653	C
1	6	661	A
1	6	662	U
1	6	665	U
1	6	667	U
1	6	668	C
1	6	669	G
1	6	670	U
1	6	676	G
1	6	678	A
1	6	679	U
1	6	680	U
1	6	681	U
1	6	682	C
1	6	683	C
1	6	684	A
1	6	685	A
1	6	690	G
1	6	691	C
1	6	696	C
1	6	697	C
1	6	698	U
1	6	709	C
1	6	710	U
1	6	711	U
1	6	714	G
1	6	715	U
1	6	718	U
1	6	719	U
1	6	720	G
1	6	721	U
1	6	722	G
1	6	730	G
1	6	742	U

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Mol	Chain	Res	Type
1	6	751	G
1	6	753	A
1	6	754	A
1	6	755	A
1	6	756	A
1	6	765	G
1	6	766	U
1	6	767	U
1	6	774	A
1	6	775	G
1	6	780	A
1	6	781	U
1	6	782	U
1	6	783	G
1	6	789	A
1	6	792	U
1	6	793	A
1	6	794	U
1	6	803	A
1	6	806	A
1	6	811	A
1	6	812	A
1	6	814	A
1	6	815	G
1	6	816	G
1	6	821	U
1	6	823	G
1	6	825	U
1	6	826	U
1	6	829	A
1	6	830	U
1	6	831	U
1	6	832	U
1	6	834	G
1	6	835	U
1	6	856	A
1	6	857	U
1	6	860	U
1	6	861	U
1	6	863	A
1	6	876	G
1	6	898	A

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Mol	Chain	Res	Type
1	6	905	A
1	6	906	A
1	6	909	U
1	6	910	C
1	6	913	G
1	6	914	G
1	6	916	U
1	6	929	A
1	6	933	A
1	6	935	U
1	6	940	A
1	6	942	G
1	6	944	A
1	6	959	U
1	6	960	U
1	6	965	U
1	6	966	A
1	6	969	C
1	6	970	A
1	6	971	A
1	6	972	G
1	6	983	A
1	6	989	U
1	6	992	A
1	6	993	A
1	6	995	A
1	6	996	U
1	6	1003	A
1	6	1004	U
1	6	1005	A
1	6	1014	G
1	6	1021	C
1	6	1026	A
1	6	1028	C
1	6	1029	U
1	6	1039	A
1	6	1040	G
1	6	1052	U
1	6	1053	G
1	6	1057	U
1	6	1058	U
1	6	1059	U

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Mol	Chain	Res	Type
1	6	1060	U
1	6	1063	U
1	6	1072	C
1	6	1073	G
1	6	1082	C
1	6	1092	A
1	6	1096	C
1	6	1097	U
1	6	1098	U
1	6	1100	G
1	6	1109	G
1	6	1111	G
1	6	1113	A
1	6	1118	G
1	6	1137	A
1	6	1138	A
1	6	1139	A
1	6	1151	A
1	6	1155	G
1	6	1158	C
1	6	1159	C
1	6	1160	A
1	6	1162	C
1	6	1164	G
1	6	1167	G
1	6	1185	U
1	6	1194	A
1	6	1196	A
1	6	1199	G
1	6	1200	G
1	6	1202	A
1	6	1207	C
1	6	1208	A
1	6	1217	A
1	6	1218	G
1	6	1225	U
1	6	1226	A
1	6	1227	A
1	6	1228	G
1	6	1229	G
1	6	1230	A
1	6	1234	A

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Mol	Chain	Res	Type
1	6	1241	G
1	6	1242	A
1	6	1243	G
1	6	1244	A
1	6	1245	G
1	6	1246	C
1	6	1248	C
1	6	1252	C
1	6	1255	G
1	6	1256	A
1	6	1257	U
1	6	1258	U
1	6	1259	U
1	6	1275	A
1	6	1286	U
1	6	1288	G
1	6	1293	U
1	6	1314	U
1	6	1315	U
1	6	1321	A
1	6	1334	U
1	6	1338	C
1	6	1344	A
1	6	1345	A
1	6	1347	U
1	6	1354	G
1	6	1361	U
1	6	1363	U
1	6	1364	G
1	6	1367	G
1	6	1370	U
1	6	1371	A
1	6	1383	G
1	6	1388	A
1	6	1390	U
1	6	1398	U
1	6	1399	C
1	6	1400	A
1	6	1402	G
1	6	1413	U
1	6	1414	U
1	6	1415	U

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Mol	Chain	Res	Type
1	6	1422	A
1	6	1427	A
1	6	1428	G
1	6	1429	G
1	6	1433	G
1	6	1435	G
1	6	1445	G
1	6	1446	A
1	6	1448	G
1	6	1454	G
1	6	1458	G
1	6	1459	C
1	6	1461	C
1	6	1471	A
1	6	1473	U
1	6	1474	G
1	6	1481	C
1	6	1482	C
1	6	1486	G
1	6	1489	U
1	6	1490	C
1	6	1491	U
1	6	1492	A
1	6	1493	A
1	6	1496	U
1	6	1506	G
1	6	1514	U
1	6	1515	A
1	6	1516	A
1	6	1517	U
1	6	1521	G
1	6	1523	G
1	6	1524	A
1	6	1535	U
1	6	1536	G
1	6	1537	C
1	6	1538	U
1	6	1540	G
1	6	1554	U
1	6	1557	U
1	6	1559	A
1	6	1569	A

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Mol	Chain	Res	Type
1	6	1573	A
1	6	1574	G
1	6	1584	G
1	6	1590	G
1	6	1601	G
1	6	1616	G
1	6	1620	C
1	6	1621	U
1	6	1634	C
1	6	1637	C
1	6	1638	G
1	6	1657	U
1	6	1658	G
1	6	1682	U
1	6	1697	G
1	6	1698	G
1	6	1699	G
1	6	1700	C
1	6	1701	A
1	6	1702	A
1	6	1703	C
1	6	1712	A
1	6	1713	G
1	6	1715	G
1	6	1716	C
1	6	1717	G
1	6	1736	G
1	6	1749	A
1	6	1755	A
1	6	1760	G
1	6	1766	A
1	6	1767	G
1	6	1769	U
1	6	1780	G
1	6	1782	A
1	6	1783	C
1	6	1792	G
1	6	1793	G
1	6	1794	A
1	6	1796	C
1	6	1799	U
1	6	1800	A

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Mol	Chain	Res	Type
36	5	4	U
36	5	16	A
36	5	26	A
36	5	40	A
36	5	43	A
36	5	44	U
36	5	49	A
36	5	59	G
36	5	60	A
36	5	65	A
36	5	66	A
36	5	75	G
36	5	76	G
36	5	82	C
36	5	85	A
36	5	92	G
36	5	94	G
36	5	96	G
36	5	97	U
36	5	99	A
36	5	101	G
36	5	105	C
36	5	109	A
36	5	110	G
36	5	113	C
36	5	115	A
36	5	116	A
36	5	120	G
36	5	121	A
36	5	122	A
36	5	127	G
36	5	133	U
36	5	134	U
36	5	135	C
36	5	136	G
36	5	150	A
36	5	152	U
36	5	156	G
36	5	157	A
36	5	165	A
36	5	166	C
36	5	170	G

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Mol	Chain	Res	Type
36	5	171	G
36	5	172	G
36	5	174	C
36	5	180	C
36	5	182	U
36	5	183	G
36	5	184	U
36	5	187	A
36	5	190	U
36	5	191	U
36	5	200	C
36	5	203	G
36	5	210	U
36	5	212	G
36	5	213	A
36	5	218	G
36	5	219	A
36	5	221	A
36	5	231	G
36	5	234	G
36	5	236	G
36	5	237	G
36	5	239	G
36	5	240	U
36	5	244	G
36	5	246	U
36	5	247	C
36	5	248	U
36	5	249	U
36	5	250	U
36	5	251	G
36	5	252	U
36	5	253	A
36	5	254	A
36	5	269	G
36	5	283	G
36	5	284	A
36	5	286	U
36	5	291	C
36	5	295	A
36	5	298	U
36	5	316	U

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Mol	Chain	Res	Type
36	5	323	A
36	5	329	U
36	5	339	C
36	5	349	A
36	5	350	C
36	5	351	A
36	5	372	A
36	5	376	G
36	5	395	A
36	5	398	A
36	5	399	A
36	5	401	U
36	5	402	A
36	5	403	C
36	5	409	A
36	5	417	A
36	5	420	G
36	5	421	G
36	5	422	A
36	5	436	A
36	5	438	A
36	5	439	C
36	5	441	U
36	5	442	G
36	5	492	U
36	5	495	G
36	5	507	U
36	5	510	G
36	5	512	U
36	5	515	C
36	5	520	U
36	5	521	A
36	5	532	A
36	5	535	G
36	5	539	C
36	5	542	G
36	5	546	C
36	5	547	G
36	5	548	G
36	5	553	U
36	5	555	U
36	5	557	A

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Mol	Chain	Res	Type
36	5	559	A
36	5	578	A
36	5	579	G
36	5	592	A
36	5	594	U
36	5	600	G
36	5	604	G
36	5	608	A
36	5	609	G
36	5	610	G
36	5	611	A
36	5	619	A
36	5	620	U
36	5	621	A
36	5	628	A
36	5	636	C
36	5	648	C
36	5	649	A
36	5	657	A
36	5	660	A
36	5	677	A
36	5	681	U
36	5	691	A
36	5	699	A
36	5	705	A
36	5	708	G
36	5	712	G
36	5	715	A
36	5	716	A
36	5	725	G
36	5	727	G
36	5	736	A
36	5	763	G
36	5	766	U
36	5	767	U
36	5	776	U
36	5	781	G
36	5	785	G
36	5	786	A
36	5	798	G
36	5	800	G
36	5	806	A

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Mol	Chain	Res	Type
36	5	817	A
36	5	830	A
36	5	831	G
36	5	851	C
36	5	861	C
36	5	864	G
36	5	867	G
36	5	874	U
36	5	877	C
36	5	879	U
36	5	891	G
36	5	892	U
36	5	896	A
36	5	897	U
36	5	907	G
36	5	908	G
36	5	910	G
36	5	911	C
36	5	914	A
36	5	916	G
36	5	917	A
36	5	921	A
36	5	923	C
36	5	937	G
36	5	944	C
36	5	959	C
36	5	960	U
36	5	962	A
36	5	964	G
36	5	974	G
36	5	979	U
36	5	993	G
36	5	994	G
36	5	1000	C
36	5	1001	G
36	5	1002	A
36	5	1006	A
36	5	1010	G
36	5	1014	U
36	5	1015	U
36	5	1017	C
36	5	1018	G

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Mol	Chain	Res	Type
36	5	1019	G
36	5	1021	G
36	5	1024	G
36	5	1025	A
36	5	1026	A
36	5	1027	A
36	5	1028	U
36	5	1029	G
36	5	1032	C
36	5	1033	U
36	5	1041	U
36	5	1047	A
36	5	1049	C
36	5	1051	U
36	5	1063	G
36	5	1064	A
36	5	1065	A
36	5	1071	U
36	5	1072	G
36	5	1079	A
36	5	1081	U
36	5	1082	U
36	5	1083	G
36	5	1085	A
36	5	1093	A
36	5	1094	U
36	5	1095	U
36	5	1096	U
36	5	1097	G
36	5	1098	A
36	5	1103	A
36	5	1104	G
36	5	1112	A
36	5	1116	G
36	5	1117	G
36	5	1131	G
36	5	1143	A
36	5	1144	U
36	5	1152	G
36	5	1153	A
36	5	1159	A
36	5	1160	C

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Mol	Chain	Res	Type
36	5	1161	G
36	5	1179	A
36	5	1180	A
36	5	1181	U
36	5	1182	A
36	5	1191	U
36	5	1192	C
36	5	1193	A
36	5	1197	A
36	5	1201	C
36	5	1202	A
36	5	1208	U
36	5	1209	G
36	5	1212	A
36	5	1213	G
36	5	1221	A
36	5	1222	G
36	5	1223	A
36	5	1225	A
36	5	1232	C
36	5	1235	U
36	5	1236	G
36	5	1237	G
36	5	1239	C
36	5	1241	U
36	5	1242	G
36	5	1245	A
36	5	1246	G
36	5	1252	A
36	5	1253	U
36	5	1254	C
36	5	1258	U
36	5	1262	G
36	5	1263	A
36	5	1264	G
36	5	1266	G
36	5	1285	G
36	5	1286	A
36	5	1307	G
36	5	1308	A
36	5	1309	U
36	5	1311	G

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Mol	Chain	Res	Type
36	5	1312	C
36	5	1324	U
36	5	1330	A
36	5	1348	U
36	5	1349	G
36	5	1350	A
36	5	1351	U
36	5	1352	A
36	5	1353	U
36	5	1355	A
36	5	1356	U
36	5	1357	G
36	5	1368	U
36	5	1370	G
36	5	1380	G
36	5	1385	C
36	5	1386	A
36	5	1387	G
36	5	1399	A
36	5	1400	G
36	5	1419	A
36	5	1428	A
36	5	1431	G
36	5	1433	A
36	5	1434	G
36	5	1437	C
36	5	1443	G
36	5	1446	A
36	5	1450	G
36	5	1455	U
36	5	1465	A
36	5	1481	A
36	5	1482	A
36	5	1490	A
36	5	1502	C
36	5	1503	A
36	5	1508	C
36	5	1514	G
36	5	1519	G
36	5	1526	U
36	5	1527	C
36	5	1528	G

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Mol	Chain	Res	Type
36	5	1533	U
36	5	1536	G
36	5	1541	G
36	5	1554	U
36	5	1555	U
36	5	1556	C
36	5	1557	A
36	5	1558	A
36	5	1560	G
36	5	1561	G
36	5	1562	C
36	5	1566	A
36	5	1567	U
36	5	1569	U
36	5	1570	U
36	5	1571	A
36	5	1572	U
36	5	1574	C
36	5	1575	A
36	5	1576	G
36	5	1577	G
36	5	1578	C
36	5	1579	C
36	5	1581	C
36	5	1583	A
36	5	1587	A
36	5	1589	A
36	5	1593	A
36	5	1594	A
36	5	1605	A
36	5	1607	U
36	5	1619	A
36	5	1620	U
36	5	1623	G
36	5	1629	U
36	5	1630	U
36	5	1632	A
36	5	1639	C
36	5	1641	U
36	5	1643	A
36	5	1644	C
36	5	1645	U

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Mol	Chain	Res	Type
36	5	1656	A
36	5	1675	G
36	5	1683	A
36	5	1686	U
36	5	1716	U
36	5	1717	U
36	5	1724	U
36	5	1736	G
36	5	1741	A
36	5	1750	A
36	5	1751	G
36	5	1753	G
36	5	1761	C
36	5	1762	C
36	5	1765	U
36	5	1766	G
36	5	1768	U
36	5	1770	G
36	5	1780	G
36	5	1793	C
36	5	1795	U
36	5	1797	A
36	5	1808	G
36	5	1810	A
36	5	1813	A
36	5	1814	A
36	5	1815	U
36	5	1816	A
36	5	1817	G
36	5	1818	U
36	5	1821	U
36	5	1834	U
36	5	1839	A
36	5	1841	A
36	5	1842	A
36	5	1846	C
36	5	1849	C
36	5	1850	A
36	5	1864	A
36	5	1866	C
36	5	1878	G
36	5	1879	A

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Mol	Chain	Res	Type
36	5	1880	U
36	5	1888	U
36	5	1890	U
36	5	1893	A
36	5	1903	U
36	5	1906	G
36	5	1926	C
36	5	1932	A
36	5	1948	G
36	5	1953	G
36	5	2101	C
36	5	2102	U
36	5	2111	G
36	5	2112	U
36	5	2113	A
36	5	2116	G
36	5	2121	G
36	5	2122	G
36	5	2131	A
36	5	2134	G
36	5	2144	A
36	5	2158	A
36	5	2164	A
36	5	2169	G
36	5	2172	A
36	5	2174	G
36	5	2176	U
36	5	2179	C
36	5	2184	U
36	5	2187	G
36	5	2188	A
36	5	2192	C
36	5	2195	C
36	5	2198	A
36	5	2205	U
36	5	2206	G
36	5	2208	A
36	5	2210	G
36	5	2215	A
36	5	2223	A
36	5	2225	U
36	5	2228	A

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Mol	Chain	Res	Type
36	5	2229	A
36	5	2244	A
36	5	2246	G
36	5	2249	G
36	5	2250	G
36	5	2252	A
36	5	2253	G
36	5	2255	A
36	5	2256	A
36	5	2258	U
36	5	2273	G
36	5	2276	G
36	5	2279	A
36	5	2281	A
36	5	2282	U
36	5	2283	G
36	5	2288	G
36	5	2298	U
36	5	2307	G
36	5	2309	A
36	5	2310	U
36	5	2313	A
36	5	2315	G
36	5	2334	U
36	5	2335	G
36	5	2336	U
36	5	2361	A
36	5	2362	C
36	5	2373	A
36	5	2374	C
36	5	2375	G
36	5	2379	U
36	5	2385	G
36	5	2392	C
36	5	2393	G
36	5	2394	G
36	5	2397	A
36	5	2398	A
36	5	2401	A
36	5	2403	G
36	5	2404	A
36	5	2411	U

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Mol	Chain	Res	Type
36	5	2418	G
36	5	2435	G
36	5	2436	U
36	5	2438	A
36	5	2439	A
36	5	2441	A
36	5	2443	A
36	5	2505	U
36	5	2508	U
36	5	2510	U
36	5	2511	A
36	5	2514	U
36	5	2515	A
36	5	2523	A
36	5	2524	A
36	5	2525	G
36	5	2526	C
36	5	2530	G
36	5	2531	C
36	5	2532	U
36	5	2537	U
36	5	2538	U
36	5	2539	C
36	5	2540	A
36	5	2541	U
36	5	2543	U
36	5	2549	G
36	5	2552	C
36	5	2555	G
36	5	2562	A
36	5	2565	U
36	5	2566	C
36	5	2567	C
36	5	2568	C
36	5	2569	A
36	5	2570	U
36	5	2571	U
36	5	2572	C
36	5	2573	G
36	5	2574	G
36	5	2584	G
36	5	2585	G

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Mol	Chain	Res	Type
36	5	2589	G
36	5	2593	A
36	5	2600	C
36	5	2606	G
36	5	2607	G
36	5	2613	U
36	5	2614	G
36	5	2619	G
36	5	2620	G
36	5	2626	A
36	5	2642	A
36	5	2652	U
36	5	2656	A
36	5	2667	A
36	5	2674	A
36	5	2675	C
36	5	2676	A
36	5	2677	G
36	5	2681	U
36	5	2683	U
36	5	2689	A
36	5	2690	G
36	5	2691	A
36	5	2694	A
36	5	2696	A
36	5	2705	A
36	5	2709	C
36	5	2714	G
36	5	2719	U
36	5	2727	A
36	5	2728	G
36	5	2729	U
36	5	2742	C
36	5	2752	U
36	5	2753	G
36	5	2771	U
36	5	2772	C
36	5	2773	C
36	5	2778	G
36	5	2779	A
36	5	2783	U
36	5	2786	G

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Mol	Chain	Res	Type
36	5	2791	G
36	5	2792	A
36	5	2796	G
36	5	2798	C
36	5	2799	A
36	5	2800	G
36	5	2801	A
36	5	2810	C
36	5	2814	G
36	5	2817	A
36	5	2818	U
36	5	2834	G
36	5	2839	G
36	5	2840	C
36	5	2843	U
36	5	2845	A
36	5	2847	A
36	5	2849	C
36	5	2853	A
36	5	2858	U
36	5	2870	C
36	5	2871	G
36	5	2872	A
36	5	2873	U
36	5	2874	G
36	5	2875	U
36	5	2880	U
36	5	2881	C
36	5	2886	U
36	5	2887	A
36	5	2889	C
36	5	2896	A
36	5	2899	C
36	5	2910	A
36	5	2911	A
36	5	2914	G
36	5	2922	G
36	5	2923	U
36	5	2935	U
36	5	2936	A
36	5	2942	C
36	5	2947	G

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Mol	Chain	Res	Type
36	5	2954	U
36	5	2956	A
36	5	2957	G
36	5	2964	G
36	5	2970	C
36	5	2971	A
36	5	2972	G
36	5	2973	G
36	5	2980	U
36	5	2983	C
36	5	2990	G
36	5	2992	U
36	5	2993	G
36	5	2996	U
36	5	2997	G
36	5	3012	A
36	5	3021	A
36	5	3028	G
36	5	3030	G
36	5	3056	U
36	5	3057	U
36	5	3059	G
36	5	3061	G
36	5	3069	G
36	5	3070	A
36	5	3078	U
36	5	3079	U
36	5	3080	G
36	5	3086	A
36	5	3092	C
36	5	3100	U
36	5	3102	G
36	5	3115	C
36	5	3119	U
36	5	3122	A
36	5	3123	A
36	5	3127	A
36	5	3130	A
36	5	3131	U
36	5	3139	A
36	5	3142	A
36	5	3143	C

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Mol	Chain	Res	Type
36	5	3153	U
36	5	3154	C
36	5	3155	U
36	5	3156	U
36	5	3157	U
36	5	3158	G
36	5	3164	C
36	5	3165	A
36	5	3167	A
36	5	3168	A
36	5	3171	U
36	5	3172	A
36	5	3173	G
36	5	3174	A
36	5	3176	G
36	5	3179	U
36	5	3180	A
36	5	3181	C
36	5	3187	A
36	5	3195	U
36	5	3196	U
36	5	3198	U
36	5	3200	G
36	5	3207	U
36	5	3217	C
36	5	3218	A
36	5	3219	G
36	5	3227	A
36	5	3228	C
36	5	3229	G
36	5	3238	G
36	5	3239	G
36	5	3243	A
36	5	3244	A
36	5	3245	A
36	5	3246	G
36	5	3247	G
36	5	3253	G
36	5	3259	U
36	5	3265	C
36	5	3268	A
36	5	3269	U

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Mol	Chain	Res	Type
36	5	3270	U
36	5	3271	G
36	5	3275	U
36	5	3276	G
36	5	3277	U
36	5	3279	A
36	5	3281	U
36	5	3282	U
36	5	3285	C
36	5	3286	G
36	5	3288	G
36	5	3289	G
36	5	3290	G
36	5	3294	A
36	5	3295	A
36	5	3304	U
36	5	3307	A
36	5	3313	U
36	5	3316	A
36	5	3317	U
36	5	3319	U
36	5	3320	A
36	5	3341	U
36	5	3342	A
36	5	3345	G
36	5	3351	U
36	5	3352	U
36	5	3354	U
36	5	3355	U
36	5	3358	U
36	5	3363	U
36	5	3368	U
36	5	3369	G
36	5	3378	C
36	5	3382	U
36	5	3383	G
36	5	3389	U
36	5	3390	G
36	5	3396	U
37	7	18	C
37	7	19	C
37	7	22	A

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Mol	Chain	Res	Type
37	7	23	A
37	7	27	A
37	7	37	G
37	7	38	U
37	7	45	A
37	7	51	A
37	7	53	U
37	7	54	U
37	7	58	C
37	7	60	G
37	7	65	G
37	7	73	C
37	7	74	C
37	7	76	A
37	7	91	G
37	7	93	C
37	7	99	G
37	7	102	A
37	7	103	A
37	7	112	G
38	8	21	C
38	8	23	U
38	8	34	U
38	8	35	C
38	8	48	A
38	8	50	C
38	8	58	G
38	8	59	A
38	8	62	C
38	8	63	G
38	8	79	A
38	8	80	A
38	8	81	U
38	8	82	U
38	8	84	C
38	8	86	U
38	8	87	G
38	8	94	C
38	8	95	G
38	8	97	A
38	8	101	U
38	8	104	A

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Mol	Chain	Res	Type
38	8	105	A
38	8	106	C
38	8	111	A
38	8	113	U
38	8	114	G
38	8	116	G
38	8	125	U
38	8	126	A
38	8	127	U
38	8	138	A
38	8	149	A
38	8	152	G
38	8	156	U
38	8	157	U
38	8	158	U

All (250) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	2	25	C
1	2	68	A
1	2	73	U
1	2	74	U
1	2	103	A
1	2	130	C
1	2	131	C
1	2	139	C
1	2	158	U
1	2	192	U
1	2	217	A
1	2	218	A
1	2	240	U
1	2	278	U
1	2	280	U
1	2	417	A
1	2	484	C
1	2	497	G
1	2	499	U
1	2	501	U
1	2	503	G
1	2	512	A
1	2	555	A

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Mol	Chain	Res	Type
1	2	558	U
1	2	685	A
1	2	704	C
1	2	720	G
1	2	721	U
1	2	734	A
1	2	755	A
1	2	782	U
1	2	794	U
1	2	811	A
1	2	829	A
1	2	913	G
1	2	1051	G
1	2	1058	U
1	2	1081	A
1	2	1157	A
1	2	1196	A
1	2	1226	A
1	2	1244	A
1	2	1250	U
1	2	1339	C
1	2	1344	A
1	2	1370	U
1	2	1481	C
1	2	1489	U
1	2	1568	C
1	2	1573	A
1	2	1615	C
1	2	1657	U
1	2	1696	G
1	2	1698	G
1	2	1711	C
1	2	1761	U
36	1	40	A
36	1	65	A
36	1	169	U
36	1	199	A
36	1	217	U
36	1	239	G
36	1	282	G
36	1	547	G
36	1	588	G

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Mol	Chain	Res	Type
36	1	619	A
36	1	763	G
36	1	916	G
36	1	979	U
36	1	981	U
36	1	993	G
36	1	1064	A
36	1	1094	U
36	1	1097	G
36	1	1103	A
36	1	1190	A
36	1	1196	C
36	1	1233	G
36	1	1273	A
36	1	1307	G
36	1	1317	A
36	1	1329	U
36	1	1331	U
36	1	1352	A
36	1	1355	A
36	1	1484	U
36	1	1562	C
36	1	1716	U
36	1	1816	A
36	1	1820	U
36	1	1835	A
36	1	1858	A
36	1	1879	A
36	1	1931	U
36	1	2101	C
36	1	2112	U
36	1	2121	G
36	1	2209	U
36	1	2227	C
36	1	2249	G
36	1	2281	A
36	1	2372	A
36	1	2396	G
36	1	2537	U
36	1	2541	U
36	1	2554	A
36	1	2585	G

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Mol	Chain	Res	Type
36	1	2592	G
36	1	2593	A
36	1	2818	U
36	1	2873	U
36	1	2874	G
36	1	3078	U
36	1	3121	U
36	1	3169	U
36	1	3195	U
36	1	3218	A
36	1	3228	C
36	1	3269	U
36	1	3275	U
36	1	3316	A
36	1	3319	U
36	1	3350	C
36	1	3351	U
36	1	3353	G
36	1	3375	A
37	3	52	G
38	4	85	G
38	4	125	U
1	6	25	C
1	6	44	U
1	6	66	U
1	6	75	U
1	6	76	A
1	6	136	C
1	6	139	C
1	6	158	U
1	6	187	G
1	6	192	U
1	6	217	A
1	6	240	U
1	6	272	U
1	6	277	U
1	6	352	A
1	6	400	A
1	6	417	A
1	6	512	A
1	6	542	A
1	6	555	A

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Mol	Chain	Res	Type
1	6	558	U
1	6	651	G
1	6	697	C
1	6	717	C
1	6	720	G
1	6	755	A
1	6	829	A
1	6	834	G
1	6	1051	G
1	6	1058	U
1	6	1081	A
1	6	1097	U
1	6	1227	A
1	6	1244	A
1	6	1255	G
1	6	1344	A
1	6	1481	C
1	6	1489	U
1	6	1491	U
1	6	1568	C
1	6	1573	A
1	6	1615	C
1	6	1620	C
1	6	1657	U
1	6	1696	G
1	6	1698	G
1	6	1700	C
36	5	40	A
36	5	65	A
36	5	151	A
36	5	169	U
36	5	183	G
36	5	238	A
36	5	588	G
36	5	594	U
36	5	715	A
36	5	735	A
36	5	765	C
36	5	873	C
36	5	896	A
36	5	916	G
36	5	993	G

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Mol	Chain	Res	Type
36	5	1027	A
36	5	1050	U
36	5	1064	A
36	5	1081	U
36	5	1152	G
36	5	1181	U
36	5	1222	G
36	5	1238	C
36	5	1241	U
36	5	1284	C
36	5	1307	G
36	5	1329	U
36	5	1331	U
36	5	1352	A
36	5	1355	A
36	5	1481	A
36	5	1554	U
36	5	1560	G
36	5	1580	A
36	5	1716	U
36	5	1792	C
36	5	1816	A
36	5	1858	A
36	5	1878	G
36	5	2101	C
36	5	2112	U
36	5	2116	G
36	5	2204	C
36	5	2209	U
36	5	2249	G
36	5	2255	A
36	5	2257	C
36	5	2281	A
36	5	2282	U
36	5	2372	A
36	5	2373	A
36	5	2400	G
36	5	2440	G
36	5	2507	C
36	5	2513	U
36	5	2682	C
36	5	2728	G

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Mol	Chain	Res	Type
36	5	2772	C
36	5	2801	A
36	5	2818	U
36	5	2874	G
36	5	2898	G
36	5	2971	A
36	5	3078	U
36	5	3154	C
36	5	3195	U
36	5	3228	C
36	5	3269	U
36	5	3289	G
36	5	3340	G
36	5	3341	U
36	5	3357	U
37	7	49	G
38	8	126	A

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 2303 ligands modelled in this entry, 1214 are monoatomic - leaving 1089 for Mogul analysis.

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	$\# Z > 2$
85	OHX	1	3401	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	1	3402	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3403	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3404	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3405	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3406	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3407	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3408	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3409	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3410	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3411	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3412	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3413	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3414	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3415	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3416	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3417	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3418	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3419	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3420	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3421	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3422	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3423	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3424	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3425	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3426	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3427	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3428	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3429	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3430	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3431	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3432	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3433	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3434	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3435	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3436	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3437	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3438	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3439	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3440	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3441	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3442	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3443	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3444	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	1	3445	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3446	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3447	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3448	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3449	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3450	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3451	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3452	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3453	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3454	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3455	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3456	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3457	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3458	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3459	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3460	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3461	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3462	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3463	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3464	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3465	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3466	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3467	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3468	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3469	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3470	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3471	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3472	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3473	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3474	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3475	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3476	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3477	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3478	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3479	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3480	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3481	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3482	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3483	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3484	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3485	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3486	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3487	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	1	3488	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3489	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3490	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3491	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3492	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3493	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3494	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3495	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3496	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3497	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3498	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3499	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3500	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3501	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3502	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3503	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3504	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3505	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3506	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3507	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3508	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3509	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3510	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3511	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3512	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3513	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3514	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3515	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3516	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3517	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3518	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3519	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3520	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3521	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3522	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3523	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3524	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3525	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3526	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3527	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3528	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3529	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3530	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	1	3531	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3532	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3533	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3534	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3535	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3536	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3537	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3538	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3539	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3540	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3541	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3542	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3543	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3544	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3545	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3546	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3547	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3548	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3549	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3550	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3551	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3552	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3553	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3554	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3555	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3556	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3557	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3558	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3559	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3560	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3561	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3562	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3563	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3564	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3565	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3566	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3567	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3568	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3569	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3570	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3571	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3572	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3573	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	1	3574	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3575	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3576	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3577	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3578	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3579	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3580	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3581	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3582	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3583	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3584	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3585	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3586	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3587	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3588	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3589	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3590	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3591	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3592	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3593	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3594	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3595	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3596	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3597	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3598	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3599	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3600	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3601	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3602	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3603	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3604	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3605	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3606	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3607	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3608	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3609	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3610	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3611	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3612	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3613	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3614	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3615	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3616	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	1	3617	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3618	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3619	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3620	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3621	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3622	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3623	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3624	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3625	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3626	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3627	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3628	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3629	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3630	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3631	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3632	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3633	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3634	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3635	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3636	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3637	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3638	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3639	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3640	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3641	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3642	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3643	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3644	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3645	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3646	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3647	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3648	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3649	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3650	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3651	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3652	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3653	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3654	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3655	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3656	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3657	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3658	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3659	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	1	3660	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3661	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3662	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3663	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3664	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3665	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3666	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3667	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3668	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3669	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3670	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3671	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3672	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3673	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3674	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3675	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3676	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3677	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3678	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3679	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3680	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3681	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3682	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3683	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3684	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3685	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3686	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3687	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3688	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3689	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3690	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3691	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3692	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3693	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3694	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3695	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3696	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3697	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3698	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3699	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3700	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3701	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3702	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	1	3703	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3704	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3705	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3706	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3707	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3708	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3709	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3710	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3711	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3712	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3713	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3714	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3715	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3716	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3717	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3718	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3719	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3720	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3721	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3722	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3723	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3724	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3725	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3726	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3727	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3728	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3729	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3730	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3731	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3732	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3733	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3734	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3735	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3736	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	1	3737	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1901	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1902	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1903	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1904	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1905	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1906	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1907	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1908	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	2	1909	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1910	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1911	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1912	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1913	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1914	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1915	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1916	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1917	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1918	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1919	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1920	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1921	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1922	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1923	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1924	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1925	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1926	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1927	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1928	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1929	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1930	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1931	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1932	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1933	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1934	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1935	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1936	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1937	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1938	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1939	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1940	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1941	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1942	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1943	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1944	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1945	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1946	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1947	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1948	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1949	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1950	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1951	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	2	1952	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1953	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1954	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1955	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1956	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1957	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1958	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1959	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1960	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1961	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1962	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1963	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1964	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1965	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1966	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1967	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1968	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1969	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1970	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1971	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1972	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1973	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1974	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1975	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1976	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1977	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1978	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1979	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1980	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1981	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1982	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1983	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1984	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1985	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1986	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1987	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1988	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1989	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1990	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1991	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1992	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1993	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1994	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	2	1995	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1996	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1997	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1998	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	1999	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2000	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2001	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2002	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2003	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2004	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2005	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2006	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2007	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2008	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2009	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2010	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2011	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2012	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2013	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2014	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2015	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2016	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2017	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2018	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2019	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2020	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2021	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2022	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2023	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2024	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2025	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2026	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2027	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2028	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2029	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2030	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2031	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2032	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2033	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2034	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2035	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2036	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2037	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	2	2038	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2039	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2040	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2041	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2042	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	2	2043	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	3	202	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	3	203	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	3	204	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	3	205	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	3	206	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	3	207	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	3	208	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	3	209	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	3	210	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	3	211	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	202	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	203	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	204	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	205	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	206	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	207	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	208	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	209	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	210	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	211	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	212	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	213	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	4	214	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3401	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3402	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3403	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3404	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3405	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3406	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3407	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3408	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3409	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3410	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3411	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3412	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3413	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	5	3414	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3415	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3416	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3417	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3418	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3419	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3420	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3421	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3422	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3423	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3424	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3425	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3426	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3427	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3428	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3429	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3430	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3431	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3432	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3433	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3434	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3435	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3436	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3437	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3438	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3439	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3440	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3441	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3442	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3443	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3444	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3445	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3446	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3447	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3448	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3449	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3450	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3451	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3452	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3453	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3454	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3455	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3456	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	5	3457	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3458	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3459	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3460	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3461	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3462	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3463	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3464	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3465	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3466	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3467	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3468	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3469	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3470	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3471	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3472	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3473	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3474	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3475	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3476	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3477	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3478	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3479	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3480	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3481	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3482	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3483	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3484	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3485	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3486	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3487	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3488	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3489	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3490	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3491	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3492	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3493	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3494	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3495	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3496	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3497	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3498	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3499	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	5	3500	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3501	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3502	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3503	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3504	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3505	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3506	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3507	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3508	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3509	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3510	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3511	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3512	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3513	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3514	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3515	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3516	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3517	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3518	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3519	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3520	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3521	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3522	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3523	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3524	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3525	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3526	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3527	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3528	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3529	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3530	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3531	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3532	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3533	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3534	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3535	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3536	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3537	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3538	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3539	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3540	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3541	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3542	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	5	3543	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3544	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3545	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3546	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3547	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3548	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3549	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3550	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3551	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3552	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3553	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3554	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3555	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3556	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3557	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3558	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3559	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3560	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3561	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3562	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3563	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3564	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3565	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3566	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3567	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3568	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3569	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3570	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3571	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3572	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3573	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3574	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3575	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3576	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3577	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3578	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3579	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3580	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3581	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3582	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3583	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3584	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3585	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	5	3586	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3587	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3588	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3589	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3590	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3591	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3592	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3593	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3594	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3595	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3596	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3597	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3598	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3599	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3600	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3601	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3602	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3603	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3604	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3605	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3606	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3607	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3608	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3609	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3610	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3611	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3612	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3613	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3614	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3615	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3616	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3617	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3618	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3619	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3620	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3621	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3622	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3623	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3624	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3625	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3626	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3627	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3628	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	5	3629	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3630	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3631	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3632	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3633	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3634	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3635	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3636	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3637	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3638	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3639	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3640	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3641	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3642	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3643	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3644	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3645	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3646	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3647	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3648	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3649	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3650	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3651	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3652	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3653	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3654	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3655	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3656	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3657	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3658	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3659	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3660	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3661	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3662	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3663	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3664	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3665	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3666	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3667	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3668	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3669	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3670	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3671	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	5	3672	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3673	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3674	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3675	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3676	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3677	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3678	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3679	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3680	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3681	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3682	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3683	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3684	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3685	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3686	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3687	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3688	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3689	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3690	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3691	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3692	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3693	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3694	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3695	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3696	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3697	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3698	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3699	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3700	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3701	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3702	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3703	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3704	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3705	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3706	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3707	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3708	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3709	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3710	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3711	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3712	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3713	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3714	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	5	3715	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3716	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3717	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3718	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3719	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3720	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3721	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3722	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3723	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3724	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3725	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3726	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3727	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3728	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3729	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3730	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3731	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3732	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3733	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3734	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3735	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3736	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3737	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3738	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3739	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3740	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3741	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3742	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3743	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3744	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3745	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	5	3746	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1901	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1902	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1903	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1904	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1905	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1906	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1907	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1908	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1909	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1910	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1911	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	6	1912	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1913	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1914	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1915	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1916	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1917	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1918	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1919	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1920	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1921	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1922	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1923	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1924	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1925	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1926	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1927	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1928	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1929	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1930	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1931	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1932	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1933	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1934	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1935	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1936	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1937	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1938	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1939	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1940	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1941	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1942	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1943	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1944	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1945	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1946	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1947	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1948	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1949	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1950	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1951	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1952	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1953	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1954	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	6	1955	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1956	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1957	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1958	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1959	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1960	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1961	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1962	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1963	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1964	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1965	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1966	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1967	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1968	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1969	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1970	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1971	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1972	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1973	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1974	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1975	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1976	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1977	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1978	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1979	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1980	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1981	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1982	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1983	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1984	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1985	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1986	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1987	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1988	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1989	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1990	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1991	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1992	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1993	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1994	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1995	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1996	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1997	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	6	1998	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	1999	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2000	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2001	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2002	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2003	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2004	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2005	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2006	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2007	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2008	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2009	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2010	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2011	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2012	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2013	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2014	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2015	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2016	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2017	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2018	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2019	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2020	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2021	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2022	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2023	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2024	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2025	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2026	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2027	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2028	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2029	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2030	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2031	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2032	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2033	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2034	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2035	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2036	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2037	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2038	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2039	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2040	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	6	2041	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2042	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2043	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2044	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2045	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2046	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2047	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2048	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2049	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	6	2050	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	7	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	7	202	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	7	203	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	7	204	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	7	205	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	7	206	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	7	207	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	7	208	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	7	209	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	7	210	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	7	211	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	7	212	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	202	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	203	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	204	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	205	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	206	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	207	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	208	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	209	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	210	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	211	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	212	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	213	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	214	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	215	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	216	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	217	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	8	218	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	C3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	C5	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	C8	201	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	D9	102	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	L3	401	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	L3	402	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	L4	401	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	M0	301	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	M5	302	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	M5	303	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	M7	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	M7	202	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	M9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	N1	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	N9	102	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	O3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	O4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	O7	102	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	O7	103	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	Q2	502	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	S6	301	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	S8	301	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	S9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	SR	401	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	c1	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	c3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	c5	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	c8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	d4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	d9	102	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	l3	401	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	l3	402	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	l4	401	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	l4	402	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	l5	301	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	l5	302	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	l5	303	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	l5	304	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	l9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	m0	301	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	m0	302	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	m0	303	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	m1	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	m4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	m5	501	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	n3	201	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	n5	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	n9	101	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	o2	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	o3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	o4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	o7	502	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	q2	502	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	s1	302	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	s1	303	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	s4	301	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	s8	301	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	s9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
85	OHX	sR	401	-	0,6,6	0.00	-	0,15,15	0.00	-

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	1	3401	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3402	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3403	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3404	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3405	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3406	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3407	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3408	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3409	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3410	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3411	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3412	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3413	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3414	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3415	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3416	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3417	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3418	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3419	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3420	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3421	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3422	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3423	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	1	3424	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3425	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3426	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3427	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3428	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3429	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3430	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3431	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3432	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3433	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3434	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3435	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3436	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3437	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3438	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3439	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3440	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3441	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3442	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3443	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3444	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3445	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3446	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3447	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3448	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3449	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3450	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3451	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3452	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3453	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3454	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3455	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3456	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3457	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3458	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3459	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3460	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3461	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3462	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3463	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3464	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3465	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	1	3466	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3467	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3468	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3469	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3470	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3471	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3472	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3473	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3474	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3475	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3476	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3477	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3478	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3479	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3480	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3481	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3482	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3483	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3484	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3485	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3486	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3487	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3488	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3489	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3490	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3491	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3492	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3493	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3494	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3495	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3496	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3497	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3498	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3499	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3500	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3501	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3502	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3503	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3504	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3505	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3506	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3507	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	1	3508	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3509	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3510	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3511	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3512	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3513	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3514	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3515	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3516	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3517	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3518	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3519	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3520	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3521	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3522	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3523	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3524	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3525	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3526	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3527	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3528	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3529	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3530	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3531	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3532	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3533	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3534	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3535	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3536	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3537	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3538	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3539	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3540	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3541	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3542	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3543	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3544	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3545	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3546	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3547	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3548	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3549	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	1	3550	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3551	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3552	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3553	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3554	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3555	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3556	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3557	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3558	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3559	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3560	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3561	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3562	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3563	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3564	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3565	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3566	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3567	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3568	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3569	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3570	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3571	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3572	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3573	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3574	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3575	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3576	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3577	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3578	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3579	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3580	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3581	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3582	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3583	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3584	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3585	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3586	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3587	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3588	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3589	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3590	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3591	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	1	3592	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3593	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3594	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3595	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3596	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3597	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3598	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3599	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3600	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3601	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3602	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3603	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3604	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3605	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3606	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3607	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3608	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3609	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3610	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3611	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3612	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3613	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3614	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3615	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3616	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3617	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3618	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3619	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3620	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3621	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3622	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3623	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3624	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3625	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3626	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3627	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3628	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3629	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3630	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3631	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3632	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3633	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	1	3634	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3635	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3636	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3637	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3638	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3639	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3640	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3641	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3642	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3643	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3644	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3645	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3646	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3647	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3648	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3649	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3650	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3651	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3652	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3653	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3654	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3655	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3656	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3657	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3658	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3659	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3660	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3661	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3662	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3663	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3664	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3665	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3666	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3667	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3668	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3669	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3670	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3671	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3672	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3673	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3674	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3675	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	1	3676	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3677	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3678	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3679	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3680	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3681	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3682	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3683	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3684	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3685	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3686	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3687	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3688	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3689	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3690	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3691	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3692	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3693	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3694	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3695	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3696	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3697	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3698	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3699	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3700	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3701	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3702	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3703	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3704	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3705	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3706	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3707	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3708	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3709	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3710	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3711	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3712	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3713	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3714	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3715	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3716	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3717	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	1	3718	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3719	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3720	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3721	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3722	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3723	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3724	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3725	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3726	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3727	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3728	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3729	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3730	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3731	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3732	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3733	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3734	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3735	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3736	-	-	0/0/0/0	0/0/0/0
85	OHX	1	3737	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1901	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1902	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1903	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1904	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1905	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1906	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1907	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1908	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1909	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1910	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1911	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1912	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1913	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1914	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1915	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1916	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1917	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1918	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1919	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1920	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1921	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1922	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	2	1923	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1924	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1925	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1926	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1927	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1928	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1929	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1930	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1931	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1932	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1933	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1934	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1935	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1936	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1937	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1938	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1939	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1940	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1941	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1942	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1943	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1944	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1945	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1946	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1947	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1948	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1949	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1950	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1951	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1952	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1953	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1954	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1955	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1956	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1957	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1958	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1959	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1960	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1961	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1962	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1963	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1964	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	2	1965	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1966	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1967	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1968	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1969	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1970	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1971	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1972	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1973	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1974	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1975	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1976	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1977	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1978	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1979	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1980	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1981	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1982	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1983	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1984	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1985	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1986	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1987	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1988	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1989	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1990	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1991	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1992	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1993	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1994	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1995	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1996	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1997	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1998	-	-	0/0/0/0	0/0/0/0
85	OHX	2	1999	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2000	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2001	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2002	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2003	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2004	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2005	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2006	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	2	2007	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2008	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2009	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2010	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2011	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2012	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2013	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2014	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2015	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2016	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2017	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2018	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2019	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2020	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2021	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2022	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2023	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2024	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2025	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2026	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2027	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2028	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2029	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2030	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2031	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2032	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2033	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2034	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2035	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2036	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2037	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2038	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2039	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2040	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2041	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2042	-	-	0/0/0/0	0/0/0/0
85	OHX	2	2043	-	-	0/0/0/0	0/0/0/0
85	OHX	3	202	-	-	0/0/0/0	0/0/0/0
85	OHX	3	203	-	-	0/0/0/0	0/0/0/0
85	OHX	3	204	-	-	0/0/0/0	0/0/0/0
85	OHX	3	205	-	-	0/0/0/0	0/0/0/0
85	OHX	3	206	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	3	207	-	-	0/0/0/0	0/0/0/0
85	OHX	3	208	-	-	0/0/0/0	0/0/0/0
85	OHX	3	209	-	-	0/0/0/0	0/0/0/0
85	OHX	3	210	-	-	0/0/0/0	0/0/0/0
85	OHX	3	211	-	-	0/0/0/0	0/0/0/0
85	OHX	4	201	-	-	0/0/0/0	0/0/0/0
85	OHX	4	202	-	-	0/0/0/0	0/0/0/0
85	OHX	4	203	-	-	0/0/0/0	0/0/0/0
85	OHX	4	204	-	-	0/0/0/0	0/0/0/0
85	OHX	4	205	-	-	0/0/0/0	0/0/0/0
85	OHX	4	206	-	-	0/0/0/0	0/0/0/0
85	OHX	4	207	-	-	0/0/0/0	0/0/0/0
85	OHX	4	208	-	-	0/0/0/0	0/0/0/0
85	OHX	4	209	-	-	0/0/0/0	0/0/0/0
85	OHX	4	210	-	-	0/0/0/0	0/0/0/0
85	OHX	4	211	-	-	0/0/0/0	0/0/0/0
85	OHX	4	212	-	-	0/0/0/0	0/0/0/0
85	OHX	4	213	-	-	0/0/0/0	0/0/0/0
85	OHX	4	214	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3401	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3402	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3403	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3404	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3405	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3406	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3407	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3408	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3409	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3410	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3411	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3412	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3413	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3414	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3415	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3416	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3417	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3418	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3419	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3420	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3421	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3422	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3423	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	5	3424	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3425	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3426	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3427	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3428	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3429	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3430	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3431	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3432	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3433	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3434	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3435	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3436	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3437	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3438	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3439	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3440	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3441	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3442	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3443	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3444	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3445	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3446	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3447	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3448	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3449	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3450	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3451	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3452	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3453	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3454	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3455	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3456	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3457	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3458	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3459	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3460	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3461	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3462	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3463	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3464	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3465	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	5	3466	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3467	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3468	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3469	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3470	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3471	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3472	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3473	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3474	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3475	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3476	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3477	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3478	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3479	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3480	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3481	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3482	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3483	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3484	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3485	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3486	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3487	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3488	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3489	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3490	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3491	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3492	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3493	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3494	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3495	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3496	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3497	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3498	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3499	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3500	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3501	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3502	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3503	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3504	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3505	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3506	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3507	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	5	3508	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3509	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3510	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3511	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3512	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3513	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3514	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3515	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3516	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3517	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3518	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3519	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3520	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3521	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3522	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3523	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3524	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3525	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3526	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3527	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3528	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3529	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3530	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3531	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3532	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3533	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3534	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3535	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3536	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3537	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3538	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3539	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3540	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3541	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3542	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3543	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3544	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3545	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3546	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3547	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3548	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3549	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	5	3550	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3551	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3552	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3553	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3554	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3555	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3556	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3557	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3558	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3559	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3560	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3561	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3562	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3563	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3564	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3565	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3566	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3567	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3568	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3569	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3570	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3571	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3572	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3573	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3574	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3575	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3576	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3577	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3578	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3579	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3580	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3581	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3582	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3583	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3584	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3585	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3586	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3587	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3588	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3589	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3590	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3591	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	5	3592	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3593	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3594	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3595	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3596	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3597	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3598	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3599	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3600	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3601	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3602	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3603	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3604	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3605	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3606	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3607	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3608	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3609	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3610	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3611	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3612	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3613	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3614	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3615	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3616	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3617	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3618	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3619	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3620	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3621	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3622	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3623	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3624	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3625	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3626	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3627	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3628	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3629	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3630	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3631	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3632	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3633	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	5	3634	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3635	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3636	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3637	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3638	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3639	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3640	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3641	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3642	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3643	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3644	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3645	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3646	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3647	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3648	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3649	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3650	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3651	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3652	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3653	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3654	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3655	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3656	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3657	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3658	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3659	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3660	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3661	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3662	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3663	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3664	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3665	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3666	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3667	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3668	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3669	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3670	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3671	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3672	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3673	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3674	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3675	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	5	3676	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3677	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3678	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3679	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3680	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3681	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3682	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3683	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3684	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3685	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3686	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3687	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3688	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3689	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3690	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3691	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3692	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3693	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3694	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3695	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3696	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3697	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3698	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3699	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3700	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3701	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3702	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3703	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3704	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3705	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3706	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3707	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3708	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3709	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3710	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3711	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3712	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3713	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3714	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3715	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3716	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3717	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	5	3718	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3719	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3720	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3721	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3722	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3723	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3724	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3725	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3726	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3727	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3728	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3729	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3730	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3731	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3732	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3733	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3734	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3735	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3736	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3737	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3738	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3739	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3740	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3741	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3742	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3743	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3744	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3745	-	-	0/0/0/0	0/0/0/0
85	OHX	5	3746	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1901	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1902	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1903	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1904	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1905	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1906	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1907	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1908	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1909	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1910	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1911	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1912	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1913	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	6	1914	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1915	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1916	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1917	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1918	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1919	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1920	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1921	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1922	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1923	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1924	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1925	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1926	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1927	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1928	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1929	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1930	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1931	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1932	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1933	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1934	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1935	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1936	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1937	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1938	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1939	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1940	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1941	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1942	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1943	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1944	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1945	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1946	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1947	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1948	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1949	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1950	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1951	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1952	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1953	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1954	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1955	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	6	1956	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1957	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1958	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1959	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1960	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1961	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1962	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1963	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1964	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1965	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1966	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1967	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1968	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1969	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1970	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1971	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1972	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1973	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1974	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1975	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1976	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1977	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1978	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1979	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1980	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1981	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1982	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1983	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1984	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1985	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1986	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1987	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1988	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1989	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1990	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1991	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1992	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1993	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1994	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1995	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1996	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1997	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	6	1998	-	-	0/0/0/0	0/0/0/0
85	OHX	6	1999	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2000	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2001	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2002	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2003	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2004	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2005	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2006	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2007	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2008	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2009	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2010	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2011	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2012	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2013	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2014	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2015	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2016	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2017	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2018	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2019	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2020	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2021	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2022	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2023	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2024	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2025	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2026	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2027	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2028	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2029	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2030	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2031	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2032	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2033	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2034	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2035	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2036	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2037	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2038	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2039	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	6	2040	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2041	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2042	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2043	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2044	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2045	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2046	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2047	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2048	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2049	-	-	0/0/0/0	0/0/0/0
85	OHX	6	2050	-	-	0/0/0/0	0/0/0/0
85	OHX	7	201	-	-	0/0/0/0	0/0/0/0
85	OHX	7	202	-	-	0/0/0/0	0/0/0/0
85	OHX	7	203	-	-	0/0/0/0	0/0/0/0
85	OHX	7	204	-	-	0/0/0/0	0/0/0/0
85	OHX	7	205	-	-	0/0/0/0	0/0/0/0
85	OHX	7	206	-	-	0/0/0/0	0/0/0/0
85	OHX	7	207	-	-	0/0/0/0	0/0/0/0
85	OHX	7	208	-	-	0/0/0/0	0/0/0/0
85	OHX	7	209	-	-	0/0/0/0	0/0/0/0
85	OHX	7	210	-	-	0/0/0/0	0/0/0/0
85	OHX	7	211	-	-	0/0/0/0	0/0/0/0
85	OHX	7	212	-	-	0/0/0/0	0/0/0/0
85	OHX	8	201	-	-	0/0/0/0	0/0/0/0
85	OHX	8	202	-	-	0/0/0/0	0/0/0/0
85	OHX	8	203	-	-	0/0/0/0	0/0/0/0
85	OHX	8	204	-	-	0/0/0/0	0/0/0/0
85	OHX	8	205	-	-	0/0/0/0	0/0/0/0
85	OHX	8	206	-	-	0/0/0/0	0/0/0/0
85	OHX	8	207	-	-	0/0/0/0	0/0/0/0
85	OHX	8	208	-	-	0/0/0/0	0/0/0/0
85	OHX	8	209	-	-	0/0/0/0	0/0/0/0
85	OHX	8	210	-	-	0/0/0/0	0/0/0/0
85	OHX	8	211	-	-	0/0/0/0	0/0/0/0
85	OHX	8	212	-	-	0/0/0/0	0/0/0/0
85	OHX	8	213	-	-	0/0/0/0	0/0/0/0
85	OHX	8	214	-	-	0/0/0/0	0/0/0/0
85	OHX	8	215	-	-	0/0/0/0	0/0/0/0
85	OHX	8	216	-	-	0/0/0/0	0/0/0/0
85	OHX	8	217	-	-	0/0/0/0	0/0/0/0
85	OHX	8	218	-	-	0/0/0/0	0/0/0/0
85	OHX	C3	201	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	C5	201	-	-	0/0/0/0	0/0/0/0
85	OHX	C8	201	-	-	0/0/0/0	0/0/0/0
85	OHX	D9	102	-	-	0/0/0/0	0/0/0/0
85	OHX	L3	401	-	-	0/0/0/0	0/0/0/0
85	OHX	L3	402	-	-	0/0/0/0	0/0/0/0
85	OHX	L4	401	-	-	0/0/0/0	0/0/0/0
85	OHX	M0	301	-	-	0/0/0/0	0/0/0/0
85	OHX	M5	302	-	-	0/0/0/0	0/0/0/0
85	OHX	M5	303	-	-	0/0/0/0	0/0/0/0
85	OHX	M7	201	-	-	0/0/0/0	0/0/0/0
85	OHX	M7	202	-	-	0/0/0/0	0/0/0/0
85	OHX	M9	201	-	-	0/0/0/0	0/0/0/0
85	OHX	N1	201	-	-	0/0/0/0	0/0/0/0
85	OHX	N9	102	-	-	0/0/0/0	0/0/0/0
85	OHX	O3	201	-	-	0/0/0/0	0/0/0/0
85	OHX	O4	201	-	-	0/0/0/0	0/0/0/0
85	OHX	O7	102	-	-	0/0/0/0	0/0/0/0
85	OHX	O7	103	-	-	0/0/0/0	0/0/0/0
85	OHX	Q2	502	-	-	0/0/0/0	0/0/0/0
85	OHX	S6	301	-	-	0/0/0/0	0/0/0/0
85	OHX	S8	301	-	-	0/0/0/0	0/0/0/0
85	OHX	S9	201	-	-	0/0/0/0	0/0/0/0
85	OHX	SR	401	-	-	0/0/0/0	0/0/0/0
85	OHX	c1	201	-	-	0/0/0/0	0/0/0/0
85	OHX	c3	201	-	-	0/0/0/0	0/0/0/0
85	OHX	c5	201	-	-	0/0/0/0	0/0/0/0
85	OHX	c8	201	-	-	0/0/0/0	0/0/0/0
85	OHX	d4	201	-	-	0/0/0/0	0/0/0/0
85	OHX	d9	102	-	-	0/0/0/0	0/0/0/0
85	OHX	l3	401	-	-	0/0/0/0	0/0/0/0
85	OHX	l3	402	-	-	0/0/0/0	0/0/0/0
85	OHX	l4	401	-	-	0/0/0/0	0/0/0/0
85	OHX	l4	402	-	-	0/0/0/0	0/0/0/0
85	OHX	l5	301	-	-	0/0/0/0	0/0/0/0
85	OHX	l5	302	-	-	0/0/0/0	0/0/0/0
85	OHX	l5	303	-	-	0/0/0/0	0/0/0/0
85	OHX	l5	304	-	-	0/0/0/0	0/0/0/0
85	OHX	l9	201	-	-	0/0/0/0	0/0/0/0
85	OHX	m0	301	-	-	0/0/0/0	0/0/0/0
85	OHX	m0	302	-	-	0/0/0/0	0/0/0/0
85	OHX	m0	303	-	-	0/0/0/0	0/0/0/0
85	OHX	m1	201	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	OHX	m4	201	-	-	0/0/0/0	0/0/0/0
85	OHX	m5	501	-	-	0/0/0/0	0/0/0/0
85	OHX	n3	201	-	-	0/0/0/0	0/0/0/0
85	OHX	n5	201	-	-	0/0/0/0	0/0/0/0
85	OHX	n9	101	-	-	0/0/0/0	0/0/0/0
85	OHX	o2	201	-	-	0/0/0/0	0/0/0/0
85	OHX	o3	201	-	-	0/0/0/0	0/0/0/0
85	OHX	o4	201	-	-	0/0/0/0	0/0/0/0
85	OHX	o7	502	-	-	0/0/0/0	0/0/0/0
85	OHX	q2	502	-	-	0/0/0/0	0/0/0/0
85	OHX	s1	302	-	-	0/0/0/0	0/0/0/0
85	OHX	s1	303	-	-	0/0/0/0	0/0/0/0
85	OHX	s4	301	-	-	0/0/0/0	0/0/0/0
85	OHX	s8	301	-	-	0/0/0/0	0/0/0/0
85	OHX	s9	201	-	-	0/0/0/0	0/0/0/0
85	OHX	sR	401	-	-	0/0/0/0	0/0/0/0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

533 monomers are involved in 864 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	1	3401	OHX	1	0
85	1	3403	OHX	1	0
85	1	3404	OHX	1	0
85	1	3405	OHX	3	0
85	1	3406	OHX	3	0
85	1	3408	OHX	1	0
85	1	3409	OHX	2	0
85	1	3410	OHX	2	0
85	1	3411	OHX	1	0
85	1	3412	OHX	1	0
85	1	3415	OHX	2	0
85	1	3416	OHX	1	0
85	1	3417	OHX	1	0
85	1	3419	OHX	1	0
85	1	3420	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	1	3421	OHX	1	0
85	1	3423	OHX	2	0
85	1	3425	OHX	1	0
85	1	3426	OHX	1	0
85	1	3427	OHX	1	0
85	1	3428	OHX	1	0
85	1	3429	OHX	2	0
85	1	3430	OHX	1	0
85	1	3434	OHX	1	0
85	1	3436	OHX	1	0
85	1	3437	OHX	2	0
85	1	3440	OHX	1	0
85	1	3442	OHX	1	0
85	1	3445	OHX	1	0
85	1	3448	OHX	4	0
85	1	3450	OHX	1	0
85	1	3451	OHX	1	0
85	1	3454	OHX	1	0
85	1	3457	OHX	1	0
85	1	3458	OHX	1	0
85	1	3460	OHX	1	0
85	1	3461	OHX	1	0
85	1	3462	OHX	1	0
85	1	3463	OHX	1	0
85	1	3464	OHX	1	0
85	1	3467	OHX	1	0
85	1	3469	OHX	1	0
85	1	3470	OHX	1	0
85	1	3473	OHX	1	0
85	1	3475	OHX	6	0
85	1	3476	OHX	1	0
85	1	3477	OHX	1	0
85	1	3483	OHX	6	0
85	1	3485	OHX	1	0
85	1	3489	OHX	1	0
85	1	3491	OHX	1	0
85	1	3493	OHX	1	0
85	1	3495	OHX	6	0
85	1	3496	OHX	1	0
85	1	3497	OHX	4	0
85	1	3499	OHX	1	0
85	1	3500	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	1	3502	OHX	1	0
85	1	3504	OHX	1	0
85	1	3509	OHX	6	0
85	1	3510	OHX	2	0
85	1	3511	OHX	1	0
85	1	3512	OHX	1	0
85	1	3513	OHX	4	0
85	1	3515	OHX	2	0
85	1	3517	OHX	2	0
85	1	3518	OHX	2	0
85	1	3519	OHX	2	0
85	1	3520	OHX	2	0
85	1	3521	OHX	1	0
85	1	3529	OHX	1	0
85	1	3532	OHX	1	0
85	1	3534	OHX	2	0
85	1	3535	OHX	1	0
85	1	3536	OHX	1	0
85	1	3538	OHX	2	0
85	1	3540	OHX	6	0
85	1	3542	OHX	1	0
85	1	3543	OHX	1	0
85	1	3544	OHX	1	0
85	1	3545	OHX	1	0
85	1	3550	OHX	1	0
85	1	3554	OHX	1	0
85	1	3556	OHX	4	0
85	1	3561	OHX	1	0
85	1	3565	OHX	6	0
85	1	3567	OHX	2	0
85	1	3569	OHX	6	0
85	1	3571	OHX	1	0
85	1	3573	OHX	1	0
85	1	3575	OHX	2	0
85	1	3576	OHX	3	0
85	1	3577	OHX	1	0
85	1	3578	OHX	2	0
85	1	3580	OHX	1	0
85	1	3581	OHX	3	0
85	1	3582	OHX	7	0
85	1	3583	OHX	1	0
85	1	3584	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	1	3586	OHX	1	0
85	1	3587	OHX	1	0
85	1	3592	OHX	6	0
85	1	3593	OHX	4	0
85	1	3594	OHX	4	0
85	1	3595	OHX	2	0
85	1	3597	OHX	1	0
85	1	3598	OHX	1	0
85	1	3600	OHX	1	0
85	1	3602	OHX	1	0
85	1	3603	OHX	2	0
85	1	3607	OHX	1	0
85	1	3611	OHX	1	0
85	1	3616	OHX	5	0
85	1	3620	OHX	1	0
85	1	3621	OHX	2	0
85	1	3624	OHX	1	0
85	1	3626	OHX	1	0
85	1	3631	OHX	1	0
85	1	3632	OHX	1	0
85	1	3635	OHX	1	0
85	1	3642	OHX	1	0
85	1	3643	OHX	1	0
85	1	3644	OHX	2	0
85	1	3645	OHX	1	0
85	1	3646	OHX	1	0
85	1	3647	OHX	2	0
85	1	3650	OHX	2	0
85	1	3651	OHX	1	0
85	1	3652	OHX	1	0
85	1	3655	OHX	1	0
85	1	3656	OHX	8	0
85	1	3657	OHX	1	0
85	1	3658	OHX	1	0
85	1	3660	OHX	2	0
85	1	3663	OHX	1	0
85	1	3666	OHX	1	0
85	1	3670	OHX	1	0
85	1	3672	OHX	1	0
85	1	3673	OHX	1	0
85	1	3676	OHX	2	0
85	1	3677	OHX	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	1	3678	OHX	3	0
85	1	3679	OHX	2	0
85	1	3680	OHX	1	0
85	1	3681	OHX	1	0
85	1	3682	OHX	2	0
85	1	3685	OHX	6	0
85	1	3688	OHX	2	0
85	1	3689	OHX	3	0
85	1	3694	OHX	4	0
85	1	3695	OHX	6	0
85	1	3697	OHX	1	0
85	1	3699	OHX	1	0
85	1	3702	OHX	6	0
85	1	3703	OHX	1	0
85	1	3704	OHX	1	0
85	1	3706	OHX	1	0
85	1	3707	OHX	3	0
85	1	3708	OHX	1	0
85	1	3711	OHX	7	0
85	1	3717	OHX	1	0
85	1	3719	OHX	1	0
85	1	3720	OHX	5	0
85	1	3723	OHX	1	0
85	1	3727	OHX	3	0
85	1	3731	OHX	1	0
85	1	3733	OHX	1	0
85	1	3734	OHX	1	0
85	1	3735	OHX	1	0
85	1	3737	OHX	7	0
85	2	1901	OHX	1	0
85	2	1902	OHX	1	0
85	2	1904	OHX	2	0
85	2	1907	OHX	1	0
85	2	1909	OHX	7	0
85	2	1910	OHX	1	0
85	2	1912	OHX	1	0
85	2	1914	OHX	3	0
85	2	1916	OHX	1	0
85	2	1917	OHX	2	0
85	2	1919	OHX	1	0
85	2	1920	OHX	2	0
85	2	1922	OHX	8	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	2	1923	OHX	1	0
85	2	1924	OHX	1	0
85	2	1925	OHX	1	0
85	2	1927	OHX	1	0
85	2	1928	OHX	1	0
85	2	1929	OHX	1	0
85	2	1932	OHX	1	0
85	2	1936	OHX	1	0
85	2	1937	OHX	1	0
85	2	1938	OHX	1	0
85	2	1939	OHX	1	0
85	2	1940	OHX	2	0
85	2	1942	OHX	1	0
85	2	1943	OHX	2	0
85	2	1944	OHX	1	0
85	2	1948	OHX	2	0
85	2	1949	OHX	1	0
85	2	1951	OHX	2	0
85	2	1952	OHX	1	0
85	2	1953	OHX	4	0
85	2	1954	OHX	1	0
85	2	1956	OHX	1	0
85	2	1960	OHX	2	0
85	2	1961	OHX	2	0
85	2	1963	OHX	2	0
85	2	1967	OHX	3	0
85	2	1968	OHX	5	0
85	2	1970	OHX	1	0
85	2	1971	OHX	1	0
85	2	1972	OHX	1	0
85	2	1974	OHX	1	0
85	2	1976	OHX	1	0
85	2	1977	OHX	7	0
85	2	1978	OHX	1	0
85	2	1983	OHX	1	0
85	2	1984	OHX	1	0
85	2	1986	OHX	1	0
85	2	1987	OHX	1	0
85	2	1988	OHX	1	0
85	2	1989	OHX	4	0
85	2	1993	OHX	1	0
85	2	1999	OHX	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	2	2001	OHX	1	0
85	2	2004	OHX	1	0
85	2	2005	OHX	1	0
85	2	2006	OHX	1	0
85	2	2008	OHX	2	0
85	2	2009	OHX	2	0
85	2	2010	OHX	6	0
85	2	2011	OHX	1	0
85	2	2017	OHX	1	0
85	2	2024	OHX	1	0
85	2	2025	OHX	6	0
85	2	2028	OHX	1	0
85	2	2029	OHX	1	0
85	2	2031	OHX	1	0
85	2	2033	OHX	2	0
85	2	2034	OHX	1	0
85	2	2035	OHX	1	0
85	2	2036	OHX	1	0
85	2	2038	OHX	1	0
85	2	2039	OHX	2	0
85	2	2040	OHX	4	0
85	2	2043	OHX	1	0
85	3	205	OHX	2	0
85	3	207	OHX	1	0
85	3	208	OHX	2	0
85	4	203	OHX	1	0
85	4	204	OHX	1	0
85	4	205	OHX	1	0
85	4	206	OHX	2	0
85	4	207	OHX	1	0
85	4	210	OHX	1	0
85	4	211	OHX	2	0
85	4	214	OHX	1	0
85	5	3401	OHX	3	0
85	5	3402	OHX	1	0
85	5	3403	OHX	3	0
85	5	3405	OHX	1	0
85	5	3407	OHX	2	0
85	5	3408	OHX	1	0
85	5	3409	OHX	1	0
85	5	3410	OHX	1	0
85	5	3411	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	5	3412	OHX	1	0
85	5	3413	OHX	3	0
85	5	3414	OHX	1	0
85	5	3415	OHX	2	0
85	5	3417	OHX	1	0
85	5	3418	OHX	3	0
85	5	3419	OHX	1	0
85	5	3420	OHX	1	0
85	5	3425	OHX	1	0
85	5	3427	OHX	3	0
85	5	3428	OHX	1	0
85	5	3430	OHX	1	0
85	5	3437	OHX	1	0
85	5	3438	OHX	1	0
85	5	3439	OHX	1	0
85	5	3441	OHX	1	0
85	5	3443	OHX	1	0
85	5	3444	OHX	8	0
85	5	3446	OHX	1	0
85	5	3447	OHX	2	0
85	5	3450	OHX	1	0
85	5	3452	OHX	1	0
85	5	3454	OHX	1	0
85	5	3455	OHX	1	0
85	5	3456	OHX	1	0
85	5	3458	OHX	2	0
85	5	3459	OHX	3	0
85	5	3461	OHX	2	0
85	5	3462	OHX	1	0
85	5	3464	OHX	2	0
85	5	3466	OHX	1	0
85	5	3471	OHX	1	0
85	5	3480	OHX	8	0
85	5	3486	OHX	3	0
85	5	3487	OHX	1	0
85	5	3488	OHX	1	0
85	5	3489	OHX	1	0
85	5	3494	OHX	1	0
85	5	3499	OHX	1	0
85	5	3504	OHX	7	0
85	5	3505	OHX	5	0
85	5	3506	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	5	3508	OHX	2	0
85	5	3510	OHX	1	0
85	5	3511	OHX	1	0
85	5	3512	OHX	1	0
85	5	3513	OHX	1	0
85	5	3514	OHX	6	0
85	5	3516	OHX	2	0
85	5	3517	OHX	1	0
85	5	3518	OHX	1	0
85	5	3521	OHX	1	0
85	5	3524	OHX	6	0
85	5	3526	OHX	1	0
85	5	3527	OHX	1	0
85	5	3528	OHX	2	0
85	5	3530	OHX	1	0
85	5	3531	OHX	1	0
85	5	3532	OHX	1	0
85	5	3533	OHX	1	0
85	5	3534	OHX	1	0
85	5	3535	OHX	1	0
85	5	3537	OHX	5	0
85	5	3539	OHX	7	0
85	5	3541	OHX	1	0
85	5	3543	OHX	1	0
85	5	3545	OHX	1	0
85	5	3546	OHX	1	0
85	5	3549	OHX	1	0
85	5	3550	OHX	1	0
85	5	3553	OHX	1	0
85	5	3555	OHX	1	0
85	5	3558	OHX	1	0
85	5	3559	OHX	6	0
85	5	3568	OHX	1	0
85	5	3570	OHX	8	0
85	5	3578	OHX	1	0
85	5	3579	OHX	1	0
85	5	3582	OHX	1	0
85	5	3583	OHX	1	0
85	5	3584	OHX	1	0
85	5	3585	OHX	5	0
85	5	3586	OHX	1	0
85	5	3588	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	5	3591	OHX	1	0
85	5	3592	OHX	1	0
85	5	3594	OHX	8	0
85	5	3595	OHX	2	0
85	5	3596	OHX	2	0
85	5	3597	OHX	3	0
85	5	3600	OHX	1	0
85	5	3601	OHX	2	0
85	5	3604	OHX	1	0
85	5	3605	OHX	1	0
85	5	3606	OHX	5	0
85	5	3609	OHX	1	0
85	5	3610	OHX	1	0
85	5	3611	OHX	2	0
85	5	3614	OHX	1	0
85	5	3615	OHX	1	0
85	5	3623	OHX	1	0
85	5	3629	OHX	1	0
85	5	3631	OHX	1	0
85	5	3633	OHX	1	0
85	5	3634	OHX	1	0
85	5	3635	OHX	2	0
85	5	3636	OHX	1	0
85	5	3641	OHX	1	0
85	5	3644	OHX	1	0
85	5	3645	OHX	1	0
85	5	3647	OHX	6	0
85	5	3648	OHX	2	0
85	5	3649	OHX	1	0
85	5	3651	OHX	1	0
85	5	3652	OHX	1	0
85	5	3657	OHX	1	0
85	5	3658	OHX	1	0
85	5	3660	OHX	1	0
85	5	3663	OHX	2	0
85	5	3664	OHX	1	0
85	5	3666	OHX	1	0
85	5	3667	OHX	2	0
85	5	3672	OHX	1	0
85	5	3673	OHX	1	0
85	5	3676	OHX	2	0
85	5	3677	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	5	3681	OHX	1	0
85	5	3683	OHX	1	0
85	5	3684	OHX	2	0
85	5	3686	OHX	1	0
85	5	3688	OHX	1	0
85	5	3689	OHX	1	0
85	5	3691	OHX	1	0
85	5	3693	OHX	4	0
85	5	3695	OHX	3	0
85	5	3697	OHX	2	0
85	5	3698	OHX	1	0
85	5	3699	OHX	1	0
85	5	3702	OHX	1	0
85	5	3703	OHX	11	0
85	5	3704	OHX	7	0
85	5	3705	OHX	7	0
85	5	3706	OHX	4	0
85	5	3707	OHX	1	0
85	5	3708	OHX	1	0
85	5	3709	OHX	1	0
85	5	3715	OHX	1	0
85	5	3718	OHX	3	0
85	5	3720	OHX	1	0
85	5	3721	OHX	7	0
85	5	3723	OHX	1	0
85	5	3725	OHX	1	0
85	5	3728	OHX	3	0
85	5	3731	OHX	2	0
85	5	3732	OHX	1	0
85	5	3733	OHX	1	0
85	5	3735	OHX	1	0
85	5	3737	OHX	1	0
85	5	3739	OHX	6	0
85	5	3740	OHX	1	0
85	5	3742	OHX	7	0
85	5	3743	OHX	4	0
85	6	1903	OHX	1	0
85	6	1904	OHX	2	0
85	6	1908	OHX	1	0
85	6	1910	OHX	1	0
85	6	1911	OHX	2	0
85	6	1912	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	6	1913	OHX	1	0
85	6	1914	OHX	8	0
85	6	1915	OHX	1	0
85	6	1916	OHX	1	0
85	6	1920	OHX	1	0
85	6	1922	OHX	1	0
85	6	1923	OHX	1	0
85	6	1925	OHX	1	0
85	6	1926	OHX	2	0
85	6	1929	OHX	1	0
85	6	1930	OHX	1	0
85	6	1932	OHX	1	0
85	6	1934	OHX	1	0
85	6	1936	OHX	1	0
85	6	1938	OHX	2	0
85	6	1940	OHX	1	0
85	6	1941	OHX	1	0
85	6	1943	OHX	1	0
85	6	1947	OHX	1	0
85	6	1950	OHX	1	0
85	6	1951	OHX	3	0
85	6	1955	OHX	2	0
85	6	1956	OHX	1	0
85	6	1957	OHX	1	0
85	6	1958	OHX	1	0
85	6	1960	OHX	1	0
85	6	1962	OHX	1	0
85	6	1966	OHX	2	0
85	6	1967	OHX	2	0
85	6	1969	OHX	1	0
85	6	1972	OHX	1	0
85	6	1975	OHX	7	0
85	6	1976	OHX	1	0
85	6	1977	OHX	1	0
85	6	1978	OHX	2	0
85	6	1980	OHX	3	0
85	6	1984	OHX	1	0
85	6	1989	OHX	1	0
85	6	1990	OHX	1	0
85	6	1991	OHX	2	0
85	6	1992	OHX	1	0
85	6	1994	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	6	1997	OHX	1	0
85	6	1998	OHX	2	0
85	6	2000	OHX	1	0
85	6	2001	OHX	8	0
85	6	2003	OHX	1	0
85	6	2004	OHX	2	0
85	6	2007	OHX	1	0
85	6	2008	OHX	1	0
85	6	2009	OHX	1	0
85	6	2010	OHX	1	0
85	6	2014	OHX	1	0
85	6	2017	OHX	1	0
85	6	2022	OHX	1	0
85	6	2025	OHX	8	0
85	6	2029	OHX	1	0
85	6	2032	OHX	1	0
85	6	2034	OHX	1	0
85	6	2036	OHX	2	0
85	6	2037	OHX	1	0
85	6	2038	OHX	2	0
85	6	2041	OHX	1	0
85	6	2042	OHX	1	0
85	6	2043	OHX	2	0
85	6	2044	OHX	1	0
85	6	2046	OHX	1	0
85	6	2048	OHX	1	0
85	7	203	OHX	7	0
85	7	204	OHX	3	0
85	7	206	OHX	2	0
85	7	209	OHX	4	0
85	7	211	OHX	7	0
85	8	201	OHX	2	0
85	8	203	OHX	9	0
85	8	204	OHX	1	0
85	8	205	OHX	2	0
85	8	207	OHX	1	0
85	8	211	OHX	6	0
85	8	212	OHX	1	0
85	8	215	OHX	1	0
85	8	217	OHX	1	0
85	C5	201	OHX	3	0
85	D9	102	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	L3	401	OHX	1	0
85	L3	402	OHX	2	0
85	L4	401	OHX	5	0
85	M0	301	OHX	2	0
85	M5	302	OHX	1	0
85	M7	201	OHX	2	0
85	M7	202	OHX	1	0
85	N1	201	OHX	2	0
85	O3	201	OHX	3	0
85	O4	201	OHX	1	0
85	O7	102	OHX	2	0
85	O7	103	OHX	1	0
85	Q2	502	OHX	7	0
85	S9	201	OHX	4	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
81	m2	2
35	sM	1
80	c0	1
1	2	1
35	SM	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	sM	139:UNK	C	155:UNK	N	37.65
1	SM	141:ALA	C	151:UNK	N	26.56
1	c0	84:GLU	C	87:UNK	N	8.21
1	2	1716:C	O3'	1717:G	P	4.60
1	m2	23:UNK	C	28:UNK	N	4.05
1	m2	52:UNK	C	54:UNK	N	3.55

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	2	1781/1800 (98%)	0.66	155 (8%) 13 12	61, 97, 186, 235	0
1	6	1795/1800 (99%)	0.45	122 (6%) 20 19	48, 82, 168, 218	0
2	S0	206/251 (82%)	0.91	27 (13%) 5 4	108, 147, 226, 316	0
2	s0	206/251 (82%)	0.34	8 (3%) 43 38	81, 112, 176, 255	0
3	S1	214/254 (84%)	1.36	49 (22%) 1 1	111, 136, 156, 161	0
3	s1	216/254 (85%)	0.52	20 (9%) 11 11	74, 87, 104, 112	0
4	S2	217/253 (85%)	0.28	7 (3%) 51 47	81, 93, 115, 123	0
4	s2	217/253 (85%)	0.35	12 (5%) 29 26	62, 74, 89, 98	0
5	S3	223/239 (93%)	0.48	16 (7%) 18 17	81, 94, 124, 132	0
5	s3	223/239 (93%)	0.56	18 (8%) 15 14	85, 109, 132, 140	0
6	S4	260/260 (100%)	0.66	23 (8%) 12 12	72, 98, 110, 122	0
6	s4	260/260 (100%)	0.20	7 (2%) 58 53	53, 79, 92, 115	0
7	S5	206/224 (91%)	0.68	24 (11%) 6 6	101, 117, 125, 131	0
7	s5	206/224 (91%)	0.58	13 (6%) 23 22	81, 101, 114, 117	0
8	S6	226/236 (95%)	0.77	25 (11%) 7 7	72, 126, 220, 365	0
8	s6	218/236 (92%)	0.56	7 (3%) 51 47	54, 87, 104, 115	0
9	S7	184/189 (97%)	0.83	26 (14%) 4 4	91, 117, 133, 136	0
9	s7	186/189 (98%)	0.59	17 (9%) 11 11	72, 103, 131, 195	0
10	S8	188/200 (94%)	0.65	14 (7%) 17 17	65, 84, 127, 136	0
10	s8	188/200 (94%)	0.56	10 (5%) 30 27	49, 74, 126, 145	0
11	S9	185/196 (94%)	0.81	22 (11%) 6 6	88, 103, 128, 145	0
11	s9	185/196 (94%)	0.43	8 (4%) 39 34	67, 85, 114, 132	0
12	C0	96/105 (91%)	0.52	7 (7%) 18 17	87, 106, 124, 135	0
13	C1	146/155 (94%)	0.38	9 (6%) 24 22	68, 82, 105, 119	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	c1	146/155 (94%)	0.39	9 (6%) 24 22	55, 69, 111, 187	0
14	C2	109/142 (76%)	1.89	47 (43%) 0 0	139, 144, 148, 151	0
14	c2	109/142 (76%)	2.81	59 (54%) 0 0	184, 196, 200, 201	0
15	C3	150/150 (100%)	0.36	3 (2%) 68 62	73, 92, 108, 111	0
15	c3	150/150 (100%)	0.22	2 (1%) 79 74	60, 77, 92, 103	0
16	C4	127/136 (93%)	1.24	28 (22%) 1 1	82, 139, 149, 152	0
16	c4	128/136 (94%)	0.34	3 (2%) 64 58	60, 88, 93, 97	0
17	C5	124/141 (87%)	0.40	6 (4%) 34 31	79, 96, 120, 131	0
17	c5	135/141 (95%)	0.73	18 (13%) 4 4	71, 98, 118, 128	0
18	C6	141/142 (99%)	0.83	14 (9%) 9 10	86, 109, 113, 116	0
18	c6	142/142 (100%)	0.90	20 (14%) 4 4	75, 97, 114, 131	0
19	C7	120/136 (88%)	1.26	22 (18%) 2 2	99, 112, 309, 332	0
19	c7	117/136 (86%)	1.21	32 (27%) 1 1	88, 102, 310, 364	0
20	C8	145/145 (100%)	1.14	37 (25%) 1 1	78, 103, 123, 127	0
20	c8	145/145 (100%)	0.63	10 (6%) 20 19	73, 92, 109, 115	0
21	C9	143/143 (100%)	0.74	14 (9%) 10 10	95, 103, 117, 124	0
21	c9	143/143 (100%)	0.25	2 (1%) 78 73	76, 88, 102, 109	0
22	D0	107/120 (89%)	1.35	27 (25%) 1 1	81, 109, 125, 128	0
22	d0	110/120 (91%)	1.53	35 (31%) 1 1	79, 113, 136, 142	0
23	D1	87/87 (100%)	0.39	1 (1%) 82 77	102, 112, 163, 190	0
23	d1	87/87 (100%)	0.08	0 100 100	74, 85, 129, 145	0
24	D2	129/129 (100%)	0.36	4 (3%) 52 48	76, 90, 98, 109	0
24	d2	129/129 (100%)	0.04	1 (0%) 87 83	58, 70, 79, 92	0
25	D3	144/144 (100%)	0.45	12 (8%) 14 13	63, 69, 77, 86	0
25	d3	144/144 (100%)	0.08	0 100 100	48, 54, 64, 71	0
26	D4	134/134 (100%)	0.96	26 (19%) 1 2	86, 104, 115, 117	0
26	d4	134/134 (100%)	0.55	14 (10%) 8 8	62, 84, 97, 116	0
27	D5	70/107 (65%)	0.82	9 (12%) 5 4	116, 124, 128, 128	0
27	d5	69/107 (64%)	0.74	9 (13%) 5 4	92, 109, 115, 117	0
28	D6	97/97 (100%)	1.41	26 (26%) 1 1	85, 101, 146, 147	0
28	d6	97/97 (100%)	0.29	3 (3%) 52 48	63, 78, 96, 102	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	D7	81/81 (100%)	0.49	6 (7%) 17 17	93, 109, 126, 129	0
29	d7	81/81 (100%)	0.37	5 (6%) 24 22	74, 89, 114, 118	0
30	D8	63/66 (95%)	2.25	33 (52%) 0 0	108, 122, 128, 130	0
30	d8	63/66 (95%)	1.50	16 (25%) 1 1	96, 107, 115, 118	0
31	D9	53/55 (96%)	0.43	2 (3%) 44 39	84, 89, 106, 110	0
31	d9	53/55 (96%)	1.18	12 (22%) 1 1	82, 94, 123, 130	0
32	E0	60/62 (96%)	1.30	11 (18%) 2 2	69, 99, 123, 125	0
32	e0	62/62 (100%)	0.84	7 (11%) 7 7	57, 82, 104, 111	0
33	E1	71/76 (93%)	1.76	27 (38%) 0 1	96, 137, 146, 147	0
33	e1	76/76 (100%)	2.52	35 (46%) 0 0	111, 170, 193, 197	0
34	SR	318/318 (100%)	0.86	39 (12%) 5 5	110, 123, 140, 202	0
34	sR	318/318 (100%)	1.07	58 (18%) 2 2	112, 128, 142, 186	0
35	SM	133/182 (73%)	0.82	19 (14%) 4 3	57, 87, 146, 161	0
35	sM	63/182 (34%)	0.61	7 (11%) 7 7	45, 97, 104, 108	0
36	1	3149/3396 (92%)	0.10	110 (3%) 48 42	31, 57, 131, 226	0
36	5	3150/3396 (92%)	0.05	73 (2%) 64 58	30, 54, 119, 190	0
37	3	121/121 (100%)	-0.01	0 100 100	41, 71, 88, 91	0
37	7	121/121 (100%)	-0.13	0 100 100	36, 55, 70, 74	0
38	4	158/158 (100%)	-0.02	4 (2%) 61 55	37, 60, 97, 140	0
38	8	158/158 (100%)	-0.02	3 (1%) 70 64	41, 63, 100, 119	0
39	L2	252/253 (99%)	0.14	2 (0%) 87 83	41, 56, 73, 147	0
39	l2	252/253 (99%)	0.06	6 (2%) 62 57	39, 57, 78, 146	0
40	L3	386/386 (100%)	-0.11	1 (0%) 94 92	36, 58, 75, 93	0
40	l3	386/386 (100%)	-0.21	4 (1%) 84 79	30, 44, 62, 97	0
41	L4	361/361 (100%)	-0.20	2 (0%) 90 86	34, 48, 64, 76	0
41	l4	361/361 (100%)	-0.14	3 (0%) 87 83	36, 50, 68, 80	0
42	L5	296/296 (100%)	0.21	7 (2%) 62 57	52, 75, 96, 113	0
42	l5	294/296 (99%)	0.05	5 (1%) 73 67	40, 58, 85, 120	0
43	L6	156/175 (89%)	-0.19	0 100 100	43, 50, 67, 83	0
43	l6	157/175 (89%)	-0.12	2 (1%) 79 74	41, 50, 70, 79	0
44	L7	222/243 (91%)	-0.35	1 (0%) 91 89	36, 42, 65, 87	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	l7	223/243 (91%)	-0.30	2 (0%) 85 81	33, 41, 72, 98	0
45	L8	233/255 (91%)	0.46	19 (8%) 14 13	61, 81, 173, 291	0
45	l8	231/255 (90%)	0.80	30 (12%) 5 4	68, 83, 110, 115	0
46	L9	191/191 (100%)	0.31	5 (2%) 59 54	48, 61, 73, 82	0
46	l9	191/191 (100%)	-0.04	1 (0%) 91 89	40, 49, 64, 73	0
47	M0	211/220 (95%)	-0.03	8 (3%) 44 39	40, 50, 87, 161	0
47	m0	213/220 (96%)	0.02	3 (1%) 78 73	35, 48, 82, 172	0
48	M1	169/173 (97%)	0.30	5 (2%) 54 49	65, 81, 94, 100	0
48	m1	169/173 (97%)	0.05	1 (0%) 90 86	46, 61, 70, 82	0
49	M3	193/198 (97%)	0.16	5 (2%) 59 54	37, 59, 96, 119	0
49	m3	194/198 (97%)	0.16	5 (2%) 59 54	38, 64, 96, 112	0
50	M4	136/137 (99%)	-0.12	3 (2%) 65 60	45, 50, 63, 71	0
50	m4	137/137 (100%)	-0.30	0 100 100	39, 45, 68, 80	0
51	M5	203/203 (100%)	-0.15	0 100 100	37, 53, 63, 68	0
51	m5	203/203 (100%)	0.01	0 100 100	41, 58, 69, 73	0
52	M6	197/198 (99%)	-0.24	2 (1%) 84 79	35, 41, 60, 63	0
52	m6	197/198 (99%)	-0.30	4 (2%) 68 62	31, 35, 58, 62	0
53	M7	183/183 (100%)	0.21	15 (8%) 14 13	39, 50, 170, 329	0
53	m7	155/183 (84%)	-0.07	0 100 100	35, 42, 53, 67	0
54	M8	185/185 (100%)	-0.18	0 100 100	38, 50, 66, 85	0
54	m8	185/185 (100%)	-0.17	0 100 100	36, 52, 64, 70	0
55	M9	188/188 (100%)	0.48	9 (4%) 34 31	64, 76, 138, 144	0
55	m9	188/188 (100%)	0.33	8 (4%) 39 34	55, 64, 120, 135	0
56	N0	172/172 (100%)	-0.21	1 (0%) 90 86	39, 48, 61, 64	0
56	n0	172/172 (100%)	-0.22	1 (0%) 90 86	35, 40, 51, 61	0
57	N1	159/159 (100%)	-0.06	5 (3%) 52 48	41, 51, 87, 91	0
57	n1	159/159 (100%)	-0.04	5 (3%) 52 48	38, 44, 80, 85	0
58	N2	100/120 (83%)	1.10	23 (23%) 1 1	91, 102, 109, 112	0
58	n2	98/120 (81%)	0.99	18 (18%) 2 2	75, 84, 92, 95	0
59	N3	136/136 (100%)	0.33	6 (4%) 38 34	43, 52, 61, 68	0
59	n3	136/136 (100%)	-0.18	0 100 100	31, 41, 54, 58	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
60	N4	98/155 (63%)	2.22	30 (30%) 1 1	52, 74, 448, 489	0
60	n4	135/155 (87%)	0.79	19 (14%) 4 4	41, 94, 307, 436	0
61	N5	121/141 (85%)	0.32	7 (5%) 26 24	52, 64, 84, 149	0
61	n5	120/141 (85%)	0.48	11 (9%) 11 11	51, 67, 87, 95	0
62	N6	126/126 (100%)	0.07	3 (2%) 62 57	43, 59, 70, 76	0
62	n6	126/126 (100%)	0.13	2 (1%) 74 69	45, 60, 78, 83	0
63	N7	135/135 (100%)	0.64	7 (5%) 31 28	77, 89, 107, 114	0
63	n7	135/135 (100%)	0.30	4 (2%) 54 49	79, 90, 109, 117	0
64	N8	148/148 (100%)	-0.15	0 100 100	31, 52, 72, 81	0
64	n8	148/148 (100%)	-0.21	0 100 100	31, 53, 66, 70	0
65	N9	58/58 (100%)	0.39	6 (10%) 9 8	37, 56, 94, 104	0
65	n9	58/58 (100%)	0.20	0 100 100	35, 53, 76, 80	0
66	O0	97/104 (93%)	0.62	7 (7%) 18 17	75, 83, 96, 98	0
66	o0	100/104 (96%)	0.29	5 (5%) 32 29	72, 80, 98, 105	0
67	O1	109/112 (97%)	0.53	6 (5%) 29 26	54, 72, 123, 237	0
67	o1	109/112 (97%)	0.27	3 (2%) 56 52	46, 58, 93, 168	0
68	O2	127/129 (98%)	-0.10	3 (2%) 62 57	31, 48, 57, 70	0
68	o2	127/129 (98%)	-0.14	2 (1%) 74 69	31, 50, 60, 70	0
69	O3	106/106 (100%)	-0.22	0 100 100	36, 43, 68, 83	0
69	o3	106/106 (100%)	-0.17	0 100 100	35, 40, 65, 72	0
70	O4	112/120 (93%)	0.55	9 (8%) 15 14	55, 74, 101, 106	0
70	o4	112/120 (93%)	0.54	7 (6%) 23 22	53, 71, 100, 105	0
71	O5	119/119 (100%)	0.25	1 (0%) 87 83	51, 67, 75, 81	0
71	o5	119/119 (100%)	0.25	4 (3%) 49 44	58, 68, 82, 90	0
72	O6	99/99 (100%)	0.62	12 (12%) 6 6	57, 66, 91, 98	0
72	o6	99/99 (100%)	0.19	7 (7%) 19 18	61, 72, 86, 100	0
73	O7	87/87 (100%)	0.30	3 (3%) 49 44	39, 46, 70, 86	0
73	o7	87/87 (100%)	0.23	4 (4%) 36 32	38, 47, 81, 114	0
74	O8	77/77 (100%)	0.47	5 (6%) 22 21	84, 91, 99, 101	0
74	o8	77/77 (100%)	0.86	12 (15%) 3 3	83, 91, 111, 122	0
75	O9	50/50 (100%)	-0.30	0 100 100	48, 52, 60, 67	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
75	o9	50/50 (100%)	0.00	0 100 100	48, 51, 61, 77	0
76	Q0	52/52 (100%)	-0.01	0 100 100	48, 55, 66, 71	0
76	q0	52/52 (100%)	-0.21	0 100 100	38, 41, 48, 54	0
77	Q1	25/25 (100%)	0.61	1 (4%) 42 37	67, 68, 72, 73	0
77	q1	25/25 (100%)	0.14	0 100 100	54, 57, 67, 72	0
78	Q2	105/105 (100%)	0.65	13 (12%) 5 5	44, 63, 74, 88	0
78	q2	105/105 (100%)	0.78	10 (9%) 10 10	44, 56, 70, 88	0
79	Q3	91/91 (100%)	0.05	0 100 100	48, 58, 72, 82	0
79	q3	91/91 (100%)	-0.05	2 (2%) 65 60	46, 55, 71, 78	0
80	c0	84/96 (87%)	0.91	11 (13%) 5 4	107, 133, 141, 144	0
81	m2	0/150	-	-	-	-
82	p0	120/311 (38%)	0.38	4 (3%) 50 45	86, 103, 118, 125	0
83	p1	0/47	-	-	-	-
84	p2	0/46	-	-	-	-
All	All	32953/35147 (93%)	0.34	2043 (6%) 24 22	30, 72, 139, 489	0

All (2043) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
60	N4	75	THR	20.0
14	c2	30	VAL	13.5
19	C7	125	SER	13.0
60	N4	76	VAL	12.9
16	C4	15	GLY	12.0
14	c2	123	VAL	11.5
1	2	1702	A	11.4
53	M7	161	ALA	11.0
60	N4	95	SER	11.0
19	C7	124	VAL	10.8
60	n4	68	ALA	10.6
14	c2	64	SER	10.4
18	C6	20	ALA	10.3
1	2	1709	C	10.2
34	sR	25	THR	9.9
16	C4	16	VAL	9.9
60	N4	70	LYS	9.9
1	2	1704	U	9.8
1	2	1694	A	9.6

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Mol	Chain	Res	Type	RSRZ
1	2	1711	C	9.3
1	2	1708	U	9.3
11	S9	181	ALA	9.1
1	2	1698	G	8.9
60	N4	74	LYS	8.8
1	2	194	U	8.8
60	N4	85	ALA	8.7
33	e1	95	HIS	8.7
60	N4	94	ARG	8.6
1	2	1700	C	8.6
22	D0	120	SER	8.4
60	N4	90	ILE	8.4
1	2	1699	G	8.3
36	1	1234	G	8.3
60	N4	81	PRO	8.3
1	2	1693	A	8.3
53	M7	162	GLU	8.3
33	e1	111	GLU	8.2
1	6	662	U	8.2
45	l8	254	ASP	8.2
2	S0	43	ASP	8.1
1	2	1692	G	8.0
1	2	1690	G	8.0
53	M7	159	LYS	8.0
60	N4	77	LYS	7.9
1	2	656	G	7.9
60	n4	69	LYS	7.9
33	e1	145	HIS	7.7
36	1	1955	U	7.7
21	C9	5	SER	7.6
60	N4	78	ALA	7.6
14	c2	124	LYS	7.6
1	2	1707	A	7.5
1	2	1687	U	7.5
36	1	1238	C	7.3
33	e1	150	VAL	7.3
2	S0	44	GLY	7.3
1	2	719	U	7.3
30	D8	44	VAL	7.3
60	N4	96	LEU	7.3
1	6	663	U	7.3
1	2	238	U	7.2

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Mol	Chain	Res	Type	RSRZ
9	s7	52	ALA	7.2
14	c2	63	VAL	7.2
3	S1	94	LYS	7.2
33	e1	85	TYR	7.2
47	m0	111	LEU	7.1
60	N4	98	PRO	7.1
14	c2	126	TRP	6.9
1	6	656	G	6.9
1	2	493	U	6.8
1	2	1710	U	6.8
14	c2	29	LYS	6.8
19	C7	123	ASN	6.8
60	N4	84	GLY	6.7
36	1	1237	G	6.7
1	2	491	C	6.6
60	N4	67	VAL	6.6
1	2	715	U	6.6
3	S1	96	LEU	6.6
53	M7	160	ALA	6.6
22	d0	99	ILE	6.6
1	2	1703	C	6.6
36	1	1952	G	6.6
45	l8	253	SER	6.6
7	s5	152	GLY	6.5
1	6	667	U	6.5
73	o7	87	SER	6.5
1	6	658	C	6.5
26	D4	2	SER	6.5
16	C4	14	PHE	6.4
14	c2	27	ALA	6.4
22	D0	121	ASN	6.4
45	L8	121	SER	6.4
14	C2	62	LEU	6.3
19	C7	126	ALA	6.3
1	6	232	U	6.2
14	c2	26	ASP	6.2
35	SM	141	ALA	6.2
1	2	1691	A	6.2
1	2	492	A	6.1
3	S1	91	VAL	6.1
36	5	1569	U	6.1
14	c2	75	VAL	6.1

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Mol	Chain	Res	Type	RSRZ
17	c5	4	ALA	6.1
14	c2	80	ASN	6.0
60	n4	132	GLY	6.0
9	S7	100	PRO	6.0
20	C8	23	ASP	6.0
20	c8	22	VAL	6.0
34	sR	26	SER	6.0
60	N4	82	ILE	6.0
14	c2	28	LEU	5.9
22	d0	121	ASN	5.9
1	2	718	U	5.9
36	1	1568	U	5.9
1	6	1707	A	5.9
33	e1	77	GLY	5.9
3	S1	25	THR	5.9
60	n4	75	THR	5.9
33	e1	80	ARG	5.8
60	N4	80	ARG	5.8
1	6	493	U	5.8
1	6	678	A	5.8
14	c2	121	VAL	5.8
36	1	1239	C	5.8
73	o7	88	ALA	5.8
1	2	1705	C	5.8
60	N4	71	ARG	5.7
60	N4	73	ARG	5.7
45	l8	120	LYS	5.7
17	c5	135	THR	5.7
39	l2	252	THR	5.7
36	1	1243	G	5.7
1	6	194	U	5.7
14	c2	84	ASN	5.7
22	D0	93	LEU	5.6
39	l2	253	GLN	5.6
1	2	1712	A	5.6
1	2	722	G	5.6
36	5	442	G	5.6
1	6	664	U	5.6
1	6	1702	A	5.6
36	1	1349	G	5.6
3	S1	93	GLY	5.6
47	m0	112	GLN	5.6

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Mol	Chain	Res	Type	RSRZ
14	C2	141	SER	5.6
1	6	490	C	5.6
1	6	718	U	5.5
18	c6	19	VAL	5.5
53	M7	163	LYS	5.5
27	d5	37	GLN	5.5
7	S5	152	GLY	5.5
32	e0	62	VAL	5.5
39	L2	253	GLN	5.5
33	E1	152	ALA	5.5
19	C7	121	VAL	5.5
33	e1	102	VAL	5.5
1	2	845	G	5.5
33	e1	78	LYS	5.4
1	2	1686	C	5.4
7	s5	151	GLY	5.4
34	sR	168	THR	5.4
1	2	490	C	5.3
19	C7	86	PRO	5.3
1	2	193	U	5.3
3	S1	29	TRP	5.3
1	6	1710	U	5.3
30	D8	43	ASN	5.3
73	O7	87	SER	5.3
10	S8	200	LYS	5.2
1	2	488	G	5.2
1	6	1694	A	5.2
1	6	665	U	5.2
1	2	720	G	5.2
1	2	135	A	5.2
1	2	1697	G	5.2
1	6	1059	U	5.2
36	5	1562	C	5.2
33	e1	79	LYS	5.2
1	6	676	G	5.2
1	2	725	U	5.2
1	6	494	U	5.1
2	S0	24	LEU	5.1
3	S1	28	GLU	5.1
45	L8	122	LYS	5.1
60	N4	88	ASP	5.1
1	6	668	C	5.1

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Mol	Chain	Res	Type	RSRZ
1	2	716	C	5.1
3	S1	54	LEU	5.1
1	6	1217	A	5.1
1	6	659	C	5.1
45	l8	246	MET	5.0
30	d8	13	ILE	5.0
14	c2	56	GLU	5.0
31	d9	5	ASN	5.0
3	S1	45	LYS	5.0
7	S5	161	ASP	5.0
19	c7	65	PRO	5.0
35	SM	84	LYS	5.0
19	c7	122	ILE	5.0
13	c1	146	ALA	5.0
36	1	1236	G	5.0
33	E1	87	THR	5.0
36	1	1764	U	5.0
14	C2	88	LEU	5.0
1	6	666	U	5.0
22	D0	92	ASP	5.0
14	c2	34	THR	4.9
36	5	1349	G	4.9
22	d0	107	THR	4.9
1	6	495	C	4.9
8	S6	1	MET	4.9
32	E0	54	ARG	4.9
26	d4	26	ASP	4.9
1	2	134	U	4.9
1	2	717	C	4.9
43	l6	128	LYS	4.9
60	N4	93	ARG	4.9
1	2	217	A	4.9
34	sR	121	MET	4.9
36	1	1569	U	4.9
7	S5	37	GLN	4.8
32	E0	48	THR	4.8
1	6	1693	A	4.8
18	C6	3	ALA	4.8
36	5	1567	U	4.8
32	E0	49	LEU	4.8
55	M9	181	ARG	4.8
14	C2	67	THR	4.8

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Mol	Chain	Res	Type	RSRZ
22	D0	51	VAL	4.8
1	2	1696	G	4.8
14	c2	143	GLN	4.7
58	n2	98	THR	4.7
36	1	2539	C	4.7
28	D6	8	ASN	4.7
39	l2	249	SER	4.7
21	C9	71	VAL	4.7
1	2	1689	A	4.7
14	c2	86	VAL	4.7
20	C8	8	GLN	4.7
22	D0	19	ILE	4.7
60	N4	72	SER	4.7
1	6	492	A	4.7
36	1	1259	A	4.7
53	M7	168	LEU	4.7
2	S0	40	ALA	4.7
5	s3	145	ALA	4.7
14	c2	59	LEU	4.7
36	1	1815	U	4.6
17	c5	134	THR	4.6
58	N2	98	THR	4.6
1	2	724	C	4.6
36	5	1574	C	4.6
1	2	132	U	4.6
1	2	1701	A	4.6
1	2	234	G	4.6
36	1	3289	G	4.6
20	c8	18	LEU	4.6
18	C6	92	TYR	4.6
45	l8	121	SER	4.6
11	S9	182	GLU	4.6
18	c6	4	VAL	4.6
5	S3	44	THR	4.6
1	6	655	G	4.6
36	5	2503	G	4.6
34	sR	92	TRP	4.5
1	2	506	A	4.5
28	D6	9	GLY	4.5
36	5	491	C	4.5
1	2	218	A	4.5
1	6	229	U	4.5

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Mol	Chain	Res	Type	RSRZ
14	c2	76	GLU	4.5
22	d0	100	VAL	4.5
18	c6	142	TYR	4.5
1	2	712	G	4.5
1	6	226	A	4.5
34	sR	294	TRP	4.5
1	6	489	C	4.5
1	6	1712	A	4.5
30	D8	9	LEU	4.5
1	2	830	U	4.5
18	c6	3	ALA	4.5
34	sR	83	ALA	4.5
60	n4	66	GLU	4.5
9	s7	93	LEU	4.5
14	c2	136	ILE	4.5
22	d0	18	GLN	4.5
30	D8	15	VAL	4.5
35	SM	85	SER	4.5
60	n4	67	VAL	4.5
14	c2	125	ASN	4.5
3	S1	201	THR	4.5
34	SR	160	GLU	4.5
36	1	1571	A	4.5
18	c6	8	GLN	4.5
67	o1	4	LEU	4.5
9	S7	108	GLN	4.4
1	6	217	A	4.4
1	2	913	G	4.4
33	E1	137	ASP	4.4
22	D0	20	ILE	4.4
59	N3	2	SER	4.4
35	sM	83	LYS	4.4
1	6	651	G	4.4
60	n4	70	LYS	4.4
1	2	721	U	4.4
1	2	723	G	4.4
19	c7	53	TYR	4.4
60	n4	73	ARG	4.4
26	D4	67	GLY	4.4
14	C2	63	VAL	4.4
1	6	75	U	4.4
61	n5	23	ALA	4.4

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Mol	Chain	Res	Type	RSRZ
1	2	713	A	4.3
18	c6	29	ILE	4.3
39	l2	250	GLN	4.3
3	S1	23	PRO	4.3
14	c2	82	PRO	4.3
2	S0	23	HIS	4.3
60	N4	79	GLN	4.3
3	s1	20	VAL	4.3
60	n4	76	VAL	4.3
36	5	2506	U	4.3
45	L8	114	ALA	4.3
36	5	1566	A	4.3
13	c1	4	GLU	4.3
6	S4	261	LEU	4.3
45	L8	115	ALA	4.3
11	S9	180	LYS	4.3
36	5	1580	A	4.3
1	6	677	G	4.2
30	D8	26	THR	4.2
1	6	654	C	4.2
36	1	1762	C	4.2
34	SR	79	TYR	4.2
36	1	1278	A	4.2
26	d4	18	LEU	4.2
58	N2	80	THR	4.2
3	S1	95	ASN	4.2
1	2	235	G	4.2
1	2	677	G	4.2
34	sR	3	SER	4.2
72	O6	69	ALA	4.2
1	6	1699	G	4.2
3	S1	46	THR	4.2
36	1	1277	C	4.2
16	C4	29	HIS	4.2
32	E0	53	LYS	4.2
36	5	1764	U	4.2
53	M7	164	LYS	4.2
33	E1	93	HIS	4.2
58	N2	27	VAL	4.2
33	e1	110	ALA	4.1
36	5	1573	G	4.1
5	s3	175	VAL	4.1

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Mol	Chain	Res	Type	RSRZ
14	C2	41	LEU	4.1
36	1	1240	A	4.1
36	5	1350	A	4.1
29	D7	38	PRO	4.1
1	2	714	G	4.1
1	6	1228	G	4.1
1	2	657	U	4.1
1	6	679	U	4.1
3	S1	92	GLN	4.1
26	d4	9	THR	4.1
36	1	1261	G	4.1
36	1	3286	G	4.1
9	s7	2	SER	4.1
17	c5	136	SER	4.1
62	N6	127	GLU	4.1
1	2	192	U	4.1
2	S0	41	ARG	4.1
27	d5	105	THR	4.1
36	5	1025	A	4.1
20	C8	10	SER	4.1
1	6	705	U	4.1
14	c2	128	ALA	4.1
14	C2	73	LYS	4.1
34	SR	81	LEU	4.1
18	C6	5	PRO	4.1
14	c2	47	GLU	4.1
36	1	3287	U	4.1
3	S1	30	PHE	4.1
10	S8	21	PHE	4.1
66	o0	67	VAL	4.1
14	C2	28	LEU	4.1
6	S4	259	GLN	4.0
14	C2	32	LEU	4.0
1	6	501	U	4.0
1	6	506	A	4.0
36	1	1567	U	4.0
19	C7	71	PHE	4.0
33	e1	127	GLY	4.0
18	C6	26	LYS	4.0
36	5	1763	U	4.0
18	C6	11	GLY	4.0
1	2	195	G	4.0

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Mol	Chain	Res	Type	RSRZ
36	1	1256	G	4.0
35	SM	87	THR	4.0
1	6	657	U	4.0
19	C7	120	SER	4.0
30	D8	56	LEU	4.0
33	E1	86	THR	4.0
36	5	1028	U	4.0
1	2	131	C	4.0
30	D8	41	VAL	4.0
33	e1	112	GLY	4.0
63	n7	2	ALA	4.0
36	5	252	U	3.9
78	Q2	99	GLN	3.9
45	l8	107	GLU	3.9
1	2	74	U	3.9
1	2	280	U	3.9
20	C8	22	VAL	3.9
1	6	1695	G	3.9
28	D6	86	VAL	3.9
14	C2	74	LEU	3.9
22	D0	22	ILE	3.9
34	SR	115	ILE	3.9
33	E1	134	ASN	3.9
19	c7	119	LEU	3.9
21	C9	2	PRO	3.9
1	2	1370	U	3.9
14	c2	142	GLN	3.9
1	2	658	C	3.9
4	s2	92	ALA	3.9
31	D9	4	GLU	3.9
1	6	669	G	3.9
58	N2	94	ARG	3.9
33	e1	148	TYR	3.9
11	S9	186	GLU	3.9
36	5	620	U	3.9
14	c2	132	GLU	3.9
36	1	1263	A	3.9
1	2	1706	C	3.8
14	c2	96	GLN	3.8
28	D6	52	ASP	3.8
32	e0	49	LEU	3.8
36	5	1572	U	3.8

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Mol	Chain	Res	Type	RSRZ
1	2	682	C	3.8
5	S3	208	ILE	3.8
19	c7	17	ILE	3.8
35	sM	84	LYS	3.8
20	C8	73	MET	3.8
3	s1	153	HIS	3.8
40	l3	387	LEU	3.8
14	c2	43	ARG	3.8
1	2	136	C	3.8
60	n4	131	ALA	3.8
20	c8	15	LEU	3.8
65	N9	54	LEU	3.8
34	sR	244	ALA	3.8
1	6	239	C	3.8
1	2	829	A	3.8
18	c6	18	ALA	3.8
60	n4	128	ALA	3.8
28	D6	80	HIS	3.8
29	D7	41	LEU	3.8
67	O1	4	LEU	3.8
1	2	75	U	3.8
1	2	1688	U	3.8
3	S1	55	LYS	3.8
7	s5	129	PRO	3.8
14	c2	79	ALA	3.8
26	D4	107	GLN	3.8
36	5	443	G	3.8
45	l8	252	ASN	3.8
14	c2	85	LYS	3.8
1	6	721	U	3.8
31	d9	4	GLU	3.8
32	e0	63	GLN	3.8
59	N3	3	GLY	3.8
1	6	491	C	3.8
33	E1	106	TYR	3.8
1	6	675	U	3.8
38	4	158	U	3.8
9	S7	87	ASP	3.8
14	C2	50	LYS	3.8
34	SR	252	LEU	3.8
14	c2	122	VAL	3.8
16	C4	13	VAL	3.8

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Mol	Chain	Res	Type	RSRZ
79	q3	2	ALA	3.7
1	2	1713	G	3.7
1	6	661	A	3.7
35	SM	88	ARG	3.7
26	d4	67	GLY	3.7
33	e1	90	LYS	3.7
13	c1	147	GLY	3.7
30	D8	8	THR	3.7
58	n2	97	SER	3.7
36	1	1570	U	3.7
61	N5	24	LEU	3.7
1	6	1687	U	3.7
20	c8	19	ASN	3.7
60	N4	92	GLU	3.7
16	C4	78	ALA	3.7
20	C8	71	GLN	3.7
30	D8	7	VAL	3.7
34	sR	266	ASP	3.7
3	S1	47	LEU	3.7
36	1	1954	G	3.7
10	s8	67	TRP	3.7
34	sR	46	LYS	3.7
40	L3	387	LEU	3.7
1	2	261	U	3.7
36	1	1228	C	3.7
9	s7	3	ALA	3.7
20	C8	101	LEU	3.7
78	Q2	104	LEU	3.7
3	S1	151	LYS	3.7
36	1	1245	A	3.7
36	1	1260	A	3.7
21	C9	90	PRO	3.7
33	E1	83	LYS	3.7
26	D4	34	ASN	3.7
16	C4	41	ARG	3.7
18	C6	66	ARG	3.7
1	6	674	C	3.7
17	c5	133	ALA	3.6
1	2	678	A	3.6
1	6	1711	C	3.6
36	1	1016	C	3.6
36	5	1563	C	3.6

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Mol	Chain	Res	Type	RSRZ
7	s5	127	GLN	3.6
36	1	1028	U	3.6
8	S6	152	ASP	3.6
22	d0	104	THR	3.6
30	D8	59	SER	3.6
29	d7	59	CYS	3.6
28	D6	79	ILE	3.6
1	6	719	U	3.6
4	s2	93	GLY	3.6
11	S9	185	GLY	3.6
36	1	1351	U	3.6
36	5	249	U	3.6
16	C4	110	LEU	3.6
74	O8	5	ILE	3.6
3	s1	28	GLU	3.6
33	E1	85	TYR	3.6
2	S0	196	SER	3.6
8	S6	12	SER	3.6
36	1	1763	U	3.6
1	6	731	C	3.6
36	5	2539	C	3.6
58	n2	105	LEU	3.6
35	sM	49	LYS	3.6
36	1	1572	U	3.6
18	c6	89	LEU	3.6
22	d0	93	LEU	3.6
26	d4	135	ASP	3.6
74	O8	28	ASN	3.6
1	2	133	U	3.6
30	d8	17	GLY	3.6
36	1	1350	A	3.6
36	5	2505	U	3.6
30	D8	21	SER	3.6
45	l8	247	ASP	3.6
53	M7	184	ALA	3.6
1	2	494	U	3.6
1	2	848	C	3.6
14	c2	104	ALA	3.6
19	C7	117	LEU	3.6
42	l5	270	LYS	3.5
45	L8	123	GLN	3.5
63	N7	92	PHE	3.5

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Mol	Chain	Res	Type	RSRZ
22	d0	94	GLU	3.5
28	D6	90	GLU	3.5
65	N9	55	ALA	3.5
30	D8	45	LYS	3.5
60	n4	133	THR	3.5
14	c2	137	MET	3.5
22	d0	95	ALA	3.5
1	2	495	C	3.5
31	d9	17	GLY	3.5
36	1	1229	G	3.5
57	N1	121	ALA	3.5
33	e1	123	ASN	3.5
1	2	730	G	3.5
34	sR	253	ALA	3.5
13	C1	26	LYS	3.5
14	c2	115	VAL	3.5
17	c5	6	ASN	3.5
30	D8	16	LEU	3.5
3	S1	146	GLN	3.5
33	e1	124	PRO	3.5
60	N4	69	LYS	3.5
1	2	1695	G	3.5
11	S9	101	VAL	3.5
30	D8	54	LEU	3.5
1	2	1059	U	3.5
20	C8	9	GLY	3.5
28	D6	60	PRO	3.5
1	6	487	G	3.5
2	S0	28	ASN	3.5
34	sR	117	LYS	3.5
27	D5	48	ASP	3.5
4	s2	84	LYS	3.5
1	6	231	U	3.4
16	C4	27	PHE	3.4
20	C8	142	GLY	3.4
56	N0	1	MET	3.4
36	1	1262	G	3.4
42	L5	213	ASP	3.4
67	o1	112	ASP	3.4
1	6	1703	C	3.4
9	s7	90	VAL	3.4
34	sR	61	PHE	3.4

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Mol	Chain	Res	Type	RSRZ
26	d4	69	SER	3.4
1	2	504	U	3.4
13	C1	145	ALA	3.4
36	1	1270	A	3.4
36	5	1571	A	3.4
4	S2	90	THR	3.4
33	E1	100	LEU	3.4
36	1	1025	A	3.4
36	5	1352	A	3.4
20	C8	32	LEU	3.4
36	1	3288	G	3.4
3	S1	144	ARG	3.4
22	D0	48	HIS	3.4
3	s1	30	PHE	3.4
27	d5	89	ILE	3.4
36	5	1564	U	3.4
14	c2	131	ASP	3.4
19	C7	53	TYR	3.4
22	d0	25	THR	3.4
33	e1	104	SER	3.4
34	sR	205	SER	3.4
36	1	1274	A	3.4
35	SM	19	VAL	3.4
17	C5	70	ASN	3.4
30	D8	62	GLU	3.4
58	n2	44	GLU	3.4
1	2	183	U	3.4
20	c8	17	LEU	3.4
30	d8	9	LEU	3.4
34	SR	212	ALA	3.4
45	L8	207	ASP	3.4
33	e1	106	TYR	3.4
36	1	1242	G	3.4
18	C6	21	HIS	3.4
47	m0	221	ALA	3.3
5	s3	148	LYS	3.3
33	e1	134	ASN	3.3
34	sR	48	THR	3.3
74	o8	72	THR	3.3
36	1	1230	G	3.3
1	2	649	U	3.3
2	S0	25	GLY	3.3

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Mol	Chain	Res	Type	RSRZ
3	S1	26	ARG	3.3
11	S9	35	GLY	3.3
58	N2	62	VAL	3.3
36	5	1261	G	3.3
16	C4	11	SER	3.3
26	D4	104	SER	3.3
36	1	1951	C	3.3
26	d4	27	VAL	3.3
36	5	2538	U	3.3
7	s5	128	ASN	3.3
47	M0	209	ASN	3.3
45	l8	117	ALA	3.3
30	D8	48	VAL	3.3
55	m9	115	ILE	3.3
15	C3	61	THR	3.3
59	N3	5	GLY	3.3
60	N4	87	LEU	3.3
1	2	239	C	3.3
5	S3	88	ALA	3.3
34	SR	284	ALA	3.3
78	Q2	12	CYS	3.3
19	C7	70	SER	3.3
16	C4	102	LEU	3.3
22	d0	98	GLN	3.3
42	l5	274	GLN	3.3
1	6	235	G	3.3
30	D8	60	GLU	3.3
20	C8	2	SER	3.3
30	d8	32	PHE	3.3
49	M3	130	GLY	3.3
59	N3	100	GLY	3.3
61	N5	23	ALA	3.3
1	2	127	G	3.3
19	c7	57	LEU	3.3
1	2	708	C	3.3
7	S5	55	ASP	3.3
33	E1	129	GLY	3.3
1	2	197	A	3.3
33	e1	147	VAL	3.3
18	c6	2	SER	3.3
58	N2	13	LYS	3.3
11	S9	64	GLU	3.3

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Mol	Chain	Res	Type	RSRZ
7	s5	145	ASP	3.3
14	c2	31	VAL	3.3
1	2	236	A	3.2
70	O4	110	GLU	3.2
16	C4	136	ARG	3.2
11	S9	184	SER	3.2
1	6	1708	U	3.2
36	1	1273	A	3.2
19	c7	103	ASP	3.2
36	1	2772	C	3.2
40	l3	386	ASP	3.2
13	c1	3	THR	3.2
33	e1	113	LYS	3.2
1	2	497	G	3.2
1	6	234	G	3.2
1	6	660	G	3.2
2	S0	39	ASN	3.2
18	c6	20	ALA	3.2
80	c0	65	TYR	3.2
27	D5	105	THR	3.2
1	6	240	U	3.2
36	1	1269	U	3.2
5	s3	178	ARG	3.2
18	c6	139	GLN	3.2
7	S5	164	PRO	3.2
22	D0	116	VAL	3.2
33	E1	151	ASN	3.2
17	c5	50	THR	3.2
14	C2	61	VAL	3.2
14	C2	26	ASP	3.2
16	C4	75	GLY	3.2
33	E1	124	PRO	3.2
30	d8	43	ASN	3.2
55	M9	170	ARG	3.2
36	1	1279	C	3.2
61	N5	30	ALA	3.2
45	L8	116	VAL	3.2
58	N2	108	TYR	3.2
34	sR	251	TRP	3.2
36	1	1029	G	3.2
1	6	225	A	3.2
22	d0	19	ILE	3.2

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Mol	Chain	Res	Type	RSRZ
33	e1	114	VAL	3.2
2	s0	186	GLY	3.2
19	c7	10	LYS	3.2
1	6	236	A	3.2
1	2	233	C	3.2
49	m3	190	LYS	3.2
34	sR	246	SER	3.2
34	SR	96	THR	3.2
36	1	1352	A	3.2
5	s3	215	GLU	3.1
60	N4	86	SER	3.1
65	N9	57	ALA	3.1
13	C1	3	THR	3.1
13	C1	27	THR	3.1
33	e1	143	LYS	3.1
1	2	230	C	3.1
36	1	1280	C	3.1
14	c2	141	SER	3.1
28	D6	62	TYR	3.1
14	C2	38	HIS	3.1
14	C2	49	THR	3.1
68	O2	128	LEU	3.1
1	2	847	A	3.1
3	s1	91	VAL	3.1
58	N2	77	LYS	3.1
10	S8	20	GLN	3.1
22	d0	90	TYR	3.1
2	s0	24	LEU	3.1
50	M4	135	LEU	3.1
31	d9	29	GLY	3.1
22	d0	117	VAL	3.1
3	S1	60	ALA	3.1
26	D4	69	SER	3.1
58	N2	93	ILE	3.1
14	c2	130	THR	3.1
9	S7	97	ARG	3.1
78	q2	81	ALA	3.1
33	E1	103	LEU	3.1
22	D0	21	LYS	3.1
36	1	1241	U	3.1
1	6	700	C	3.1
13	C1	2	SER	3.1

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Mol	Chain	Res	Type	RSRZ
74	O8	55	VAL	3.1
14	c2	100	TRP	3.1
14	C2	27	ALA	3.1
36	1	3290	G	3.1
45	l8	115	ALA	3.1
26	D4	3	ASP	3.1
30	d8	54	LEU	3.1
70	o4	106	LYS	3.1
78	Q2	11	TYR	3.1
3	S1	142	PHE	3.1
8	S6	226	ILE	3.1
20	C8	39	GLY	3.1
55	m9	113	GLY	3.1
44	l7	26	VAL	3.1
7	S5	54	LYS	3.1
1	6	1398	U	3.1
13	C1	147	GLY	3.1
22	d0	92	ASP	3.1
33	e1	146	SER	3.1
17	c5	5	VAL	3.1
29	d7	57	GLU	3.1
30	D8	31	GLU	3.1
42	l5	271	LYS	3.1
5	s3	43	PRO	3.0
58	n2	106	ALA	3.1
20	c8	21	ASN	3.0
1	6	1265	G	3.0
4	s2	248	SER	3.0
14	C2	56	GLU	3.0
22	d0	105	GLN	3.0
62	n6	62	SER	3.0
1	2	1362	U	3.0
78	Q2	79	THR	3.0
32	E0	7	SER	3.0
36	5	1016	C	3.0
36	5	1568	U	3.0
38	8	81	U	3.0
65	N9	56	ALA	3.0
73	o7	86	ALA	3.0
7	S5	41	LYS	3.0
49	M3	129	ASN	3.0
68	o2	128	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
17	C5	50	THR	3.0
34	SR	253	ALA	3.0
5	S3	217	ILE	3.0
34	sR	90	ARG	3.0
34	SR	231	MET	3.0
1	6	1700	C	3.0
2	S0	205	ARG	3.0
8	S6	154	ARG	3.0
16	C4	111	ARG	3.0
36	5	1579	C	3.0
60	N4	83	THR	3.0
21	C9	91	TYR	3.0
5	S3	148	LYS	3.0
8	S6	162	VAL	3.0
24	D2	74	VAL	3.0
27	d5	85	LYS	3.0
3	s1	97	LEU	3.0
59	N3	4	ASN	3.0
14	C2	136	ILE	3.0
14	c2	83	GLU	3.0
30	D8	10	ALA	3.0
1	6	714	G	3.0
33	e1	122	SER	3.0
66	o0	6	SER	3.0
74	o8	29	LYS	3.0
19	c7	8	THR	3.0
30	D8	25	VAL	3.0
1	2	489	C	3.0
1	6	1397	U	3.0
19	c7	67	ARG	3.0
36	1	1765	U	3.0
38	8	80	A	3.0
1	6	1698	G	3.0
34	SR	72	THR	3.0
80	c0	50	THR	3.0
2	S0	107	PHE	3.0
27	d5	86	GLU	3.0
10	S8	167	ALA	3.0
20	C8	72	ILE	3.0
14	C2	33	ARG	3.0
19	c7	25	THR	3.0
45	L8	110	THR	3.0

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Mol	Chain	Res	Type	RSRZ
32	e0	55	ARG	3.0
40	l3	140	ASP	3.0
20	C8	12	GLN	3.0
33	E1	145	HIS	3.0
34	sR	177	MET	3.0
3	S1	226	GLY	2.9
30	D8	42	ARG	2.9
22	d0	52	LYS	2.9
58	n2	13	LYS	2.9
1	6	653	C	2.9
35	sM	85	SER	2.9
3	S1	53	GLY	2.9
4	s2	87	GLN	2.9
17	c5	106	GLU	2.9
78	q2	79	THR	2.9
3	S1	20	VAL	2.9
58	n2	92	TRP	2.9
10	s8	80	GLY	2.9
70	O4	113	LYS	2.9
4	s2	240	LEU	2.9
10	s8	117	TYR	2.9
60	N4	68	ALA	2.9
36	5	1820	U	2.9
33	E1	116	LYS	2.9
35	SM	83	LYS	2.9
80	c0	29	GLN	2.9
9	S7	98	ILE	2.9
12	C0	12	HIS	2.9
26	D4	29	HIS	2.9
3	S1	133	TYR	2.9
8	S6	180	THR	2.9
20	C8	141	THR	2.9
34	SR	32	LEU	2.9
3	S1	100	PHE	2.9
45	l8	52	TRP	2.9
7	S5	181	GLU	2.9
49	m3	131	LYS	2.9
1	2	232	U	2.9
32	E0	50	VAL	2.9
3	s1	52	THR	2.9
33	e1	125	THR	2.9
19	C7	116	LYS	2.9

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Mol	Chain	Res	Type	RSRZ
14	c2	40	GLY	2.9
19	c7	35	CYS	2.9
1	2	240	U	2.9
36	1	1235	U	2.9
36	5	1570	U	2.9
1	2	1601	G	2.9
1	2	1716	C	2.9
61	n5	33	ARG	2.9
16	C4	40	ALA	2.9
2	s0	106	SER	2.9
28	D6	55	GLU	2.9
35	SM	81	THR	2.9
3	S1	44	GLY	2.9
9	S7	99	LEU	2.9
22	D0	105	GLN	2.9
14	C2	35	ALA	2.9
34	sR	245	PHE	2.9
6	S4	254	ARG	2.9
33	e1	86	THR	2.9
19	C7	85	VAL	2.9
6	S4	54	TYR	2.9
1	2	191	C	2.9
1	6	230	C	2.9
10	s8	200	LYS	2.9
33	e1	94	LYS	2.9
1	6	483	A	2.9
30	D8	28	VAL	2.9
53	M7	166	VAL	2.9
21	C9	141	GLU	2.9
36	5	1762	C	2.9
72	O6	64	SER	2.9
1	2	507	U	2.9
3	S1	204	ILE	2.9
14	C2	126	TRP	2.9
21	C9	6	VAL	2.9
1	6	1371	A	2.9
1	6	1696	G	2.9
8	S6	186	ARG	2.9
14	C2	55	GLY	2.9
5	s3	208	ILE	2.8
18	c6	63	ILE	2.8
45	L8	113	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
1	2	655	G	2.8
1	2	846	G	2.8
24	D2	73	GLY	2.8
46	L9	10	ILE	2.8
58	n2	52	ASN	2.8
6	S4	260	GLY	2.8
14	c2	77	GLY	2.8
26	D4	66	GLY	2.8
28	D6	91	ASP	2.8
19	c7	5	ARG	2.8
22	D0	99	ILE	2.8
61	n5	142	ILE	2.8
33	e1	92	LYS	2.8
36	1	3163	A	2.8
10	s8	111	GLN	2.8
22	D0	47	GLN	2.8
58	N2	16	THR	2.8
78	Q2	10	THR	2.8
1	2	1060	U	2.8
20	C8	18	LEU	2.8
10	s8	114	GLU	2.8
21	C9	85	SER	2.8
14	c2	74	LEU	2.8
35	sM	82	THR	2.8
61	n5	38	LEU	2.8
36	1	252	U	2.8
6	s4	26	CYS	2.8
1	6	673	A	2.8
7	S5	151	GLY	2.8
16	C4	103	ARG	2.8
18	C6	28	LEU	2.8
45	l8	215	VAL	2.8
1	6	1704	U	2.8
3	s1	31	ASP	2.8
36	1	3361	G	2.8
6	S4	252	ARG	2.8
21	C9	89	ARG	2.8
36	1	1232	C	2.8
72	O6	96	ALA	2.8
5	s3	41	VAL	2.8
27	d5	50	ILE	2.8
34	SR	211	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
1	6	1227	A	2.8
14	c2	95	LYS	2.8
22	D0	96	PRO	2.8
58	N2	89	LEU	2.8
68	O2	2	ALA	2.8
1	2	729	G	2.8
8	S6	156	PHE	2.8
32	E0	61	SER	2.8
28	D6	85	ARG	2.8
34	sR	59	ARG	2.8
66	O0	94	GLU	2.8
57	n1	121	ALA	2.8
9	s7	51	VAL	2.8
21	C9	4	VAL	2.8
36	1	546	C	2.8
34	sR	72	THR	2.8
22	D0	45	ALA	2.8
45	L8	99	PRO	2.8
47	M0	200	LEU	2.8
70	o4	62	TYR	2.8
7	s5	62	VAL	2.8
47	M0	217	PHE	2.8
9	S7	101	LYS	2.8
22	d0	57	ARG	2.8
19	c7	13	SER	2.8
14	c2	58	LEU	2.8
34	SR	254	ALA	2.8
34	sR	24	ALA	2.8
36	1	3285	C	2.8
36	1	3360	C	2.8
18	C6	4	VAL	2.8
22	d0	97	VAL	2.8
30	D8	35	ASP	2.8
34	SR	192	PHE	2.8
36	1	2874	G	2.8
8	S6	175	ILE	2.8
72	O6	70	ARG	2.8
36	1	2538	U	2.8
14	C2	135	MET	2.8
30	D8	17	GLY	2.8
34	SR	78	ALA	2.8
34	sR	214	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
35	SM	136	ALA	2.8
1	2	237	C	2.8
35	SM	89	ARG	2.8
45	l8	116	VAL	2.8
3	S1	90	GLU	2.7
1	2	486	G	2.7
1	6	1370	U	2.7
9	s7	58	LEU	2.7
3	S1	42	ASN	2.7
22	d0	119	ALA	2.7
28	D6	25	ASN	2.7
14	c2	25	GLU	2.7
1	6	1235	C	2.7
36	5	1761	C	2.7
36	5	1951	C	2.7
8	s6	147	LEU	2.7
33	E1	82	LYS	2.7
3	S1	205	PHE	2.7
34	SR	186	PHE	2.7
19	c7	116	LYS	2.7
67	O1	102	LYS	2.7
74	o8	69	LEU	2.7
36	1	1759	C	2.7
22	D0	117	VAL	2.7
34	sR	157	VAL	2.7
5	s3	176	LEU	2.7
36	5	1027	A	2.7
11	S9	95	TYR	2.7
14	C2	30	VAL	2.7
14	C2	37	VAL	2.7
74	o8	11	PHE	2.7
1	6	1399	C	2.7
14	C2	89	ILE	2.7
58	N2	24	GLU	2.7
60	n4	65	GLU	2.7
34	sR	252	LEU	2.7
34	sR	316	MET	2.7
1	2	844	A	2.7
18	C6	96	TYR	2.7
42	L5	207	TYR	2.7
80	c0	79	TYR	2.7
13	c1	43	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
72	O6	56	ARG	2.7
19	C7	2	GLY	2.7
34	SR	263	PHE	2.7
61	n5	37	THR	2.7
7	S5	36	ALA	2.7
58	N2	63	VAL	2.7
10	S8	8	ARG	2.7
63	N7	61	LYS	2.7
18	C6	29	ILE	2.7
36	1	1027	A	2.7
1	6	228	G	2.7
3	S1	130	SER	2.7
9	S7	106	SER	2.7
1	6	192	U	2.7
36	5	250	U	2.7
5	s3	42	THR	2.7
8	S6	143	LYS	2.7
11	S9	177	ALA	2.7
16	C4	74	VAL	2.7
49	M3	98	ASP	2.7
71	o5	120	ALA	2.7
20	C8	69	ILE	2.7
1	2	740	A	2.7
17	c5	56	PHE	2.7
28	D6	51	ARG	2.7
34	sR	213	SER	2.7
66	O0	91	SER	2.7
1	2	228	G	2.7
22	d0	56	VAL	2.7
36	5	1561	G	2.7
1	2	696	C	2.7
58	N2	38	ILE	2.7
19	c7	16	LEU	2.7
13	c1	42	PHE	2.7
17	c5	83	MET	2.7
32	e0	56	MET	2.7
34	SR	52	GLN	2.7
41	L4	304	GLN	2.7
60	n4	77	LYS	2.7
19	c7	2	GLY	2.7
22	D0	54	GLY	2.7
49	m3	133	PRO	2.7

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Mol	Chain	Res	Type	RSRZ
1	6	193	U	2.7
8	S6	172	ALA	2.7
26	D4	6	THR	2.7
35	SM	140	ASP	2.7
11	S9	86	LEU	2.7
70	O4	109	THR	2.7
27	D5	58	ARG	2.7
30	D8	30	VAL	2.7
53	M7	165	VAL	2.7
72	O6	31	GLY	2.7
20	C8	65	GLU	2.7
3	S1	147	ALA	2.7
1	2	1065	A	2.7
1	6	710	U	2.7
26	D4	31	ASN	2.7
62	N6	112	ASP	2.7
9	S7	42	GLN	2.7
48	M1	127	PHE	2.7
1	6	496	G	2.7
1	6	712	G	2.7
10	S8	104	ILE	2.7
22	d0	103	ILE	2.7
66	O0	95	ALA	2.7
1	2	260	U	2.6
36	1	1095	U	2.6
21	C9	72	GLY	2.6
24	D2	129	VAL	2.6
2	s0	19	ALA	2.6
9	S7	52	ALA	2.6
36	1	3164	C	2.6
9	S7	89	HIS	2.6
36	1	3291	G	2.6
52	m6	180	SER	2.6
3	S1	145	LYS	2.6
16	C4	12	GLN	2.6
22	d0	116	VAL	2.6
44	l7	22	THR	2.6
72	O6	29	LYS	2.6
14	c2	71	ILE	2.6
19	c7	3	ARG	2.6
28	D6	56	ALA	2.6
36	1	1566	A	2.6

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Mol	Chain	Res	Type	RSRZ
2	S0	149	LEU	2.6
1	6	1156	C	2.6
58	n2	96	VAL	2.6
11	s9	179	ARG	2.6
72	O6	99	ARG	2.6
20	c8	32	LEU	2.6
28	D6	2	PRO	2.6
34	SR	147	HIS	2.6
6	S4	133	LYS	2.6
11	S9	138	LYS	2.6
36	1	1283	C	2.6
18	c6	64	ASP	2.6
42	l5	296	GLN	2.6
46	L9	125	ASN	2.6
52	m6	184	THR	2.6
66	O0	101	LEU	2.6
36	5	1354	G	2.6
9	s7	89	HIS	2.6
7	s5	153	GLY	2.6
40	l3	146	ARG	2.6
36	5	1026	A	2.6
38	4	80	A	2.6
9	s7	108	GLN	2.6
34	sR	116	ASP	2.6
55	M9	188	ASP	2.6
66	o0	100	ILE	2.6
28	D6	89	ARG	2.6
34	sR	186	PHE	2.6
45	L8	213	LYS	2.6
33	E1	95	HIS	2.6
36	1	1265	U	2.6
1	2	824	G	2.6
36	5	1560	G	2.6
36	5	1238	C	2.6
58	N2	12	ALA	2.6
30	D8	5	THR	2.6
58	n2	33	TYR	2.6
18	C6	143	ARG	2.6
7	S5	153	GLY	2.6
36	1	2205	U	2.6
67	O1	107	VAL	2.6
63	n7	56	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
1	6	1697	G	2.6
17	c5	7	ALA	2.6
30	d8	10	ALA	2.6
45	l8	49	TYR	2.6
2	S0	189	VAL	2.6
4	S2	111	VAL	2.6
7	S5	53	VAL	2.6
36	1	1275	C	2.6
1	2	828	U	2.6
61	N5	25	LYS	2.6
22	d0	106	ILE	2.6
29	d7	33	LEU	2.6
8	s6	169	TYR	2.6
9	S7	62	VAL	2.6
19	c7	87	GLU	2.6
1	6	732	G	2.6
1	6	738	G	2.6
32	E0	27	PRO	2.6
1	2	706	A	2.6
78	Q2	100	LYS	2.6
3	S1	153	HIS	2.6
8	S6	158	ILE	2.6
31	d9	30	LEU	2.6
49	m3	179	PHE	2.6
55	M9	78	TYR	2.6
3	S1	148	ASN	2.6
9	S7	109	VAL	2.6
34	sR	167	VAL	2.6
9	S7	126	LEU	2.6
8	S6	16	PHE	2.6
8	s6	50	PHE	2.6
66	o0	59	TYR	2.6
17	C5	51	SER	2.6
26	D4	32	ARG	2.6
14	C2	78	LEU	2.6
16	C4	80	HIS	2.6
33	E1	135	HIS	2.6
4	S2	87	GLN	2.5
34	sR	254	ALA	2.5
47	M0	112	GLN	2.5
67	O1	105	GLN	2.5
80	c0	44	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
6	S4	124	GLY	2.5
19	c7	11	ARG	2.5
26	D4	24	VAL	2.5
36	5	2507	C	2.5
58	n2	18	ASP	2.5
7	S5	140	THR	2.5
9	S7	76	LYS	2.5
31	d9	27	HIS	2.5
45	L8	245	LYS	2.5
4	S2	92	ALA	2.5
5	S3	179	GLN	2.5
26	d4	134	ALA	2.5
34	sR	172	ALA	2.5
8	S6	36	VAL	2.5
19	c7	4	VAL	2.5
36	1	2207	A	2.5
1	2	196	G	2.5
9	s7	49	ILE	2.5
30	d8	11	LYS	2.5
28	d6	94	ASN	2.5
36	1	547	G	2.5
63	N7	70	PRO	2.5
17	C5	78	THR	2.5
27	D5	37	GLN	2.5
58	n2	14	THR	2.5
78	Q2	102	GLN	2.5
4	s2	86	VAL	2.5
22	d0	26	LEU	2.5
33	E1	139	LEU	2.5
34	SR	23	LEU	2.5
34	sR	47	LEU	2.5
78	q2	72	LEU	2.5
30	D8	40	ILE	2.5
42	L5	214	ASP	2.5
36	1	1271	A	2.5
7	S5	149	VAL	2.5
9	S7	74	GLN	2.5
34	SR	80	ALA	2.5
44	L7	23	ALA	2.5
3	s1	151	LYS	2.5
22	D0	52	LYS	2.5
24	D2	85	ASP	2.5

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Mol	Chain	Res	Type	RSRZ
33	E1	88	PRO	2.5
36	5	1765	U	2.5
38	8	158	U	2.5
73	O7	84	SER	2.5
13	C1	146	ALA	2.5
30	D8	14	LYS	2.5
35	sM	50	ASN	2.5
70	o4	33	GLN	2.5
4	S2	144	TRP	2.5
33	E1	115	THR	2.5
36	1	3154	C	2.5
42	L5	293	LEU	2.5
4	s2	63	VAL	2.5
27	D5	38	HIS	2.5
60	n4	84	GLY	2.5
7	s5	58	LEU	2.5
16	C4	137	LEU	2.5
30	D8	66	LEU	2.5
2	S0	185	ARG	2.5
9	s7	92	PHE	2.5
34	sR	123	ILE	2.5
36	5	1278	A	2.5
10	S8	61	GLU	2.5
3	S1	132	ASP	2.5
5	S3	87	TYR	2.5
5	S3	216	PRO	2.5
5	s3	221	SER	2.5
26	d4	12	VAL	2.5
22	D0	98	GLN	2.5
36	5	1565	G	2.5
46	L9	45	PHE	2.5
82	p0	4	ILE	2.5
34	SR	46	LYS	2.5
36	1	2507	C	2.5
6	S4	138	TYR	2.5
14	C2	91	VAL	2.5
25	D3	102	VAL	2.5
34	sR	315	VAL	2.5
45	L8	46	LEU	2.5
49	M3	132	ALA	2.5
67	O1	79	ARG	2.5
71	o5	2	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
30	D8	27	GLN	2.5
9	S7	92	PHE	2.5
19	C7	101	ASN	2.5
3	S1	143	THR	2.5
22	D0	94	GLU	2.5
20	C8	66	LEU	2.5
50	M4	7	VAL	2.5
1	6	1256	A	2.5
19	C7	103	ASP	2.5
30	d8	27	GLN	2.5
26	D4	117	LYS	2.5
28	d6	17	HIS	2.5
70	O4	69	HIS	2.5
19	c7	104	ASN	2.5
20	C8	44	ASN	2.5
1	2	496	G	2.5
4	S2	86	VAL	2.5
11	s9	93	LEU	2.5
5	s3	151	LYS	2.5
1	2	500	C	2.5
1	6	717	C	2.5
1	6	1441	C	2.5
26	D4	98	GLU	2.5
34	SR	43	ILE	2.5
2	S0	162	CYS	2.5
30	D8	51	ASN	2.5
34	SR	4	ASN	2.5
6	S4	164	LEU	2.5
38	4	81	U	2.5
39	L2	228	GLY	2.5
1	6	729	G	2.5
3	S1	189	ILE	2.5
22	d0	22	ILE	2.5
48	M1	60	ARG	2.5
2	S0	49	ASN	2.4
14	c2	127	GLY	2.4
57	N1	126	VAL	2.4
14	c2	57	ALA	2.4
33	e1	115	THR	2.4
3	s1	205	PHE	2.4
12	C0	13	GLN	2.4
22	d0	55	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
22	d0	102	ARG	2.4
5	s3	128	GLU	2.4
14	C2	129	GLU	2.4
14	c2	61	VAL	2.4
26	D4	68	LYS	2.4
1	6	1705	C	2.4
7	S5	100	ASN	2.4
14	C2	80	ASN	2.4
27	D5	36	ALA	2.4
36	1	1272	C	2.4
34	SR	69	GLN	2.4
70	o4	110	GLU	2.4
11	S9	36	LEU	2.4
19	c7	56	HIS	2.4
61	n5	36	LYS	2.4
14	C2	119	SER	2.4
34	sR	313	TRP	2.4
2	S0	42	PRO	2.4
4	s2	85	PRO	2.4
9	S7	86	GLN	2.4
36	5	2098	C	2.4
28	D6	93	LYS	2.4
36	5	1351	U	2.4
11	s9	171	ARG	2.4
72	o6	100	HIS	2.4
34	sR	82	SER	2.4
9	s7	57	ALA	2.4
80	c0	10	LYS	2.4
11	s9	139	GLN	2.4
36	1	1581	C	2.4
74	o8	71	PRO	2.4
16	C4	114	ARG	2.4
22	d0	51	VAL	2.4
57	n1	128	LEU	2.4
61	n5	26	VAL	2.4
78	Q2	14	GLY	2.4
6	S4	134	LYS	2.4
34	SR	3	SER	2.4
45	l8	210	ALA	2.4
5	S3	213	GLU	2.4
43	l6	129	GLU	2.4
19	C7	105	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
35	SM	22	PRO	2.4
36	5	1017	C	2.4
65	N9	53	ALA	2.4
68	o2	127	ALA	2.4
28	D6	7	SER	2.4
28	D6	29	SER	2.4
3	S1	199	ASN	2.4
25	D3	42	PRO	2.4
31	D9	5	ASN	2.4
7	S5	71	ALA	2.4
53	M7	177	ALA	2.4
8	S6	5	ILE	2.4
5	s3	182	LEU	2.4
36	1	2096	A	2.4
36	1	2502	A	2.4
9	s7	54	GLY	2.4
17	c5	86	VAL	2.4
1	6	722	G	2.4
36	5	244	G	2.4
12	C0	67	THR	2.4
20	C8	34	THR	2.4
3	S1	31	ASP	2.4
6	S4	60	GLU	2.4
9	S7	80	GLU	2.4
32	E0	35	TYR	2.4
45	l8	113	ALA	2.4
68	O2	127	ALA	2.4
71	O5	120	ALA	2.4
15	C3	66	ILE	2.4
63	N7	72	ILE	2.4
1	6	484	C	2.4
26	D4	28	LEU	2.4
41	l4	2	SER	2.4
46	l9	191	LEU	2.4
78	Q2	13	LYS	2.4
6	s4	218	PHE	2.4
7	s5	164	PRO	2.4
20	C8	64	GLU	2.4
57	n1	118	GLU	2.4
66	O0	24	THR	2.4
80	c0	64	TYR	2.4
1	6	1233	G	2.4

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Mol	Chain	Res	Type	RSRZ
6	S4	173	ILE	2.4
14	C2	59	LEU	2.4
80	c0	76	LEU	2.4
7	S5	70	VAL	2.4
14	c2	65	SER	2.4
29	d7	58	SER	2.4
33	E1	130	VAL	2.4
34	sR	49	GLY	2.4
47	M0	213	PHE	2.4
2	s0	185	ARG	2.4
57	n1	116	ARG	2.4
27	d5	52	LYS	2.4
33	E1	97	LYS	2.4
34	SR	117	LYS	2.4
74	o8	34	ALA	2.4
1	6	711	U	2.4
28	D6	57	SER	2.4
34	sR	102	ARG	2.4
36	1	566	G	2.4
63	N7	94	SER	2.4
18	c6	5	PRO	2.4
61	n5	60	TYR	2.4
11	s9	148	VAL	2.3
33	e1	137	ASP	2.3
3	s1	45	LYS	2.3
9	s7	55	LYS	2.3
14	C2	90	LYS	2.3
42	L5	210	GLU	2.3
45	l8	106	LYS	2.3
72	o6	64	SER	2.3
78	q2	15	LYS	2.3
6	s4	149	TYR	2.3
34	sR	158	PRO	2.3
36	1	1573	G	2.3
55	m9	112	ALA	2.3
72	O6	32	ALA	2.3
1	2	697	C	2.3
1	2	1625	C	2.3
6	S4	170	THR	2.3
45	l8	240	ASN	2.3
72	o6	2	THR	2.3
78	q2	16	THR	2.3

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Mol	Chain	Res	Type	RSRZ
2	S0	129	ASP	2.3
20	c8	73	MET	2.3
1	6	1701	A	2.3
26	D4	101	GLU	2.3
26	d4	106	GLN	2.3
36	5	1816	A	2.3
22	d0	120	SER	2.3
25	D3	47	SER	2.3
34	SR	232	TYR	2.3
20	C8	3	LEU	2.3
34	sR	301	LEU	2.3
2	S0	50	VAL	2.3
16	C4	30	VAL	2.3
18	c6	7	VAL	2.3
1	6	1692	G	2.3
30	d8	8	THR	2.3
29	D7	75	GLU	2.3
16	c4	11	SER	2.3
45	l8	250	ALA	2.3
6	S4	172	PHE	2.3
74	o8	43	PHE	2.3
8	S6	80	ASN	2.3
6	S4	258	GLN	2.3
8	S6	151	ASP	2.3
18	C6	139	GLN	2.3
52	m6	172	ARG	2.3
2	s0	173	ILE	2.3
3	s1	73	LEU	2.3
29	d7	38	PRO	2.3
31	d9	23	VAL	2.3
60	n4	130	SER	2.3
9	S7	17	GLU	2.3
30	D8	57	MET	2.3
2	s0	41	ARG	2.3
3	s1	152	ARG	2.3
20	C8	140	THR	2.3
32	E0	55	ARG	2.3
3	S1	131	ASP	2.3
3	s1	132	ASP	2.3
27	D5	89	ILE	2.3
31	d9	16	LYS	2.3
34	sR	296	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
60	n4	129	LYS	2.3
16	C4	79	VAL	2.3
25	D3	107	PHE	2.3
35	SM	21	PRO	2.3
36	1	1233	G	2.3
36	5	1262	G	2.3
1	2	711	U	2.3
14	c2	135	MET	2.3
18	c6	140	LYS	2.3
52	m6	182	ASN	2.3
77	Q1	5	TRP	2.3
6	s4	64	ILE	2.3
22	d0	113	ASP	2.3
61	n5	24	LEU	2.3
59	N3	6	ALA	2.3
72	o6	28	TYR	2.3
82	p0	192	ASP	2.3
6	s4	25	GLY	2.3
5	s3	195	SER	2.3
4	S2	49	LYS	2.3
1	2	231	U	2.3
1	2	1056	U	2.3
1	6	652	G	2.3
36	1	2209	U	2.3
36	5	492	U	2.3
36	5	1815	U	2.3
34	sR	159	ASN	2.3
58	N2	41	ILE	2.3
1	6	713	A	2.3
2	S0	203	PHE	2.3
8	S6	41	VAL	2.3
14	C2	121	VAL	2.3
27	D5	67	ASP	2.3
35	SM	18	VAL	2.3
8	S6	66	GLY	2.3
10	s8	177	GLY	2.3
18	c6	143	ARG	2.3
25	D3	51	GLY	2.3
10	S8	37	LYS	2.3
17	c5	109	PRO	2.3
17	c5	80	MET	2.3
60	N4	91	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
36	5	439	C	2.3
58	n2	93	ILE	2.3
5	S3	205	ALA	2.3
53	M7	174	GLY	2.3
72	o6	99	ARG	2.3
19	C7	7	LYS	2.3
42	L5	279	LYS	2.3
25	D3	71	CYS	2.3
26	d4	2	SER	2.3
29	D7	37	CYS	2.3
33	e1	117	LEU	2.3
34	sR	23	LEU	2.3
61	n5	40	LEU	2.3
2	S0	38	PHE	2.3
28	D6	5	ARG	2.3
34	SR	92	TRP	2.3
1	2	1055	U	2.3
4	s2	90	THR	2.3
36	5	2537	U	2.3
36	5	3156	U	2.3
45	L8	96	LYS	2.3
49	M3	136	GLU	2.3
46	L9	13	PRO	2.3
36	5	1813	A	2.3
2	S0	19	ALA	2.3
19	c7	71	PHE	2.3
45	L8	52	TRP	2.3
48	M1	167	TYR	2.3
70	o4	61	GLN	2.3
61	n5	25	LYS	2.3
45	l8	182	GLY	2.3
1	6	227	U	2.3
1	6	238	U	2.3
30	d8	5	THR	2.3
36	1	1356	U	2.3
55	m9	176	ARG	2.3
3	S1	140	ILE	2.3
13	c1	70	ILE	2.3
25	D3	86	PHE	2.3
39	l2	251	LYS	2.3
78	Q2	15	LYS	2.3
1	2	1346	A	2.3

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Mol	Chain	Res	Type	RSRZ
1	6	1236	A	2.3
7	s5	24	VAL	2.3
18	c6	141	SER	2.3
10	S8	143	TRP	2.2
14	c2	92	ALA	2.3
45	l8	130	TYR	2.3
1	2	487	G	2.2
26	d4	71	GLY	2.2
78	q2	17	CYS	2.2
1	2	1361	U	2.2
5	S3	218	LEU	2.2
6	S4	256	ARG	2.2
11	S9	61	THR	2.2
22	D0	104	THR	2.2
25	D3	6	PRO	2.2
48	M1	96	PHE	2.2
7	S5	127	GLN	2.2
17	C5	104	GLN	2.2
26	D4	110	GLN	2.2
55	m9	22	VAL	2.2
20	C8	13	HIS	2.2
23	D1	10	GLU	2.2
19	c7	60	ARG	2.2
20	C8	17	LEU	2.2
28	D6	53	LEU	2.2
1	6	1690	G	2.2
34	SR	71	CYS	2.2
36	1	2095	G	2.2
67	O1	5	LYS	2.2
5	s3	217	ILE	2.2
14	C2	71	ILE	2.2
58	N2	100	THR	2.2
61	N5	31	THR	2.2
8	s6	36	VAL	2.2
18	c6	90	VAL	2.2
7	S5	154	ALA	2.2
14	C2	25	GLU	2.2
32	E0	2	ALA	2.2
57	N1	127	GLN	2.2
74	o8	35	GLY	2.2
4	s2	64	LYS	2.2
14	c2	78	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
30	d8	45	LYS	2.2
19	C7	41	ILE	2.2
34	sR	51	ASP	2.2
36	1	2445	A	2.2
17	c5	125	PRO	2.2
33	e1	84	VAL	2.2
10	S8	148	ALA	2.2
14	C2	43	ARG	2.2
14	C2	68	GLU	2.2
22	D0	15	GLN	2.2
35	SM	135	ALA	2.2
36	5	3155	U	2.2
49	m3	130	GLY	2.2
72	o6	68	ARG	2.2
18	c6	26	LYS	2.2
2	S0	18	LEU	2.2
19	c7	89	SER	2.2
36	1	1761	C	2.2
9	S7	90	VAL	2.2
11	S9	141	VAL	2.2
3	S1	198	GLU	2.2
3	s1	25	THR	2.2
8	s6	177	ARG	2.2
34	SR	114	ASP	2.2
14	c2	87	PRO	2.2
1	2	1795	U	2.2
16	C4	71	CYS	2.2
78	q2	76	LYS	2.2
38	4	82	U	2.2
20	C8	15	LEU	2.2
1	2	653	C	2.2
5	s3	209	ILE	2.2
14	C2	66	VAL	2.2
26	D4	8	ARG	2.2
26	D4	118	ILE	2.2
27	D5	60	VAL	2.2
30	d8	7	VAL	2.2
78	Q2	98	LYS	2.2
60	n4	134	GLN	2.2
1	2	505	A	2.2
8	S6	124	LEU	2.2
10	s8	179	CYS	2.2

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Mol	Chain	Res	Type	RSRZ
14	C2	52	LEU	2.2
36	1	3351	U	2.2
6	S4	255	ARG	2.2
11	s9	184	SER	2.2
16	c4	48	VAL	2.2
17	c5	52	LYS	2.2
22	D0	97	VAL	2.2
45	l8	251	LYS	2.2
70	O4	66	SER	2.2
1	6	497	G	2.2
6	s4	132	GLY	2.2
28	D6	61	GLU	2.2
6	S4	137	PRO	2.2
63	N7	91	ALA	2.2
3	s1	54	LEU	2.2
6	s4	131	LEU	2.2
46	L9	52	LEU	2.2
52	M6	182	ASN	2.2
1	2	681	U	2.2
58	n2	11	ILE	2.2
79	q3	3	LYS	2.2
9	s7	109	VAL	2.2
14	C2	60	VAL	2.2
45	L8	206	GLU	2.2
9	s7	63	PRO	2.2
11	S9	2	PRO	2.2
36	1	1953	G	2.2
55	M9	74	ARG	2.2
78	q2	91	PHE	2.2
14	c2	72	ILE	2.2
8	s6	118	GLU	2.2
14	C2	138	GLU	2.2
29	D7	39	GLY	2.2
36	1	3167	A	2.2
11	S9	93	LEU	2.2
57	N1	128	LEU	2.2
73	O7	86	ALA	2.2
3	S1	99	ASN	2.2
34	sR	248	ASN	2.2
42	L5	185	PHE	2.2
22	d0	86	ILE	2.2
42	l5	275	THR	2.2

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Mol	Chain	Res	Type	RSRZ
66	O0	100	ILE	2.2
70	o4	68	THR	2.2
1	6	195	G	2.2
36	1	568	G	2.2
36	5	236	G	2.2
36	5	1576	G	2.2
10	S8	22	ARG	2.2
13	c1	5	LEU	2.2
8	S6	155	ASP	2.2
36	1	1252	A	2.2
36	1	3165	A	2.2
14	C2	70	ASN	2.2
19	c7	66	VAL	2.2
39	l2	168	VAL	2.2
66	O0	90	VAL	2.2
6	S4	149	TYR	2.2
19	C7	95	ARG	2.2
41	L4	350	LYS	2.2
45	l8	111	LYS	2.2
1	2	499	U	2.2
1	2	1243	G	2.2
1	2	1288	G	2.2
1	6	1610	G	2.2
10	S8	159	GLN	2.2
36	1	545	U	2.2
36	1	3396	U	2.2
5	S3	210	GLU	2.2
19	C7	38	ILE	2.2
32	e0	47	VAL	2.2
34	sR	165	ASP	2.2
34	SR	106	HIS	2.2
72	O6	68	ARG	2.2
72	O6	98	ARG	2.2
5	S3	69	LEU	2.1
19	c7	115	LEU	2.1
10	S8	144	ALA	2.1
11	S9	167	ALA	2.1
19	C7	107	SER	2.1
1	2	650	U	2.1
1	2	727	U	2.1
3	s1	89	ASP	2.1
3	s1	150	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
8	S6	196	ARG	2.1
10	S8	152	ILE	2.1
5	S3	223	LYS	2.1
65	N9	58	LYS	2.1
25	D3	57	LEU	2.1
34	SR	181	TRP	2.1
35	SM	50	ASN	2.1
36	1	1231	A	2.1
21	C9	138	GLN	2.1
1	2	683	C	2.1
3	s1	33	LYS	2.1
25	D3	114	LYS	2.1
26	D4	5	VAL	2.1
26	D4	7	ILE	2.1
36	1	1017	C	2.1
45	l8	216	SER	2.1
55	m9	170	ARG	2.1
1	2	278	U	2.1
19	c7	24	LEU	2.1
7	S5	125	THR	2.1
14	C2	130	THR	2.1
31	d9	28	THR	2.1
34	sR	4	ASN	2.1
4	s2	208	GLU	2.1
21	C9	134	ARG	2.1
53	M7	180	LYS	2.1
31	d9	6	VAL	2.1
55	m9	152	GLU	2.1
45	L8	119	GLY	2.1
1	2	1240	U	2.1
14	c2	133	LEU	2.1
36	5	2097	U	2.1
15	c3	90	TYR	2.1
11	s9	175	ARG	2.1
34	SR	244	ALA	2.1
20	c8	14	ILE	2.1
63	n7	74	VAL	2.1
1	2	1011	G	2.1
16	c4	110	LEU	2.1
36	5	547	G	2.1
45	l8	214	LEU	2.1
60	n4	72	SER	2.1

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Mol	Chain	Res	Type	RSRZ
72	O6	97	SER	2.1
14	C2	124	LYS	2.1
20	C8	42	TYR	2.1
55	M9	111	ASP	2.1
36	5	1023	C	2.1
67	o1	79	ARG	2.1
70	O4	16	ARG	2.1
30	d8	26	THR	2.1
27	d5	44	GLN	2.1
32	e0	45	VAL	2.1
34	sR	136	ILE	2.1
12	C0	40	LEU	2.1
22	D0	101	LYS	2.1
82	p0	81	LYS	2.1
2	S0	204	TYR	2.1
34	SR	61	PHE	2.1
58	N2	107	PHE	2.1
1	2	651	G	2.1
36	1	2996	U	2.1
26	D4	129	VAL	2.1
28	d6	84	VAL	2.1
41	l4	8	VAL	2.1
45	L8	208	GLU	2.1
9	S7	78	THR	2.1
45	l8	110	THR	2.1
3	s1	53	GLY	2.1
9	S7	38	LEU	2.1
13	C1	68	GLY	2.1
78	q2	102	GLN	2.1
5	S3	45	LYS	2.1
8	S6	50	PHE	2.1
70	O4	55	SER	2.1
17	C5	76	VAL	2.1
20	C8	60	GLU	2.1
1	6	794	U	2.1
22	D0	103	ILE	2.1
5	S3	142	LEU	2.1
9	s7	53	GLY	2.1
25	D3	2	GLY	2.1
33	E1	119	ARG	2.1
35	SM	49	LYS	2.1
36	5	1953	G	2.1

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Mol	Chain	Res	Type	RSRZ
53	M7	179	GLN	2.1
20	C8	76	PRO	2.1
6	S4	251	GLU	2.1
20	C8	58	ALA	2.1
28	D6	88	SER	2.1
55	m9	109	TYR	2.1
56	n0	2	ALA	2.1
80	c0	45	ALA	2.1
3	S1	41	ARG	2.1
24	d2	117	ARG	2.1
34	sR	138	GLY	2.1
45	l8	48	ARG	2.1
57	n1	2	GLY	2.1
1	2	707	A	2.1
1	2	1058	U	2.1
1	6	1058	U	2.1
34	SR	221	MET	2.1
19	c7	28	PHE	2.1
58	N2	25	ASN	2.1
73	o7	80	THR	2.1
33	e1	140	TYR	2.1
36	5	1031	C	2.1
8	s6	187	LYS	2.1
33	E1	107	LYS	2.1
34	sR	309	VAL	2.1
58	n2	104	ARG	2.1
70	O4	65	VAL	2.1
26	d4	17	LEU	2.1
31	d9	10	HIS	2.1
34	sR	292	LEU	2.1
62	N6	111	LEU	2.1
74	o8	54	LEU	2.1
80	c0	46	LEU	2.1
1	2	241	U	2.1
12	C0	39	ASN	2.1
58	n2	95	PHE	2.1
14	C2	34	THR	2.1
74	o8	15	THR	2.1
1	2	1446	A	2.1
12	C0	66	TYR	2.1
2	S0	113	ARG	2.1
7	s5	23	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
13	C1	25	VAL	2.1
10	s8	60	ILE	2.1
1	2	498	G	2.1
20	c8	23	ASP	2.1
21	C9	120	GLY	2.1
22	d0	50	LEU	2.1
22	d0	58	LEU	2.1
29	D7	33	LEU	2.1
2	S0	46	HIS	2.1
55	M9	171	ASP	2.1
47	M0	220	GLN	2.1
1	6	727	U	2.1
1	6	1285	U	2.1
5	s3	196	ARG	2.1
9	S7	79	ARG	2.1
35	SM	46	LYS	2.1
53	M7	173	ARG	2.1
57	N1	120	LYS	2.1
71	o5	102	GLU	2.1
78	q2	13	LYS	2.1
16	C4	17	ALA	2.1
30	d8	39	THR	2.1
34	SR	180	ALA	2.1
50	M4	134	ALA	2.1
1	2	1794	A	2.1
13	c1	143	SER	2.1
19	c7	64	GLY	2.1
36	1	3347	A	2.1
36	5	3347	A	2.1
10	s8	17	LYS	2.0
17	c5	89	MET	2.1
48	M1	85	LYS	2.0
55	M9	92	GLN	2.0
61	N5	33	ARG	2.0
7	S5	209	TYR	2.0
14	C2	104	ALA	2.0
22	D0	119	ALA	2.0
26	D4	35	VAL	2.0
80	c0	66	TYR	2.0
1	2	728	U	2.0
9	S7	181	ILE	2.0
36	1	1348	U	2.0

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Mol	Chain	Res	Type	RSRZ
74	o8	70	PRO	2.0
70	o4	28	GLY	2.0
82	p0	54	GLY	2.0
31	d9	43	PHE	2.0
47	M0	113	GLN	2.0
58	N2	15	PHE	2.0
70	O4	21	LYS	2.0
2	s0	205	ARG	2.0
71	o5	114	ARG	2.0
1	2	1624	C	2.0
1	6	1248	C	2.0
15	c3	86	GLU	2.0
62	n6	127	GLU	2.0
20	C8	102	ALA	2.0
66	o0	105	ALA	2.0
3	S1	207	LEU	2.0
16	C4	77	THR	2.0
22	d0	24	ILE	2.0
48	m1	65	ILE	2.0
1	6	720	G	2.0
20	C8	59	GLY	2.0
35	SM	9	GLY	2.0
74	O8	37	PRO	2.0
35	sM	23	LYS	2.0
36	5	3396	U	2.0
47	M0	202	LYS	2.0
61	N5	32	PHE	2.0
27	d5	38	HIS	2.0
34	sR	191	ASP	2.0
1	2	219	A	2.0
1	6	579	A	2.0
7	s5	154	ALA	2.0
12	C0	64	TYR	2.0
26	D4	103	ALA	2.0
33	E1	114	VAL	2.0
6	S4	4	GLY	2.0
6	S4	203	GLY	2.0
11	s9	67	PRO	2.0
21	c9	119	LYS	2.0
36	1	1562	C	2.0
45	l8	152	LEU	2.0
34	SR	59	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
41	l4	12	THR	2.0
74	o8	32	ASN	2.0
36	1	2771	U	2.0
36	5	441	U	2.0
7	S5	66	GLN	2.0
11	S9	106	GLU	2.0
7	S5	137	ILE	2.0
7	S5	222	LYS	2.0
16	C4	81	VAL	2.0
21	c9	80	TYR	2.0
19	c7	117	LEU	2.0
20	C8	96	LYS	2.0
26	d4	4	ALA	2.0
55	M9	178	ALA	2.0
1	2	485	A	2.0
1	2	1714	A	2.0
1	6	188	A	2.0
20	C8	68	ARG	2.0
58	N2	76	LEU	2.0
72	o6	98	ARG	2.0
8	S6	173	PRO	2.0
15	C3	67	THR	2.0
36	1	1255	C	2.0
36	5	1759	C	2.0
25	D3	124	VAL	2.0
58	n2	21	SER	2.0
63	n7	6	LYS	2.0
20	C8	57	ARG	2.0
52	M6	181	ALA	2.0
63	N7	42	LEU	2.0
16	C4	113	GLY	2.0
45	l8	119	GLY	2.0
58	N2	28	PHE	2.0
78	Q2	106	PHE	2.0
28	D6	20	PRO	2.0
34	sR	30	PRO	2.0
14	c2	129	GLU	2.0
34	sR	14	GLU	2.0
11	S9	65	LYS	2.0
45	l8	92	LYS	2.0
58	N2	101	ASN	2.0
74	O8	29	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
9	S7	41	LEU	2.0
11	S9	60	LEU	2.0
20	C8	29	VAL	2.0
30	D8	55	VAL	2.0
30	d8	29	ARG	2.0
34	sR	222	LEU	2.0
45	L8	130	TYR	2.0
58	n2	56	VAL	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

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
86	MG	6	2073	1/1	0.86	0.65	57.83	53,53,53,53	0
86	MG	1	3830	1/1	0.84	0.61	49.63	29,29,29,29	0
86	MG	5	3862	1/1	0.95	0.62	49.23	54,54,54,54	0
86	MG	1	4057	1/1	0.98	0.52	47.69	39,39,39,39	0
86	MG	1	4062	1/1	0.96	0.89	46.28	37,37,37,37	0
86	MG	n0	204	1/1	0.30	1.48	43.58	42,42,42,42	0
86	MG	5	3880	1/1	0.95	0.65	39.58	54,54,54,54	0
86	MG	1	3845	1/1	0.91	0.42	37.60	59,59,59,59	0
86	MG	5	3919	1/1	0.97	0.56	36.21	33,33,33,33	0
86	MG	5	3832	1/1	0.89	0.79	34.07	54,54,54,54	0
86	MG	5	3929	1/1	0.88	0.66	33.19	40,40,40,40	0
86	MG	1	3907	1/1	0.97	0.66	32.62	28,28,28,28	0
86	MG	1	3981	1/1	0.93	0.56	31.54	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3878	1/1	0.97	0.48	31.10	31,31,31,31	0
86	MG	6	2064	1/1	0.85	1.28	31.10	75,75,75,75	0
86	MG	5	3751	1/1	0.89	0.38	30.58	44,44,44,44	0
86	MG	1	3865	1/1	0.97	0.56	29.95	39,39,39,39	0
86	MG	5	3928	1/1	0.94	0.57	29.80	24,24,24,24	0
86	MG	1	3881	1/1	0.92	0.47	29.68	31,31,31,31	0
86	MG	5	3908	1/1	0.93	0.77	29.51	41,41,41,41	0
86	MG	1	3836	1/1	0.98	0.68	28.98	30,30,30,30	0
86	MG	5	4087	1/1	0.81	0.97	28.69	50,50,50,50	0
86	MG	5	3763	1/1	0.90	0.65	28.55	28,28,28,28	0
86	MG	1	3897	1/1	0.92	1.01	28.00	57,57,57,57	0
86	MG	5	3866	1/1	0.95	0.52	27.76	22,22,22,22	0
86	MG	5	3993	1/1	0.89	0.61	27.60	39,39,39,39	0
86	MG	1	3902	1/1	0.96	0.99	27.49	51,51,51,51	0
86	MG	1	3910	1/1	0.92	0.47	26.67	17,17,17,17	0
86	MG	5	4090	1/1	0.84	0.63	25.43	37,37,37,37	0
86	MG	5	3885	1/1	0.88	0.88	25.41	49,49,49,49	0
86	MG	5	3894	1/1	0.96	0.67	25.24	36,36,36,36	0
86	MG	1	3796	1/1	0.93	0.59	25.15	31,31,31,31	0
86	MG	6	2101	1/1	0.78	0.68	24.81	53,53,53,53	0
86	MG	1	3993	1/1	0.56	0.74	24.44	49,49,49,49	0
86	MG	O2	201	1/1	0.59	0.84	24.12	48,48,48,48	0
86	MG	1	3743	1/1	0.83	0.62	24.09	47,47,47,47	0
86	MG	6	2128	1/1	0.76	0.79	23.85	81,81,81,81	0
86	MG	5	4067	1/1	0.91	0.91	23.69	39,39,39,39	0
86	MG	1	3858	1/1	0.94	0.50	23.63	45,45,45,45	0
86	MG	2	2078	1/1	0.48	0.87	22.93	77,77,77,77	0
86	MG	5	3903	1/1	0.94	0.55	22.53	37,37,37,37	0
86	MG	1	3885	1/1	0.94	0.58	22.53	30,30,30,30	0
86	MG	1	4094	1/1	0.88	0.76	21.69	68,68,68,68	0
86	MG	1	3866	1/1	0.72	0.63	21.68	47,47,47,47	0
86	MG	1	3886	1/1	0.93	0.60	21.66	41,41,41,41	0
86	MG	5	4125	1/1	0.97	0.36	21.41	35,35,35,35	0
86	MG	8	222	1/1	0.77	0.56	21.22	53,53,53,53	0
86	MG	5	3927	1/1	0.98	0.65	20.69	46,46,46,46	0
86	MG	1	3908	1/1	0.96	0.42	19.81	30,30,30,30	0
86	MG	5	3861	1/1	0.91	0.45	19.77	33,33,33,33	0
86	MG	1	3839	1/1	0.94	0.44	19.60	39,39,39,39	0
86	MG	2	2075	1/1	0.82	0.56	19.50	72,72,72,72	0
85	OHX	5	3590	7/7	0.95	0.29	18.90	124,124,124,124	0
86	MG	1	3887	1/1	0.93	0.45	18.73	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3950	1/1	0.67	0.49	18.47	38,38,38,38	0
86	MG	1	3898	1/1	0.94	1.01	18.26	53,53,53,53	0
86	MG	5	3756	1/1	0.92	0.65	18.19	46,46,46,46	0
86	MG	5	3895	1/1	0.96	0.55	17.90	36,36,36,36	0
86	MG	1	4109	1/1	0.92	0.47	17.59	36,36,36,36	0
85	OHX	1	3656	7/7	0.95	0.33	17.50	99,99,99,99	0
85	OHX	1	3727	7/7	0.95	0.39	17.44	119,119,119,119	0
86	MG	1	3896	1/1	0.94	0.71	17.44	47,47,47,47	0
86	MG	1	4037	1/1	0.61	0.64	17.35	104,104,104,104	0
85	OHX	5	3657	7/7	0.95	0.50	17.34	113,113,113,113	0
85	OHX	1	3734	7/7	0.91	0.51	17.30	136,136,136,136	0
86	MG	1	4049	1/1	0.78	0.63	17.04	41,41,41,41	0
86	MG	5	4107	1/1	0.84	0.48	17.00	40,40,40,40	0
86	MG	5	3846	1/1	0.91	0.76	16.94	38,38,38,38	0
86	MG	1	3890	1/1	0.96	0.51	16.76	26,26,26,26	0
86	MG	5	3815	1/1	0.95	0.41	16.42	29,29,29,29	0
86	MG	5	4063	1/1	0.91	0.73	16.41	37,37,37,37	0
85	OHX	1	3705	7/7	0.95	0.30	16.24	109,109,109,109	0
86	MG	1	3844	1/1	0.94	0.49	16.17	33,33,33,33	0
86	MG	5	3851	1/1	0.77	0.59	16.14	48,48,48,48	0
85	OHX	1	3710	7/7	0.96	0.48	16.10	123,123,123,123	0
86	MG	5	3833	1/1	0.78	0.63	15.74	70,70,70,70	0
86	MG	1	3946	1/1	0.84	0.35	15.59	52,52,52,52	0
85	OHX	1	3716	7/7	0.95	0.38	15.53	113,113,113,113	0
86	MG	2	2071	1/1	0.79	0.59	15.25	74,74,74,74	0
86	MG	5	4062	1/1	0.89	0.90	15.17	51,51,51,51	0
86	MG	5	3926	1/1	0.94	0.43	15.16	30,30,30,30	0
86	MG	1	3990	1/1	0.86	0.42	14.78	47,47,47,47	0
85	OHX	1	3649	7/7	0.90	0.50	14.70	118,118,118,118	0
86	MG	1	3818	1/1	0.91	0.30	14.61	38,38,38,38	0
86	MG	5	3845	1/1	0.89	0.68	14.55	44,44,44,44	0
86	MG	MG	2224	1/1	-0.19	3.24	14.53	243,243,243,243	0
86	MG	6	2091	1/1	0.98	0.51	14.31	77,77,77,77	0
86	MG	5	3972	1/1	0.79	0.37	14.28	41,41,41,41	0
85	OHX	1	3542	7/7	0.95	0.34	14.14	120,120,120,120	0
86	MG	2	2081	1/1	0.51	0.93	14.11	77,77,77,77	0
86	MG	6	2072	1/1	0.90	0.49	14.07	42,42,42,42	0
85	OHX	1	3680	7/7	0.94	0.35	14.06	114,114,114,114	0
86	MG	6	2109	1/1	0.86	0.52	13.85	65,65,65,65	0
86	MG	5	3844	1/1	0.94	0.62	13.84	38,38,38,38	0
86	MG	1	3786	1/1	0.85	0.47	13.54	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3782	1/1	0.90	0.32	13.52	41,41,41,41	0
86	MG	5	3804	1/1	0.90	0.42	13.49	39,39,39,39	0
86	MG	2	2051	1/1	0.81	0.52	13.41	80,80,80,80	0
85	OHX	4	208	7/7	0.97	0.33	13.34	99,99,99,99	0
85	OHX	5	3701	7/7	0.91	0.36	13.33	126,126,126,126	0
86	MG	2	2100	1/1	0.90	0.74	13.18	69,69,69,69	0
86	MG	2	2097	1/1	0.53	0.56	13.06	82,82,82,82	0
86	MG	N3	201	1/1	0.90	0.36	13.04	38,38,38,38	0
86	MG	2	2047	1/1	0.94	0.44	13.03	65,65,65,65	0
86	MG	4	219	1/1	0.97	0.44	12.97	38,38,38,38	0
86	MG	1	3740	1/1	0.79	0.28	12.89	41,41,41,41	0
85	OHX	1	3663	7/7	0.95	0.35	12.77	107,107,107,107	0
86	MG	2	2074	1/1	0.94	0.44	12.76	66,66,66,66	0
86	MG	5	3774	1/1	0.90	0.26	12.74	31,31,31,31	0
86	MG	5	3884	1/1	0.89	0.64	12.71	47,47,47,47	0
86	MG	n3	202	1/1	0.94	0.46	12.70	27,27,27,27	0
86	MG	1	4118	1/1	0.89	0.42	12.61	54,54,54,54	0
85	OHX	5	3710	7/7	0.92	0.42	12.60	137,137,137,137	0
85	OHX	5	3604	7/7	0.97	0.29	12.33	128,128,128,128	0
86	MG	2	2095	1/1	0.80	0.82	12.30	72,72,72,72	0
86	MG	6	2061	1/1	0.94	0.35	12.25	88,88,88,88	0
85	OHX	1	3668	7/7	0.96	0.31	12.25	148,148,148,148	0
86	MG	1	3768	1/1	0.93	0.37	12.21	37,37,37,37	0
86	MG	5	3968	1/1	0.93	0.49	12.20	42,42,42,42	0
86	MG	1	4003	1/1	0.94	0.39	12.01	34,34,34,34	0
86	MG	1	4132	1/1	0.82	0.82	11.97	53,53,53,53	0
86	MG	1	4041	1/1	0.70	0.70	11.86	45,45,45,45	0
86	MG	5	3930	1/1	0.91	0.41	11.86	32,32,32,32	0
86	MG	1	3942	1/1	0.70	0.47	11.83	38,38,38,38	0
85	OHX	5	3690	7/7	0.96	0.32	11.72	120,120,120,120	0
86	MG	1	3795	1/1	0.87	0.33	11.72	39,39,39,39	0
86	MG	5	4166	1/1	0.76	0.32	11.72	51,51,51,51	0
85	OHX	5	3696	7/7	0.91	0.39	11.72	114,114,114,114	0
86	MG	6	2054	1/1	0.88	0.58	11.71	58,58,58,58	0
85	OHX	5	3593	7/7	0.96	0.37	11.66	106,106,106,106	0
85	OHX	1	3651	7/7	0.97	0.31	11.52	119,119,119,119	0
85	OHX	5	3615	7/7	0.94	0.38	11.45	130,130,130,130	0
86	MG	5	3876	1/1	0.92	0.46	11.41	34,34,34,34	0
86	MG	1	3826	1/1	0.92	0.53	11.32	24,24,24,24	0
86	MG	6	2070	1/1	0.97	0.37	11.16	59,59,59,59	0
86	MG	6	2076	1/1	0.83	0.33	11.10	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3792	1/1	0.66	0.39	11.07	52,52,52,52	0
86	MG	5	3850	1/1	0.94	0.52	11.02	27,27,27,27	0
86	MG	6	2085	1/1	0.93	0.46	10.85	74,74,74,74	0
86	MG	5	3837	1/1	0.96	0.36	10.80	35,35,35,35	0
85	OHX	8	215	7/7	0.96	0.36	10.77	112,112,112,112	0
86	MG	5	3920	1/1	0.97	0.52	10.76	24,24,24,24	0
86	MG	5	3983	1/1	0.89	0.36	10.71	36,36,36,36	0
86	MG	1	3808	1/1	0.78	0.33	10.67	54,54,54,54	0
86	MG	5	3907	1/1	0.94	0.44	10.66	33,33,33,33	0
85	OHX	6	2034	7/7	0.94	0.39	10.61	129,129,129,129	0
85	OHX	1	3691	7/7	0.94	0.36	10.61	129,129,129,129	0
85	OHX	1	3692	7/7	0.97	0.29	10.59	125,125,125,125	0
86	MG	1	4084	1/1	0.99	0.24	10.53	35,35,35,35	0
85	OHX	5	3667	7/7	0.98	0.27	10.47	100,100,100,100	0
85	OHX	5	3664	7/7	0.92	0.40	10.47	125,125,125,125	0
86	MG	5	4137	1/1	0.92	0.38	10.40	36,36,36,36	0
86	MG	1	4105	1/1	0.76	0.52	10.37	62,62,62,62	0
86	MG	5	3788	1/1	0.95	0.32	10.36	31,31,31,31	0
86	MG	5	4108	1/1	0.96	0.38	10.35	29,29,29,29	0
85	OHX	1	3673	7/7	0.93	0.33	10.34	116,116,116,116	0
85	OHX	1	3698	7/7	0.95	0.44	10.32	148,148,148,148	0
86	MG	l3	403	1/1	0.98	0.43	10.29	27,27,27,27	0
86	MG	o1	201	1/1	0.88	0.70	10.29	51,51,51,51	0
86	MG	2	2076	1/1	0.96	0.35	10.20	75,75,75,75	0
86	MG	5	3979	1/1	0.90	0.34	10.17	36,36,36,36	0
86	MG	L4	403	1/1	0.92	0.87	10.17	39,39,39,39	0
86	MG	5	4165	1/1	0.98	0.36	10.14	33,33,33,33	0
86	MG	l3	404	1/1	0.91	0.73	10.12	49,49,49,49	0
85	OHX	5	3577	7/7	0.98	0.27	10.08	105,105,105,105	0
85	OHX	5	3700	7/7	0.93	0.30	9.98	136,136,136,136	0
85	OHX	2	2022	7/7	0.92	0.57	9.97	127,127,127,127	0
86	MG	1	3912	1/1	0.90	0.38	9.96	34,34,34,34	0
86	MG	5	3918	1/1	0.95	0.43	9.78	29,29,29,29	0
86	MG	C2	201	1/1	0.11	1.07	9.78	78,78,78,78	0
86	MG	1	3905	1/1	0.92	0.50	9.76	33,33,33,33	0
86	MG	1	3782	1/1	0.80	0.38	9.75	35,35,35,35	0
86	MG	1	3921	1/1	0.84	0.35	9.67	50,50,50,50	0
85	OHX	5	3720	7/7	0.96	0.40	9.63	128,128,128,128	0
85	OHX	1	3672	7/7	0.93	0.35	9.62	113,113,113,113	0
86	MG	5	3847	1/1	0.98	0.48	9.59	27,27,27,27	0
85	OHX	1	3609	7/7	0.96	0.36	9.58	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3883	1/1	0.87	0.35	9.56	48,48,48,48	0
86	MG	5	3915	1/1	0.95	0.45	9.53	38,38,38,38	0
86	MG	5	3800	1/1	0.96	0.26	9.33	27,27,27,27	0
85	OHX	5	3702	7/7	0.95	0.34	9.33	107,107,107,107	0
86	MG	2	2054	1/1	0.88	0.42	9.31	70,70,70,70	0
86	MG	1	3835	1/1	0.93	0.49	9.22	38,38,38,38	0
86	MG	6	2060	1/1	0.91	0.36	9.21	54,54,54,54	0
85	OHX	5	3650	7/7	0.95	0.30	9.17	117,117,117,117	0
86	MG	5	3925	1/1	0.89	0.43	9.17	26,26,26,26	0
86	MG	1	3929	1/1	0.80	0.35	9.16	42,42,42,42	0
86	MG	5	4038	1/1	0.77	0.38	9.13	37,37,37,37	0
86	MG	5	4010	1/1	0.90	0.46	9.10	40,40,40,40	0
86	MG	5	3948	1/1	0.97	0.35	9.04	50,50,50,50	0
86	MG	1	3851	1/1	0.96	0.37	9.04	48,48,48,48	0
86	MG	6	2119	1/1	0.83	0.31	9.00	76,76,76,76	0
86	MG	1	3787	1/1	0.89	0.28	8.98	35,35,35,35	0
86	MG	M1	201	1/1	0.77	0.50	8.94	74,74,74,74	0
86	MG	5	3986	1/1	0.78	0.32	8.92	35,35,35,35	0
85	OHX	2	2015	7/7	0.95	0.37	8.86	128,128,128,128	0
85	OHX	6	1990	7/7	0.91	0.31	8.80	129,129,129,129	0
86	MG	1	3913	1/1	0.95	0.42	8.77	39,39,39,39	0
85	OHX	1	3594	7/7	0.96	0.33	8.67	109,109,109,109	0
86	MG	5	4146	1/1	0.91	0.39	8.66	31,31,31,31	0
86	MG	1	4033	1/1	0.97	0.36	8.65	42,42,42,42	0
86	MG	5	4170	1/1	0.89	0.47	8.64	55,55,55,55	0
86	MG	S4	301	1/1	0.78	0.68	8.64	82,82,82,82	0
86	MG	5	4113	1/1	0.84	0.33	8.63	44,44,44,44	0
85	OHX	1	3645	7/7	0.95	0.32	8.61	119,119,119,119	0
86	MG	1	3819	1/1	0.92	0.42	8.55	33,33,33,33	0
86	MG	2	2055	1/1	0.90	0.54	8.54	77,77,77,77	0
86	MG	5	3899	1/1	0.94	0.40	8.51	33,33,33,33	0
86	MG	2	2112	1/1	0.71	0.45	8.50	80,80,80,80	0
86	MG	2	2064	1/1	0.84	0.56	8.50	83,83,83,83	0
86	MG	l3	406	1/1	0.94	0.37	8.43	44,44,44,44	0
85	OHX	5	3646	7/7	0.96	0.43	8.38	123,123,123,123	0
85	OHX	5	3728	7/7	0.94	0.27	8.27	115,115,115,115	0
85	OHX	1	3598	7/7	0.93	0.43	8.26	142,142,142,142	0
86	MG	1	4040	1/1	0.90	0.50	8.19	61,61,61,61	0
85	OHX	5	3546	7/7	0.96	0.22	8.19	122,122,122,122	0
85	OHX	M7	201	7/7	0.96	0.45	8.14	100,100,100,100	0
85	OHX	4	213	7/7	0.93	0.37	8.13	137,137,137,137	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	1	3537	7/7	0.96	0.32	8.10	108,108,108,108	0
86	MG	2	2110	1/1	0.92	0.49	8.10	91,91,91,91	0
85	OHX	1	3666	7/7	0.95	0.30	8.10	115,115,115,115	0
85	OHX	5	3630	7/7	0.97	0.35	7.95	132,132,132,132	0
86	MG	1	3977	1/1	0.86	0.33	7.90	48,48,48,48	0
86	MG	6	2099	1/1	0.87	0.35	7.90	57,57,57,57	0
86	MG	5	4066	1/1	0.92	0.32	7.88	64,64,64,64	0
86	MG	1	3882	1/1	0.90	0.40	7.82	31,31,31,31	0
86	MG	5	3922	1/1	0.99	0.44	7.79	23,23,23,23	0
85	OHX	6	2028	7/7	0.94	0.36	7.78	116,116,116,116	0
85	OHX	5	3663	7/7	0.95	0.32	7.77	99,99,99,99	0
86	MG	1	3812	1/1	0.90	0.36	7.76	40,40,40,40	0
85	OHX	5	3688	7/7	0.95	0.36	7.70	111,111,111,111	0
85	OHX	4	212	7/7	0.84	0.51	7.68	135,135,135,135	0
85	OHX	1	3564	7/7	0.94	0.33	7.65	107,107,107,107	0
86	MG	2	2089	1/1	0.83	0.52	7.58	102,102,102,102	0
86	MG	1	3864	1/1	0.91	0.46	7.57	53,53,53,53	0
86	MG	6	2081	1/1	0.96	0.46	7.55	85,85,85,85	0
86	MG	1	3834	1/1	0.90	0.45	7.52	43,43,43,43	0
85	OHX	1	3630	7/7	0.93	0.35	7.52	126,126,126,126	0
85	OHX	5	3691	7/7	0.92	0.42	7.51	110,110,110,110	0
86	MG	5	4076	1/1	0.85	0.34	7.48	36,36,36,36	0
86	MG	5	4089	1/1	0.91	0.38	7.44	67,67,67,67	0
85	OHX	1	3714	7/7	0.98	0.33	7.42	95,95,95,95	0
86	MG	5	3814	1/1	0.95	0.37	7.38	45,45,45,45	0
86	MG	6	2056	1/1	0.85	0.35	7.38	82,82,82,82	0
85	OHX	1	3721	7/7	0.92	0.39	7.37	137,137,137,137	0
85	OHX	5	3596	7/7	0.96	0.31	7.27	102,102,102,102	0
85	OHX	5	3617	7/7	0.97	0.35	7.21	102,102,102,102	0
86	MG	5	3835	1/1	0.98	0.28	7.21	37,37,37,37	0
86	MG	1	3813	1/1	0.93	0.32	7.16	33,33,33,33	0
86	MG	1	3752	1/1	0.85	0.41	7.15	41,41,41,41	0
86	MG	5	3947	1/1	0.85	0.41	7.12	38,38,38,38	0
86	MG	2	2104	1/1	0.86	0.34	7.12	68,68,68,68	0
86	MG	s1	301	1/1	0.28	1.37	7.10	88,88,88,88	0
85	OHX	5	3642	7/7	0.95	0.33	7.09	126,126,126,126	0
85	OHX	6	1987	7/7	0.88	0.39	7.03	156,156,156,156	0
85	OHX	5	3737	7/7	0.96	0.42	7.02	118,118,118,118	0
86	MG	1	3995	1/1	0.86	0.33	6.97	39,39,39,39	0
86	MG	1	3843	1/1	0.97	0.25	6.95	30,30,30,30	0
85	OHX	S9	201	7/7	0.94	0.49	6.94	127,127,127,127	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	1	3677	7/7	0.94	0.41	6.91	104,104,104,104	0
86	MG	1	3738	1/1	0.86	0.47	6.88	50,50,50,50	0
85	OHX	2	2027	7/7	0.96	0.32	6.86	117,117,117,117	0
85	OHX	1	3707	7/7	0.94	0.30	6.82	113,113,113,113	0
85	OHX	2	1991	7/7	0.97	0.29	6.82	136,136,136,136	0
86	MG	1	3744	1/1	0.89	0.28	6.80	36,36,36,36	0
85	OHX	1	3657	7/7	0.96	0.34	6.74	110,110,110,110	0
86	MG	n6	201	1/1	0.62	0.57	6.72	58,58,58,58	0
86	MG	1	4013	1/1	0.98	0.29	6.71	34,34,34,34	0
86	MG	6	2094	1/1	0.70	0.64	6.66	52,52,52,52	0
85	OHX	6	2045	7/7	0.94	0.34	6.64	154,154,154,154	0
86	MG	5	4050	1/1	0.96	0.34	6.64	52,52,52,52	0
86	MG	1	4104	1/1	0.92	0.40	6.61	46,46,46,46	0
85	OHX	1	3697	7/7	0.95	0.29	6.56	126,126,126,126	0
86	MG	6	2067	1/1	0.95	0.41	6.50	42,42,42,42	0
85	OHX	5	3682	7/7	0.97	0.42	6.45	103,103,103,103	0
86	MG	1	3825	1/1	0.90	0.30	6.41	38,38,38,38	0
86	MG	1	3758	1/1	0.94	0.35	6.39	57,57,57,57	0
85	OHX	1	3713	7/7	0.93	0.41	6.37	140,140,140,140	0
86	MG	5	3892	1/1	0.94	0.37	6.34	29,29,29,29	0
86	MG	5	3900	1/1	0.98	0.25	6.33	29,29,29,29	0
85	OHX	5	3644	7/7	0.97	0.33	6.33	90,90,90,90	0
85	OHX	3	210	7/7	0.96	0.29	6.30	107,107,107,107	0
86	MG	5	3966	1/1	0.94	0.32	6.28	38,38,38,38	0
86	MG	5	3760	1/1	0.93	0.38	6.27	56,56,56,56	0
85	OHX	5	3718	7/7	0.97	0.26	6.24	109,109,109,109	0
86	MG	1	3827	1/1	0.94	0.24	6.23	46,46,46,46	0
86	MG	s4	302	1/1	0.87	0.52	6.23	62,62,62,62	0
86	MG	5	4110	1/1	0.84	0.31	6.20	34,34,34,34	0
86	MG	5	4135	1/1	0.92	0.34	6.18	83,83,83,83	0
86	MG	6	2147	1/1	0.79	0.50	6.14	62,62,62,62	0
85	OHX	1	3593	7/7	0.97	0.25	6.14	88,88,88,88	0
86	MG	4	223	1/1	0.85	0.29	6.12	65,65,65,65	0
86	MG	1	4030	1/1	0.94	0.43	6.11	43,43,43,43	0
86	MG	1	4053	1/1	0.91	0.41	6.09	45,45,45,45	0
86	MG	5	3803	1/1	0.84	0.38	6.09	44,44,44,44	0
86	MG	2	2053	1/1	0.93	0.27	6.06	72,72,72,72	0
85	OHX	4	211	7/7	0.91	0.31	6.06	111,111,111,111	0
85	OHX	5	3738	7/7	0.88	0.27	6.06	160,160,160,160	0
85	OHX	5	3631	7/7	0.96	0.35	6.00	113,113,113,113	0
86	MG	1	3857	1/1	0.97	0.32	5.94	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	4068	1/1	0.96	0.37	5.92	34,34,34,34	0
85	OHX	6	2043	7/7	0.91	0.32	5.88	138,138,138,138	0
85	OHX	5	3707	7/7	0.93	0.36	5.87	135,135,135,135	0
85	OHX	5	3553	7/7	0.97	0.22	5.86	95,95,95,95	0
85	OHX	1	3627	7/7	0.97	0.31	5.84	108,108,108,108	0
85	OHX	1	3570	7/7	0.98	0.29	5.83	99,99,99,99	0
86	MG	6	2053	1/1	0.94	0.43	5.72	79,79,79,79	0
85	OHX	5	3639	7/7	0.97	0.30	5.72	106,106,106,106	0
85	OHX	1	3646	7/7	0.96	0.40	5.70	129,129,129,129	0
86	MG	5	3858	1/1	0.97	0.32	5.69	39,39,39,39	0
85	OHX	1	3676	7/7	0.95	0.33	5.69	128,128,128,128	0
86	MG	n9	103	1/1	0.76	0.46	5.67	40,40,40,40	0
86	MG	1	4014	1/1	0.97	0.27	5.62	32,32,32,32	0
86	MG	2	2109	1/1	0.87	0.59	5.62	73,73,73,73	0
86	MG	6	2114	1/1	0.64	0.30	5.59	78,78,78,78	0
85	OHX	6	2011	7/7	0.95	0.32	5.58	136,136,136,136	0
86	MG	1	4060	1/1	0.90	0.26	5.38	35,35,35,35	0
86	MG	5	3869	1/1	0.86	0.24	5.38	52,52,52,52	0
86	MG	1	3855	1/1	0.84	0.31	5.37	29,29,29,29	0
86	MG	5	4115	1/1	0.74	0.40	5.34	47,47,47,47	0
85	OHX	5	3660	7/7	0.91	0.40	5.27	127,127,127,127	0
86	MG	6	2132	1/1	0.41	0.29	5.26	65,65,65,65	0
86	MG	1	3901	1/1	0.92	0.26	5.21	34,34,34,34	0
86	MG	1	3871	1/1	0.96	0.28	5.20	31,31,31,31	0
85	OHX	5	3530	7/7	0.98	0.22	5.18	92,92,92,92	0
86	MG	1	3801	1/1	0.90	0.36	5.15	43,43,43,43	0
86	MG	5	3764	1/1	0.95	0.34	5.14	38,38,38,38	0
86	MG	1	3870	1/1	0.96	0.33	4.99	43,43,43,43	0
85	OHX	1	3515	7/7	0.98	0.29	4.97	86,86,86,86	0
85	OHX	2	1953	7/7	0.95	0.36	4.95	141,141,141,141	0
86	MG	5	4091	1/1	0.87	0.45	4.94	73,73,73,73	0
85	OHX	2	2036	7/7	0.95	0.37	4.90	112,112,112,112	0
85	OHX	5	3697	7/7	0.97	0.29	4.90	111,111,111,111	0
86	MG	5	4104	1/1	0.87	0.41	4.88	32,32,32,32	0
85	OHX	2	2004	7/7	0.97	0.30	4.86	126,126,126,126	0
85	OHX	5	3695	7/7	0.95	0.30	4.86	117,117,117,117	0
85	OHX	1	3544	7/7	0.97	0.22	4.85	101,101,101,101	0
86	MG	2	2060	1/1	0.69	0.67	4.83	75,75,75,75	0
85	OHX	2	1981	7/7	0.94	0.27	4.82	146,146,146,146	0
85	OHX	6	2031	7/7	0.95	0.36	4.82	106,106,106,106	0
85	OHX	2	1995	7/7	0.93	0.37	4.78	139,139,139,139	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	1	3490	7/7	0.94	0.20	4.77	94,94,94,94	0
85	OHX	1	3583	7/7	0.97	0.30	4.77	107,107,107,107	0
85	OHX	6	2015	7/7	0.97	0.29	4.77	119,119,119,119	0
86	MG	6	2092	1/1	0.86	0.33	4.76	58,58,58,58	0
85	OHX	1	3584	7/7	0.95	0.29	4.74	127,127,127,127	0
85	OHX	1	3731	7/7	0.93	0.43	4.73	144,144,144,144	0
86	MG	5	3839	1/1	0.93	0.27	4.72	47,47,47,47	0
86	MG	5	3958	1/1	0.86	0.30	4.71	56,56,56,56	0
86	MG	2	2091	1/1	0.98	0.27	4.70	74,74,74,74	0
85	OHX	1	3624	7/7	0.98	0.28	4.66	83,83,83,83	0
86	MG	1	4114	1/1	0.52	0.35	4.55	41,41,41,41	0
85	OHX	6	1981	7/7	0.97	0.26	4.51	114,114,114,114	0
85	OHX	5	3689	7/7	0.97	0.32	4.51	114,114,114,114	0
86	MG	1	4131	1/1	0.97	0.30	4.49	34,34,34,34	0
86	MG	1	4061	1/1	0.98	0.34	4.48	43,43,43,43	0
86	MG	6	2051	1/1	0.97	0.26	4.48	52,52,52,52	0
86	MG	1	4066	1/1	0.86	0.25	4.46	41,41,41,41	0
86	MG	5	3878	1/1	0.86	0.29	4.45	37,37,37,37	0
85	OHX	5	3610	7/7	0.97	0.24	4.41	103,103,103,103	0
85	OHX	6	2005	7/7	0.93	0.33	4.39	117,117,117,117	0
85	OHX	5	3496	7/7	0.96	0.28	4.39	100,100,100,100	0
86	MG	5	3969	1/1	0.50	0.26	4.38	64,64,64,64	0
85	OHX	1	3591	7/7	0.97	0.25	4.35	100,100,100,100	0
86	MG	n6	202	1/1	0.69	0.55	4.34	44,44,44,44	0
85	OHX	5	3609	7/7	0.97	0.28	4.30	99,99,99,99	0
85	OHX	2	2034	7/7	0.93	0.26	4.30	135,135,135,135	0
86	MG	5	3887	1/1	0.84	0.32	4.26	49,49,49,49	0
86	MG	5	3810	1/1	0.93	0.36	4.24	39,39,39,39	0
86	MG	6	2181	1/1	0.80	0.33	4.22	62,62,62,62	0
86	MG	5	3902	1/1	0.88	0.24	4.20	33,33,33,33	0
85	OHX	7	209	7/7	0.96	0.24	4.18	102,102,102,102	0
85	OHX	5	3740	7/7	0.96	0.36	4.16	134,134,134,134	0
85	OHX	5	3665	7/7	0.95	0.32	4.15	114,114,114,114	0
85	OHX	8	208	7/7	0.97	0.24	4.09	108,108,108,108	0
86	MG	5	3904	1/1	0.93	0.31	4.09	35,35,35,35	0
85	OHX	1	3522	7/7	0.97	0.29	4.06	98,98,98,98	0
86	MG	1	4063	1/1	0.94	0.48	4.06	33,33,33,33	0
86	MG	5	4055	1/1	0.91	0.46	4.05	47,47,47,47	0
86	MG	n0	202	1/1	0.83	0.28	4.05	36,36,36,36	0
85	OHX	8	213	7/7	0.91	0.31	3.99	124,124,124,124	0
86	MG	5	3941	1/1	0.89	0.30	3.99	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	5	3606	7/7	0.96	0.24	3.98	91,91,91,91	0
86	MG	5	4119	1/1	0.92	0.27	3.98	33,33,33,33	0
86	MG	6	2058	1/1	0.95	0.39	3.97	109,109,109,109	0
86	MG	1	3888	1/1	0.90	0.36	3.93	31,31,31,31	0
85	OHX	6	1995	7/7	0.94	0.23	3.92	162,162,162,162	0
85	OHX	7	212	7/7	0.94	0.27	3.92	138,138,138,138	0
85	OHX	6	1988	7/7	0.96	0.23	3.91	124,124,124,124	0
85	OHX	1	3558	7/7	0.96	0.21	3.89	111,111,111,111	0
86	MG	5	4075	1/1	0.95	0.30	3.88	37,37,37,37	0
85	OHX	5	3611	7/7	0.94	0.31	3.86	110,110,110,110	0
86	MG	n0	203	1/1	0.93	0.24	3.86	40,40,40,40	0
85	OHX	2	2013	7/7	0.94	0.29	3.85	136,136,136,136	0
85	OHX	4	207	7/7	0.96	0.21	3.84	117,117,117,117	0
86	MG	sM	402	1/1	0.88	0.64	3.77	44,44,44,44	0
86	MG	1	3954	1/1	0.88	0.30	3.77	58,58,58,58	0
86	MG	1	3750	1/1	0.90	0.45	3.76	39,39,39,39	0
85	OHX	5	3699	7/7	0.97	0.32	3.76	115,115,115,115	0
86	MG	1	3753	1/1	0.94	0.33	3.73	49,49,49,49	0
85	OHX	m0	303	7/7	0.95	0.32	3.72	119,119,119,119	0
85	OHX	1	3687	7/7	0.97	0.28	3.71	140,140,140,140	0
86	MG	6	2059	1/1	0.93	0.44	3.70	80,80,80,80	0
86	MG	6	2145	1/1	0.98	0.22	3.69	92,92,92,92	0
85	OHX	6	2022	7/7	0.93	0.35	3.66	116,116,116,116	0
86	MG	1	3920	1/1	0.94	0.55	3.58	70,70,70,70	0
86	MG	5	3768	1/1	0.93	0.21	3.57	43,43,43,43	0
85	OHX	6	2032	7/7	0.94	0.29	3.53	140,140,140,140	0
85	OHX	1	3723	7/7	0.92	0.41	3.53	115,115,115,115	0
86	MG	2	2093	1/1	0.89	0.59	3.52	125,125,125,125	0
86	MG	5	3906	1/1	0.97	0.36	3.51	45,45,45,45	0
85	OHX	1	3648	7/7	0.96	0.35	3.51	137,137,137,137	0
85	OHX	6	1964	7/7	0.98	0.22	3.48	110,110,110,110	0
86	MG	5	3852	1/1	0.97	0.25	3.47	32,32,32,32	0
85	OHX	1	3689	7/7	0.98	0.31	3.46	108,108,108,108	0
86	MG	m0	305	1/1	0.89	0.29	3.44	39,39,39,39	0
85	OHX	5	3637	7/7	0.97	0.33	3.40	111,111,111,111	0
85	OHX	1	3719	7/7	0.95	0.28	3.38	127,127,127,127	0
85	OHX	1	3603	7/7	0.97	0.31	3.38	103,103,103,103	0
85	OHX	5	3709	7/7	0.92	0.35	3.37	128,128,128,128	0
85	OHX	5	3583	7/7	0.97	0.20	3.37	113,113,113,113	0
86	MG	17	301	1/1	0.91	0.23	3.36	35,35,35,35	0
85	OHX	1	3652	7/7	0.94	0.30	3.33	111,111,111,111	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	m6	203	1/1	0.95	0.27	3.33	37,37,37,37	0
86	MG	5	3749	1/1	0.67	0.28	3.32	52,52,52,52	0
85	OHX	8	212	7/7	0.96	0.23	3.28	125,125,125,125	0
85	OHX	5	3658	7/7	0.96	0.36	3.25	97,97,97,97	0
85	OHX	5	3625	7/7	0.96	0.31	3.25	146,146,146,146	0
86	MG	5	4154	1/1	0.89	0.24	3.25	40,40,40,40	0
85	OHX	5	3648	7/7	0.97	0.28	3.25	102,102,102,102	0
85	OHX	5	3556	7/7	0.97	0.27	3.20	94,94,94,94	0
86	MG	1	3973	1/1	0.84	0.23	3.16	55,55,55,55	0
86	MG	6	2086	1/1	0.98	0.30	3.14	61,61,61,61	0
85	OHX	6	1971	7/7	0.94	0.36	3.13	138,138,138,138	0
86	MG	5	3830	1/1	0.95	0.30	3.12	32,32,32,32	0
85	OHX	5	3721	7/7	0.96	0.23	3.12	95,95,95,95	0
86	MG	L3	404	1/1	0.74	0.52	3.07	71,71,71,71	0
85	OHX	5	3624	7/7	0.96	0.27	3.07	119,119,119,119	0
85	OHX	1	3670	7/7	0.96	0.24	3.02	110,110,110,110	0
85	OHX	1	3510	7/7	0.97	0.20	2.99	104,104,104,104	0
85	OHX	5	3558	7/7	0.96	0.26	2.97	107,107,107,107	0
86	MG	8	219	1/1	0.91	0.23	2.97	42,42,42,42	0
85	OHX	1	3736	7/7	0.96	0.32	2.93	119,119,119,119	0
86	MG	1	4130	1/1	0.90	0.32	2.93	52,52,52,52	0
85	OHX	6	2019	7/7	0.96	0.27	2.92	139,139,139,139	0
85	OHX	6	2030	7/7	0.96	0.24	2.92	98,98,98,98	0
85	OHX	6	1966	7/7	0.97	0.21	2.92	122,122,122,122	0
85	OHX	6	2038	7/7	0.95	0.43	2.91	127,127,127,127	0
85	OHX	5	3678	7/7	0.97	0.24	2.89	110,110,110,110	0
85	OHX	1	3633	7/7	0.95	0.33	2.87	138,138,138,138	0
86	MG	1	3746	1/1	0.93	0.44	2.86	53,53,53,53	0
85	OHX	1	3527	7/7	0.98	0.23	2.84	109,109,109,109	0
85	OHX	5	3676	7/7	0.94	0.33	2.83	90,90,90,90	0
85	OHX	1	3528	7/7	0.97	0.25	2.83	102,102,102,102	0
86	MG	6	2130	1/1	0.89	0.37	2.80	82,82,82,82	0
86	MG	5	3757	1/1	0.94	0.24	2.80	29,29,29,29	0
86	MG	5	3889	1/1	0.98	0.31	2.78	33,33,33,33	0
85	OHX	2	1942	7/7	0.98	0.28	2.77	115,115,115,115	0
85	OHX	5	3527	7/7	0.97	0.23	2.76	102,102,102,102	0
85	OHX	5	3715	7/7	0.97	0.24	2.75	92,92,92,92	0
86	MG	5	3772	1/1	0.97	0.35	2.73	39,39,39,39	0
86	MG	2	2083	1/1	0.68	0.32	2.73	73,73,73,73	0
86	MG	6	2170	1/1	0.90	0.24	2.70	62,62,62,62	0
85	OHX	6	2001	7/7	0.94	0.20	2.69	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	4031	1/1	0.78	0.39	2.68	121,121,121,121	0
85	OHX	s9	201	7/7	0.90	0.47	2.65	126,126,126,126	0
86	MG	6	2164	1/1	0.58	0.27	2.64	90,90,90,90	0
85	OHX	1	3724	7/7	0.94	0.41	2.64	136,136,136,136	0
85	OHX	1	3611	7/7	0.98	0.30	2.63	113,113,113,113	0
86	MG	5	4140	1/1	0.84	0.25	2.58	34,34,34,34	0
86	MG	M8	201	1/1	0.96	0.30	2.57	43,43,43,43	0
86	MG	1	3815	1/1	0.89	0.23	2.55	54,54,54,54	0
85	OHX	1	3612	7/7	0.97	0.25	2.54	117,117,117,117	0
85	OHX	6	1979	7/7	0.94	0.31	2.53	134,134,134,134	0
85	OHX	2	1964	7/7	0.96	0.28	2.52	120,120,120,120	0
86	MG	m7	201	1/1	0.94	0.33	2.48	32,32,32,32	0
86	MG	N0	201	1/1	0.95	0.27	2.47	47,47,47,47	0
85	OHX	1	3634	7/7	0.97	0.30	2.46	112,112,112,112	0
86	MG	n8	201	1/1	0.90	0.25	2.46	49,49,49,49	0
85	OHX	7	211	7/7	0.95	0.22	2.41	104,104,104,104	0
86	MG	5	4069	1/1	0.81	0.30	2.40	49,49,49,49	0
85	OHX	o7	502	7/7	0.96	0.34	2.39	116,116,116,116	0
86	MG	5	3999	1/1	0.87	0.26	2.37	42,42,42,42	0
86	MG	2	2085	1/1	0.81	0.46	2.36	97,97,97,97	0
85	OHX	5	3668	7/7	0.97	0.22	2.35	138,138,138,138	0
86	MG	1	3914	1/1	0.90	0.22	2.35	43,43,43,43	0
85	OHX	5	3505	7/7	0.98	0.27	2.35	71,71,71,71	0
85	OHX	5	3622	7/7	0.96	0.22	2.34	132,132,132,132	0
85	OHX	6	1967	7/7	0.98	0.25	2.34	102,102,102,102	0
86	MG	5	4163	1/1	0.86	0.27	2.34	54,54,54,54	0
86	MG	5	4051	1/1	0.93	0.28	2.33	67,67,67,67	0
85	OHX	1	3635	7/7	0.97	0.25	2.31	111,111,111,111	0
85	OHX	1	3647	7/7	0.96	0.30	2.31	101,101,101,101	0
85	OHX	D9	102	7/7	0.93	0.36	2.30	140,140,140,140	0
85	OHX	5	3694	7/7	0.95	0.34	2.30	135,135,135,135	0
85	OHX	O4	201	7/7	0.94	0.51	2.28	135,135,135,135	0
86	MG	1	3961	1/1	0.86	0.20	2.27	36,36,36,36	0
86	MG	1	3814	1/1	0.96	0.22	2.27	50,50,50,50	0
86	MG	1	3983	1/1	0.84	0.31	2.24	80,80,80,80	0
86	MG	c1	202	1/1	0.89	0.34	2.24	52,52,52,52	0
86	MG	5	3769	1/1	0.97	0.40	2.19	59,59,59,59	0
85	OHX	5	3616	7/7	0.97	0.25	2.15	111,111,111,111	0
85	OHX	6	2002	7/7	0.95	0.24	2.13	125,125,125,125	0
85	OHX	6	2029	7/7	0.87	0.35	2.11	159,159,159,159	0
85	OHX	6	2049	7/7	0.95	0.34	2.09	157,157,157,157	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	2	2024	7/7	0.83	0.32	2.08	154,154,154,154	0
85	OHX	6	2039	7/7	0.90	0.30	2.08	166,166,166,166	0
86	MG	1	3872	1/1	0.97	0.24	2.08	42,42,42,42	0
85	OHX	1	3625	7/7	0.96	0.25	2.05	125,125,125,125	0
85	OHX	2	1947	7/7	0.96	0.25	2.04	111,111,111,111	0
85	OHX	6	1980	7/7	0.96	0.29	2.04	99,99,99,99	0
85	OHX	1	3671	7/7	0.96	0.25	2.03	128,128,128,128	0
86	MG	6	2126	1/1	0.80	0.23	1.99	82,82,82,82	0
86	MG	5	4027	1/1	0.92	0.24	1.99	45,45,45,45	0
85	OHX	1	3703	7/7	0.97	0.32	1.97	121,121,121,121	0
85	OHX	5	3711	7/7	0.89	0.38	1.95	134,134,134,134	0
85	OHX	8	218	7/7	0.95	0.36	1.95	123,123,123,123	0
85	OHX	1	3659	7/7	0.94	0.26	1.94	145,145,145,145	0
86	MG	1	4072	1/1	0.87	0.25	1.92	44,44,44,44	0
85	OHX	1	3535	7/7	0.96	0.23	1.90	106,106,106,106	0
86	MG	1	3994	1/1	0.98	0.19	1.89	43,43,43,43	0
86	MG	5	4072	1/1	0.74	0.30	1.88	60,60,60,60	0
85	OHX	5	3536	7/7	0.98	0.24	1.87	104,104,104,104	0
85	OHX	2	1966	7/7	0.97	0.24	1.87	124,124,124,124	0
85	OHX	M5	303	7/7	0.96	0.30	1.86	114,114,114,114	0
85	OHX	5	3499	7/7	0.98	0.24	1.84	97,97,97,97	0
85	OHX	5	3595	7/7	0.98	0.25	1.84	99,99,99,99	0
86	MG	C9	201	1/1	0.27	0.68	1.83	95,95,95,95	0
86	MG	1	3797	1/1	0.98	0.23	1.83	38,38,38,38	0
85	OHX	6	2033	7/7	0.93	0.24	1.82	156,156,156,156	0
85	OHX	2	2041	7/7	0.92	0.28	1.81	159,159,159,159	0
86	MG	2	2068	1/1	0.87	0.27	1.81	74,74,74,74	0
85	OHX	5	3651	7/7	0.96	0.26	1.80	100,100,100,100	0
85	OHX	6	2027	7/7	0.96	0.36	1.79	143,143,143,143	0
86	MG	1	3982	1/1	0.97	0.21	1.78	32,32,32,32	0
86	MG	5	3761	1/1	0.86	0.28	1.78	36,36,36,36	0
86	MG	5	3767	1/1	0.89	0.30	1.77	39,39,39,39	0
86	MG	6	2082	1/1	0.88	0.26	1.73	70,70,70,70	0
85	OHX	2	2031	7/7	0.86	0.40	1.73	147,147,147,147	0
86	MG	1	3880	1/1	0.80	0.29	1.71	36,36,36,36	0
85	OHX	2	1998	7/7	0.94	0.24	1.70	138,138,138,138	0
86	MG	2	2073	1/1	0.97	0.25	1.69	60,60,60,60	0
85	OHX	5	3569	7/7	0.98	0.22	1.67	106,106,106,106	0
85	OHX	5	3673	7/7	0.89	0.29	1.65	130,130,130,130	0
86	MG	L7	301	1/1	0.92	0.23	1.63	39,39,39,39	0
85	OHX	6	2025	7/7	0.97	0.33	1.62	107,107,107,107	0
85	OHX	1	3682	7/7	0.95	0.22	1.60	109,109,109,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3868	1/1	0.94	0.29	1.60	37,37,37,37	0
85	OHX	1	3586	7/7	0.98	0.20	1.60	98,98,98,98	0
85	OHX	1	3605	7/7	0.95	0.22	1.58	117,117,117,117	0
85	OHX	5	3533	7/7	0.95	0.22	1.57	84,84,84,84	0
86	MG	5	3963	1/1	0.96	0.20	1.56	52,52,52,52	0
86	MG	5	3971	1/1	0.96	0.20	1.54	38,38,38,38	0
85	OHX	o4	201	7/7	0.91	0.41	1.54	126,126,126,126	0
85	OHX	5	3550	7/7	0.98	0.22	1.53	94,94,94,94	0
86	MG	1	3971	1/1	0.72	0.29	1.52	46,46,46,46	0
85	OHX	6	1994	7/7	0.98	0.26	1.52	127,127,127,127	0
85	OHX	2	2039	7/7	0.90	0.48	1.51	153,153,153,153	0
86	MG	5	3784	1/1	0.95	0.18	1.50	31,31,31,31	0
85	OHX	1	3601	7/7	0.95	0.26	1.49	97,97,97,97	0
85	OHX	5	3580	7/7	0.97	0.27	1.49	119,119,119,119	0
85	OHX	5	3727	7/7	0.93	0.32	1.48	136,136,136,136	0
85	OHX	5	3560	7/7	0.97	0.21	1.47	101,101,101,101	0
85	OHX	1	3521	7/7	0.97	0.20	1.43	86,86,86,86	0
85	OHX	6	1978	7/7	0.98	0.20	1.41	98,98,98,98	0
86	MG	5	4109	1/1	0.96	0.20	1.41	31,31,31,31	0
85	OHX	2	2014	7/7	0.96	0.23	1.38	125,125,125,125	0
86	MG	D9	104	1/1	0.93	0.32	1.36	89,89,89,89	0
85	OHX	1	3567	7/7	0.96	0.27	1.36	104,104,104,104	0
85	OHX	M7	202	7/7	0.94	0.32	1.35	127,127,127,127	0
86	MG	5	4173	1/1	0.69	0.37	1.35	43,43,43,43	0
85	OHX	5	3597	7/7	0.98	0.26	1.34	107,107,107,107	0
86	MG	N8	201	1/1	0.83	0.32	1.30	48,48,48,48	0
85	OHX	5	3705	7/7	0.97	0.27	1.29	114,114,114,114	0
86	MG	8	224	1/1	0.90	0.25	1.29	61,61,61,61	0
86	MG	5	3939	1/1	0.91	0.33	1.25	41,41,41,41	0
85	OHX	1	3660	7/7	0.97	0.30	1.25	98,98,98,98	0
85	OHX	5	3706	7/7	0.98	0.26	1.24	106,106,106,106	0
86	MG	M6	202	1/1	0.94	0.25	1.23	42,42,42,42	0
86	MG	5	4003	1/1	0.85	0.23	1.21	33,33,33,33	0
85	OHX	6	1986	7/7	0.96	0.30	1.20	127,127,127,127	0
86	MG	l9	202	1/1	0.88	0.33	1.20	46,46,46,46	0
86	MG	6	2121	1/1	0.96	0.25	1.20	68,68,68,68	0
85	OHX	5	3672	7/7	0.96	0.20	1.18	143,143,143,143	0
85	OHX	l5	303	7/7	0.93	0.38	1.18	136,136,136,136	0
85	OHX	8	209	7/7	0.96	0.16	1.18	114,114,114,114	0
85	OHX	2	2029	7/7	0.92	0.36	1.18	167,167,167,167	0
86	MG	M7	205	1/1	0.97	0.26	1.17	34,34,34,34	0
86	MG	M5	301	1/1	0.92	0.23	1.16	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3770	1/1	0.95	0.17	1.16	37,37,37,37	0
86	MG	2	2103	1/1	0.93	0.30	1.16	93,93,93,93	0
86	MG	6	2135	1/1	0.95	0.22	1.15	76,76,76,76	0
85	OHX	1	3587	7/7	0.97	0.23	1.14	104,104,104,104	0
85	OHX	1	3699	7/7	0.90	0.37	1.12	147,147,147,147	0
85	OHX	5	3635	7/7	0.98	0.20	1.12	103,103,103,103	0
85	OHX	5	3621	7/7	0.97	0.26	1.12	99,99,99,99	0
85	OHX	5	3693	7/7	0.96	0.41	1.09	116,116,116,116	0
85	OHX	1	3592	7/7	0.95	0.24	1.07	144,144,144,144	0
86	MG	8	225	1/1	0.92	0.27	1.06	66,66,66,66	0
85	OHX	2	2010	7/7	0.90	0.38	1.06	134,134,134,134	0
85	OHX	5	3623	7/7	0.96	0.26	1.06	110,110,110,110	0
85	OHX	6	1970	7/7	0.96	0.21	1.03	130,130,130,130	0
85	OHX	1	3643	7/7	0.98	0.25	1.03	106,106,106,106	0
86	MG	O1	201	1/1	0.98	0.45	1.02	75,75,75,75	0
86	MG	1	3955	1/1	0.93	0.26	1.01	42,42,42,42	0
85	OHX	1	3688	7/7	0.91	0.37	1.00	146,146,146,146	0
85	OHX	2	1983	7/7	0.97	0.25	0.99	116,116,116,116	0
85	OHX	5	3561	7/7	0.98	0.23	0.99	123,123,123,123	0
85	OHX	5	3548	7/7	0.98	0.20	0.98	86,86,86,86	0
85	OHX	5	3692	7/7	0.93	0.23	0.97	148,148,148,148	0
85	OHX	2	1957	7/7	0.97	0.26	0.94	117,117,117,117	0
85	OHX	1	3576	7/7	0.98	0.30	0.94	110,110,110,110	0
85	OHX	6	2050	7/7	0.87	0.27	0.94	173,173,173,173	0
85	OHX	5	3486	7/7	0.98	0.20	0.93	99,99,99,99	0
86	MG	1	3931	1/1	0.96	0.25	0.92	49,49,49,49	0
86	MG	N9	101	1/1	0.78	0.33	0.92	38,38,38,38	0
85	OHX	2	1987	7/7	0.96	0.23	0.92	147,147,147,147	0
86	MG	6	2116	1/1	0.93	0.22	0.91	57,57,57,57	0
86	MG	5	4172	1/1	0.89	0.34	0.90	70,70,70,70	0
85	OHX	6	1926	7/7	0.99	0.20	0.89	87,87,87,87	0
85	OHX	1	3616	7/7	0.97	0.42	0.89	111,111,111,111	0
85	OHX	1	3693	7/7	0.94	0.27	0.86	123,123,123,123	0
86	MG	6	2097	1/1	0.93	0.31	0.84	76,76,76,76	0
86	MG	D1	101	1/1	0.95	0.27	0.84	109,109,109,109	0
86	MG	5	4124	1/1	0.87	0.45	0.83	86,86,86,86	0
86	MG	5	3752	1/1	0.86	0.19	0.83	46,46,46,46	0
86	MG	5	4036	1/1	0.86	0.19	0.82	41,41,41,41	0
86	MG	1	3951	1/1	0.95	0.23	0.77	40,40,40,40	0
85	OHX	6	1993	7/7	0.97	0.20	0.76	142,142,142,142	0
85	OHX	c1	201	7/7	0.93	0.26	0.75	137,137,137,137	0
85	OHX	5	3515	7/7	0.98	0.21	0.75	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	1	3575	7/7	0.95	0.26	0.74	110,110,110,110	0
85	OHX	5	3729	7/7	0.96	0.24	0.74	135,135,135,135	0
85	OHX	5	3541	7/7	0.95	0.20	0.73	114,114,114,114	0
86	MG	4	226	1/1	0.96	0.21	0.72	56,56,56,56	0
85	OHX	2	2000	7/7	0.97	0.27	0.71	140,140,140,140	0
86	MG	1	3807	1/1	0.96	0.26	0.68	59,59,59,59	0
85	OHX	5	3543	7/7	0.98	0.22	0.67	80,80,80,80	0
85	OHX	1	3546	7/7	0.98	0.19	0.66	117,117,117,117	0
85	OHX	2	1978	7/7	0.92	0.28	0.66	153,153,153,153	0
86	MG	5	3786	1/1	0.88	0.21	0.66	37,37,37,37	0
86	MG	6	2057	1/1	0.90	0.19	0.66	49,49,49,49	0
85	OHX	6	1997	7/7	0.95	0.29	0.65	142,142,142,142	0
87	ZN	d7	101	1/1	0.85	0.41	0.64	133,133,133,133	0
85	OHX	6	2013	7/7	0.97	0.23	0.64	103,103,103,103	0
86	MG	6	2125	1/1	0.90	0.29	0.62	51,51,51,51	0
86	MG	l3	405	1/1	0.69	0.26	0.62	39,39,39,39	0
85	OHX	s1	303	7/7	0.90	0.31	0.60	154,154,154,154	0
86	MG	5	3747	1/1	0.91	0.26	0.55	34,34,34,34	0
85	OHX	6	2036	7/7	0.92	0.38	0.55	128,128,128,128	0
85	OHX	5	3731	7/7	0.90	0.29	0.55	146,146,146,146	0
85	OHX	2	2003	7/7	0.91	0.32	0.55	144,144,144,144	0
85	OHX	1	3540	7/7	0.97	0.19	0.55	101,101,101,101	0
85	OHX	5	3579	7/7	0.93	0.31	0.54	122,122,122,122	0
85	OHX	4	214	7/7	0.94	0.25	0.54	130,130,130,130	0
85	OHX	3	209	7/7	0.96	0.20	0.52	132,132,132,132	0
85	OHX	d9	102	7/7	0.96	0.35	0.52	153,153,153,153	0
85	OHX	1	3580	7/7	0.97	0.20	0.50	96,96,96,96	0
85	OHX	2	1956	7/7	0.95	0.22	0.49	138,138,138,138	0
85	OHX	5	3487	7/7	0.98	0.20	0.48	89,89,89,89	0
85	OHX	5	3649	7/7	0.95	0.23	0.47	129,129,129,129	0
86	MG	N6	201	1/1	0.95	0.25	0.44	45,45,45,45	0
86	MG	5	4122	1/1	0.87	0.26	0.44	53,53,53,53	0
85	OHX	5	3495	7/7	0.97	0.16	0.44	103,103,103,103	0
85	OHX	5	3526	7/7	0.97	0.18	0.43	109,109,109,109	0
85	OHX	5	3713	7/7	0.97	0.25	0.42	107,107,107,107	0
86	MG	1	3943	1/1	0.78	0.23	0.40	73,73,73,73	0
86	MG	4	220	1/1	0.96	0.21	0.38	36,36,36,36	0
85	OHX	5	3504	7/7	0.97	0.28	0.38	98,98,98,98	0
85	OHX	1	3640	7/7	0.96	0.20	0.36	122,122,122,122	0
86	MG	M0	302	1/1	0.81	0.21	0.36	40,40,40,40	0
85	OHX	5	3559	7/7	0.96	0.20	0.35	98,98,98,98	0
86	MG	1	3934	1/1	0.88	0.20	0.35	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	6	1996	7/7	0.98	0.29	0.34	125,125,125,125	0
85	OHX	O3	201	7/7	0.97	0.26	0.34	105,105,105,105	0
85	OHX	2	2019	7/7	0.91	0.23	0.33	156,156,156,156	0
85	OHX	1	3711	7/7	0.97	0.19	0.33	100,100,100,100	0
85	OHX	5	3677	7/7	0.99	0.18	0.32	74,74,74,74	0
85	OHX	2	1961	7/7	0.96	0.20	0.32	135,135,135,135	0
85	OHX	5	3626	7/7	0.95	0.25	0.30	136,136,136,136	0
86	MG	1	4088	1/1	0.92	0.26	0.30	52,52,52,52	0
85	OHX	1	3720	7/7	0.95	0.22	0.29	96,96,96,96	0
85	OHX	5	3594	7/7	0.97	0.23	0.29	93,93,93,93	0
85	OHX	6	2003	7/7	0.97	0.21	0.28	103,103,103,103	0
85	OHX	2	1932	7/7	0.95	0.21	0.28	128,128,128,128	0
85	OHX	5	3517	7/7	0.97	0.21	0.27	90,90,90,90	0
85	OHX	1	3504	7/7	0.98	0.17	0.27	88,88,88,88	0
85	OHX	l5	302	7/7	0.94	0.32	0.25	134,134,134,134	0
86	MG	1	4067	1/1	0.90	0.32	0.25	58,58,58,58	0
85	OHX	1	3610	7/7	0.96	0.20	0.25	114,114,114,114	0
85	OHX	6	2009	7/7	0.96	0.20	0.24	103,103,103,103	0
86	MG	o4	202	1/1	0.89	0.30	0.23	61,61,61,61	0
85	OHX	6	1972	7/7	0.97	0.21	0.22	101,101,101,101	0
86	MG	5	4023	1/1	0.78	0.20	0.22	60,60,60,60	0
85	OHX	6	2016	7/7	0.95	0.29	0.22	117,117,117,117	0
85	OHX	1	3607	7/7	0.97	0.22	0.21	130,130,130,130	0
85	OHX	5	3539	7/7	0.96	0.24	0.19	117,117,117,117	0
85	OHX	1	3566	7/7	0.96	0.24	0.18	133,133,133,133	0
85	OHX	1	3509	7/7	0.97	0.20	0.18	94,94,94,94	0
85	OHX	5	3572	7/7	0.97	0.24	0.18	99,99,99,99	0
85	OHX	1	3552	7/7	0.98	0.17	0.17	104,104,104,104	0
85	OHX	l3	402	7/7	0.92	0.42	0.17	145,145,145,145	0
85	OHX	3	203	7/7	0.97	0.18	0.16	112,112,112,112	0
86	MG	2	2119	1/1	0.84	0.30	0.16	81,81,81,81	0
86	MG	2	2122	1/1	0.95	0.33	0.15	74,74,74,74	0
85	OHX	5	3686	7/7	0.97	0.28	0.15	133,133,133,133	0
85	OHX	1	3636	7/7	0.96	0.25	0.14	147,147,147,147	0
85	OHX	5	3522	7/7	0.98	0.19	0.13	93,93,93,93	0
85	OHX	L4	401	7/7	0.97	0.23	0.12	121,121,121,121	0
85	OHX	1	3555	7/7	0.94	0.23	0.08	135,135,135,135	0
85	OHX	d4	201	7/7	0.93	0.29	0.07	142,142,142,142	0
85	OHX	1	3619	7/7	0.92	0.23	0.07	146,146,146,146	0
85	OHX	1	3695	7/7	0.96	0.21	0.05	101,101,101,101	0
85	OHX	2	2007	7/7	0.97	0.20	0.05	150,150,150,150	0
85	OHX	6	1961	7/7	0.97	0.21	0.04	125,125,125,125	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	1	3623	7/7	0.94	0.22	0.03	120,120,120,120	0
85	OHX	1	3683	7/7	0.90	0.25	0.03	153,153,153,153	0
85	OHX	1	3543	7/7	0.96	0.20	0.02	97,97,97,97	0
85	OHX	2	1999	7/7	0.95	0.29	0.01	144,144,144,144	0
85	OHX	6	2000	7/7	0.94	0.24	0.01	131,131,131,131	0
85	OHX	1	3526	7/7	0.98	0.19	-0.03	96,96,96,96	0
86	MG	2	2134	1/1	0.75	0.27	-0.03	116,116,116,116	0
86	MG	6	2117	1/1	0.98	0.19	-0.05	50,50,50,50	0
85	OHX	6	2046	7/7	0.95	0.30	-0.06	142,142,142,142	0
85	OHX	1	3520	7/7	0.97	0.23	-0.08	102,102,102,102	0
85	OHX	1	3595	7/7	0.96	0.20	-0.09	159,159,159,159	0
86	MG	5	4001	1/1	0.63	0.19	-0.10	38,38,38,38	0
85	OHX	6	1991	7/7	0.96	0.28	-0.10	118,118,118,118	0
86	MG	1	3751	1/1	0.89	0.23	-0.11	59,59,59,59	0
86	MG	1	3774	1/1	0.92	0.18	-0.15	53,53,53,53	0
86	MG	5	4008	1/1	0.89	0.19	-0.15	42,42,42,42	0
86	MG	5	3997	1/1	0.85	0.20	-0.16	76,76,76,76	0
85	OHX	1	3569	7/7	0.99	0.20	-0.18	98,98,98,98	0
86	MG	2	2116	1/1	0.86	0.28	-0.18	82,82,82,82	0
86	MG	4	227	1/1	0.97	0.15	-0.20	47,47,47,47	0
85	OHX	1	3641	7/7	0.97	0.24	-0.20	135,135,135,135	0
85	OHX	4	203	7/7	0.97	0.18	-0.21	95,95,95,95	0
86	MG	1	3947	1/1	0.96	0.17	-0.21	34,34,34,34	0
85	OHX	5	3524	7/7	0.98	0.19	-0.21	91,91,91,91	0
87	ZN	q2	501	1/1	0.88	0.33	-0.21	83,83,83,83	0
85	OHX	1	3514	7/7	0.98	0.16	-0.24	83,83,83,83	0
85	OHX	S6	301	7/7	0.92	0.33	-0.25	167,167,167,167	0
86	MG	1	3804	1/1	0.93	0.14	-0.25	38,38,38,38	0
85	OHX	2	1935	7/7	0.98	0.19	-0.27	134,134,134,134	0
86	MG	5	3821	1/1	0.88	0.23	-0.27	72,72,72,72	0
85	OHX	2	1980	7/7	0.96	0.20	-0.27	141,141,141,141	0
85	OHX	6	1963	7/7	0.97	0.17	-0.27	116,116,116,116	0
85	OHX	6	2012	7/7	0.97	0.19	-0.28	139,139,139,139	0
85	OHX	4	205	7/7	0.99	0.20	-0.28	121,121,121,121	0
85	OHX	2	2005	7/7	0.94	0.22	-0.30	136,136,136,136	0
85	OHX	5	3585	7/7	0.98	0.18	-0.30	96,96,96,96	0
85	OHX	5	3531	7/7	0.97	0.16	-0.31	94,94,94,94	0
85	OHX	1	3669	7/7	0.86	0.34	-0.32	161,161,161,161	0
85	OHX	1	3589	7/7	0.97	0.21	-0.32	137,137,137,137	0
85	OHX	1	3585	7/7	0.96	0.18	-0.32	129,129,129,129	0
85	OHX	2	2002	7/7	0.93	0.24	-0.33	149,149,149,149	0
85	OHX	3	206	7/7	0.98	0.20	-0.33	112,112,112,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	5	3537	7/7	0.98	0.18	-0.34	92,92,92,92	0
85	OHX	5	3514	7/7	0.97	0.18	-0.35	102,102,102,102	0
85	OHX	5	3608	7/7	0.93	0.23	-0.35	127,127,127,127	0
86	MG	1	3917	1/1	0.95	0.17	-0.37	63,63,63,63	0
85	OHX	L3	402	7/7	0.97	0.21	-0.37	116,116,116,116	0
85	OHX	1	3572	7/7	0.98	0.18	-0.39	85,85,85,85	0
85	OHX	1	3516	7/7	0.97	0.16	-0.40	106,106,106,106	0
85	OHX	6	1960	7/7	0.97	0.20	-0.42	109,109,109,109	0
85	OHX	5	3508	7/7	0.99	0.19	-0.42	93,93,93,93	0
86	MG	l3	407	1/1	0.96	0.19	-0.43	31,31,31,31	0
85	OHX	5	3614	7/7	0.99	0.16	-0.43	81,81,81,81	0
85	OHX	6	1999	7/7	0.96	0.20	-0.43	125,125,125,125	0
87	ZN	Q2	501	1/1	0.96	0.30	-0.43	83,83,83,83	0
86	MG	1	3959	1/1	0.90	0.15	-0.45	74,74,74,74	0
86	MG	1	3764	1/1	0.93	0.16	-0.46	37,37,37,37	0
85	OHX	1	3579	7/7	0.97	0.19	-0.47	117,117,117,117	0
85	OHX	1	3737	7/7	0.95	0.14	-0.48	118,118,118,118	0
85	OHX	2	1967	7/7	0.95	0.24	-0.49	113,113,113,113	0
86	MG	6	2162	1/1	0.91	0.21	-0.49	71,71,71,71	0
85	OHX	5	3567	7/7	0.95	0.17	-0.51	119,119,119,119	0
86	MG	O7	105	1/1	0.91	0.21	-0.52	69,69,69,69	0
85	OHX	S8	301	7/7	0.93	0.23	-0.53	165,165,165,165	0
85	OHX	2	2025	7/7	0.97	0.18	-0.55	126,126,126,126	0
85	OHX	5	3402	7/7	1.00	0.15	-0.55	43,43,43,43	0
85	OHX	2	1985	7/7	0.98	0.17	-0.55	110,110,110,110	0
85	OHX	2	1963	7/7	0.96	0.20	-0.55	142,142,142,142	0
85	OHX	8	211	7/7	0.93	0.25	-0.55	120,120,120,120	0
85	OHX	6	1962	7/7	0.97	0.18	-0.56	97,97,97,97	0
85	OHX	1	3539	7/7	0.96	0.20	-0.57	119,119,119,119	0
86	MG	4	221	1/1	0.96	0.19	-0.57	41,41,41,41	0
86	MG	1	3810	1/1	0.89	0.17	-0.57	41,41,41,41	0
85	OHX	3	208	7/7	0.96	0.14	-0.57	120,120,120,120	0
85	OHX	7	208	7/7	0.96	0.14	-0.59	125,125,125,125	0
85	OHX	1	3578	7/7	0.97	0.20	-0.60	134,134,134,134	0
85	OHX	6	1949	7/7	0.96	0.17	-0.60	122,122,122,122	0
85	OHX	5	3698	7/7	0.93	0.27	-0.60	164,164,164,164	0
85	OHX	1	3549	7/7	0.92	0.18	-0.61	139,139,139,139	0
85	OHX	14	401	7/7	0.94	0.23	-0.61	127,127,127,127	0
85	OHX	6	2007	7/7	0.97	0.18	-0.62	130,130,130,130	0
85	OHX	5	3562	7/7	0.96	0.19	-0.62	130,130,130,130	0
85	OHX	2	1962	7/7	0.98	0.18	-0.63	114,114,114,114	0
85	OHX	1	3483	7/7	0.98	0.17	-0.63	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	6	1982	7/7	0.97	0.20	-0.64	137,137,137,137	0
85	OHX	4	210	7/7	0.97	0.17	-0.64	131,131,131,131	0
85	OHX	5	3467	7/7	0.99	0.16	-0.65	92,92,92,92	0
85	OHX	s8	301	7/7	0.91	0.30	-0.66	155,155,155,155	0
85	OHX	5	3475	7/7	0.97	0.12	-0.66	80,80,80,80	0
85	OHX	2	1974	7/7	0.97	0.20	-0.67	140,140,140,140	0
85	OHX	5	3401	7/7	0.99	0.17	-0.69	48,48,48,48	0
85	OHX	2	2017	7/7	0.95	0.20	-0.69	139,139,139,139	0
85	OHX	o2	201	7/7	0.99	0.16	-0.69	86,86,86,86	0
85	OHX	5	3525	7/7	0.98	0.12	-0.71	108,108,108,108	0
85	OHX	1	3492	7/7	0.99	0.16	-0.72	87,87,87,87	0
85	OHX	5	3544	7/7	0.98	0.18	-0.73	114,114,114,114	0
85	OHX	2	1988	7/7	0.98	0.14	-0.73	138,138,138,138	0
85	OHX	2	1943	7/7	0.97	0.18	-0.76	104,104,104,104	0
85	OHX	2	1971	7/7	0.94	0.17	-0.80	151,151,151,151	0
85	OHX	2	1945	7/7	0.94	0.16	-0.81	144,144,144,144	0
85	OHX	1	3536	7/7	0.99	0.14	-0.82	83,83,83,83	0
85	OHX	2	1933	7/7	0.97	0.15	-0.83	112,112,112,112	0
85	OHX	m5	501	7/7	0.99	0.21	-0.84	117,117,117,117	0
85	OHX	2	1993	7/7	0.97	0.21	-0.84	119,119,119,119	0
85	OHX	1	3475	7/7	0.96	0.12	-0.84	119,119,119,119	0
85	OHX	sR	401	7/7	0.96	0.16	-0.84	156,156,156,156	0
85	OHX	1	3694	7/7	0.96	0.18	-0.86	98,98,98,98	0
85	OHX	5	3534	7/7	0.97	0.14	-0.87	110,110,110,110	0
85	OHX	5	3587	7/7	0.97	0.17	-0.87	108,108,108,108	0
85	OHX	1	3484	7/7	0.96	0.14	-0.88	114,114,114,114	0
85	OHX	1	3446	7/7	0.97	0.18	-0.89	88,88,88,88	0
85	OHX	6	1973	7/7	0.95	0.17	-0.91	138,138,138,138	0
85	OHX	1	3590	7/7	0.96	0.16	-0.94	131,131,131,131	0
85	OHX	1	3577	7/7	0.97	0.19	-0.95	102,102,102,102	0
85	OHX	1	3508	7/7	0.97	0.16	-0.95	111,111,111,111	0
85	OHX	2	1938	7/7	0.99	0.18	-0.96	104,104,104,104	0
85	OHX	5	3412	7/7	0.99	0.16	-0.97	68,68,68,68	0
85	OHX	o3	201	7/7	0.97	0.16	-0.97	101,101,101,101	0
85	OHX	2	2043	7/7	0.91	0.23	-0.98	179,179,179,179	0
85	OHX	1	3479	7/7	0.99	0.17	-0.98	85,85,85,85	0
85	OHX	5	3489	7/7	0.99	0.14	-0.98	86,86,86,86	0
85	OHX	6	1922	7/7	0.98	0.16	-0.99	90,90,90,90	0
86	MG	L2	301	1/1	0.96	0.17	-0.99	41,41,41,41	0
85	OHX	M5	302	7/7	0.98	0.19	-0.99	107,107,107,107	0
85	OHX	1	3405	7/7	0.99	0.17	-1.02	58,58,58,58	0
85	OHX	1	3556	7/7	0.98	0.17	-1.02	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	4	230	1/1	0.96	0.16	-1.06	51,51,51,51	0
85	OHX	2	2009	7/7	0.96	0.20	-1.06	112,112,112,112	0
85	OHX	8	206	7/7	0.97	0.12	-1.07	115,115,115,115	0
85	OHX	5	3565	7/7	0.99	0.16	-1.08	97,97,97,97	0
86	MG	1	4129	1/1	0.97	0.15	-1.09	70,70,70,70	0
85	OHX	8	203	7/7	0.95	0.11	-1.10	114,114,114,114	0
85	OHX	2	1946	7/7	0.91	0.25	-1.11	170,170,170,170	0
85	OHX	2	2020	7/7	0.92	0.20	-1.11	172,172,172,172	0
85	OHX	1	3495	7/7	0.98	0.15	-1.12	71,71,71,71	0
85	OHX	6	1924	7/7	0.98	0.16	-1.12	91,91,91,91	0
85	OHX	2	1970	7/7	0.98	0.15	-1.12	107,107,107,107	0
85	OHX	m0	302	7/7	0.97	0.20	-1.13	116,116,116,116	0
85	OHX	6	1901	7/7	0.99	0.15	-1.14	61,61,61,61	0
86	MG	6	2186	1/1	0.72	0.17	-1.14	87,87,87,87	0
85	OHX	2	1901	7/7	0.99	0.16	-1.15	79,79,79,79	0
85	OHX	1	3452	7/7	0.97	0.13	-1.15	87,87,87,87	0
85	OHX	5	3481	7/7	0.98	0.12	-1.16	87,87,87,87	0
86	MG	5	3808	1/1	0.86	0.22	-1.17	114,114,114,114	0
85	OHX	1	3471	7/7	0.96	0.12	-1.18	97,97,97,97	0
85	OHX	6	1921	7/7	0.99	0.12	-1.19	86,86,86,86	0
85	OHX	7	207	7/7	0.97	0.11	-1.19	101,101,101,101	0
85	OHX	M0	301	7/7	0.94	0.16	-1.20	104,104,104,104	0
86	MG	sM	401	1/1	0.96	0.12	-1.21	44,44,44,44	0
85	OHX	Q2	502	7/7	0.98	0.14	-1.22	71,71,71,71	0
85	OHX	5	3405	7/7	0.99	0.16	-1.22	55,55,55,55	0
85	OHX	1	3532	7/7	0.98	0.18	-1.22	99,99,99,99	0
85	OHX	O7	102	7/7	0.98	0.09	-1.24	94,94,94,94	0
85	OHX	5	3739	7/7	0.97	0.16	-1.25	97,97,97,97	0
86	MG	5	4094	1/1	0.94	0.15	-1.25	35,35,35,35	0
85	OHX	5	3484	7/7	0.97	0.15	-1.27	91,91,91,91	0
86	MG	2	2080	1/1	0.95	0.15	-1.29	78,78,78,78	0
85	OHX	5	3703	7/7	0.97	0.16	-1.31	83,83,83,83	0
85	OHX	1	3466	7/7	0.98	0.14	-1.31	95,95,95,95	0
85	OHX	O7	103	7/7	0.96	0.16	-1.31	92,92,92,92	0
85	OHX	5	3483	7/7	0.97	0.13	-1.32	103,103,103,103	0
85	OHX	1	3548	7/7	0.97	0.16	-1.33	117,117,117,117	0
85	OHX	1	3445	7/7	0.98	0.12	-1.33	76,76,76,76	0
85	OHX	5	3602	7/7	0.95	0.15	-1.34	123,123,123,123	0
86	MG	6	2171	1/1	0.75	0.19	-1.35	92,92,92,92	0
85	OHX	1	3494	7/7	0.97	0.16	-1.35	93,93,93,93	0
85	OHX	19	201	7/7	0.97	0.17	-1.35	103,103,103,103	0
85	OHX	6	1989	7/7	0.95	0.18	-1.35	137,137,137,137	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	4128	1/1	0.91	0.15	-1.36	41,41,41,41	0
85	OHX	1	3485	7/7	0.98	0.11	-1.36	99,99,99,99	0
85	OHX	1	3487	7/7	0.95	0.13	-1.37	118,118,118,118	0
85	OHX	1	3426	7/7	0.98	0.13	-1.38	82,82,82,82	0
85	OHX	5	3480	7/7	0.97	0.16	-1.38	84,84,84,84	0
85	OHX	C8	201	7/7	0.97	0.09	-1.39	112,112,112,112	0
86	MG	6	2136	1/1	0.98	0.12	-1.39	76,76,76,76	0
85	OHX	5	3477	7/7	0.97	0.12	-1.40	90,90,90,90	0
85	OHX	1	3401	7/7	1.00	0.14	-1.42	44,44,44,44	0
86	MG	1	3756	1/1	0.89	0.13	-1.42	37,37,37,37	0
86	MG	p0	401	1/1	0.88	0.15	-1.44	89,89,89,89	0
85	OHX	5	3488	7/7	0.99	0.13	-1.45	83,83,83,83	0
85	OHX	c5	201	7/7	0.94	0.27	-1.45	151,151,151,151	0
85	OHX	5	3540	7/7	0.96	0.14	-1.46	123,123,123,123	0
85	OHX	5	3618	7/7	0.98	0.17	-1.46	103,103,103,103	0
85	OHX	5	3502	7/7	0.96	0.13	-1.47	112,112,112,112	0
85	OHX	1	3529	7/7	0.97	0.17	-1.47	133,133,133,133	0
85	OHX	1	3443	7/7	0.99	0.12	-1.47	81,81,81,81	0
87	ZN	d9	101	1/1	0.95	0.08	-1.48	97,97,97,97	0
85	OHX	6	1983	7/7	0.97	0.13	-1.48	136,136,136,136	0
85	OHX	1	3404	7/7	0.99	0.13	-1.49	55,55,55,55	0
86	MG	2	2135	1/1	0.91	0.11	-1.51	101,101,101,101	0
85	OHX	1	3513	7/7	0.98	0.17	-1.52	101,101,101,101	0
85	OHX	2	1950	7/7	0.99	0.17	-1.54	115,115,115,115	0
85	OHX	1	3491	7/7	0.98	0.15	-1.54	95,95,95,95	0
87	ZN	e1	501	1/1	0.94	0.16	-1.54	173,173,173,173	0
85	OHX	5	3429	7/7	0.99	0.13	-1.55	70,70,70,70	0
85	OHX	1	3642	7/7	0.94	0.22	-1.55	208,208,208,208	0
85	OHX	5	3518	7/7	0.98	0.15	-1.56	103,103,103,103	0
86	MG	2	2062	1/1	0.93	0.19	-1.57	74,74,74,74	0
86	MG	1	4044	1/1	0.98	0.17	-1.57	77,77,77,77	0
85	OHX	6	1902	7/7	0.99	0.19	-1.58	79,79,79,79	0
85	OHX	6	1992	7/7	0.98	0.17	-1.59	117,117,117,117	0
85	OHX	2	1976	7/7	0.94	0.14	-1.59	148,148,148,148	0
85	OHX	6	1943	7/7	0.97	0.14	-1.60	125,125,125,125	0
85	OHX	6	1951	7/7	0.94	0.18	-1.60	161,161,161,161	0
85	OHX	1	3620	7/7	0.97	0.15	-1.61	124,124,124,124	0
85	OHX	5	3528	7/7	0.98	0.12	-1.62	117,117,117,117	0
85	OHX	2	1949	7/7	0.97	0.18	-1.63	127,127,127,127	0
85	OHX	4	201	7/7	0.99	0.13	-1.63	57,57,57,57	0
85	OHX	2	1973	7/7	0.96	0.16	-1.64	146,146,146,146	0
85	OHX	1	3690	7/7	0.97	0.16	-1.65	125,125,125,125	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	1	3581	7/7	0.99	0.16	-1.66	101,101,101,101	0
85	OHX	2	1914	7/7	0.99	0.09	-1.66	97,97,97,97	0
85	OHX	6	1965	7/7	0.97	0.18	-1.67	125,125,125,125	0
85	OHX	1	3531	7/7	0.98	0.12	-1.67	129,129,129,129	0
85	OHX	1	3409	7/7	0.99	0.12	-1.68	64,64,64,64	0
86	MG	5	3753	1/1	0.96	0.12	-1.69	35,35,35,35	0
85	OHX	1	3530	7/7	0.97	0.15	-1.69	124,124,124,124	0
85	OHX	5	3471	7/7	0.98	0.10	-1.69	91,91,91,91	0
85	OHX	5	3578	7/7	0.98	0.14	-1.70	109,109,109,109	0
85	OHX	n3	201	7/7	0.98	0.10	-1.70	85,85,85,85	0
85	OHX	1	3407	7/7	0.99	0.14	-1.70	64,64,64,64	0
85	OHX	5	3509	7/7	0.96	0.14	-1.72	107,107,107,107	0
85	OHX	6	1952	7/7	0.97	0.13	-1.72	114,114,114,114	0
85	OHX	SR	401	7/7	0.94	0.15	-1.72	168,168,168,168	0
85	OHX	5	3419	7/7	0.98	0.12	-1.75	61,61,61,61	0
85	OHX	2	1909	7/7	0.98	0.16	-1.80	119,119,119,119	0
85	OHX	l5	301	7/7	0.96	0.16	-1.82	127,127,127,127	0
85	OHX	2	1965	7/7	0.96	0.17	-1.82	126,126,126,126	0
85	OHX	1	3573	7/7	0.97	0.17	-1.84	110,110,110,110	0
85	OHX	C5	201	7/7	0.96	0.20	-1.84	153,153,153,153	0
85	OHX	1	3538	7/7	0.97	0.16	-1.85	95,95,95,95	0
85	OHX	5	3424	7/7	0.98	0.10	-1.86	66,66,66,66	0
87	ZN	Q0	201	1/1	0.99	0.09	-1.86	49,49,49,49	0
85	OHX	8	204	7/7	0.99	0.10	-1.86	97,97,97,97	0
85	OHX	5	3634	7/7	0.97	0.14	-1.87	139,139,139,139	0
85	OHX	8	205	7/7	0.97	0.16	-1.88	101,101,101,101	0
85	OHX	6	1944	7/7	0.98	0.14	-1.88	108,108,108,108	0
85	OHX	1	3456	7/7	0.95	0.13	-1.90	112,112,112,112	0
85	OHX	q2	502	7/7	0.99	0.09	-1.90	73,73,73,73	0
85	OHX	5	3408	7/7	0.99	0.14	-1.93	59,59,59,59	0
85	OHX	m0	301	7/7	0.98	0.09	-1.94	118,118,118,118	0
85	OHX	6	1918	7/7	0.97	0.12	-1.94	95,95,95,95	0
85	OHX	2	1936	7/7	0.97	0.13	-1.94	107,107,107,107	0
85	OHX	1	3460	7/7	0.98	0.09	-1.95	88,88,88,88	0
85	OHX	1	3497	7/7	0.99	0.14	-1.97	102,102,102,102	0
85	OHX	5	3516	7/7	0.97	0.08	-1.99	141,141,141,141	0
85	OHX	2	1910	7/7	0.99	0.10	-2.01	100,100,100,100	0
85	OHX	N9	102	7/7	0.99	0.11	-2.01	63,63,63,63	0
85	OHX	5	3535	7/7	0.95	0.14	-2.02	132,132,132,132	0
85	OHX	1	3432	7/7	0.98	0.14	-2.03	77,77,77,77	0
85	OHX	5	3435	7/7	0.98	0.12	-2.04	90,90,90,90	0
85	OHX	1	3482	7/7	0.96	0.10	-2.04	114,114,114,114	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	1	3403	7/7	0.99	0.10	-2.06	45,45,45,45	0
85	OHX	1	3459	7/7	0.98	0.10	-2.06	79,79,79,79	0
85	OHX	5	3410	7/7	0.99	0.12	-2.07	59,59,59,59	0
85	OHX	4	202	7/7	0.99	0.11	-2.07	77,77,77,77	0
85	OHX	5	3500	7/7	0.97	0.11	-2.09	117,117,117,117	0
85	OHX	5	3605	7/7	0.95	0.16	-2.10	141,141,141,141	0
86	MG	5	4046	1/1	0.98	0.13	-2.10	33,33,33,33	0
85	OHX	2	1917	7/7	0.99	0.10	-2.11	95,95,95,95	0
85	OHX	5	3497	7/7	0.99	0.14	-2.13	116,116,116,116	0
85	OHX	5	3547	7/7	0.97	0.15	-2.13	101,101,101,101	0
85	OHX	5	3459	7/7	0.98	0.11	-2.14	80,80,80,80	0
85	OHX	1	3517	7/7	0.97	0.13	-2.15	95,95,95,95	0
85	OHX	n9	101	7/7	0.99	0.12	-2.16	64,64,64,64	0
85	OHX	7	203	7/7	0.97	0.14	-2.16	95,95,95,95	0
85	OHX	5	3490	7/7	0.98	0.13	-2.17	91,91,91,91	0
85	OHX	3	205	7/7	0.98	0.15	-2.19	90,90,90,90	0
85	OHX	2	1955	7/7	0.97	0.14	-2.20	119,119,119,119	0
85	OHX	2	1915	7/7	0.96	0.11	-2.20	142,142,142,142	0
85	OHX	1	3423	7/7	0.99	0.17	-2.20	71,71,71,71	0
85	OHX	5	3557	7/7	0.98	0.15	-2.21	91,91,91,91	0
85	OHX	1	3525	7/7	0.98	0.11	-2.23	116,116,116,116	0
86	MG	2	2094	1/1	0.94	0.16	-2.23	75,75,75,75	0
85	OHX	s1	302	7/7	0.99	0.12	-2.25	81,81,81,81	0
85	OHX	2	1975	7/7	0.95	0.11	-2.26	161,161,161,161	0
87	ZN	d6	500	1/1	0.92	0.08	-2.26	71,71,71,71	0
86	MG	1	4056	1/1	0.98	0.08	-2.30	38,38,38,38	0
85	OHX	5	3520	7/7	0.93	0.13	-2.30	131,131,131,131	0
85	OHX	1	3419	7/7	0.99	0.12	-2.32	70,70,70,70	0
85	OHX	2	1921	7/7	0.97	0.12	-2.32	112,112,112,112	0
85	OHX	1	3418	7/7	0.99	0.12	-2.33	72,72,72,72	0
85	OHX	5	3457	7/7	0.98	0.15	-2.33	88,88,88,88	0
85	OHX	6	1977	7/7	0.96	0.14	-2.33	138,138,138,138	0
85	OHX	5	3592	7/7	0.98	0.17	-2.34	96,96,96,96	0
85	OHX	2	1911	7/7	0.97	0.13	-2.34	116,116,116,116	0
85	OHX	6	1928	7/7	0.97	0.10	-2.36	136,136,136,136	0
85	OHX	5	3474	7/7	0.97	0.15	-2.36	80,80,80,80	0
85	OHX	5	3493	7/7	0.97	0.13	-2.37	99,99,99,99	0
85	OHX	6	1912	7/7	0.98	0.11	-2.37	87,87,87,87	0
85	OHX	1	3519	7/7	0.97	0.12	-2.37	120,120,120,120	0
85	OHX	1	3499	7/7	0.97	0.11	-2.40	119,119,119,119	0
85	OHX	1	3534	7/7	0.97	0.10	-2.41	146,146,146,146	0
85	OHX	2	1940	7/7	0.97	0.16	-2.41	120,120,120,120	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	1	3518	7/7	0.98	0.14	-2.41	76,76,76,76	0
87	ZN	Q3	501	1/1	0.97	0.06	-2.43	68,68,68,68	0
85	OHX	6	1954	7/7	0.95	0.11	-2.45	164,164,164,164	0
85	OHX	1	3502	7/7	0.98	0.14	-2.46	98,98,98,98	0
85	OHX	5	3439	7/7	0.99	0.10	-2.50	69,69,69,69	0
86	MG	5	3942	1/1	0.95	0.13	-2.51	31,31,31,31	0
85	OHX	6	1910	7/7	0.99	0.11	-2.51	73,73,73,73	0
85	OHX	2	1907	7/7	0.98	0.09	-2.51	101,101,101,101	0
85	OHX	6	1909	7/7	0.98	0.10	-2.52	96,96,96,96	0
85	OHX	1	3402	7/7	0.99	0.10	-2.53	53,53,53,53	0
85	OHX	1	3473	7/7	0.97	0.11	-2.53	89,89,89,89	0
85	OHX	2	1903	7/7	0.97	0.16	-2.53	89,89,89,89	0
85	OHX	6	1946	7/7	0.97	0.11	-2.55	113,113,113,113	0
87	ZN	E1	501	1/1	0.86	0.05	-2.56	134,134,134,134	0
85	OHX	6	1953	7/7	0.93	0.14	-2.57	155,155,155,155	0
85	OHX	5	3445	7/7	0.99	0.08	-2.58	79,79,79,79	0
85	OHX	7	201	7/7	0.99	0.09	-2.59	80,80,80,80	0
85	OHX	6	1955	7/7	0.97	0.07	-2.61	167,167,167,167	0
85	OHX	5	3403	7/7	0.99	0.11	-2.61	42,42,42,42	0
86	MG	1	3765	1/1	0.97	0.11	-2.61	51,51,51,51	0
85	OHX	1	3416	7/7	0.98	0.13	-2.61	71,71,71,71	0
85	OHX	5	3420	7/7	0.99	0.10	-2.62	62,62,62,62	0
87	ZN	D9	101	1/1	0.98	0.09	-2.64	89,89,89,89	0
85	OHX	5	3512	7/7	0.98	0.13	-2.65	90,90,90,90	0
85	OHX	5	3482	7/7	0.98	0.10	-2.65	93,93,93,93	0
85	OHX	1	3448	7/7	0.99	0.07	-2.65	86,86,86,86	0
85	OHX	2	1918	7/7	0.98	0.09	-2.66	99,99,99,99	0
85	OHX	5	3440	7/7	0.99	0.11	-2.66	83,83,83,83	0
85	OHX	5	3449	7/7	0.98	0.10	-2.66	88,88,88,88	0
87	ZN	O7	101	1/1	0.98	0.04	-2.70	45,45,45,45	0
85	OHX	5	3510	7/7	0.98	0.09	-2.72	122,122,122,122	0
85	OHX	5	3409	7/7	0.99	0.13	-2.72	58,58,58,58	0
85	OHX	1	3469	7/7	0.97	0.09	-2.75	100,100,100,100	0
85	OHX	6	1908	7/7	0.99	0.14	-2.77	80,80,80,80	0
85	OHX	5	3416	7/7	0.99	0.11	-2.77	65,65,65,65	0
86	MG	5	3762	1/1	0.95	0.12	-2.77	34,34,34,34	0
85	OHX	1	3427	7/7	0.98	0.11	-2.78	70,70,70,70	0
85	OHX	7	205	7/7	0.98	0.14	-2.79	93,93,93,93	0
85	OHX	6	1929	7/7	0.99	0.11	-2.80	81,81,81,81	0
85	OHX	8	202	7/7	0.99	0.08	-2.81	74,74,74,74	0
85	OHX	2	1941	7/7	0.98	0.10	-2.81	135,135,135,135	0
85	OHX	5	3415	7/7	0.99	0.09	-2.82	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
85	OHX	5	3485	7/7	0.99	0.09	-2.85	75,75,75,75	0
85	OHX	1	3412	7/7	0.99	0.11	-2.86	67,67,67,67	0
85	OHX	5	3501	7/7	0.98	0.11	-2.88	106,106,106,106	0
85	OHX	1	3732	7/7	0.95	0.10	-2.91	158,158,158,158	0
85	OHX	1	3421	7/7	1.00	0.09	-2.91	74,74,74,74	0
85	OHX	6	1906	7/7	0.99	0.12	-2.92	71,71,71,71	0
85	OHX	5	3433	7/7	0.99	0.10	-2.93	64,64,64,64	0
87	ZN	q0	201	1/1	0.98	0.07	-2.93	37,37,37,37	0
85	OHX	1	3464	7/7	0.96	0.12	-2.95	102,102,102,102	0
85	OHX	2	2035	7/7	0.84	0.19	-3.01	223,223,223,223	0
85	OHX	1	3411	7/7	0.99	0.12	-3.01	59,59,59,59	0
85	OHX	5	3581	7/7	0.97	0.08	-3.02	150,150,150,150	0
85	OHX	7	206	7/7	0.98	0.11	-3.05	100,100,100,100	0
85	OHX	1	3574	7/7	0.97	0.13	-3.09	137,137,137,137	0
85	OHX	5	3426	7/7	0.99	0.12	-3.11	70,70,70,70	0
85	OHX	5	3468	7/7	0.98	0.09	-3.13	99,99,99,99	0
85	OHX	1	3461	7/7	0.98	0.11	-3.14	80,80,80,80	0
85	OHX	1	3414	7/7	0.99	0.11	-3.15	65,65,65,65	0
85	OHX	5	3450	7/7	0.99	0.05	-3.18	91,91,91,91	0
85	OHX	6	1932	7/7	0.98	0.10	-3.19	90,90,90,90	0
85	OHX	2	1925	7/7	0.98	0.14	-3.19	133,133,133,133	0
85	OHX	5	3460	7/7	0.97	0.10	-3.20	89,89,89,89	0
85	OHX	7	204	7/7	0.96	0.14	-3.24	86,86,86,86	0
85	OHX	5	3545	7/7	0.97	0.07	-3.26	148,148,148,148	0
85	OHX	5	3404	7/7	0.99	0.09	-3.26	51,51,51,51	0
85	OHX	1	3465	7/7	0.98	0.10	-3.27	98,98,98,98	0
85	OHX	2	1905	7/7	0.99	0.09	-3.28	86,86,86,86	0
85	OHX	5	3417	7/7	0.99	0.10	-3.30	57,57,57,57	0
85	OHX	5	3473	7/7	0.98	0.13	-3.31	85,85,85,85	0
87	ZN	D6	500	1/1	0.95	0.04	-3.35	93,93,93,93	0
85	OHX	5	3503	7/7	0.99	0.09	-3.35	102,102,102,102	0
85	OHX	1	3500	7/7	0.97	0.15	-3.37	85,85,85,85	0
85	OHX	1	3433	7/7	0.98	0.12	-3.37	77,77,77,77	0
85	OHX	1	3406	7/7	0.99	0.10	-3.37	54,54,54,54	0
85	OHX	3	204	7/7	0.98	0.10	-3.39	99,99,99,99	0
85	OHX	6	1907	7/7	0.99	0.11	-3.41	82,82,82,82	0
85	OHX	5	3452	7/7	0.98	0.11	-3.43	84,84,84,84	0
87	ZN	o7	501	1/1	0.98	0.05	-3.44	46,46,46,46	0
85	OHX	6	1903	7/7	0.99	0.10	-3.45	70,70,70,70	0
85	OHX	5	3532	7/7	0.98	0.13	-3.46	79,79,79,79	0
85	OHX	5	3584	7/7	0.97	0.12	-3.46	116,116,116,116	0
85	OHX	5	3464	7/7	0.99	0.07	-3.46	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	I3	401	7/7	0.98	0.12	-3.48	95,95,95,95	0
85	OHX	5	3422	7/7	0.99	0.10	-3.49	70,70,70,70	0
85	OHX	5	3442	7/7	0.98	0.10	-3.52	82,82,82,82	0
85	OHX	1	3486	7/7	0.95	0.12	-3.52	117,117,117,117	0
85	OHX	5	3443	7/7	0.98	0.09	-3.52	81,81,81,81	0
85	OHX	1	3470	7/7	0.99	0.07	-3.53	77,77,77,77	0
85	OHX	1	3478	7/7	0.98	0.12	-3.54	96,96,96,96	0
85	OHX	5	3444	7/7	0.98	0.12	-3.54	95,95,95,95	0
85	OHX	6	1945	7/7	0.96	0.14	-3.56	110,110,110,110	0
85	OHX	5	3494	7/7	0.98	0.12	-3.59	86,86,86,86	0
85	OHX	5	3507	7/7	0.98	0.11	-3.60	87,87,87,87	0
86	MG	M7	208	1/1	0.97	0.06	-3.60	50,50,50,50	0
85	OHX	5	3414	7/7	0.99	0.11	-3.62	61,61,61,61	0
85	OHX	2	1923	7/7	0.98	0.10	-3.63	101,101,101,101	0
85	OHX	6	1920	7/7	0.97	0.11	-3.67	124,124,124,124	0
85	OHX	5	3554	7/7	0.98	0.10	-3.69	130,130,130,130	0
85	OHX	1	3415	7/7	0.99	0.07	-3.69	68,68,68,68	0
85	OHX	2	1928	7/7	0.98	0.13	-3.71	114,114,114,114	0
85	OHX	1	3501	7/7	0.99	0.10	-3.73	70,70,70,70	0
85	OHX	2	1908	7/7	0.98	0.12	-3.77	108,108,108,108	0
85	OHX	1	3429	7/7	0.99	0.09	-3.80	72,72,72,72	0
85	OHX	5	3511	7/7	0.99	0.10	-3.81	63,63,63,63	0
85	OHX	6	1956	7/7	0.98	0.13	-3.83	112,112,112,112	0
85	OHX	5	3582	7/7	0.98	0.14	-3.84	85,85,85,85	0
85	OHX	2	1916	7/7	0.98	0.10	-3.84	107,107,107,107	0
85	OHX	1	3424	7/7	0.99	0.11	-3.85	76,76,76,76	0
85	OHX	8	201	7/7	0.99	0.12	-3.86	57,57,57,57	0
85	OHX	1	3410	7/7	0.99	0.09	-3.87	63,63,63,63	0
85	OHX	2	1937	7/7	0.97	0.11	-3.88	123,123,123,123	0
85	OHX	5	3438	7/7	0.99	0.09	-3.91	76,76,76,76	0
85	OHX	1	3422	7/7	0.99	0.10	-3.97	73,73,73,73	0
85	OHX	6	1947	7/7	0.98	0.10	-4.00	102,102,102,102	0
85	OHX	1	3430	7/7	0.99	0.09	-4.02	75,75,75,75	0
85	OHX	6	1917	7/7	0.98	0.10	-4.03	86,86,86,86	0
85	OHX	1	3481	7/7	0.99	0.09	-4.03	89,89,89,89	0
85	OHX	5	3430	7/7	0.99	0.07	-4.04	77,77,77,77	0
85	OHX	6	1939	7/7	0.97	0.09	-4.04	135,135,135,135	0
85	OHX	5	3453	7/7	0.98	0.11	-4.06	111,111,111,111	0
85	OHX	6	1923	7/7	0.98	0.10	-4.07	99,99,99,99	0
85	OHX	2	1922	7/7	0.98	0.09	-4.08	99,99,99,99	0
85	OHX	5	3413	7/7	0.99	0.09	-4.08	57,57,57,57	0
85	OHX	N1	201	7/7	0.99	0.09	-4.12	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	2	1919	7/7	0.99	0.07	-4.12	94,94,94,94	0
85	OHX	6	1904	7/7	0.99	0.09	-4.17	70,70,70,70	0
85	OHX	2	1927	7/7	0.97	0.12	-4.26	129,129,129,129	0
85	OHX	1	3462	7/7	0.96	0.12	-4.31	121,121,121,121	0
85	OHX	1	3621	7/7	0.94	0.12	-4.34	193,193,193,193	0
85	OHX	1	3488	7/7	0.98	0.11	-4.49	98,98,98,98	0
85	OHX	5	3455	7/7	0.99	0.08	-4.50	65,65,65,65	0
85	OHX	2	1982	7/7	0.91	0.18	-4.51	193,193,193,193	0
85	OHX	1	3428	7/7	0.99	0.10	-4.54	68,68,68,68	0
85	OHX	1	3454	7/7	0.97	0.12	-4.58	99,99,99,99	0
85	OHX	1	3447	7/7	0.99	0.09	-4.61	87,87,87,87	0
86	MG	5	4071	1/1	1.00	0.07	-4.64	53,53,53,53	0
85	OHX	2	1913	7/7	0.98	0.09	-4.65	106,106,106,106	0
85	OHX	1	3425	7/7	0.99	0.11	-4.69	77,77,77,77	0
85	OHX	1	3413	7/7	1.00	0.04	-4.71	66,66,66,66	0
85	OHX	5	3472	7/7	0.98	0.09	-4.72	99,99,99,99	0
85	OHX	6	1911	7/7	0.99	0.08	-4.74	78,78,78,78	0
85	OHX	1	3442	7/7	0.99	0.10	-4.79	85,85,85,85	0
85	OHX	5	3428	7/7	0.99	0.08	-4.79	60,60,60,60	0
85	OHX	5	3418	7/7	0.99	0.08	-4.80	69,69,69,69	0
85	OHX	5	3498	7/7	0.97	0.12	-4.82	104,104,104,104	0
85	OHX	1	3468	7/7	0.98	0.10	-4.83	100,100,100,100	0
85	OHX	6	1933	7/7	0.98	0.10	-4.87	112,112,112,112	0
85	OHX	5	3406	7/7	0.99	0.07	-4.88	55,55,55,55	0
85	OHX	5	3461	7/7	0.98	0.10	-4.92	74,74,74,74	0
85	OHX	2	1948	7/7	0.97	0.09	-4.97	124,124,124,124	0
85	OHX	6	1941	7/7	0.99	0.13	-5.06	111,111,111,111	0
85	OHX	1	3450	7/7	0.99	0.07	-5.08	90,90,90,90	0
85	OHX	5	3462	7/7	0.99	0.07	-5.12	73,73,73,73	0
85	OHX	5	3425	7/7	0.99	0.08	-5.13	71,71,71,71	0
85	OHX	1	3417	7/7	0.99	0.07	-5.16	65,65,65,65	0
86	MG	1	4007	1/1	0.98	0.09	-5.30	51,51,51,51	0
85	OHX	1	3437	7/7	0.99	0.07	-5.34	67,67,67,67	0
85	OHX	5	3441	7/7	0.99	0.06	-5.36	87,87,87,87	0
85	OHX	1	3489	7/7	0.96	0.10	-5.65	109,109,109,109	0
85	OHX	1	3438	7/7	0.99	0.07	-5.69	76,76,76,76	0
85	OHX	1	3451	7/7	0.98	0.09	-5.70	99,99,99,99	0
85	OHX	5	3456	7/7	0.98	0.08	-5.72	91,91,91,91	0
85	OHX	2	1944	7/7	0.97	0.11	-5.76	142,142,142,142	0
85	OHX	5	3538	7/7	0.98	0.10	-5.97	108,108,108,108	0
85	OHX	5	3479	7/7	0.99	0.08	-6.06	83,83,83,83	0
85	OHX	2	1904	7/7	0.98	0.08	-6.07	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	1	3431	7/7	0.99	0.08	-6.23	70,70,70,70	0
85	OHX	2	1902	7/7	0.99	0.09	-6.29	86,86,86,86	0
85	OHX	6	1931	7/7	0.96	0.12	-6.41	109,109,109,109	0
85	OHX	6	1915	7/7	0.99	0.08	-6.44	84,84,84,84	0
85	OHX	2	1920	7/7	0.98	0.09	-6.49	101,101,101,101	0
85	OHX	1	3440	7/7	0.99	0.06	-6.63	68,68,68,68	0
85	OHX	1	3434	7/7	0.99	0.06	-7.24	82,82,82,82	0
85	OHX	6	1919	7/7	0.99	0.08	-7.31	108,108,108,108	0
85	OHX	6	1927	7/7	0.97	0.09	-7.34	128,128,128,128	0
85	OHX	5	3437	7/7	0.99	0.08	-7.51	74,74,74,74	0
85	OHX	5	3492	7/7	0.99	0.05	-7.53	73,73,73,73	0
85	OHX	5	3529	7/7	0.98	0.10	-7.61	102,102,102,102	0
85	OHX	6	1914	7/7	0.98	0.08	-7.71	83,83,83,83	0
85	OHX	5	3427	7/7	0.99	0.06	-7.82	69,69,69,69	0
85	OHX	5	3431	7/7	0.99	0.06	-7.83	73,73,73,73	0
85	OHX	2	1924	7/7	0.98	0.11	-7.97	117,117,117,117	0
85	OHX	5	3466	7/7	0.98	0.13	-8.00	84,84,84,84	0
85	OHX	5	3432	7/7	0.99	0.08	-8.77	67,67,67,67	0
85	OHX	6	1958	7/7	0.98	0.12	-9.98	120,120,120,120	0
85	OHX	5	3465	7/7	0.98	0.10	-10.22	90,90,90,90	0
85	OHX	7	202	7/7	0.98	0.10	-11.28	88,88,88,88	0
85	OHX	1	3420	7/7	0.99	0.07	-12.52	63,63,63,63	0
85	OHX	6	1916	7/7	0.99	0.07	-14.76	88,88,88,88	0
86	MG	1	3932	1/1	0.68	0.19	-	78,78,78,78	0
85	OHX	1	3728	7/7	0.96	0.36	-	111,111,111,111	0
85	OHX	8	210	7/7	0.97	0.11	-	139,139,139,139	0
85	OHX	5	3743	7/7	0.93	0.20	-	129,129,129,129	0
86	MG	4	228	1/1	0.87	0.26	-	36,36,36,36	0
85	OHX	1	3596	7/7	0.93	0.23	-	120,120,120,120	0
86	MG	1	4097	1/1	-0.36	2.34	-	70,70,70,70	0
85	OHX	6	2041	7/7	0.94	0.34	-	153,153,153,153	0
86	MG	6	2065	1/1	0.84	0.67	-	60,60,60,60	0
86	MG	5	4034	1/1	0.85	0.26	-	51,51,51,51	0
86	MG	1	4077	1/1	0.75	0.22	-	88,88,88,88	0
86	MG	5	3855	1/1	0.95	0.38	-	28,28,28,28	0
86	MG	5	4093	1/1	0.66	0.41	-	49,49,49,49	0
86	MG	5	3955	1/1	0.83	0.24	-	46,46,46,46	0
86	MG	5	3954	1/1	0.90	0.20	-	46,46,46,46	0
86	MG	c8	202	1/1	0.67	0.31	-	94,94,94,94	0
86	MG	5	4161	1/1	0.94	0.19	-	113,113,113,113	0
86	MG	1	4117	1/1	0.97	0.43	-	36,36,36,36	0
86	MG	5	4039	1/1	0.49	0.39	-	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	6	2175	1/1	0.65	0.39	-	84,84,84,84	0
86	MG	3	214	1/1	0.90	0.68	-	68,68,68,68	0
85	OHX	1	3588	7/7	0.97	0.25	-	135,135,135,135	0
85	OHX	5	3641	7/7	0.98	0.29	-	119,119,119,119	0
85	OHX	1	3408	7/7	0.99	0.09	-	50,50,50,50	0
86	MG	1	3966	1/1	0.87	0.51	-	64,64,64,64	0
85	OHX	1	3582	7/7	0.99	0.21	-	101,101,101,101	0
86	MG	5	3868	1/1	0.97	0.49	-	31,31,31,31	0
86	MG	1	3800	1/1	0.93	0.59	-	51,51,51,51	0
86	MG	2	2125	1/1	0.76	0.23	-	123,123,123,123	0
86	MG	o2	202	1/1	0.93	0.28	-	38,38,38,38	0
85	OHX	n5	201	7/7	0.84	0.28	-	193,193,193,193	0
86	MG	3	201	1/1	0.96	0.51	-	33,33,33,33	0
85	OHX	1	3650	7/7	0.94	0.20	-	158,158,158,158	0
85	OHX	1	3467	7/7	0.98	0.09	-	87,87,87,87	0
86	MG	Q2	504	1/1	0.95	0.31	-	52,52,52,52	0
86	MG	5	3916	1/1	0.85	0.91	-	52,52,52,52	0
85	OHX	6	2020	7/7	0.95	0.30	-	146,146,146,146	0
86	MG	1	4065	1/1	0.64	0.44	-	47,47,47,47	0
86	MG	1	3841	1/1	0.65	0.45	-	42,42,42,42	0
86	MG	1	3972	1/1	0.69	0.35	-	49,49,49,49	0
86	MG	7	215	1/1	0.93	0.39	-	61,61,61,61	0
85	OHX	5	3684	7/7	0.94	0.25	-	150,150,150,150	0
86	MG	5	3964	1/1	0.69	0.33	-	57,57,57,57	0
86	MG	1	3770	1/1	0.97	0.43	-	36,36,36,36	0
86	MG	6	2122	1/1	0.70	0.52	-	105,105,105,105	0
86	MG	1	4000	1/1	0.94	0.30	-	58,58,58,58	0
85	OHX	5	3717	7/7	0.94	0.28	-	143,143,143,143	0
86	MG	4	229	1/1	0.87	0.45	-	51,51,51,51	0
86	MG	5	4019	1/1	0.77	0.25	-	68,68,68,68	0
86	MG	5	3820	1/1	0.93	0.34	-	28,28,28,28	0
85	OHX	3	202	7/7	0.98	0.09	-	90,90,90,90	0
86	MG	2	2129	1/1	0.94	0.76	-	80,80,80,80	0
85	OHX	2	1951	7/7	0.97	0.14	-	148,148,148,148	0
86	MG	8	223	1/1	0.86	0.46	-	50,50,50,50	0
85	OHX	6	2017	7/7	0.96	0.30	-	122,122,122,122	0
86	MG	1	4026	1/1	0.79	0.40	-	69,69,69,69	0
85	OHX	7	210	7/7	0.91	0.30	-	140,140,140,140	0
85	OHX	1	3700	7/7	0.95	0.22	-	136,136,136,136	0
86	MG	1	3874	1/1	0.85	0.37	-	29,29,29,29	0
86	MG	6	2123	1/1	0.82	0.58	-	83,83,83,83	0
86	MG	4	224	1/1	0.77	0.34	-	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	4102	1/1	0.60	0.49	-	77,77,77,77	0
85	OHX	2	2006	7/7	0.96	0.34	-	135,135,135,135	0
86	MG	1	3979	1/1	0.94	0.26	-	43,43,43,43	0
86	MG	5	3945	1/1	0.93	0.23	-	32,32,32,32	0
86	MG	1	3915	1/1	0.93	0.25	-	45,45,45,45	0
85	OHX	5	3640	7/7	0.95	0.24	-	123,123,123,123	0
86	MG	6	2139	1/1	0.97	0.31	-	112,112,112,112	0
86	MG	m1	202	1/1	0.88	0.23	-	59,59,59,59	0
86	MG	1	3984	1/1	0.45	0.60	-	75,75,75,75	0
86	MG	5	4160	1/1	0.96	0.29	-	70,70,70,70	0
85	OHX	1	3726	7/7	0.87	0.35	-	140,140,140,140	0
86	MG	6	2110	1/1	0.76	0.21	-	85,85,85,85	0
86	MG	5	4149	1/1	0.49	0.72	-	51,51,51,51	0
86	MG	5	3773	1/1	0.87	0.83	-	47,47,47,47	0
86	MG	6	2120	1/1	0.62	0.69	-	62,62,62,62	0
86	MG	1	3785	1/1	0.93	0.33	-	46,46,46,46	0
86	MG	2	2059	1/1	0.72	0.63	-	70,70,70,70	0
85	OHX	6	2047	7/7	0.94	0.32	-	168,168,168,168	0
86	MG	1	4080	1/1	0.80	0.30	-	46,46,46,46	0
86	MG	1	4028	1/1	0.97	0.16	-	87,87,87,87	0
85	OHX	5	3458	7/7	0.98	0.10	-	92,92,92,92	0
86	MG	1	4127	1/1	0.68	0.36	-	113,113,113,113	0
85	OHX	1	3439	7/7	0.99	0.10	-	75,75,75,75	0
86	MG	5	4126	1/1	0.97	0.45	-	49,49,49,49	0
86	MG	1	3854	1/1	0.96	0.37	-	43,43,43,43	0
86	MG	2	2107	1/1	0.90	0.72	-	65,65,65,65	0
86	MG	1	4124	1/1	0.85	0.35	-	59,59,59,59	0
85	OHX	5	3542	7/7	0.96	0.12	-	127,127,127,127	0
86	MG	5	4077	1/1	0.79	0.20	-	79,79,79,79	0
86	MG	5	3812	1/1	0.42	0.51	-	57,57,57,57	0
86	MG	5	3794	1/1	0.87	0.31	-	56,56,56,56	0
85	OHX	1	3512	7/7	0.97	0.15	-	100,100,100,100	0
86	MG	6	2127	1/1	0.57	0.57	-	57,57,57,57	0
86	MG	6	2153	1/1	0.98	0.20	-	97,97,97,97	0
86	MG	1	3748	1/1	0.86	0.34	-	40,40,40,40	0
86	MG	1	3879	1/1	0.92	0.50	-	30,30,30,30	0
85	OHX	1	3597	7/7	0.94	0.14	-	144,144,144,144	0
85	OHX	5	3722	7/7	0.95	0.30	-	131,131,131,131	0
86	MG	5	3848	1/1	0.97	0.11	-	38,38,38,38	0
86	MG	5	4015	1/1	0.73	0.22	-	51,51,51,51	0
86	MG	5	4012	1/1	0.86	0.23	-	69,69,69,69	0
86	MG	1	3924	1/1	0.92	0.17	-	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3809	1/1	0.92	0.53	-	38,38,38,38	0
86	MG	5	3951	1/1	0.95	0.14	-	41,41,41,41	0
86	MG	5	3857	1/1	0.85	0.57	-	37,37,37,37	0
85	OHX	1	3561	7/7	0.98	0.20	-	97,97,97,97	0
86	MG	L5	301	1/1	0.07	0.53	-	110,110,110,110	0
85	OHX	6	1957	7/7	0.95	0.19	-	104,104,104,104	0
85	OHX	6	1925	7/7	0.97	0.11	-	105,105,105,105	0
86	MG	5	3973	1/1	0.81	0.26	-	65,65,65,65	0
86	MG	1	3962	1/1	0.98	0.13	-	46,46,46,46	0
85	OHX	2	1997	7/7	0.95	0.26	-	138,138,138,138	0
86	MG	5	4043	1/1	0.95	0.21	-	40,40,40,40	0
86	MG	1	4005	1/1	0.74	0.40	-	69,69,69,69	0
86	MG	6	2137	1/1	0.92	0.48	-	66,66,66,66	0
86	MG	1	4082	1/1	0.52	0.63	-	53,53,53,53	0
86	MG	1	4046	1/1	0.89	0.57	-	55,55,55,55	0
86	MG	1	4048	1/1	0.62	0.49	-	67,67,67,67	0
85	OHX	5	3613	7/7	0.95	0.30	-	113,113,113,113	0
86	MG	5	3807	1/1	0.63	0.32	-	102,102,102,102	0
85	OHX	6	1934	7/7	0.98	0.14	-	101,101,101,101	0
86	MG	1	4038	1/1	0.91	0.26	-	60,60,60,60	0
86	MG	1	3867	1/1	0.84	0.28	-	54,54,54,54	0
85	OHX	2	1934	7/7	0.96	0.15	-	124,124,124,124	0
86	MG	1	3850	1/1	0.81	0.45	-	35,35,35,35	0
86	MG	5	3960	1/1	0.90	0.35	-	45,45,45,45	0
86	MG	1	3840	1/1	0.88	0.38	-	34,34,34,34	0
86	MG	8	221	1/1	0.96	0.13	-	56,56,56,56	0
86	MG	2	2105	1/1	0.85	0.36	-	90,90,90,90	0
86	MG	1	4083	1/1	0.83	0.22	-	46,46,46,46	0
86	MG	1	4110	1/1	0.86	0.24	-	32,32,32,32	0
86	MG	1	3789	1/1	0.93	0.28	-	30,30,30,30	0
86	MG	n9	102	1/1	0.76	0.39	-	34,34,34,34	0
86	MG	5	4153	1/1	0.68	0.32	-	38,38,38,38	0
86	MG	5	3823	1/1	0.89	0.48	-	50,50,50,50	0
86	MG	5	3822	1/1	0.94	0.30	-	50,50,50,50	0
86	MG	5	3888	1/1	0.92	0.53	-	43,43,43,43	0
85	OHX	5	3588	7/7	0.97	0.13	-	127,127,127,127	0
86	MG	6	2180	1/1	0.52	0.39	-	88,88,88,88	0
85	OHX	5	3628	7/7	0.98	0.18	-	139,139,139,139	0
85	OHX	2	1939	7/7	0.97	0.11	-	123,123,123,123	0
86	MG	5	4013	1/1	0.90	0.24	-	48,48,48,48	0
85	OHX	1	3449	7/7	0.98	0.08	-	82,82,82,82	0
86	MG	L2	302	1/1	0.05	0.49	-	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3849	1/1	0.85	0.69	-	62,62,62,62	0
86	MG	5	3754	1/1	0.97	0.28	-	47,47,47,47	0
86	MG	6	2083	1/1	0.94	0.46	-	43,43,43,43	0
86	MG	6	2071	1/1	0.91	0.30	-	73,73,73,73	0
86	MG	5	3840	1/1	0.73	0.53	-	34,34,34,34	0
86	MG	5	3755	1/1	0.87	0.16	-	52,52,52,52	0
86	MG	M7	206	1/1	0.77	0.53	-	37,37,37,37	0
85	OHX	L3	401	7/7	0.98	0.29	-	117,117,117,117	0
86	MG	1	4054	1/1	0.50	0.66	-	86,86,86,86	0
86	MG	4	216	1/1	0.83	0.55	-	55,55,55,55	0
86	MG	5	3875	1/1	0.94	0.33	-	20,20,20,20	0
85	OHX	2	1926	7/7	0.96	0.14	-	119,119,119,119	0
86	MG	5	3817	1/1	0.78	0.29	-	66,66,66,66	0
85	OHX	1	3712	7/7	0.93	0.28	-	170,170,170,170	0
86	MG	5	4014	1/1	0.68	0.33	-	66,66,66,66	0
86	MG	5	3990	1/1	0.92	0.14	-	36,36,36,36	0
86	MG	5	3819	1/1	0.91	0.16	-	49,49,49,49	0
86	MG	D9	103	1/1	0.89	0.33	-	88,88,88,88	0
86	MG	5	3910	1/1	0.97	0.53	-	40,40,40,40	0
86	MG	5	3975	1/1	0.87	0.20	-	40,40,40,40	0
86	MG	1	3911	1/1	0.97	0.22	-	46,46,46,46	0
86	MG	1	3909	1/1	0.89	0.52	-	36,36,36,36	0
86	MG	1	3761	1/1	0.71	0.38	-	47,47,47,47	0
85	OHX	5	3633	7/7	0.94	0.28	-	141,141,141,141	0
86	MG	1	3831	1/1	0.89	0.50	-	30,30,30,30	0
85	OHX	6	1985	7/7	0.95	0.21	-	143,143,143,143	0
85	OHX	1	3679	7/7	0.94	0.40	-	122,122,122,122	0
86	MG	MG	2222	1/1	0.36	1.31	-	136,136,136,136	0
86	MG	1	3997	1/1	0.85	0.35	-	58,58,58,58	0
85	OHX	6	1968	7/7	0.97	0.14	-	123,123,123,123	0
86	MG	1	3763	1/1	0.96	0.59	-	44,44,44,44	0
85	OHX	1	3709	7/7	0.94	0.41	-	166,166,166,166	0
85	OHX	2	1954	7/7	0.95	0.18	-	115,115,115,115	0
86	MG	5	3898	1/1	0.93	0.76	-	30,30,30,30	0
86	MG	1	3953	1/1	0.89	0.22	-	57,57,57,57	0
86	MG	6	2062	1/1	0.95	0.58	-	46,46,46,46	0
86	MG	1	4023	1/1	0.91	0.35	-	47,47,47,47	0
86	MG	1	3838	1/1	0.96	0.20	-	38,38,38,38	0
85	OHX	2	1912	7/7	0.98	0.09	-	110,110,110,110	0
86	MG	6	2063	1/1	0.96	0.39	-	42,42,42,42	0
86	MG	5	4086	1/1	0.86	0.20	-	92,92,92,92	0
86	MG	1	3869	1/1	0.96	0.41	-	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	6	2074	1/1	0.60	0.75	-	76,76,76,76	0
86	MG	5	3932	1/1	0.82	0.22	-	42,42,42,42	0
86	MG	5	3799	1/1	0.83	0.39	-	43,43,43,43	0
86	MG	1	3767	1/1	0.95	0.25	-	61,61,61,61	0
86	MG	6	2134	1/1	0.86	0.55	-	56,56,56,56	0
86	MG	6	2111	1/1	0.96	0.38	-	86,86,86,86	0
85	OHX	5	3549	7/7	0.97	0.24	-	109,109,109,109	0
86	MG	2	2049	1/1	0.84	0.53	-	58,58,58,58	0
86	MG	1	3999	1/1	0.87	0.25	-	66,66,66,66	0
86	MG	5	4021	1/1	0.90	0.36	-	54,54,54,54	0
86	MG	1	3842	1/1	0.94	0.41	-	33,33,33,33	0
86	MG	6	2100	1/1	0.83	0.81	-	42,42,42,42	0
86	MG	1	3944	1/1	0.76	0.31	-	59,59,59,59	0
86	MG	5	3913	1/1	0.97	0.33	-	27,27,27,27	0
86	MG	2	2057	1/1	0.98	0.46	-	57,57,57,57	0
85	OHX	2	2001	7/7	0.96	0.24	-	141,141,141,141	0
86	MG	1	4076	1/1	0.67	0.50	-	45,45,45,45	0
86	MG	1	3967	1/1	0.89	0.47	-	42,42,42,42	0
86	MG	5	3797	1/1	0.80	0.59	-	52,52,52,52	0
85	OHX	2	2021	7/7	0.94	0.19	-	133,133,133,133	0
85	OHX	1	3733	7/7	0.96	0.42	-	119,119,119,119	0
86	MG	6	2182	1/1	0.84	0.37	-	76,76,76,76	0
85	OHX	2	1979	7/7	0.95	0.15	-	156,156,156,156	0
86	MG	1	3969	1/1	0.86	0.28	-	35,35,35,35	0
86	MG	5	3977	1/1	0.89	0.29	-	45,45,45,45	0
86	MG	1	4075	1/1	0.98	0.17	-	54,54,54,54	0
86	MG	5	4060	1/1	0.77	0.14	-	44,44,44,44	0
85	OHX	1	3559	7/7	0.96	0.19	-	143,143,143,143	0
86	MG	5	4097	1/1	0.64	0.67	-	75,75,75,75	0
86	MG	5	4095	1/1	0.77	0.29	-	59,59,59,59	0
86	MG	1	3893	1/1	0.94	0.50	-	52,52,52,52	0
85	OHX	5	3669	7/7	0.87	0.28	-	192,192,192,192	0
86	MG	5	3864	1/1	0.88	0.22	-	34,34,34,34	0
86	MG	6	2108	1/1	0.83	0.64	-	77,77,77,77	0
85	OHX	m1	201	7/7	0.95	0.25	-	135,135,135,135	0
86	MG	2	2118	1/1	0.89	0.57	-	51,51,51,51	0
86	MG	6	2166	1/1	0.71	0.32	-	72,72,72,72	0
85	OHX	1	3735	7/7	0.94	0.42	-	153,153,153,153	0
86	MG	1	3794	1/1	0.96	0.28	-	29,29,29,29	0
86	MG	5	3981	1/1	0.93	0.72	-	58,58,58,58	0
86	MG	5	4148	1/1	0.93	0.21	-	52,52,52,52	0
85	OHX	1	3496	7/7	0.98	0.11	-	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	2	2092	1/1	0.83	0.75	-	98,98,98,98	0
86	MG	5	4025	1/1	0.42	0.49	-	56,56,56,56	0
86	MG	5	4102	1/1	0.83	0.45	-	42,42,42,42	0
85	OHX	1	3608	7/7	0.94	0.26	-	135,135,135,135	0
85	OHX	6	2048	7/7	0.90	0.31	-	171,171,171,171	0
86	MG	6	2106	1/1	0.77	0.46	-	87,87,87,87	0
85	OHX	2	1929	7/7	0.98	0.20	-	116,116,116,116	0
86	MG	5	3834	1/1	0.95	0.19	-	39,39,39,39	0
86	MG	5	3912	1/1	0.94	1.00	-	43,43,43,43	0
85	OHX	2	2040	7/7	0.97	0.22	-	147,147,147,147	0
86	MG	1	3745	1/1	0.89	0.59	-	32,32,32,32	0
86	MG	5	3778	1/1	0.88	0.53	-	53,53,53,53	0
85	OHX	5	3730	7/7	0.84	0.35	-	158,158,158,158	0
86	MG	5	3853	1/1	0.95	0.35	-	43,43,43,43	0
86	MG	1	4018	1/1	0.70	0.40	-	40,40,40,40	0
85	OHX	1	3599	7/7	0.92	0.42	-	126,126,126,126	0
86	MG	1	3975	1/1	0.65	0.42	-	58,58,58,58	0
86	MG	2	2046	1/1	0.84	0.81	-	84,84,84,84	0
86	MG	5	4139	1/1	0.76	0.40	-	52,52,52,52	0
85	OHX	6	2042	7/7	0.94	0.32	-	139,139,139,139	0
85	OHX	5	3679	7/7	0.96	0.39	-	136,136,136,136	0
85	OHX	1	3725	7/7	0.90	0.38	-	178,178,178,178	0
86	MG	1	4096	1/1	0.94	0.12	-	56,56,56,56	0
86	MG	3	218	1/1	0.87	0.51	-	81,81,81,81	0
86	MG	2	2077	1/1	0.86	0.55	-	71,71,71,71	0
86	MG	5	3867	1/1	0.93	0.21	-	45,45,45,45	0
86	MG	5	4130	1/1	0.88	0.31	-	46,46,46,46	0
86	MG	1	3922	1/1	0.95	0.48	-	55,55,55,55	0
85	OHX	2	2038	7/7	0.96	0.40	-	143,143,143,143	0
85	OHX	c8	201	7/7	0.98	0.10	-	132,132,132,132	0
85	OHX	5	3423	7/7	0.99	0.08	-	67,67,67,67	0
85	OHX	l5	304	7/7	0.87	0.43	-	134,134,134,134	0
85	OHX	5	3627	7/7	0.96	0.24	-	127,127,127,127	0
86	MG	4	218	1/1	0.59	0.63	-	49,49,49,49	0
85	OHX	2	1972	7/7	0.94	0.12	-	151,151,151,151	0
86	MG	1	4081	1/1	0.95	0.42	-	53,53,53,53	0
85	OHX	1	3600	7/7	0.96	0.28	-	118,118,118,118	0
85	OHX	1	3533	7/7	0.95	0.09	-	155,155,155,155	0
86	MG	5	4040	1/1	0.93	0.23	-	46,46,46,46	0
86	MG	5	4120	1/1	0.68	0.29	-	52,52,52,52	0
86	MG	MG	2217	1/1	0.48	0.39	-	77,77,77,77	0
86	MG	6	2185	1/1	0.78	0.36	-	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	4009	1/1	0.87	0.26	-	65,65,65,65	0
86	MG	6	2158	1/1	0.69	0.42	-	46,46,46,46	0
86	MG	6	2160	1/1	0.80	0.24	-	71,71,71,71	0
86	MG	5	4081	1/1	0.89	0.24	-	49,49,49,49	0
85	OHX	1	3702	7/7	0.94	0.29	-	157,157,157,157	0
86	MG	2	2099	1/1	0.77	0.72	-	62,62,62,62	0
85	OHX	5	3600	7/7	0.95	0.23	-	147,147,147,147	0
86	MG	1	3832	1/1	0.95	0.30	-	40,40,40,40	0
85	OHX	1	3715	7/7	0.90	0.38	-	147,147,147,147	0
86	MG	5	3890	1/1	0.89	0.58	-	49,49,49,49	0
86	MG	1	3985	1/1	0.81	0.74	-	61,61,61,61	0
86	MG	5	4084	1/1	0.94	0.12	-	143,143,143,143	0
86	MG	1	4015	1/1	0.91	0.24	-	41,41,41,41	0
86	MG	1	3904	1/1	0.92	0.36	-	51,51,51,51	0
86	MG	5	4070	1/1	0.88	0.26	-	68,68,68,68	0
85	OHX	5	3666	7/7	0.97	0.42	-	104,104,104,104	0
86	MG	1	4042	1/1	0.76	0.18	-	79,79,79,79	0
85	OHX	5	3575	7/7	0.96	0.25	-	119,119,119,119	0
86	MG	3	213	1/1	0.85	0.56	-	44,44,44,44	0
86	MG	2	2117	1/1	0.50	0.31	-	68,68,68,68	0
85	OHX	1	3547	7/7	0.97	0.24	-	126,126,126,126	0
86	MG	1	3861	1/1	0.72	0.14	-	65,65,65,65	0
86	MG	6	2183	1/1	0.82	0.76	-	64,64,64,64	0
85	OHX	1	3606	7/7	0.97	0.26	-	106,106,106,106	0
86	MG	5	3924	1/1	0.71	0.37	-	49,49,49,49	0
86	MG	6	2098	1/1	0.62	0.41	-	69,69,69,69	0
85	OHX	1	3615	7/7	0.99	0.17	-	119,119,119,119	0
86	MG	1	4112	1/1	0.83	0.24	-	54,54,54,54	0
85	OHX	5	3674	7/7	0.86	0.20	-	178,178,178,178	0
85	OHX	5	3683	7/7	0.94	0.40	-	133,133,133,133	0
86	MG	2	2130	1/1	0.76	0.71	-	70,70,70,70	0
86	MG	2	2123	1/1	0.40	0.36	-	97,97,97,97	0
85	OHX	1	3523	7/7	0.99	0.21	-	117,117,117,117	0
85	OHX	5	3685	7/7	0.94	0.38	-	133,133,133,133	0
85	OHX	2	1986	7/7	0.96	0.32	-	131,131,131,131	0
86	MG	1	3805	1/1	0.40	0.44	-	97,97,97,97	0
86	MG	5	4037	1/1	0.87	0.38	-	39,39,39,39	0
86	MG	1	3980	1/1	0.84	0.27	-	58,58,58,58	0
85	OHX	5	3724	7/7	0.94	0.43	-	175,175,175,175	0
86	MG	N3	202	1/1	0.65	0.21	-	59,59,59,59	0
86	MG	1	3863	1/1	0.84	0.26	-	30,30,30,30	0
86	MG	1	4095	1/1	0.18	0.47	-	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	1	3701	7/7	0.94	0.37	-	144,144,144,144	0
86	MG	5	3882	1/1	0.85	0.27	-	44,44,44,44	0
86	MG	7	222	1/1	0.93	0.21	-	48,48,48,48	0
85	OHX	1	3441	7/7	0.97	0.11	-	87,87,87,87	0
86	MG	5	3824	1/1	0.85	0.32	-	51,51,51,51	0
86	MG	1	3846	1/1	0.96	0.92	-	31,31,31,31	0
86	MG	1	3991	1/1	0.81	0.30	-	48,48,48,48	0
85	OHX	5	3745	7/7	0.95	0.37	-	139,139,139,139	0
86	MG	M7	203	1/1	0.83	0.73	-	65,65,65,65	0
86	MG	1	4123	1/1	0.71	0.35	-	47,47,47,47	0
86	MG	1	4122	1/1	0.93	0.32	-	46,46,46,46	0
86	MG	1	4121	1/1	0.60	0.71	-	56,56,56,56	0
85	OHX	2	1960	7/7	0.96	0.10	-	149,149,149,149	0
86	MG	1	3856	1/1	0.96	0.47	-	32,32,32,32	0
86	MG	1	3989	1/1	0.59	0.37	-	47,47,47,47	0
86	MG	1	3772	1/1	0.93	0.24	-	32,32,32,32	0
86	MG	6	2131	1/1	0.70	0.20	-	102,102,102,102	0
86	MG	1	3933	1/1	0.90	0.20	-	43,43,43,43	0
85	OHX	8	216	7/7	0.94	0.31	-	134,134,134,134	0
86	MG	2	2087	1/1	0.93	0.82	-	95,95,95,95	0
86	MG	5	3779	1/1	0.86	0.23	-	103,103,103,103	0
86	MG	6	2141	1/1	0.82	0.81	-	59,59,59,59	0
86	MG	5	3750	1/1	0.77	0.36	-	34,34,34,34	0
85	OHX	6	1905	7/7	0.98	0.14	-	80,80,80,80	0
86	MG	5	3836	1/1	0.92	0.36	-	40,40,40,40	0
85	OHX	5	3725	7/7	0.93	0.39	-	125,125,125,125	0
85	OHX	2	2023	7/7	0.90	0.40	-	166,166,166,166	0
86	MG	5	4157	1/1	0.85	0.26	-	48,48,48,48	0
85	OHX	1	3551	7/7	0.96	0.22	-	128,128,128,128	0
86	MG	5	3831	1/1	0.89	0.50	-	32,32,32,32	0
86	MG	1	3803	1/1	0.92	0.45	-	47,47,47,47	0
86	MG	6	2112	1/1	0.88	0.53	-	71,71,71,71	0
85	OHX	8	207	7/7	0.96	0.12	-	114,114,114,114	0
86	MG	1	4126	1/1	0.56	1.03	-	87,87,87,87	0
86	MG	1	3978	1/1	0.68	0.65	-	51,51,51,51	0
86	MG	2	2101	1/1	0.67	0.84	-	126,126,126,126	0
86	MG	6	2133	1/1	0.91	0.66	-	84,84,84,84	0
86	MG	1	3760	1/1	0.93	0.36	-	47,47,47,47	0
86	MG	6	2090	1/1	0.97	0.46	-	32,32,32,32	0
86	MG	5	4159	1/1	0.95	0.45	-	52,52,52,52	0
86	MG	1	3970	1/1	0.94	0.24	-	44,44,44,44	0
86	MG	1	4059	1/1	0.94	0.22	-	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	6	2151	1/1	0.70	0.25	-	140,140,140,140	0
86	MG	1	3769	1/1	0.88	0.77	-	56,56,56,56	0
86	MG	1	3820	1/1	0.94	1.07	-	54,54,54,54	0
86	MG	1	3941	1/1	0.96	0.51	-	34,34,34,34	0
85	OHX	5	3454	7/7	0.98	0.07	-	98,98,98,98	0
85	OHX	1	3632	7/7	0.97	0.24	-	136,136,136,136	0
86	MG	1	4116	1/1	0.71	0.46	-	67,67,67,67	0
85	OHX	m4	201	7/7	0.90	0.41	-	181,181,181,181	0
85	OHX	5	3607	7/7	0.92	0.18	-	144,144,144,144	0
86	MG	6	2184	1/1	0.83	0.45	-	58,58,58,58	0
86	MG	m4	202	1/1	0.85	0.24	-	42,42,42,42	0
86	MG	1	4047	1/1	0.87	0.18	-	75,75,75,75	0
86	MG	1	3956	1/1	0.89	0.46	-	81,81,81,81	0
86	MG	5	4064	1/1	0.90	0.26	-	47,47,47,47	0
85	OHX	5	3519	7/7	0.97	0.16	-	105,105,105,105	0
86	MG	n0	201	1/1	0.94	0.21	-	38,38,38,38	0
86	MG	5	4111	1/1	0.73	0.35	-	42,42,42,42	0
86	MG	5	3891	1/1	0.97	0.45	-	31,31,31,31	0
86	MG	5	4009	1/1	0.83	0.20	-	49,49,49,49	0
86	MG	5	3838	1/1	0.83	0.29	-	35,35,35,35	0
85	OHX	6	2021	7/7	0.90	0.30	-	169,169,169,169	0
86	MG	1	3817	1/1	0.85	0.39	-	53,53,53,53	0
86	MG	5	4022	1/1	0.84	0.33	-	41,41,41,41	0
86	MG	5	3959	1/1	0.96	0.31	-	54,54,54,54	0
86	MG	5	3982	1/1	0.66	0.57	-	36,36,36,36	0
86	MG	1	4055	1/1	0.61	0.31	-	78,78,78,78	0
86	MG	7	214	1/1	0.71	0.46	-	27,27,27,27	0
85	OHX	6	1976	7/7	0.96	0.17	-	147,147,147,147	0
86	MG	4	222	1/1	0.82	0.36	-	43,43,43,43	0
86	MG	5	4098	1/1	0.87	0.69	-	54,54,54,54	0
85	OHX	5	3434	7/7	0.98	0.09	-	68,68,68,68	0
86	MG	1	3771	1/1	0.93	0.34	-	37,37,37,37	0
86	MG	q0	202	1/1	0.83	0.26	-	43,43,43,43	0
86	MG	2	2065	1/1	0.62	0.41	-	50,50,50,50	0
86	MG	5	3970	1/1	0.72	0.43	-	49,49,49,49	0
85	OHX	5	3570	7/7	0.97	0.17	-	104,104,104,104	0
86	MG	2	2124	1/1	0.18	0.84	-	113,113,113,113	0
86	MG	6	2093	1/1	0.93	0.48	-	42,42,42,42	0
86	MG	1	3988	1/1	0.76	0.48	-	58,58,58,58	0
86	MG	5	3854	1/1	0.93	0.45	-	25,25,25,25	0
86	MG	5	4152	1/1	0.80	0.32	-	48,48,48,48	0
85	OHX	2	1996	7/7	0.94	0.16	-	144,144,144,144	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3837	1/1	0.89	0.31	-	37,37,37,37	0
86	MG	1	4106	1/1	0.73	0.43	-	55,55,55,55	0
86	MG	1	4087	1/1	0.16	0.97	-	84,84,84,84	0
86	MG	2	2050	1/1	0.87	0.35	-	87,87,87,87	0
85	OHX	5	3632	7/7	0.97	0.32	-	132,132,132,132	0
86	MG	1	4025	1/1	0.79	0.18	-	55,55,55,55	0
85	OHX	6	2044	7/7	0.94	0.33	-	123,123,123,123	0
86	MG	5	3946	1/1	0.90	0.19	-	39,39,39,39	0
85	OHX	5	3589	7/7	0.97	0.20	-	115,115,115,115	0
85	OHX	14	402	7/7	0.93	0.47	-	134,134,134,134	0
86	MG	5	4156	1/1	0.92	0.25	-	55,55,55,55	0
86	MG	6	2144	1/1	0.90	0.34	-	75,75,75,75	0
86	MG	1	3775	1/1	0.80	0.44	-	39,39,39,39	0
86	MG	2	2128	1/1	0.52	0.70	-	56,56,56,56	0
85	OHX	8	217	7/7	0.97	0.38	-	113,113,113,113	0
86	MG	5	3771	1/1	0.84	0.39	-	50,50,50,50	0
85	OHX	5	3734	7/7	0.98	0.25	-	97,97,97,97	0
86	MG	6	2150	1/1	0.94	0.73	-	113,113,113,113	0
86	MG	7	221	1/1	0.81	0.57	-	51,51,51,51	0
85	OHX	1	3665	7/7	0.95	0.41	-	138,138,138,138	0
86	MG	1	3777	1/1	0.80	0.18	-	44,44,44,44	0
85	OHX	1	3506	7/7	0.97	0.16	-	107,107,107,107	0
85	OHX	5	3598	7/7	0.95	0.32	-	130,130,130,130	0
86	MG	6	2146	1/1	0.72	0.50	-	55,55,55,55	0
86	MG	q1	101	1/1	0.86	0.45	-	52,52,52,52	0
86	MG	6	2155	1/1	0.93	0.52	-	108,108,108,108	0
86	MG	5	3935	1/1	0.92	0.32	-	37,37,37,37	0
86	MG	5	3917	1/1	0.90	0.48	-	41,41,41,41	0
86	MG	1	4035	1/1	0.93	0.16	-	49,49,49,49	0
86	MG	1	3876	1/1	0.92	0.23	-	48,48,48,48	0
86	MG	7	213	1/1	0.73	0.80	-	49,49,49,49	0
86	MG	5	3785	1/1	0.95	0.28	-	39,39,39,39	0
86	MG	1	3903	1/1	0.91	0.73	-	43,43,43,43	0
85	OHX	5	3551	7/7	0.96	0.18	-	117,117,117,117	0
86	MG	5	4127	1/1	0.98	0.17	-	61,61,61,61	0
86	MG	5	4045	1/1	0.83	0.27	-	42,42,42,42	0
85	OHX	1	3553	7/7	0.96	0.10	-	141,141,141,141	0
86	MG	1	4108	1/1	0.52	0.92	-	66,66,66,66	0
86	MG	6	2115	1/1	0.87	0.33	-	56,56,56,56	0
86	MG	1	4050	1/1	0.35	0.25	-	92,92,92,92	0
86	MG	1	4022	1/1	0.90	0.28	-	56,56,56,56	0
86	MG	6	2149	1/1	0.85	0.68	-	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	5	3521	7/7	0.98	0.09	-	119,119,119,119	0
85	OHX	5	3563	7/7	0.98	0.19	-	103,103,103,103	0
86	MG	5	4002	1/1	0.84	0.27	-	38,38,38,38	0
86	MG	5	3859	1/1	0.97	0.50	-	37,37,37,37	0
85	OHX	1	3629	7/7	0.95	0.19	-	144,144,144,144	0
85	OHX	2	1984	7/7	0.94	0.21	-	133,133,133,133	0
86	MG	1	3974	1/1	0.84	0.17	-	52,52,52,52	0
86	MG	2	2084	1/1	0.86	0.83	-	59,59,59,59	0
86	MG	6	2089	1/1	0.92	0.73	-	84,84,84,84	0
85	OHX	5	3653	7/7	0.97	0.35	-	126,126,126,126	0
85	OHX	6	1913	7/7	0.99	0.09	-	94,94,94,94	0
86	MG	5	4047	1/1	0.85	0.26	-	35,35,35,35	0
85	OHX	1	3667	7/7	0.93	0.29	-	154,154,154,154	0
86	MG	5	3944	1/1	0.91	0.26	-	39,39,39,39	0
85	OHX	2	1969	7/7	0.97	0.26	-	136,136,136,136	0
86	MG	5	4092	1/1	0.88	0.34	-	58,58,58,58	0
86	MG	1	3755	1/1	0.96	0.41	-	40,40,40,40	0
85	OHX	1	3550	7/7	0.97	0.21	-	119,119,119,119	0
85	OHX	1	3545	7/7	0.97	0.17	-	115,115,115,115	0
85	OHX	6	2014	7/7	0.97	0.34	-	119,119,119,119	0
85	OHX	5	3681	7/7	0.96	0.23	-	117,117,117,117	0
85	OHX	5	3576	7/7	0.97	0.28	-	117,117,117,117	0
85	OHX	1	3503	7/7	0.98	0.10	-	109,109,109,109	0
86	MG	2	2121	1/1	0.91	0.35	-	88,88,88,88	0
86	MG	5	4162	1/1	0.71	0.52	-	76,76,76,76	0
86	MG	2	2127	1/1	0.79	0.78	-	60,60,60,60	0
85	OHX	1	3477	7/7	0.98	0.12	-	95,95,95,95	0
86	MG	5	4011	1/1	0.90	0.38	-	42,42,42,42	0
86	MG	5	4061	1/1	0.97	0.30	-	62,62,62,62	0
86	MG	5	3991	1/1	0.87	0.25	-	47,47,47,47	0
86	MG	o3	202	1/1	0.89	0.47	-	40,40,40,40	0
86	MG	5	4101	1/1	0.73	0.73	-	34,34,34,34	0
86	MG	1	3759	1/1	0.67	0.53	-	47,47,47,47	0
86	MG	1	4078	1/1	0.94	0.17	-	84,84,84,84	0
86	MG	5	3877	1/1	0.96	0.46	-	36,36,36,36	0
86	MG	6	2068	1/1	0.79	0.38	-	45,45,45,45	0
86	MG	8	226	1/1	0.80	0.37	-	55,55,55,55	0
86	MG	1	3828	1/1	0.91	0.36	-	35,35,35,35	0
86	MG	2	2082	1/1	0.94	0.99	-	104,104,104,104	0
86	MG	1	3822	1/1	0.96	0.33	-	56,56,56,56	0
86	MG	1	3790	1/1	0.89	0.18	-	41,41,41,41	0
86	MG	1	4008	1/1	0.83	0.43	-	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	4079	1/1	0.93	0.22	-	41,41,41,41	0
85	OHX	5	3675	7/7	0.92	0.25	-	149,149,149,149	0
85	OHX	5	3407	7/7	1.00	0.08	-	59,59,59,59	0
86	MG	1	3773	1/1	0.72	0.44	-	64,64,64,64	0
86	MG	2	2045	1/1	0.89	0.72	-	53,53,53,53	0
86	MG	5	3765	1/1	0.91	0.36	-	68,68,68,68	0
85	OHX	6	2006	7/7	0.95	0.26	-	141,141,141,141	0
86	MG	5	4020	1/1	0.91	0.24	-	62,62,62,62	0
85	OHX	1	3654	7/7	0.97	0.20	-	116,116,116,116	0
86	MG	5	4105	1/1	0.96	0.13	-	47,47,47,47	0
86	MG	C2	203	1/1	-0.21	1.11	-	132,132,132,132	0
86	MG	5	4123	1/1	0.84	0.32	-	49,49,49,49	0
85	OHX	5	3552	7/7	0.97	0.18	-	108,108,108,108	0
85	OHX	1	3498	7/7	0.99	0.15	-	94,94,94,94	0
86	MG	5	3881	1/1	0.60	0.38	-	49,49,49,49	0
86	MG	5	3825	1/1	0.94	0.46	-	30,30,30,30	0
86	MG	6	2173	1/1	0.74	0.47	-	58,58,58,58	0
86	MG	5	4085	1/1	0.90	0.13	-	36,36,36,36	0
85	OHX	1	3493	7/7	0.98	0.11	-	102,102,102,102	0
85	OHX	5	3470	7/7	0.99	0.08	-	87,87,87,87	0
86	MG	1	4045	1/1	0.55	0.36	-	106,106,106,106	0
86	MG	5	3949	1/1	0.86	0.40	-	41,41,41,41	0
86	MG	5	3783	1/1	0.88	0.37	-	57,57,57,57	0
86	MG	5	4057	1/1	0.87	0.14	-	115,115,115,115	0
85	OHX	5	3643	7/7	0.92	0.22	-	133,133,133,133	0
86	MG	1	3847	1/1	0.96	0.19	-	71,71,71,71	0
85	OHX	1	3436	7/7	0.99	0.07	-	83,83,83,83	0
86	MG	5	4088	1/1	0.98	0.19	-	35,35,35,35	0
86	MG	2	2052	1/1	0.86	0.40	-	64,64,64,64	0
86	MG	1	4090	1/1	0.09	0.73	-	129,129,129,129	0
86	MG	6	2159	1/1	0.90	0.26	-	81,81,81,81	0
86	MG	5	4035	1/1	0.58	0.60	-	66,66,66,66	0
86	MG	5	4112	1/1	0.90	0.10	-	103,103,103,103	0
86	MG	5	4168	1/1	0.95	0.62	-	38,38,38,38	0
86	MG	1	3821	1/1	0.96	0.40	-	33,33,33,33	0
86	MG	8	220	1/1	0.96	0.19	-	41,41,41,41	0
86	MG	5	4005	1/1	0.89	0.23	-	61,61,61,61	0
85	OHX	5	3599	7/7	0.95	0.24	-	123,123,123,123	0
86	MG	m6	201	1/1	0.84	0.28	-	40,40,40,40	0
86	MG	5	3897	1/1	0.97	0.69	-	25,25,25,25	0
85	OHX	5	3662	7/7	0.96	0.31	-	129,129,129,129	0
85	OHX	1	3511	7/7	0.96	0.12	-	122,122,122,122	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	7	220	1/1	0.94	0.64	-	44,44,44,44	0
86	MG	1	3778	1/1	0.93	0.48	-	40,40,40,40	0
86	MG	O5	201	1/1	0.54	1.66	-	144,144,144,144	0
85	OHX	5	3723	7/7	0.96	0.34	-	128,128,128,128	0
86	MG	1	3925	1/1	0.65	0.46	-	73,73,73,73	0
86	MG	5	3871	1/1	0.88	0.65	-	35,35,35,35	0
86	MG	6	2179	1/1	0.70	0.81	-	55,55,55,55	0
85	OHX	1	3631	7/7	0.94	0.29	-	135,135,135,135	0
86	MG	8	228	1/1	0.90	0.37	-	44,44,44,44	0
86	MG	5	4118	1/1	0.91	0.34	-	52,52,52,52	0
85	OHX	6	1937	7/7	0.97	0.10	-	113,113,113,113	0
86	MG	5	3776	1/1	0.70	0.33	-	33,33,33,33	0
86	MG	5	4029	1/1	0.69	0.42	-	62,62,62,62	0
86	MG	1	4029	1/1	0.91	0.38	-	73,73,73,73	0
85	OHX	1	3565	7/7	0.93	0.26	-	138,138,138,138	0
86	MG	1	4074	1/1	0.87	0.22	-	48,48,48,48	0
85	OHX	6	2008	7/7	0.95	0.16	-	133,133,133,133	0
85	OHX	5	3735	7/7	0.96	0.27	-	158,158,158,158	0
85	OHX	5	3719	7/7	0.89	0.19	-	181,181,181,181	0
86	MG	1	3742	1/1	0.78	0.57	-	138,138,138,138	0
85	OHX	2	1990	7/7	0.96	0.20	-	169,169,169,169	0
85	OHX	6	1984	7/7	0.96	0.17	-	110,110,110,110	0
86	MG	1	3806	1/1	0.86	0.14	-	56,56,56,56	0
86	MG	1	3992	1/1	0.80	0.27	-	51,51,51,51	0
86	MG	3	215	1/1	0.95	0.29	-	39,39,39,39	0
86	MG	5	3758	1/1	0.95	0.31	-	37,37,37,37	0
86	MG	1	3894	1/1	0.90	0.32	-	42,42,42,42	0
85	OHX	2	1931	7/7	0.96	0.10	-	134,134,134,134	0
86	MG	5	3798	1/1	0.81	0.43	-	27,27,27,27	0
86	MG	1	4034	1/1	0.78	0.34	-	51,51,51,51	0
86	MG	5	4065	1/1	0.49	0.83	-	75,75,75,75	0
85	OHX	6	1948	7/7	0.96	0.11	-	131,131,131,131	0
85	OHX	6	1974	7/7	0.97	0.19	-	117,117,117,117	0
86	MG	5	3886	1/1	0.96	0.43	-	31,31,31,31	0
85	OHX	5	3612	7/7	0.97	0.30	-	129,129,129,129	0
86	MG	1	3987	1/1	0.80	0.22	-	70,70,70,70	0
85	OHX	5	3564	7/7	0.97	0.11	-	137,137,137,137	0
86	MG	5	3994	1/1	0.72	0.49	-	44,44,44,44	0
86	MG	2	2120	1/1	0.57	0.42	-	128,128,128,128	0
85	OHX	1	3674	7/7	0.97	0.12	-	102,102,102,102	0
86	MG	1	3968	1/1	0.91	0.50	-	47,47,47,47	0
86	MG	2	2131	1/1	0.62	0.72	-	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	4024	1/1	0.98	0.09	-	33,33,33,33	0
85	OHX	5	3661	7/7	0.95	0.26	-	122,122,122,122	0
85	OHX	2	1989	7/7	0.97	0.18	-	109,109,109,109	0
86	MG	1	3754	1/1	0.87	0.13	-	89,89,89,89	0
86	MG	2	2063	1/1	0.49	0.45	-	70,70,70,70	0
85	OHX	5	3712	7/7	0.94	0.24	-	148,148,148,148	0
85	OHX	1	3696	7/7	0.95	0.44	-	139,139,139,139	0
85	OHX	5	3447	7/7	0.99	0.09	-	73,73,73,73	0
86	MG	5	4142	1/1	0.92	0.33	-	53,53,53,53	0
85	OHX	1	3658	7/7	0.97	0.22	-	124,124,124,124	0
86	MG	5	3873	1/1	0.94	0.38	-	36,36,36,36	0
85	OHX	2	1959	7/7	0.94	0.19	-	133,133,133,133	0
86	MG	2	2098	1/1	0.35	0.43	-	135,135,135,135	0
86	MG	O7	104	1/1	0.85	0.77	-	58,58,58,58	0
85	OHX	2	1977	7/7	0.96	0.14	-	113,113,113,113	0
85	OHX	6	1930	7/7	0.98	0.10	-	99,99,99,99	0
86	MG	2	2115	1/1	0.88	0.71	-	79,79,79,79	0
85	OHX	2	2042	7/7	0.96	0.36	-	130,130,130,130	0
86	MG	5	3976	1/1	0.90	0.19	-	42,42,42,42	0
86	MG	5	4004	1/1	0.83	0.21	-	53,53,53,53	0
86	MG	5	4147	1/1	0.63	0.52	-	88,88,88,88	0
86	MG	7	217	1/1	0.97	0.57	-	28,28,28,28	0
86	MG	5	3989	1/1	0.79	0.37	-	50,50,50,50	0
86	MG	m6	204	1/1	0.88	0.14	-	43,43,43,43	0
85	OHX	2	2030	7/7	0.90	0.22	-	179,179,179,179	0
86	MG	1	3747	1/1	0.91	0.34	-	40,40,40,40	0
86	MG	1	4043	1/1	0.87	0.34	-	52,52,52,52	0
86	MG	1	3927	1/1	0.81	0.34	-	52,52,52,52	0
86	MG	1	4036	1/1	0.89	0.32	-	58,58,58,58	0
86	MG	5	4006	1/1	0.88	0.21	-	44,44,44,44	0
85	OHX	6	2040	7/7	0.93	0.29	-	137,137,137,137	0
86	MG	5	3893	1/1	0.90	0.34	-	48,48,48,48	0
85	OHX	C3	201	7/7	0.95	0.16	-	150,150,150,150	0
85	OHX	1	3560	7/7	0.93	0.19	-	145,145,145,145	0
85	OHX	5	3638	7/7	0.96	0.19	-	130,130,130,130	0
86	MG	7	223	1/1	0.89	0.12	-	71,71,71,71	0
86	MG	M3	201	1/1	0.68	0.48	-	94,94,94,94	0
86	MG	6	2075	1/1	0.97	0.46	-	61,61,61,61	0
86	MG	1	3784	1/1	0.97	0.31	-	32,32,32,32	0
85	OHX	2	2028	7/7	0.92	0.39	-	175,175,175,175	0
86	MG	2	2102	1/1	0.91	0.50	-	79,79,79,79	0
86	MG	5	4053	1/1	0.89	0.60	-	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	1	3602	7/7	0.95	0.14	-	137,137,137,137	0
86	MG	6	2172	1/1	0.98	0.32	-	74,74,74,74	0
85	OHX	5	3656	7/7	0.93	0.28	-	151,151,151,151	0
86	MG	2	2056	1/1	0.85	0.47	-	57,57,57,57	0
86	MG	5	3816	1/1	0.88	0.23	-	37,37,37,37	0
86	MG	L4	402	1/1	0.85	0.26	-	35,35,35,35	0
85	OHX	5	3476	7/7	0.96	0.10	-	104,104,104,104	0
86	MG	5	4150	1/1	0.96	0.16	-	79,79,79,79	0
86	MG	1	3809	1/1	0.88	0.40	-	41,41,41,41	0
86	MG	1	3739	1/1	0.93	0.48	-	52,52,52,52	0
86	MG	1	3965	1/1	0.95	0.15	-	44,44,44,44	0
86	MG	1	3899	1/1	0.96	0.64	-	43,43,43,43	0
86	MG	5	3967	1/1	0.91	0.22	-	54,54,54,54	0
86	MG	2	2090	1/1	0.76	0.50	-	72,72,72,72	0
86	MG	1	3824	1/1	0.91	0.47	-	40,40,40,40	0
85	OHX	1	3453	7/7	0.98	0.09	-	94,94,94,94	0
86	MG	1	4089	1/1	0.60	0.59	-	56,56,56,56	0
86	MG	1	3952	1/1	0.88	0.29	-	50,50,50,50	0
86	MG	5	3766	1/1	0.91	0.21	-	88,88,88,88	0
86	MG	5	4100	1/1	0.88	0.21	-	40,40,40,40	0
86	MG	6	2079	1/1	0.94	0.21	-	48,48,48,48	0
85	OHX	1	3655	7/7	0.97	0.40	-	115,115,115,115	0
86	MG	1	3940	1/1	0.90	0.32	-	65,65,65,65	0
86	MG	6	2105	1/1	0.91	0.59	-	42,42,42,42	0
86	MG	5	4134	1/1	0.78	0.60	-	69,69,69,69	0
85	OHX	1	3704	7/7	0.83	0.30	-	190,190,190,190	0
86	MG	6	2088	1/1	0.96	0.26	-	45,45,45,45	0
86	MG	6	2177	1/1	0.90	0.27	-	99,99,99,99	0
86	MG	5	3980	1/1	0.66	0.44	-	46,46,46,46	0
86	MG	1	4079	1/1	0.55	0.26	-	82,82,82,82	0
85	OHX	5	3446	7/7	0.98	0.08	-	85,85,85,85	0
85	OHX	8	214	7/7	0.95	0.22	-	142,142,142,142	0
85	OHX	1	3444	7/7	0.98	0.08	-	92,92,92,92	0
86	MG	5	4068	1/1	0.89	0.35	-	36,36,36,36	0
86	MG	s6	301	1/1	0.92	0.43	-	105,105,105,105	0
86	MG	6	2077	1/1	0.85	0.26	-	62,62,62,62	0
86	MG	1	3906	1/1	0.93	0.41	-	24,24,24,24	0
85	OHX	2	2037	7/7	0.72	0.20	-	242,242,242,242	0
85	OHX	1	3678	7/7	0.96	0.27	-	116,116,116,116	0
86	MG	1	4092	1/1	0.93	0.45	-	44,44,44,44	0
86	MG	N4	201	1/1	-0.09	0.70	-	142,142,142,142	0
86	MG	6	2103	1/1	0.94	0.59	-	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	5	3726	7/7	0.94	0.39	-	151,151,151,151	0
85	OHX	1	3614	7/7	0.97	0.37	-	110,110,110,110	0
86	MG	1	3939	1/1	0.81	0.23	-	65,65,65,65	0
86	MG	M7	207	1/1	0.81	0.38	-	56,56,56,56	0
86	MG	1	3757	1/1	0.89	0.30	-	42,42,42,42	0
85	OHX	1	3681	7/7	0.97	0.40	-	131,131,131,131	0
86	MG	5	4136	1/1	0.72	1.05	-	55,55,55,55	0
86	MG	1	3958	1/1	0.95	0.56	-	42,42,42,42	0
86	MG	5	3870	1/1	0.93	0.43	-	43,43,43,43	0
86	MG	6	2156	1/1	0.60	0.45	-	81,81,81,81	0
85	OHX	1	3524	7/7	0.98	0.17	-	109,109,109,109	0
85	OHX	1	3637	7/7	0.98	0.21	-	132,132,132,132	0
86	MG	5	3818	1/1	0.97	0.39	-	51,51,51,51	0
85	OHX	4	206	7/7	0.96	0.27	-	103,103,103,103	0
86	MG	2	2067	1/1	0.95	0.55	-	71,71,71,71	0
86	MG	6	2163	1/1	0.78	0.54	-	79,79,79,79	0
86	MG	1	4119	1/1	0.98	0.36	-	31,31,31,31	0
86	MG	2	2108	1/1	0.78	0.60	-	73,73,73,73	0
86	MG	6	2167	1/1	0.90	0.28	-	60,60,60,60	0
86	MG	L9	201	1/1	0.83	0.40	-	57,57,57,57	0
86	MG	6	2095	1/1	0.92	0.32	-	47,47,47,47	0
86	MG	5	4164	1/1	0.87	0.67	-	45,45,45,45	0
86	MG	1	3802	1/1	0.77	0.24	-	93,93,93,93	0
86	MG	5	3827	1/1	0.81	0.28	-	45,45,45,45	0
86	MG	D3	201	1/1	0.78	0.20	-	64,64,64,64	0
85	OHX	5	3491	7/7	0.99	0.11	-	118,118,118,118	0
86	MG	1	3923	1/1	0.95	0.33	-	40,40,40,40	0
85	OHX	5	3568	7/7	0.96	0.19	-	146,146,146,146	0
86	MG	5	3865	1/1	0.96	0.33	-	30,30,30,30	0
86	MG	5	4054	1/1	0.92	0.31	-	56,56,56,56	0
86	MG	6	2174	1/1	0.91	0.88	-	62,62,62,62	0
86	MG	1	3852	1/1	0.90	0.33	-	37,37,37,37	0
86	MG	1	3938	1/1	0.93	0.32	-	60,60,60,60	0
85	OHX	c3	201	7/7	0.96	0.24	-	144,144,144,144	0
85	OHX	1	3708	7/7	0.90	0.52	-	152,152,152,152	0
86	MG	1	3892	1/1	0.91	0.33	-	44,44,44,44	0
86	MG	1	4016	1/1	0.84	0.28	-	61,61,61,61	0
86	MG	1	4064	1/1	0.63	0.23	-	81,81,81,81	0
85	OHX	1	3622	7/7	0.97	0.29	-	119,119,119,119	0
85	OHX	5	3513	7/7	0.98	0.11	-	101,101,101,101	0
85	OHX	5	3619	7/7	0.97	0.26	-	109,109,109,109	0
85	OHX	5	3463	7/7	0.98	0.08	-	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	4041	1/1	0.89	0.67	-	47,47,47,47	0
86	MG	5	3909	1/1	0.92	0.48	-	25,25,25,25	0
86	MG	1	3935	1/1	0.91	0.24	-	36,36,36,36	0
86	MG	14	403	1/1	0.37	0.62	-	52,52,52,52	0
85	OHX	5	3746	7/7	0.89	0.28	-	172,172,172,172	0
86	MG	1	3780	1/1	0.95	0.44	-	42,42,42,42	0
85	OHX	6	2024	7/7	0.93	0.33	-	142,142,142,142	0
85	OHX	5	3421	7/7	0.99	0.10	-	67,67,67,67	0
86	MG	1	3926	1/1	0.97	0.24	-	48,48,48,48	0
86	MG	5	4018	1/1	0.80	0.75	-	54,54,54,54	0
85	OHX	2	2033	7/7	0.93	0.27	-	138,138,138,138	0
85	OHX	4	209	7/7	0.96	0.13	-	140,140,140,140	0
86	MG	1	4086	1/1	0.87	0.57	-	55,55,55,55	0
86	MG	2	2132	1/1	0.68	0.43	-	70,70,70,70	0
85	OHX	5	3742	7/7	0.94	0.30	-	127,127,127,127	0
86	MG	3	216	1/1	0.93	0.32	-	71,71,71,71	0
85	OHX	5	3655	7/7	0.94	0.40	-	100,100,100,100	0
86	MG	5	4144	1/1	0.76	0.32	-	85,85,85,85	0
86	MG	6	2118	1/1	0.88	0.27	-	59,59,59,59	0
85	OHX	5	3436	7/7	0.99	0.09	-	66,66,66,66	0
86	MG	5	4145	1/1	0.93	0.17	-	38,38,38,38	0
86	MG	6	2124	1/1	0.91	0.34	-	54,54,54,54	0
86	MG	M9	202	1/1	0.87	0.33	-	74,74,74,74	0
85	OHX	5	3704	7/7	0.96	0.20	-	100,100,100,100	0
85	OHX	6	2035	7/7	0.93	0.41	-	144,144,144,144	0
86	MG	4	225	1/1	0.96	0.38	-	41,41,41,41	0
86	MG	5	3985	1/1	0.86	0.42	-	44,44,44,44	0
85	OHX	1	3554	7/7	0.97	0.18	-	109,109,109,109	0
86	MG	5	3777	1/1	0.85	0.17	-	44,44,44,44	0
85	OHX	M9	201	7/7	0.93	0.31	-	163,163,163,163	0
86	MG	1	3781	1/1	0.93	0.23	-	45,45,45,45	0
86	MG	5	3921	1/1	0.94	0.32	-	28,28,28,28	0
85	OHX	1	3638	7/7	0.97	0.16	-	126,126,126,126	0
86	MG	1	3964	1/1	0.92	0.36	-	51,51,51,51	0
85	OHX	5	3451	7/7	0.98	0.09	-	96,96,96,96	0
86	MG	1	3916	1/1	0.93	0.19	-	46,46,46,46	0
85	OHX	6	1959	7/7	0.96	0.15	-	110,110,110,110	0
86	MG	1	4002	1/1	0.99	0.10	-	43,43,43,43	0
86	MG	5	3943	1/1	0.88	0.18	-	65,65,65,65	0
86	MG	5	4078	1/1	0.87	0.28	-	32,32,32,32	0
86	MG	5	4074	1/1	0.88	0.37	-	51,51,51,51	0
86	MG	C2	206	1/1	-0.17	1.21	-	170,170,170,170	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	4031	1/1	0.92	0.22	-	62,62,62,62	0
86	MG	1	3949	1/1	0.71	0.74	-	43,43,43,43	0
85	OHX	1	3618	7/7	0.96	0.24	-	125,125,125,125	0
86	MG	2	2066	1/1	0.94	0.73	-	98,98,98,98	0
86	MG	1	3996	1/1	0.86	0.24	-	47,47,47,47	0
86	MG	5	4169	1/1	0.95	0.30	-	34,34,34,34	0
86	MG	1	4103	1/1	0.64	0.41	-	51,51,51,51	0
86	MG	5	3860	1/1	0.94	0.19	-	37,37,37,37	0
86	MG	1	3749	1/1	0.79	0.49	-	66,66,66,66	0
86	MG	6	2055	1/1	0.89	0.50	-	51,51,51,51	0
85	OHX	2	1968	7/7	0.96	0.31	-	130,130,130,130	0
86	MG	6	2052	1/1	0.81	0.67	-	49,49,49,49	0
86	MG	5	4138	1/1	0.83	0.53	-	62,62,62,62	0
85	OHX	5	3574	7/7	0.98	0.18	-	110,110,110,110	0
86	MG	2	2088	1/1	0.96	0.54	-	101,101,101,101	0
86	MG	1	3798	1/1	0.90	0.34	-	41,41,41,41	0
86	MG	1	4021	1/1	0.19	0.32	-	77,77,77,77	0
86	MG	5	3992	1/1	0.94	0.16	-	29,29,29,29	0
86	MG	5	4042	1/1	0.64	0.76	-	35,35,35,35	0
85	OHX	5	3741	7/7	0.95	0.35	-	127,127,127,127	0
86	MG	5	3863	1/1	0.98	0.43	-	26,26,26,26	0
85	OHX	1	3463	7/7	0.98	0.10	-	84,84,84,84	0
86	MG	m0	304	1/1	0.88	0.26	-	88,88,88,88	0
86	MG	7	219	1/1	0.86	0.35	-	50,50,50,50	0
86	MG	5	4128	1/1	0.88	0.15	-	87,87,87,87	0
86	MG	5	4117	1/1	0.89	0.49	-	48,48,48,48	0
85	OHX	5	3469	7/7	0.98	0.12	-	92,92,92,92	0
86	MG	2	2069	1/1	0.89	0.41	-	67,67,67,67	0
85	OHX	1	3507	7/7	0.98	0.11	-	106,106,106,106	0
86	MG	5	3872	1/1	0.87	0.43	-	30,30,30,30	0
85	OHX	5	3523	7/7	0.98	0.22	-	116,116,116,116	0
85	OHX	5	3601	7/7	0.97	0.27	-	112,112,112,112	0
86	MG	5	3952	1/1	0.97	0.22	-	38,38,38,38	0
85	OHX	1	3644	7/7	0.94	0.28	-	126,126,126,126	0
86	MG	1	4011	1/1	0.76	0.30	-	41,41,41,41	0
86	MG	5	3998	1/1	0.81	0.43	-	76,76,76,76	0
85	OHX	6	2023	7/7	0.93	0.25	-	155,155,155,155	0
85	OHX	5	3629	7/7	0.96	0.18	-	135,135,135,135	0
86	MG	MG	2196	1/1	0.02	0.45	-	77,77,77,77	0
86	MG	5	3759	1/1	0.88	0.50	-	36,36,36,36	0
85	OHX	2	2011	7/7	0.94	0.18	-	161,161,161,161	0
85	OHX	1	3628	7/7	0.95	0.21	-	146,146,146,146	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	5	3680	7/7	0.95	0.26	-	132,132,132,132	0
86	MG	6	2107	1/1	0.95	0.19	-	48,48,48,48	0
85	OHX	5	3571	7/7	0.97	0.11	-	113,113,113,113	0
86	MG	1	4091	1/1	0.70	0.37	-	41,41,41,41	0
86	MG	6	2140	1/1	0.91	0.28	-	61,61,61,61	0
85	OHX	5	3652	7/7	0.92	0.27	-	126,126,126,126	0
86	MG	1	3848	1/1	0.92	0.18	-	32,32,32,32	0
86	MG	6	2129	1/1	0.94	0.32	-	54,54,54,54	0
86	MG	1	4125	1/1	0.88	0.37	-	64,64,64,64	0
86	MG	1	3883	1/1	0.96	0.57	-	51,51,51,51	0
85	OHX	5	3636	7/7	0.94	0.15	-	162,162,162,162	0
86	MG	5	3938	1/1	0.97	0.23	-	33,33,33,33	0
85	OHX	6	1942	7/7	0.97	0.12	-	112,112,112,112	0
86	MG	5	3974	1/1	0.69	0.49	-	58,58,58,58	0
86	MG	1	3889	1/1	0.90	0.23	-	36,36,36,36	0
85	OHX	6	1975	7/7	0.97	0.40	-	109,109,109,109	0
86	MG	6	2154	1/1	0.43	0.43	-	92,92,92,92	0
86	MG	4	215	1/1	0.91	0.55	-	51,51,51,51	0
85	OHX	5	3573	7/7	0.97	0.25	-	131,131,131,131	0
85	OHX	1	3729	7/7	0.95	0.26	-	134,134,134,134	0
86	MG	m3	201	1/1	0.88	0.26	-	35,35,35,35	0
86	MG	5	3931	1/1	0.95	0.20	-	48,48,48,48	0
86	MG	1	3793	1/1	0.89	0.47	-	46,46,46,46	0
85	OHX	1	3684	7/7	0.93	0.28	-	139,139,139,139	0
86	MG	1	3937	1/1	0.92	0.20	-	57,57,57,57	0
86	MG	5	3789	1/1	0.92	0.26	-	36,36,36,36	0
86	MG	1	3891	1/1	0.94	0.66	-	36,36,36,36	0
85	OHX	1	3457	7/7	0.98	0.12	-	91,91,91,91	0
86	MG	1	3957	1/1	0.80	0.44	-	55,55,55,55	0
85	OHX	1	3568	7/7	0.97	0.20	-	131,131,131,131	0
85	OHX	1	3718	7/7	0.81	0.26	-	204,204,204,204	0
86	MG	MG	2215	1/1	-0.32	0.43	-	126,126,126,126	0
85	OHX	1	3613	7/7	0.95	0.22	-	123,123,123,123	0
86	MG	5	3829	1/1	0.86	0.49	-	54,54,54,54	0
86	MG	5	4052	1/1	0.78	0.27	-	75,75,75,75	0
86	MG	1	3963	1/1	0.85	0.43	-	70,70,70,70	0
86	MG	6	2161	1/1	0.06	0.57	-	149,149,149,149	0
86	MG	5	3934	1/1	0.78	0.56	-	44,44,44,44	0
85	OHX	6	1969	7/7	0.97	0.25	-	120,120,120,120	0
86	MG	1	3930	1/1	0.95	0.36	-	51,51,51,51	0
86	MG	1	3986	1/1	0.82	0.37	-	42,42,42,42	0
85	OHX	5	3670	7/7	0.94	0.34	-	126,126,126,126	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3862	1/1	0.90	0.40	-	40,40,40,40	0
86	MG	5	3996	1/1	0.83	0.35	-	56,56,56,56	0
86	MG	2	2126	1/1	0.94	0.29	-	82,82,82,82	0
86	MG	5	4073	1/1	0.62	0.24	-	72,72,72,72	0
86	MG	1	3741	1/1	0.89	0.39	-	60,60,60,60	0
86	MG	1	4113	1/1	0.94	0.38	-	34,34,34,34	0
86	MG	6	2069	1/1	0.86	0.44	-	71,71,71,71	0
85	OHX	1	3472	7/7	0.99	0.10	-	92,92,92,92	0
86	MG	5	4141	1/1	0.85	0.34	-	28,28,28,28	0
86	MG	5	3813	1/1	0.88	0.76	-	48,48,48,48	0
85	OHX	4	204	7/7	0.98	0.11	-	108,108,108,108	0
86	MG	1	3860	1/1	0.92	0.26	-	45,45,45,45	0
85	OHX	5	3714	7/7	0.95	0.26	-	144,144,144,144	0
86	MG	2	2044	1/1	0.92	0.27	-	38,38,38,38	0
86	MG	1	4093	1/1	0.58	0.82	-	78,78,78,78	0
86	MG	1	4100	1/1	0.95	0.14	-	45,45,45,45	0
86	MG	5	4132	1/1	0.88	0.40	-	35,35,35,35	0
85	OHX	6	2010	7/7	0.95	0.30	-	146,146,146,146	0
86	MG	5	3806	1/1	0.79	0.44	-	57,57,57,57	0
86	MG	1	3875	1/1	0.97	0.34	-	54,54,54,54	0
86	MG	5	3995	1/1	0.70	0.39	-	47,47,47,47	0
87	ZN	D7	101	1/1	0.55	0.34	-	147,147,147,147	0
86	MG	L3	403	1/1	0.95	0.15	-	38,38,38,38	0
86	MG	M7	204	1/1	0.88	0.30	-	43,43,43,43	0
86	MG	1	4069	1/1	0.89	0.76	-	69,69,69,69	0
85	OHX	5	3733	7/7	0.95	0.29	-	148,148,148,148	0
85	OHX	6	2037	7/7	0.92	0.38	-	146,146,146,146	0
86	MG	C2	204	1/1	0.35	0.88	-	69,69,69,69	0
86	MG	5	3796	1/1	0.90	0.30	-	38,38,38,38	0
86	MG	1	4010	1/1	0.70	0.47	-	35,35,35,35	0
86	MG	5	4017	1/1	-0.34	0.33	-	131,131,131,131	0
86	MG	1	3823	1/1	0.94	0.14	-	40,40,40,40	0
86	MG	5	3781	1/1	0.97	0.39	-	30,30,30,30	0
86	MG	6	2096	1/1	0.79	0.80	-	73,73,73,73	0
86	MG	5	4044	1/1	0.61	0.42	-	46,46,46,46	0
86	MG	2	2086	1/1	0.97	0.11	-	65,65,65,65	0
86	MG	1	4098	1/1	0.69	0.28	-	106,106,106,106	0
86	MG	1	4058	1/1	0.63	0.59	-	70,70,70,70	0
85	OHX	1	3653	7/7	0.95	0.36	-	119,119,119,119	0
86	MG	3	217	1/1	0.38	0.72	-	66,66,66,66	0
86	MG	5	4158	1/1	0.68	0.61	-	52,52,52,52	0
86	MG	1	4107	1/1	0.46	0.48	-	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	1	3859	1/1	0.81	0.35	-	48,48,48,48	0
86	MG	1	3816	1/1	0.88	0.24	-	40,40,40,40	0
86	MG	5	3843	1/1	0.88	0.69	-	37,37,37,37	0
86	MG	5	4049	1/1	0.87	0.46	-	54,54,54,54	0
86	MG	1	4073	1/1	0.74	0.32	-	47,47,47,47	0
86	MG	1	4006	1/1	0.93	0.23	-	48,48,48,48	0
85	OHX	1	3458	7/7	0.98	0.07	-	96,96,96,96	0
86	MG	1	3783	1/1	0.63	0.91	-	65,65,65,65	0
86	MG	1	4052	1/1	0.80	0.29	-	49,49,49,49	0
85	OHX	1	3455	7/7	0.98	0.12	-	91,91,91,91	0
86	MG	5	3795	1/1	0.93	0.28	-	36,36,36,36	0
86	MG	5	4106	1/1	0.86	0.20	-	64,64,64,64	0
86	MG	6	2168	1/1	0.92	0.28	-	44,44,44,44	0
85	OHX	1	3604	7/7	0.95	0.27	-	129,129,129,129	0
86	MG	2	2072	1/1	0.71	0.40	-	62,62,62,62	0
85	OHX	5	3555	7/7	0.96	0.41	-	104,104,104,104	0
86	MG	6	2157	1/1	0.90	0.57	-	49,49,49,49	0
86	MG	1	4051	1/1	0.85	0.42	-	44,44,44,44	0
85	OHX	5	3647	7/7	0.94	0.31	-	117,117,117,117	0
86	MG	5	3842	1/1	0.95	0.32	-	33,33,33,33	0
86	MG	1	3829	1/1	0.83	0.50	-	43,43,43,43	0
86	MG	5	3984	1/1	0.75	0.39	-	30,30,30,30	0
86	MG	2	2114	1/1	0.64	0.62	-	67,67,67,67	0
85	OHX	2	1958	7/7	0.93	0.25	-	170,170,170,170	0
85	OHX	6	1935	7/7	0.98	0.12	-	98,98,98,98	0
86	MG	5	3901	1/1	0.87	0.32	-	40,40,40,40	0
85	OHX	5	3603	7/7	0.93	0.37	-	134,134,134,134	0
86	MG	1	4111	1/1	-0.01	0.99	-	145,145,145,145	0
85	OHX	5	3620	7/7	0.96	0.26	-	138,138,138,138	0
86	MG	5	3811	1/1	0.84	0.23	-	39,39,39,39	0
85	OHX	6	2026	7/7	0.94	0.25	-	158,158,158,158	0
86	MG	6	2080	1/1	0.71	1.05	-	69,69,69,69	0
86	MG	1	3895	1/1	0.93	0.24	-	29,29,29,29	0
86	MG	C2	205	1/1	-0.68	1.56	-	170,170,170,170	0
85	OHX	5	3448	7/7	0.99	0.08	-	69,69,69,69	0
86	MG	2	2096	1/1	0.87	0.48	-	66,66,66,66	0
86	MG	5	4096	1/1	0.83	0.27	-	36,36,36,36	0
86	MG	1	3900	1/1	0.95	0.45	-	27,27,27,27	0
85	OHX	1	3541	7/7	0.95	0.24	-	119,119,119,119	0
86	MG	1	4020	1/1	0.93	0.53	-	39,39,39,39	0
86	MG	5	3957	1/1	0.86	0.30	-	83,83,83,83	0
86	MG	S8	302	1/1	0.45	0.53	-	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
85	OHX	2	1906	7/7	0.98	0.14	-	103,103,103,103	0
86	MG	1	3873	1/1	0.94	0.54	-	32,32,32,32	0
86	MG	5	4016	1/1	0.99	0.15	-	40,40,40,40	0
85	OHX	6	1936	7/7	0.99	0.09	-	112,112,112,112	0
86	MG	M4	201	1/1	0.94	0.24	-	49,49,49,49	0
86	MG	6	2165	1/1	0.93	0.60	-	70,70,70,70	0
86	MG	6	2102	1/1	0.86	1.71	-	68,68,68,68	0
85	OHX	6	1950	7/7	0.98	0.11	-	123,123,123,123	0
86	MG	2	2111	1/1	0.33	0.38	-	77,77,77,77	0
86	MG	1	3945	1/1	0.83	0.22	-	43,43,43,43	0
86	MG	2	2106	1/1	0.80	0.27	-	103,103,103,103	0
86	MG	5	3787	1/1	0.83	0.32	-	34,34,34,34	0
85	OHX	2	2032	7/7	0.91	0.27	-	168,168,168,168	0
86	MG	5	4059	1/1	0.65	0.47	-	74,74,74,74	0
85	OHX	6	1998	7/7	0.95	0.33	-	127,127,127,127	0
85	OHX	2	2016	7/7	0.95	0.21	-	149,149,149,149	0
86	MG	5	4056	1/1	0.75	0.20	-	57,57,57,57	0
85	OHX	5	3687	7/7	0.93	0.42	-	130,130,130,130	0
86	MG	2	2058	1/1	0.92	0.55	-	58,58,58,58	0
86	MG	5	4028	1/1	0.93	0.22	-	41,41,41,41	0
86	MG	6	2104	1/1	0.74	0.70	-	63,63,63,63	0
86	MG	SM	301	1/1	0.67	0.42	-	57,57,57,57	0
86	MG	1	3918	1/1	0.94	0.59	-	47,47,47,47	0
86	MG	C2	202	1/1	0.47	0.79	-	88,88,88,88	0
86	MG	5	4083	1/1	0.91	0.23	-	44,44,44,44	0
86	MG	5	4114	1/1	0.69	0.23	-	59,59,59,59	0
86	MG	1	3792	1/1	0.99	0.34	-	60,60,60,60	0
86	MG	1	4019	1/1	0.66	0.26	-	51,51,51,51	0
86	MG	5	3953	1/1	0.73	0.41	-	43,43,43,43	0
86	MG	5	3965	1/1	0.80	0.47	-	56,56,56,56	0
85	OHX	1	3722	7/7	0.97	0.30	-	139,139,139,139	0
86	MG	2	2070	1/1	0.83	0.54	-	62,62,62,62	0
85	OHX	5	3411	7/7	0.99	0.12	-	44,44,44,44	0
86	MG	1	3799	1/1	0.81	0.31	-	50,50,50,50	0
85	OHX	5	3566	7/7	0.95	0.27	-	121,121,121,121	0
86	MG	1	3849	1/1	0.94	0.40	-	42,42,42,42	0
85	OHX	5	3659	7/7	0.98	0.17	-	112,112,112,112	0
85	OHX	2	2026	7/7	0.92	0.23	-	168,168,168,168	0
86	MG	5	3841	1/1	0.83	0.29	-	53,53,53,53	0
85	OHX	5	3654	7/7	0.94	0.40	-	134,134,134,134	0
86	MG	5	4048	1/1	0.65	0.12	-	106,106,106,106	0
86	MG	5	3879	1/1	0.97	0.14	-	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	3961	1/1	0.89	0.23	-	38,38,38,38	0
86	MG	5	3933	1/1	0.88	0.28	-	61,61,61,61	0
86	MG	5	3936	1/1	0.93	0.55	-	55,55,55,55	0
86	MG	5	3956	1/1	0.83	0.30	-	34,34,34,34	0
85	OHX	6	1938	7/7	0.98	0.09	-	110,110,110,110	0
86	MG	1	3928	1/1	0.86	0.38	-	44,44,44,44	0
86	MG	5	3802	1/1	0.93	0.24	-	31,31,31,31	0
86	MG	M6	201	1/1	0.80	0.17	-	39,39,39,39	0
86	MG	1	4071	1/1	0.84	0.34	-	38,38,38,38	0
85	OHX	1	3662	7/7	0.95	0.17	-	146,146,146,146	0
86	MG	5	3940	1/1	0.95	0.27	-	48,48,48,48	0
85	OHX	5	3586	7/7	0.98	0.30	-	105,105,105,105	0
86	MG	6	2087	1/1	0.83	0.33	-	45,45,45,45	0
86	MG	1	3811	1/1	0.70	0.42	-	53,53,53,53	0
86	MG	1	3779	1/1	0.89	0.36	-	53,53,53,53	0
86	MG	5	3911	1/1	0.92	0.41	-	30,30,30,30	0
86	MG	Q2	503	1/1	0.93	0.28	-	68,68,68,68	0
86	MG	5	3791	1/1	0.91	0.59	-	29,29,29,29	0
86	MG	6	2169	1/1	0.69	0.41	-	70,70,70,70	0
85	OHX	3	211	7/7	0.93	0.32	-	165,165,165,165	0
85	OHX	5	3736	7/7	0.95	0.35	-	141,141,141,141	0
86	MG	6	2178	1/1	0.57	0.64	-	56,56,56,56	0
85	OHX	6	2018	7/7	0.93	0.24	-	174,174,174,174	0
86	MG	1	3948	1/1	0.94	0.31	-	41,41,41,41	0
86	MG	6	2084	1/1	0.99	0.40	-	48,48,48,48	0
85	OHX	2	2018	7/7	0.95	0.37	-	151,151,151,151	0
85	OHX	1	3626	7/7	0.95	0.28	-	152,152,152,152	0
86	MG	5	4026	1/1	0.63	0.41	-	54,54,54,54	0
86	MG	5	3914	1/1	0.94	0.33	-	31,31,31,31	0
86	MG	5	4131	1/1	0.85	1.00	-	86,86,86,86	0
86	MG	5	4129	1/1	0.84	0.49	-	66,66,66,66	0
85	OHX	2	1930	7/7	0.97	0.18	-	118,118,118,118	0
86	MG	1	3998	1/1	0.87	0.28	-	60,60,60,60	0
85	OHX	5	3744	7/7	0.92	0.17	-	134,134,134,134	0
86	MG	1	4115	1/1	0.91	0.51	-	29,29,29,29	0
86	MG	6	2066	1/1	0.84	0.58	-	66,66,66,66	0
86	MG	5	4151	1/1	0.94	0.13	-	99,99,99,99	0
86	MG	5	4116	1/1	0.63	0.44	-	67,67,67,67	0
85	OHX	1	3480	7/7	0.98	0.12	-	105,105,105,105	0
86	MG	MG	2207	1/1	0.31	1.19	-	109,109,109,109	0
86	MG	1	4085	1/1	0.87	0.31	-	47,47,47,47	0
86	MG	1	3950	1/1	0.79	0.45	-	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	4058	1/1	0.87	0.19	-	35,35,35,35	0
85	OHX	1	3557	7/7	0.96	0.27	-	113,113,113,113	0
86	MG	5	3896	1/1	0.92	0.55	-	29,29,29,29	0
86	MG	6	2138	1/1	0.84	0.27	-	67,67,67,67	0
86	MG	1	3788	1/1	0.89	0.38	-	32,32,32,32	0
86	MG	5	3856	1/1	0.85	0.30	-	38,38,38,38	0
86	MG	6	2152	1/1	0.98	0.13	-	70,70,70,70	0
86	MG	5	4171	1/1	0.81	0.72	-	35,35,35,35	0
85	OHX	1	3617	7/7	0.97	0.38	-	129,129,129,129	0
86	MG	5	4082	1/1	0.73	0.44	-	66,66,66,66	0
86	MG	5	3923	1/1	0.93	0.35	-	36,36,36,36	0
86	MG	5	4121	1/1	0.87	0.69	-	44,44,44,44	0
86	MG	1	4099	1/1	0.83	0.13	-	52,52,52,52	0
86	MG	1	4039	1/1	0.84	0.26	-	44,44,44,44	0
85	OHX	3	207	7/7	0.97	0.17	-	118,118,118,118	0
86	MG	7	216	1/1	0.94	0.37	-	68,68,68,68	0
85	OHX	5	3732	7/7	0.95	0.32	-	127,127,127,127	0
86	MG	7	218	1/1	0.95	0.26	-	35,35,35,35	0
86	MG	5	3905	1/1	0.98	0.45	-	27,27,27,27	0
85	OHX	2	1994	7/7	0.94	0.34	-	152,152,152,152	0
85	OHX	1	3706	7/7	0.94	0.29	-	110,110,110,110	0
86	MG	6	2142	1/1	0.91	0.15	-	57,57,57,57	0
85	OHX	1	3563	7/7	0.98	0.14	-	119,119,119,119	0
86	MG	1	3877	1/1	0.80	0.46	-	35,35,35,35	0
86	MG	1	3919	1/1	0.64	1.09	-	67,67,67,67	0
86	MG	5	3937	1/1	0.94	0.38	-	34,34,34,34	0
85	OHX	5	3506	7/7	0.97	0.12	-	104,104,104,104	0
85	OHX	1	3505	7/7	0.98	0.08	-	124,124,124,124	0
86	MG	1	4001	1/1	0.89	0.17	-	51,51,51,51	0
85	OHX	2	1952	7/7	0.97	0.28	-	119,119,119,119	0
85	OHX	5	3478	7/7	0.98	0.11	-	96,96,96,96	0
86	MG	5	3962	1/1	0.92	0.46	-	42,42,42,42	0
86	MG	5	3978	1/1	0.88	0.34	-	30,30,30,30	0
86	MG	5	3988	1/1	0.72	0.24	-	68,68,68,68	0
86	MG	5	3793	1/1	0.78	0.35	-	46,46,46,46	0
85	OHX	1	3685	7/7	0.92	0.30	-	128,128,128,128	0
86	MG	2	2048	1/1	0.74	0.55	-	73,73,73,73	0
86	MG	1	3936	1/1	0.91	0.32	-	66,66,66,66	0
86	MG	5	3775	1/1	0.94	0.27	-	34,34,34,34	0
85	OHX	5	3591	7/7	0.99	0.22	-	118,118,118,118	0
86	MG	5	3826	1/1	0.85	0.48	-	51,51,51,51	0
86	MG	5	3790	1/1	0.94	0.32	-	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
85	OHX	1	3675	7/7	0.96	0.26	-	122,122,122,122	0
86	MG	1	4070	1/1	0.35	0.13	-	203,203,203,203	0
86	MG	1	4032	1/1	0.98	0.24	-	70,70,70,70	0
86	MG	5	4080	1/1	0.99	0.23	-	33,33,33,33	0
85	OHX	1	3474	7/7	0.98	0.11	-	87,87,87,87	0
86	MG	5	3748	1/1	0.92	0.57	-	43,43,43,43	0
86	MG	1	3853	1/1	0.94	0.83	-	38,38,38,38	0
86	MG	5	3801	1/1	0.78	0.39	-	35,35,35,35	0
86	MG	1	3776	1/1	0.89	0.30	-	34,34,34,34	0
85	OHX	1	3639	7/7	0.98	0.18	-	107,107,107,107	0
85	OHX	1	3571	7/7	0.97	0.13	-	143,143,143,143	0
86	MG	5	3874	1/1	0.93	0.47	-	43,43,43,43	0
86	MG	5	4030	1/1	0.78	0.29	-	47,47,47,47	0
87	ZN	q3	501	1/1	0.94	0.10	-	65,65,65,65	0
86	MG	1	3976	1/1	0.94	0.17	-	41,41,41,41	0
86	MG	5	3828	1/1	0.81	0.31	-	49,49,49,49	0
85	OHX	5	3708	7/7	0.96	0.41	-	122,122,122,122	0
86	MG	Q1	101	1/1	0.71	0.41	-	66,66,66,66	0
85	OHX	1	3730	7/7	0.94	0.26	-	150,150,150,150	0
86	MG	5	4143	1/1	0.11	1.08	-	55,55,55,55	0
86	MG	1	3791	1/1	0.92	0.42	-	37,37,37,37	0
86	MG	1	3762	1/1	0.87	0.43	-	44,44,44,44	0
85	OHX	1	3686	7/7	0.93	0.24	-	141,141,141,141	0
86	MG	1	4012	1/1	0.83	0.44	-	45,45,45,45	0
85	OHX	5	3671	7/7	0.96	0.24	-	114,114,114,114	0
85	OHX	1	3664	7/7	0.91	0.36	-	137,137,137,137	0
86	MG	1	4004	1/1	0.99	0.10	-	42,42,42,42	0
86	MG	6	2176	1/1	0.86	0.33	-	54,54,54,54	0
86	MG	5	4167	1/1	0.64	0.55	-	65,65,65,65	0
86	MG	2	2133	1/1	0.48	0.46	-	66,66,66,66	0
86	MG	1	4101	1/1	0.53	0.57	-	95,95,95,95	0
86	MG	1	3884	1/1	0.94	0.24	-	37,37,37,37	0
86	MG	5	4103	1/1	0.85	0.36	-	92,92,92,92	0
86	MG	5	4007	1/1	0.91	0.41	-	61,61,61,61	0
86	MG	1	3766	1/1	0.77	0.20	-	39,39,39,39	0
85	OHX	6	2004	7/7	0.94	0.19	-	141,141,141,141	0
86	MG	m6	202	1/1	0.89	0.30	-	35,35,35,35	0
86	MG	5	4033	1/1	0.88	0.66	-	41,41,41,41	0
86	MG	5	3780	1/1	0.94	0.17	-	41,41,41,41	0
86	MG	2	2061	1/1	0.92	0.40	-	59,59,59,59	0
86	MG	1	4017	1/1	0.68	0.45	-	50,50,50,50	0
86	MG	1	4024	1/1	0.83	0.29	-	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
86	MG	5	4032	1/1	0.64	0.61	-	70,70,70,70	0
86	MG	4	217	1/1	0.94	0.50	-	69,69,69,69	0
86	MG	6	2143	1/1	0.69	0.44	-	82,82,82,82	0
86	MG	5	4133	1/1	0.77	0.56	-	55,55,55,55	0
85	OHX	s4	301	7/7	0.94	0.22	-	139,139,139,139	0
86	MG	8	227	1/1	0.78	0.41	-	54,54,54,54	0
85	OHX	5	3645	7/7	0.94	0.22	-	119,119,119,119	0
86	MG	5	4099	1/1	0.85	0.36	-	63,63,63,63	0
85	OHX	1	3435	7/7	0.99	0.12	-	85,85,85,85	0
85	OHX	1	3476	7/7	0.98	0.08	-	98,98,98,98	0
86	MG	6	2078	1/1	0.63	0.59	-	70,70,70,70	0
85	OHX	2	2012	7/7	0.93	0.17	-	153,153,153,153	0
86	MG	6	2148	1/1	0.78	0.21	-	65,65,65,65	0
86	MG	1	4120	1/1	0.37	0.64	-	76,76,76,76	0
86	MG	5	4174	1/1	0.95	0.12	-	48,48,48,48	0
85	OHX	2	2008	7/7	0.91	0.26	-	185,185,185,185	0
86	MG	5	3805	1/1	0.96	0.34	-	41,41,41,41	0
85	OHX	6	1940	7/7	0.97	0.14	-	102,102,102,102	0
86	MG	1	4027	1/1	0.70	0.24	-	120,120,120,120	0
86	MG	1	3960	1/1	0.80	0.40	-	46,46,46,46	0
86	MG	5	4155	1/1	0.67	0.99	-	62,62,62,62	0
86	MG	2	2079	1/1	0.86	0.37	-	154,154,154,154	0
86	MG	1	3833	1/1	0.95	0.44	-	39,39,39,39	0
85	OHX	5	3716	7/7	0.93	0.26	-	131,131,131,131	0
86	MG	C2	207	1/1	0.21	0.89	-	105,105,105,105	0
85	OHX	1	3717	7/7	0.94	0.33	-	132,132,132,132	0
86	MG	5	3987	1/1	0.97	0.44	-	53,53,53,53	0
86	MG	3	212	1/1	0.91	0.34	-	78,78,78,78	0
85	OHX	1	3661	7/7	0.92	0.25	-	132,132,132,132	0
86	MG	6	2113	1/1	0.89	0.68	-	50,50,50,50	0
86	MG	2	2113	1/1	0.92	0.34	-	105,105,105,105	0
85	OHX	1	3562	7/7	0.95	0.20	-	122,122,122,122	0
85	OHX	2	1992	7/7	0.96	0.22	-	153,153,153,153	0
86	MG	5	4000	1/1	0.67	0.55	-	42,42,42,42	0

6.5 Other polymers ⓘ

There are no such residues in this entry.